

# 2016-07-28 - Fedora Tech 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)
- Dial-in Number: (712) 775-7035
  - Participant Code: 479307#
  - International numbers: [Conference Call Information](#)
  - Web Access: <https://www.freeconferencecallhd.com/wp-content/themes/responsive/flashphone/flash-phone.php>
- IRC:
  - [Join the #fcrepo chat room via Freenode Web IRC](#) (enter a unique nick)
  - Or point your IRC client to #fcrepo on [irc.freenode.net](http://irc.freenode.net)

## Attendees

- [Jared Whiklo](#)
- [Longshou Situ](#)
- [Esmé Cowles](#)
- [A. Soroka](#)
- [Unknown User \(acoburn\)](#)
- [Yinlin Chen](#)
- [David Wilcox](#) ★
- [Aaron Birkland](#)
- [Michael Durbin](#)
- [Katherine Lynch](#)
- [Nick Ruest](#)
- [Benjamin Armintor](#)
- [Bethany Seeger](#)
- [Allen Flynn](#)

## Agenda

1. [Performance/Scale](#) - [meeting](#) update
2. Supporting gzip compression of responses via [Jersey filters](#).
3. [Jena 3.x support](#)
4. [Fedora 4.6.0](#) (Last ModeShape4) - release testing status
5. [Fixity specification](#) update
6. Version numbers
7. ...
8. Status of "in-flight" tickets

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
Unable to locate Jira server for this macro. It may be due to Application Link configuration.										

## Ticket Summaries

1. Please squash a bug!

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
Unable to locate Jira server for this macro. It may be due to Application Link configuration.										

2. Tickets resolved this week:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
Unable to locate Jira server for this macro. It may be due to Application Link configuration.										

3. Tickets created this week:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
Unable to locate Jira server for this macro. It may be due to Application Link configuration.										

## Minutes

### Performance/Scale - meeting update

- Yinlin posted results from 3 tests: [test 2](#), [test 3](#), [test 5](#)
- Esme posted results from [test 5](#)
- Nick still running test #5 on janky system but it has been running for 3.5 weeks, over 7 million resources, still going
- Esme raised [real world performance issues](#)
  - Performance problems with nodes that link to thousands of other nodes, especially with proxies
  - Testing/exploring ongoing
  - Caching, improving performance of converting node reference to URI
  - Currently need to look up node by UUID and convert to path to generate URI
  - Esme: We could reverse relationship so each object links to its parent (rather than the parent linking to all children)
    - Works well for collections but not objects with lots of parts
- [Next meeting](#) is August 15 at 11am ET

### Supporting gzip compression of responses via Jersey filters

- Aaron C: A lot of web servers allow you to request compressed resources via gzip so there is less network bandwidth
- Fedora does not currently support this
- There is a fairly standard way to do this with Jersey filters
- Are there any objections?
- Adam: Can we do this at the container level?
- Aaron: Maybe - hasn't done this before
- Adam: Is there a downside to this?
- Aaron: Not aware of any
- Adam: Let's file a ticket and do it
- Adam: Should have a switch to disable for debugging

### Jena 3.x support

- Aaron C: Jena 3.x has been out for more than a year
- We currently use 2.13
- There is no support/development for 2.x
- Aaron C has a [pull request](#) into the core codebase
  - Lots of files are changed due to package name changes and differences between RDF 1.0 and 1.1
  - Pretty straightforward in terms of substantive changes
  - fcrepo-transform uses ldp-path-backend-jena, but there was a [ticket](#) to swap out that backend for ldp-path-backend-linkeddata
  - Unfortunately, this change is currently blocked by the Maven Enforcer module
- Andrew does not want to move forward with the Jena 3.x pull request since fcrepo-transform can't move forward
  - Andrew says he will do the rebasing
- Should we let the core codebase wait on certain extension modules with idiosyncratic dependencies?
  - OSGi would help but this is a long term solution
  - Adam: Can we relax the enforcer rules?
  - Aaron: Yes
- This caching functionality would be hugely beneficial to the community
- Proposal: ~~Relax Maven enforcer on fcrepo-transform and fcrepo-webapp-plus~~, keep fcrepo-transform, swap out backend for ldp-path-backend-linkeddata
  - Proposal approved by attendees on the call
  - Update: it is not necessary to relax the maven enforcer. The same thing can be accomplished with maven dependency exclusions.

## Fedora 4.6.0 (Last ModeShape4) - release testing status

- [Lots of help](#) from the community
- Still need more Windows testing
- Jared volunteered to do Vagrant testing
- Need volunteers to do testing with various databases
  - Esme can test MySQL and PostgreSQL
- We are 1 week into 2 week testing period
- Aaron C: Do we need a new release candidate for new issues?
- Adam: Yes, we will want an RC3

## Fixity specification update

- Ben and Nick working on this
- Meeting again next Tuesday
- [F4 Spec - Binary Fixity Checking](#)

## Version Numbers

- Aaron C: Current policy is that master branch is frozen when RC is in flight
- Changes go into dev branch and dev branch is merged to master
- This is too complex and inhibits changes to master
- Should have a master branch pinned to next major version
- Proposal: When you create a new release series (e.g. 4.5.x) and start diverging from this series (e.g. 4.6.x), you need a maintenance branch for commits to the current series so new commits can continue going to master
  - Proposal approved by attendees on the call

## In-Flight Tickets

- Aaron C: Waiting on reviews for two tickets
  - <https://jira.duraspace.org/browse/FCREPO-2088>
  - <https://jira.duraspace.org/browse/FCREPO-2087>

## Import/Export Meeting

- [Next meeting](#) is tomorrow
- Finish going through use cases, move on to requirements
- Sprint planning