

## **SW Arch Meeting Minutes – February 14, 2013**

### **Agenda**

- Announcements and Updates
- Status of R7.0 testing
- Implementation specification for the DOI API
- RUcore statistics profile
- Faculty deposit enhancements for R7.5

### **Announcements and Updates**

As reported in the recent CISC meeting, we have numerous ongoing RUcore projects that demonstrate much interesting variety – the Optimality archive, collaboration with the Syriac library, a grant related to physics instruction, Roman Coins, and RU yearbooks. These varied projects are evidence of a flexible underlying software architecture. Also, from the CISC meeting, Grace proposed a new capability to provide “My Account”, a focal point for faculty services where a faculty member can login and view all their resources, statistics, and get access to RUcore services. Chad will work with Rhonda and Kalaivani to develop a specification and a possible timeframe for implementation. As Rhonda reported, CISC also reviewed and updated the set of RUcore content models, to be reviewed in the next sw\_arch meeting. Grace proposed that we discuss versioning in the next CISC meeting. Ron will provide a specification from the DOI perspective of how to handle versions. Versioning will also need to be addressed from a metadata perspective.

### **Status of R7.0 Testing**

Kalaivani reviewed the outstanding bugs for R7.0. It appears that the SOLR indexing, label edit, and statistics bugs have been fixed. Also, a lingering problem related to the size of the XML-1 file has been fixed. We had an extended discussion about providing the dynamic indexing capability in SOLR. This capability has been in the software base for some time but actually not used until R7.0. In summary, this capability allows one to specify a new field to be indexed without actually modifying the SOLR XML schema. The “grade level” item is to be handled using this approach in R7.0. Jeffery will review the specification in the next sw\_arch meeting that will propose a method for using dynamic indexing without having to make code changes which require a software release.

Given the need to test the recently fixed bugs, we proposed a code freeze date of Feb. 15, delivery to staging on Feb. 18, and release to the public on March 4. Isaiah will post notifications that a new release is pending on Feb. 25.

### **Specification for the DOI API**

Chad reviewed the specification for the DOI API to be used in our upcoming R7.1 dot release. There were no specific changes to the specification; however a number of related issues were discussed. The MDWG will need to address which metadata model to be used when supplying metadata for a DOI. When creating a DOI, the EZID service offers some useful status options – public, reserved, and unavailable. For example, in a versioning context, we might change the status of a public resource to unavailable when a new version of the resource is

ingested. The EZID service also allows us to display a message when the DOI becomes unavailable. Chad noted that we have a gratuitous gift from EZID in that all requests for a DOI also result in creating a shadow ARK. At this point, we do not plan to use these ARKs. Finally, we discussed the format of the DOI suffix and whether this string should be opaque (and generated automatically by EZID) or whether we want to impose some structure on the suffix. Although there are some benefits to a custom structure, it is generally not a good practice from the preservation perspective. Any structure imposed can become irrelevant in 10 or 20 years. There appeared to be a consensus that an opaque suffix is preferable. Ron will discuss this approach with Grace. It was reiterated that we will just be replacing HDLs with DOIs in R7.1 while some of the more enhanced features (e.g. displaying notes) will be targeted for future releases.

### **RUcore Statistics Profile**

Chad reviewed the prototype for displaying storage statistics (files, objects, and total storage), using various classification schemes such as file types and object IDs. Ron indicated that he will use this data as well as RUcore restricted statistics to develop trend lines on storage growth, downloads, and ingest activity. Chad will add a statistics view from the content model and type of resource perspective. Some minor changes are needed in formatting to split out various displays, for example to be able to see the small contributions to storage from metadata. We agreed to move ahead with the statistics profile with implementation in R7.0. Chad will work with Dave to set up a weekly cron update.

### **Faculty Deposit Items**

There is a document dated Feb. 6, 2013 that provides a list of outstanding faculty deposit issues. Some of the items have been fixed and others have varying priorities. Rhonda will work with the User Services group to identify which items are high priority and should be included in the next dot release.

### **Other Items**

In the next meeting, we will discuss how we might break up the proposed R7.5 into smaller dot releases with an associated discussion of high priority items (e.g. FD features, My Account, Wowza, jpeg page turner, A/A, etc.). Our post R7.0 celebration is targeted for the sw\_arch meeting of March 14.

### **Agenda Items for the Next Meeting**

- R7.0 Status
- Review of updated content models
- Specification for configuring SOLR to add metadata fields without a code release
- DOIs and versioning
- FD features for the next release
- Review of upcoming dot releases
- RUetd – WMS update