**Software Architecture Working Group**                                                   **November 17, 2009**

**Minutes of October 29, 2009 Meeting**

**Agenda**

1.  Updates and Announcements
2.  Status of R5.1
3.  Performance measurements and assessment
4.  Multiple related items

**Announcements and Quick Updates**

For R5.1, we will have to work around the dates for the VMC project and students doing metadata.  The approximate dates are from late October through the week of Nov. 16.  It was noted that local file ingest will be a feature in Fedora 3.3, to be release in December, 2009.  There has been a request from  NJVid steering committee meeting to provide an expiration date on a video license policy (i.e. in the POLICY datastream).  Jie will investigate.  Regarding progress with bringing on more graduate schools for ETDs, Rhonda indicated that she has meet with Camden directors and will soon be meeting with Mason Gross.  Our next meeting will be at 1:30  pm on November 12 in the SCC Heyer room.

**Status of R5.1**

Kalaivani indicated that most of the critical WMS bugs have been fixed.  Currently, there are six WMS bugs outstanding.  We decided that the one bug related to forms processing did not need to be fixed in R5.1, in part because of the fairly extensive re-working required in WMS.  We also agreed to use the php/soap module in WMS edit rather than java bridge.  Regarding a batch ingest issue (from Vincent's testing), we decided to allow both PDFs and tiffs as archival master formats.  Regarding schedules, our objective is to complete lefty64 testing during the week of Nov. 2 and move to mss2 for final sanity testing during the week of Nov. 9.  If possible, we want to release R5.1 to the public before the Thanksgiving holiday but we need to make sure we don't disrupt the work with VMC.

**Performance of R5.0 and R5.1**

Performance testing on lefty64 with R5.1 still indicates we have some significant problems.  The problem areas are in three areas: 1) the initial search versus the $2^{nd}$, $3^{rd}$, etc, 2) searching for long, unquoted strings, and 3) a significant difference in basic Fedora API times on lefty64 and mss2 (times on mss2 are 3X longer).  To pin down the first two areas we decided to do the following: 1) index only bibliographic data and conduct more tests, the premise being that large full-text indexes are creating the problem, and 2) re-install amberfish 1.4.x and compare with amberfish 1.6.x. Dave and Sho will see if they can do this on lefty64 so we can test in the same environment in which the other tests have been run.  We will also proceed with installing 16GB of memory on lefty64, given that the difference between the first and subsequent searches looks very much like the index is cached for the $2^{nd}$ search.  Sho will explore how to create a segment of memory to emulate disk for the indexes.

**Multiple Related Items**

We clarified that multiple related item blocks will only be used for resource objects in R5.1.  This capability allows a resource object to be a member of multiple collections via the MODS relatedItem field.  Specifically, in R5.1, we will not use this capability for collection objects, e.g. for a sub-collection to be a member

of multiple parent collections.  This issue will be taken up as part of the discussion to determine how and for what applications we will use the Fedora relationship services.  Candidates include ETDs, datasets, and collection membership.  It was also suggested that we consider integrating the WMS and dlr/EDIT collection databases.

**Other Items**

**Agenda Items for the Next Meeting**

- Status of R5.1
- Statistics update for R5.2 – API architecture
- Sound disseminator for R5.2
- Jpeg2000/aware
- R5.2 review

rcj – 11/17/2009