SW Arch Meeting Minutes – December 22, 2011

Agenda

- Announcements and Updates
- R6.1 Testing Status and target release date
- Discussion of upgrades and next releases
- A dot release for R6.1
- Meeting schedule for 2012

Announcements and Updates

From the review at the last CISC meeting, we are proceeding to investigate how to implement DOIs for all resources. Ron indicated that there are a few remaining issues. At this point, it looks like the DataCite organization and the EZID service from CDL will work for all of our resources. We would get unlimited DOIs for an annual $2500 membership fee. We still need to explore how to assign DOIs to the five journals that RUL has published. In this situation, we could use either DataCite or CrossRef. There may be some advantage to using CrossRef because of its interaction with OpenUrl. Ron is scheduled to make a DOI proposal in the Jan. 25 CISC meeting.

Kalaivani discussed the success a small college (College of Charleston) has had in installing WMS, ingesting into Fedora, and using batch ingest. This was all accomplished by a very competent library systems administrator. This person now wants the most recent release of WMS which will require some of Yang's time. We should revisit the issue of our support for openWMS and openETD at a future CISC meeting. Both of these software packages will require some time from Yang and Chad to update.

Release R6.1 Testing Status

Kalaivani reviewed the testing status for R6.1. A brief summary follows: stats software is OK, there are two active (minor) issues outstanding with the search portal, dlr/EDIT has two bugs to be tested and an outstanding issue regarding "order by date", and WMS has no active bugs and one remaining bug to test. So, testing on the development server looks to be in pretty good shape. Assuming we can resolve the remaining issues promptly, we will plan to move to the staging server during the week of January 13 and to the production server during the week of January 22.

Regarding the installation of shibboleth on development and production servers, Sho indicated that he will talk with Chuck Hedrick early next year. Dave later upgraded this status by indicating that he had talked with Chuck this morning and Chuck will proceed with setting up apache on these two servers. Shibboleth is very important for us to be able to move production content from lefty64 (e.g. JPE videos) and to move Analytic software to the development server.

Upgrades and Next Releases

Ron reported that CISC has approved our release plan with two additions – a major release for the EAD capability and the addition of a specification for a Sakai API. We discussed the release plan with proposed assignments to various members where possible.

Upgrades Not Release Related. Our objective is to do all these upgrades in January as follows:

- Migration of JPE to production (Kalaivani) – we need shibboleth to do this.
- Migration and testing of Analytic on development (Chad) – need shibboleth
- Ingest of gzip files for the Cranberry project (Kalaivani)
- Reconcile data projects structure (Chad, Kalaivani)
- XML-1 datasteams (Jeffery)
- Thumbnails for multipage documents (Jeffery)

Release 6.5 – Upgrade to Fedora 3.5.x. In order to prepare for this upgrade, most of us felt that we need to install Fedora 3.5.x on a separate server. There are a number of new capabilities that we need to explore including FESL and file URI ingest. There is likely to be at least one R6.1 dot release and so we can't put a new release of Fedora on the development server. So, it looks like we will either need another server or we should install Fedora 3.5.x on lefty64.

Release 7.0 – the Large File Release. To accomplish the large file release, there are four interrelated capabilities to be implemented: a) WMS ingest of large files in the background, b) alerting to the user after ingest and indexing are complete, c) explicit datastreams for archival files with associated techMDs, and d) file type configurability across all sw_arch software. These new capabilities represent a major release and we will need to reexamine related functions such as the /rarch directory, how we handle checksums, and using the Fedora messaging service. We will begin detailed discussions in the January 12 meeting. Also, WMS portal ID assignment was not implemented in R6.1 and is therefore a candidate for R7.0. Regarding enhanced A/A, we will look to the media group to provide requirements on authenticating by user IDs and IP ranges.

Architecture and Requirements. There are several major specifications that must be written before we can proceed with implementation. Chad and Isaiah will do the jpeg2000 specification, however we will need to assign others to the remaining specifications (e.g. EADs, messaging/alerting, etc.).

An R6.1.1Dot Release. A dot release may be appropriate to consider after we have several weeks of experience with R6.1. In addition, there are several features that have been developed (but not yet tested) that could go into a dot release (e.g. file policies for different collections and audio/video content for faculty deposit).

Meeting Schedule

We agreed to begin our sw_arch meetings next year on Thursday, January 12 and then proceed on our two week schedule (e.g. January 26, February 9, etc).

Agenda Items for Next Meeting

- Progress R6.1 Status
- Large File discussion

rcj – 01/09/2011

Attachment – Proposed R6.5 and R7.0 Releases (DRAFT)

RUcore Release Summary for R6.5 and R7.0

Capabilities and Upgrades not Release Related
 Required Upgrades
- Reconcile data project structure on mss3
- Migration of JPE
- Migration of Cranberry project
- XML-1 datastreams
- Thumbnails for first page of multipage documents
- Continued performance analysis

Architecture and Requirements
 Requirements and architecture only (available in March/April, 2011)
- Jpeg2000 architecture and page turner
- Messaging and alerting (e.g. alert on ingest complete)
- UI for data to dynamically create a zip for download
- Context object

Release 6.5 – Upgrade to Fedora 3.5.x (Target – February/March)

Release 7.0 – Large Files, etc (Target – March/April)
 Requirements for development (available for review – TBD)
- Large file support and background ingest (with user notification)
- Archival masters (explicit archival files – no tars - and multiple techMDs)
- /rarch directory (requirements complete) – (spec complete)
- Migration from mss3 to RUcore urls (spec complete)
- Authentication/Authorization enhancement (user IDs, IP addresses, etc)
- EAD support (ingest process, object structure, user interface)
- MP4 container for presentation (supports progressive and download, prepare for mobile devices, etc)
- Djvu applet (esp. for yearbook project)
- File type configurability across all RUcore subsystems

 Development (code complete – TBD)
 Release (TBD)

Release 7.x (not scheduled)
 Possible Features
- Jpeg 2000 and page turner
- Object integrity tool
- Alerting and messaging service
- Read-only system
- Context Object
- Support for mobile devices
- Handles pointing to specific datastreams
- Shorter handle strings
- Support for DOIs
- Upgrade of handle server

rcj – 12/08/2011