SW Arch Meeting Minutes – March 22, 2012

Agenda

- Announcements and Updates
- Progress on R6.1.2
- Progress on Non-release projects
- File Configurability
- Fedora Checksums
- Structural map for complex objects

Announcements and Updates

Ron reported that Grace has chartered an EAD – RUcore working group. The working group has spawned an architecture group that consists of Caryn Radick, Chad, Kalaivani, Jie, and Ron. From CISC, the EAD targets are an architectural specification in August, an implementation specification in October, and the first release in the Spring, 2013.

Tibor reported on the server status related to video streaming. Two servers and Wowza software are proposed for purchase. These purchases are all part of the year-end budget and we should have a determination soon as to whether we can purchase these items. There was also discussion regarding whether or not the RUcore infrastructure should be used for depositing/serving licensed videos (e.g. if RUL did not continue with NJVid). There was a consensus that we should use the RUcore infrastructure, but we did agree to run the streaming video specification past CISC to make sure everyone agrees with the recommendations in that document. The Media Group, currently chaired by Jane Otto, is working on a complete workflow for streaming media. Software-Architecture WG members also on that group are Beard and Purger. Final policy decisions are not within the purview of the sw_arch team and are rightfully the purview of other groups. These groups should be made aware that the infrastructure is in place to support streaming licensed content if and when that decision is made. On a related matter, Ryan raised the question of what the cost model should be for these types of videos. It was agreed that this was an important area for the cost model group to investigate.

Release R6.1.2

Initial tests have been successful. We're waiting on the completion of testing by independent testers and should be able to move this release to staging next week.

Non-Release Related Updates

The status of each project is summarized below:

- JPE. We're getting close with shibboleth. Dave will investigate sharing PHP session variables as the next step. One minor glitch on not finding the video file on the Darwin

server appears to be just an issue with not updating the Fedora ID. We are also ready to move JPE objects to the production server.

- Analytic. Chad has moved the Analytic environment to the development server and is now completely independent of lefty64.
- XML-1 Datastreams and Jpeg Thumbnails. Testing is basically complete on development however it was suggested that we need to re-test the situation when a datastream is embargoed.

During this discussion, Dave noted that we are about out of disk space on lefty64 (1.6 GB of free space) and asked everyone to delete unused files. Yang will discuss with Isaiah about possibly using one of the SCC servers to test openWMS with Fedora.

File Configurability

Yang reviewed the specification on file configurability. Everyone seemed OK with the approach for a more flexible collection level file policy. We discussed the issue of how to manage policies across three servers since we typically need to set up different policies on each server. Yang agreed to provide better documentation and it was also suggested that we might consider setting up a master default policy. For sharing policies with other applications, it was agreed that WMS would include more information that is currently used to deliver datastreams (e.g. as suggested in Chad's handout). There was concern voiced that this would require WMS to be part of the real-time delivery scenario. This problem might be solved by just having WMS create a file that all software applications could access.

Fedora Checksums

Jeffery reviewed how we could take advantage of the Fedora capability to generate and compare checksums. This feature was not available when we first started using Fedora, however we now have an opportunity to use native Fedora capability rather than developing/maintaining our custom checksum capability. We agreed on the following:

- WMS will add the contentDigest with computed checksum to the FOXML for the datastream on all archival master files.
- Going forward, we proposed that we not include the checksum in the techMD (it becomes redundant). Kalaivani will review this and get approval from the MDWG. Chad brought up the issue of how to get programmatic access to the checksum when it is only represented as a value for contentDigest. (In a post-meeting verification, Chad was able to easily acquire and pass through the Get API the checksum by opening and parsing the object XML. So, at this juncture, it looks like access will not be a problem).

- Upon approval from MDWG, we will create a script to remove checksums from the techMD in "legacy" objects and add checksums to contentDigest.
- Jeffery will continue to test the Fedora checksum capability by examining performance on several file sizes.
- It was noted that we may want to use the Fedora capability for presentation files (e.g. for datasets).
- It was also noted that the Fedora checksum capability does not require Fedora messaging.

Structural Map for Complex Objects

Chad reviewed the possibilities for using the METS structural map and fileSec to represent complex objects (e.g. multi-level directories with many files). It appears that we will want to use this capability both for archival masters and presentation. This area needs more discussion and we will continue in the next meeting. Chad will bring in an example for how METS might be used for complex objects.

Agenda Items for Next Meeting

- Complex objects/structural map specification (continuation) – Chad
- Data User Scenarios - Aletia
- Multiple techMDs – Yang
- A/A Scenarios – Ron
- Status of Non-release projects
- File Support and background ingest – Kalaivani and MDWG
- Pending
    - Enhanced UI for the landing page (a possible framework) – Chad and Jeffery

rcj – 04/02/2012