

Software Architecture Minutes - 2/12/2015

Attending: Beard, Geng, Hoover, Marker, Mills(recorder), Morgan, Yu

Agenda

1. Announcements & Updates
2. Specification for redirecting handles (HDLs)
3. Review and update document on OCR software alternatives
4. Server renaming; development, test, staging, and production
5. Pending
 - a. techMD to “managed” datastream migration
 - b. Updating xacml policies
 - c. Review all PDF’s in RUcore to determine if they have restrictions

1) Announcements and updates

Creating a “dark archive” for electronic journals was discussed at CISC. A preliminary application profile for archived electronic journals was reviewed.

A review of our current and new archival/preservation formats was discussed at CISC. The conclusion is that RUcore will only support archival formats that are supported by an internal body/group.

The Research Data Task Force project proposal process was accepted by the libraries cabinet. More information is forthcoming.

Version 7.5.2 of RUcore was installed and tested on production since the last meeting.

2) Specification for redirecting handles (HDLs)

Mills presented a specification for deprecating the handle server software and replacing it with a simpler redirection only service. After moving to DOIs handle creation and deletion are no longer necessary. The version of the handle server software is many versions out-of-date and upgrading that software might not be possible since there is no clear upgrade path over two major versions of the software.

An audit of the handles stored in the test system was performed and reviewed by the group. For the most part all registered handles performed as expected, with some expectations that were discussed. A similar audit will be performed on the staging and production servers. The results of that audit will be reviewed in Software Architecture, with the expectation of informing the design of the simpler redirection service that will replace the current handle server software.

3) Review and update document on OCR software alternatives

Beard presented an analysis of OCR software solutions that could be used to replace RUcore current OCR server software. Based on this analysis Beard will explore the capabilities and pricing of ABBYY as an OCR server solution for providing OCR of images and PDF’s that do not contain a text layer. It may also be possible this solution could create archival and presentation PDF’s from Microsoft Office document. Beard will present his findings at a later date.

4) Server renaming; development, test, staging, and production

Hoover reviewed the final plan and steps to complete the task of introducing a dedicated server environment for RUcore development. Currently the development and test environments have been one in the same. The service URL’s for all systems will be as follows.

Development rep-dev /rucore-dev

Test rep-test/rucore-test

Staging rep-staging/rucore-staging

Production rep-prod/rucore

The location of the application software in the new development environment will follow along the lines of the current development system; the configured Apache document root without using symbolic links.

The test environments application software will be installed identically to the staging and production system. All developers' will be responsible for installing applications between the development and test environments.

New DNS entries will be created along with Shibboleth keys and certificates. The renaming will begin in earnest during the week of the 16th and the group expects to have the task complete by the end of that week. Developers' will be responsible for reconfiguring their applications to align to all service URL changes and application location changes.

Future Items

- Delivery of code for 7.6 given the new dev/test environments, i.e. /mellon/cvsroot
- Updating DOI metadata on production system post 7.5.2