

# 2017-12-14 - 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

- [Danny Bernstein](#)
- [Esmé Cowles](#)
- [Ben Pennell](#) ★
- [Michael Durbin](#)
- [Peter Eichman](#)
- [Joshua Westgard](#)
- [Bethany Seeger](#)
- (Please add your name)

## Agenda

1. Announcements
  - a. 4.7.5 Release Process begins
2. 4.7.5 release - Planning for week of January, 15th 2018
  - a. Release manager - [Osman Din](#)
  - b. Volunteers
    - i. Testers
      1. [Danny Bernstein](#)
      2. [Joshua Westgard](#)
      3. [Peter Eichman](#)
      4. ?
    - ii. Someone to review 4.7.5 commit message for signs of missing documentation?
    - iii. Preparers of Module Release Candidates

Module	Who?
<a href="#">fcrepo-module-auth-rbacl</a>	<a href="#">Osman Din</a>
<a href="#">fcrepo-module-auth-xacml</a>	<a href="#">Osman Din</a>
<a href="#">fcrepo-module-auth-webac</a>	<a href="#">Osman Din</a>
<a href="#">fcrepo-mint</a>	<a href="#">Osman Din</a>
<a href="#">fcrepo-audit</a>	<a href="#">Osman Din</a>
<a href="#">fcrepo-webapp-plus</a>	<a href="#">Osman Din</a>
<a href="#">fcrepo4-vagrant</a>	<a href="#">Osman Din</a>

- c. Resources:
    - i. component release process tracker: [https://docs.google.com/spreadsheets/d/1L\\_zTMxh2l2rf2wpaf0TwhSTR5GZuEoaTcZmTKCl3xT4/edit#gid=1769378986](https://docs.google.com/spreadsheets/d/1L_zTMxh2l2rf2wpaf0TwhSTR5GZuEoaTcZmTKCl3xT4/edit#gid=1769378986)
    - ii. [Release Testing - 4.7.5](#)
3. [Fedora API Test Suite](#)... needing:
    - a. Try the tool against an API implementation
    - b. Code reviewing the tool... lots of low-hanging fruit
  4. Simple, synchronous query in Fedora
    - a. What will it take to make this happen?

- b. [Prior art](#)
  - c. Queries to support
    - i. select ?s where {?s ?p ?o}
    - ii. select ?s where {?s <some-pred> ?o}
    - iii. select ?s where {?s <some-pred> <some-object>}
5. Tickets requiring attention

- |    |  |   |
|----|--|---|
| a. |  <a href="#">FCREPO-2520</a> - Jira server returned an error: | - <a href="#">Bethany Seeger</a> to review?     |
| b. |  <a href="#">FCREPO-2659</a> - Jira server returned an error: | - <a href="#">Ralf Claussnitzer</a> to explore? |
| c. |  <a href="#">FCREPO-2650</a> - Jira server returned an error: | - <a href="#">Ben Pennell</a> to explore?       |
| d. |  <a href="#">FCREPO-2544</a> - Jira server returned an error: | - on hold or close?                             |

- 6. 5.0.0 release
  - a. API Alignment
  - b. Pairtrees?
- 7. Beyond 5.0.0 - Areas of improvement
  - a. Persistence?
  - b. Journaling?
  - c. Simple, synchronous query?
- 8. ...
- 9. Tickets In-Review

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
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 Jira server returned an error:

[View these issues in Jira](#)

## Ticket Summaries

- 1. Please squash a bug!

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
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 Jira server returned an error:

[View these issues in Jira](#)

2. Tickets resolved this week:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
 Jira server returned an error: <a href="#">View these issues in Jira</a>										

3. Tickets created this week:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
 Jira server returned an error: <a href="#">View these issues in Jira</a>										

## Minutes

2. Release

- Esme can help with Samvera testing
- Osman will perform builds of module release candidates, unless he wishes to delegate
- May be a challenging release given holidays

3. API test suite been running for a while. Has anyone had a chance to look at it?

- Danny hasn't looked at it yet, but seems easy to use. Going to try it out this week
- Interested in people trying it against other implementations, like Trellis and Cavendish.
- Bethany: Is this considered done as far as the contractors are concerned?
  - Danny: Good question, the repo doesn't say how complete it is. Will check in with Andrew
  - Since the API alignment isn't complete, it shouldn't pass against modeshape impl yet
  - Code reviewing the tool?

4. Simple querying in Fedora?

- Previously, cbeer had added this functionality, but it had been later removed
- Is data structured for this in modeshape to be reasonably performant?
- Mike: Was one of the agitators for this, opposed it being cut
  - Some stuff is inferred, some not directly searchable
  - What types of queries do we want to support?
  - What exceptions are we willing to tolerate?
  - Extension spec?
  - Is it okay if it doesn't work consistently on server managed triples, like date fields?
  - Just wants to be able to search dc:identifier. This would work, modeshape has an index that can be searched.
- Esme: Valkyie, making a list of queries that the repository needed.
  - Needed queries
    - all objects of given type
    - Doing a search for dc:identifiers
    - They will come up with a list of queries they need
- Danny: Would it be helpful at this point to fill out the list
  - Discuss some of the known limitations of modeshape's internal indices
    - Mike: Last modified date is across two fields. Might need to normalize way stored in fedora. Need to work out if this is needed
    - Esme: Types and containment triples are harder to make searchable
    - Search for non-server managed triples that are directly assigned are easy.
    - RDF type are not stored in the index modeshape maintains. That is inserted into responses.
    - Use case: find all objects of a type in order to do bulk object on it
    - Can't search on fcr namespace and ldp namespace. Might be okay to not support those, but it would be weird to have an LDP server that didn't support it
    - Could add support for this in after if there is demand for it
- Mike will start document to gather first pass at known limitations of implementation and requirements

5. Tickets requiring attention

- 2520
  - Bethany would like more feedback on what expectations are for mimetype
  - She will take another look at it to try to work through what the validation issue is
- 2650
  - Bethany will take a look
- 2544
  - there was a work around for that, using a different accept type. No one has strong feelings that it shouldn't be closed, so will make a note on ticket
  - Josh - as a larger strategy, this is something we will need to address
  - Paging mechanism is problematic in RDF rest api, but something we will need to deal with
  - Work around okay for now, but many members issue needs to be addressed in future implementations

#### 6. 5.0.0 release?

- Need to wrap up creation of mementos, one of the last main things to bring into alignment with spec
- Pairtrees - Do we want to remove them?
  - Peter (?): In favor of removing them
  - Significant bit of internal work to hide them at fedora level, while still might need them in jcr
  - Danny: In doing away with pair trees, they would still be around internally
  - Peter: Need them, otherwise performance tanks after about 1000 children
  - Esme: Might want to look at Aaron Coburn's Appletree implementation. Takes checksum, makes path based on that. Includes hiding internal paths
  - Esme: would involve renaming everything in your repository, so it would need to take place as part of a major version change
  - Esme: Would either need migration tooling, or tooling for enabling/disabling the feature
  - Danny: how hard would a migration tool be to created?
    - Esme: Would be complex, but possible. If you have been using auto-generated UUIDS, could go through repo and remove pairtree.
  - Danny: interesting proposal, do we need community feedback?
    - Yes, more feedback would be good.
    - Esme: to write up brief description of proposal for fedora-tech
    - For discussion in new year

## Action Items

**Action:** Check in with Andrew about completeness of the test suite

**Action:** Mike will put together a document with first pass at the feature set.

**Action:** Esme to write up brief description of proposal to remove pair trees for fedora tech