

## Software Arch 12/06/2012

Attending: Ananthan, Beard, Geng, Marker, Mills (recorder), Triggs, Womack, Yu

### Agenda

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- 1) Announcements and updates
- 2) Implementing the TECHNICAL datastream as managed instead of inline for R7.0
- 3) Status of R7.0 testing (code complete, bug fix status, etc)

### 1) Announcements and Updates

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#### Faculty Deposit Content Model Use Case

The group discussed a Faculty Deposit use case where a faculty member might wish to deposit a “mixed-media” resource containing both a video and audio file. A content model has not been defined that supports this type of “mixed-media.” A content model could be created, however currently the Faculty Deposit module hard codes the genre decision made by the depositor to both the typeOfResource and content model. If any new content model were to be created a code change would need to be made to have this option available in the Faculty Deposit module.

Marker will ask User Services how viable this use case would be in the near future. In the next major release Geng and Yu will move the hard coded mappings into the WMS configuration module so any new content models, typeOfResource, and genres can be mapped without a code change. In the interim Womack suggest a message be placed in the Faculty Deposit telling depositors to contact the support staff if they have any “unsupported” file types.

### 2) Implementing the TECHNICAL Datastream as Managed Instead of Inline for R7.0

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The group discussed and confirmed the implementation of the technical metadata datastream for this release. In summary:

- 1) TECHNICAL1 is the datastream ID for the technical metadata datastream
- 2) TECHNICAL1 will become a managed datastream, not inline as it currently is
- 3) Inside the TECHNICAL1 datastream multiple entries will appear when multiple archival files have been stored in the resource. An example cited is a 5 page book will have ARCH-1 through ARCH-5 datastreams along with a single TECHNICAL1 datastream. The TECHNICAL1 datastream will contain 5 separate technical metadata sections that point to the corresponding ARCH datastream.
- 4) It was confirmed that dlr/EDIT and RUcore search and display will not be impacted in any way by moving TECHNICAL1 from inline to managed.

#### Checksum Issue

Yu raised an issue he uncovered when attempting to replace an existing managed datastream via WMS. The issue was when trying to *modifyDatastreamByReference* with all possible checksum permutations; supplying and not supplying a checksum, Fedora throws an error. The only option is to set the *checksumType* to disabled. This leaves the datastream with a checksum value.

Yu and Triggs identified the issue as a bug with our current version of Fedora and that is fixed with Fedora 3.6+. dlrEDIT has a workaround in its interface that after a *modifyDatastreamByReference* the checksum is calculated and added in for the datastream. Triggs will add an issue to software.libraries stating how to test this new dlr/EDIT feature and Beard will test it.

For R7.0 when using *modifyDatastreamByReference* WMS will leave the *checksumType* disabled. Since the TECHNICAL1 datastream is the only datastream WMS will do this for and we do not currently run integrity testing on non-archival datastreams this is not a major issue at this time.

### **3) Status of R7.0 testing (code complete, bug fix status, etc)**

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Anathan gave a summary of the issues marked active, test and fixed.

WMS – 29 active, 21 test, and 13 fixed

dlr/EDIT – 8 active, 3 test, and 8 fixed

Search/Portals – 1 active, 6 test, and 4 fixed

Statistics – 0 issues

Anathan reported that she might suspend WMS testing until a majority of the issues are addressed. In the meanwhile focus will be brought to dlr/EDIT, searching and statistics during the testing sessions. Anathan noted she was pleased with the current round of testing, as all major functionality had worked as expected and many of the current active issues are minor.

### **Review and Scheduling of Specifications and Pending Agenda Items**

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The group reviewed the current list of pending agenda items. The following timeline for review was agreed upon.

- Specification for applying SHA-256 to legacy objects – **January review, Triggs**
- DOI specification – **January review pending Jantz input, Jantz**
- Wowza, MP4 specification update – **January review, Beard**
- Review of mss3 to RUcore migration specification – **January review, Mills**
- Configuring SOLR to add metadata fields without a code release – **Late January review, Triggs**
- RUetd – WMS update – **January review, Mills & Yu**
- Enhanced UI for the landing page – **February review, Marker**
- WMS – creation of relationships (rels-ext) for data projects – **Not scheduled, Jantz & Womack**
- Schedule “champagne” meeting – **Not scheduled, Jantz**

### **Next Meeting and 2013 Meeting Dates**

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A meeting is scheduled for December 20<sup>th</sup>, 2012, however depending on the current R7.0 test status this meeting might be cancelled. Mills will send an email by December 14<sup>th</sup> if this meeting will be cancelled.

Starting in 2013, the first schedule meeting will be on Thursday, January 10<sup>th</sup>. Meetings are then scheduled every two weeks from that point. Jantz and Mills will send out a series of Zimbra meeting invitations for the first 6 months of the year.