

# 2013-09-26 - Fedora Committer Meeting

## Time/Place

This meeting is a hybrid teleconference and IRC chat. Anyone is welcome to join...here's the info:

- Time: [11:00am Eastern Daylight Time US \(UTC-4\)](#)
- ReadyTalk:
  - U.S.A/Canada toll free: 866-740-1260, participant code: 2257295
  - International toll free:
    - <http://www.readytalk.com/intl>
    - Use the above link and input 2257295 and the country you are calling from to get your country's toll-free dial-in number
    - Once on the call, enter participant code 2257295
- IRC:
  - [Join the #duraspace-ff chat room via Freenode Web IRC](#) (enter a unique nick)
  - Or point your IRC client to #duraspace-ff on [irc.freenode.net](http://irc.freenode.net)

## Attendees

- [Greg Jansen](#)
- [Esme Cowles](#)
- [Ye Cao](#)
- [Markus Haarländer](#)
- [Matthias Walter](#)
- [Eric James](#)
- [Michael Durbin](#)
- [A. Soroka](#)

## Agenda

1. 20 - Review current fcrepo4 work.
  - a. [Triple store integration](#)
  - b. [Customizable search indexes](#)
  - c. [Large file performance](#)
  - d. [Fcrepo3 migration](#)
  - e. [roles-based AuthZ](#)
2. 10 - Scalability of the API for children
  - a. Moving away from using Jena Model as container for triples in the kernel
  - b. Moving to a streaming API all the way through the kernel
3. 10 - Stakeholder needs in a customizable search indexer (Solr)
4. 15 - [Wiring and configuration](#) (see also [Comparison - Wiring](#))

## Previous Actions

- [Michael Durbin](#) to create Pivotal tickets for UI polish
- [Benjamin Armintor](#) to send email for others to sign his and other committers' keys

## Minutes

1. reports on current work
  - a. triple store integration - Esme
    - i. will be looking at Mulgara and JMS indexer to incorporate non standard SPARQL queries
    - ii. looking at multiple levels based on reviewing use cases
    - iii. kitchen sink now has triple store ( Question for Andrew: Is vm built from master automatically )
      1. Answer from Andrew: "Yes, Jenkins deploys kitchen-sink on each commit to: <http://futures6.fcrepo.org:8080/fcrepo/rest/>"
  - b. large file performance - Eric
    - i. 3 avenues explored
    - ii. researching different configuration settings ( e.g. caching hashes showed dramatic improvement )
    - iii. Scott commented on how fixity done in Fedora3
    - iv. fyi, looks like we actually read the data and do a new checksum when we do the [fcr:fixity](#) check, the low-level code that does the reading/checksumming is here:<https://github.com/futures/fcrepo4/blob/master/fcrepo-kernel/src/main/java/org/fcrepo/kernel/Utils/LowLevelCacheEntry.java#L92> (Esme)
  - c. migration - Mike
    - i. 90% completed and the remaining 10% is slow
    - ii. working on display, especially focused on performance when many children as displayed
  - d. roles based - Greg
    - i. will be working on integration test needed for effective roles for tree object
    - ii. roles can have expanded permission set ( Scott )

- iii. XACML will be used for each role
  - iv. policy enforcement point
- 2. API for children
  - a. effective hierarchy needed to maintain good performance
  - b. a couple of tests suggested (Greg has the action items)
- 3. search indexer - Markus
  - a. external indexer (esp. Solr)
  - b. [Design - Customizable Search Index](#)
  - c. Scott described how they use Solr in F3. change METS to Solr XSLT to customize
  - d. what should be indexed? data streams, text extraction from spreadsheet, PDF, etc.
  - e. Possibly use METS which can point to binary files
  - f. maybe use a default Solr schema; consider exposing to public and document how to use
  - g. alternatives to XSLT should be considered
  - h. need to keep the idea of distributed hardware ( e.g. separate Solr and Fedora)
- 4. wiring - Adam
  - a. changes will be hard and are hard now
  - b. future proofing may not be as important as buy in from the group
  - c. examples used currently or in the past: struts, Spring, JAX, CDI
  - d. feedback from the community needed for <https://wiki.duraspace.org/display/FF/Comparison++Wiring>

## Actions