

2018-09-27 - Fedora Tech Meeting

Time/Place

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

- Time: 11:00am Eastern Daylight Time US (UTC-4)
- Audio/Video Conference Link: <https://duraspace.zoom.us/my/fedora>
 - Dial-in:
 - +1 408 638 0968
 - +1 646 876 9923
 - +1 669 900 6833
 - Meeting ID:
 - 812 835 3771
- Join fedora-project.slack.com on the "tech" channel

Attendees

1. [Danny Bernstein](#)
2. [Peter Eichman](#)
3. [Bethany Seeger](#) ★
4. [Jared Whiklo](#)
5. [Andrew Woods](#)
6. [Kevin Ford](#)
7. [Ben Pennell](#)
8. [Aaron Birkland](#)

Agenda

1. Announcements
2. Sprint 2 Strategy and Goals
 - a. Release candidate
 - i. Vagrant
 - ii. Camel toolbox
 - iii. java client
3. Open questions:

- a.  [FCREPO-2730](#) - Update HTML UI to support viewing versions CLOSED

- i. 4 Integration tests in FedoraLdpIT are breaking due to a 500 Error.
- ii. The cause of the 500 is

```
javax.jcr.RepositoryException: The session with an ID of '060742fc6' has been closed and can no longer be used.
```

- iii. It appears to be an OSX 10.13.x issue : [Jared Whiklo](#), [Peter Eichman](#), and [Danny Bernstein](#) have reproduced.
 1. [Danny Bernstein](#) confirmed It was not a problem for OSX 10.10.5
 2. Any ideas of how to solve it?
 - iv. If we can't resolve it, what are our options?
 1. Leave the tests in place - and document the problem in the README.
 2. @Ignore the tests until we can sort out the issue or it sorts itself out (OS fix)
 3. ?
- b. Data URIs in the constrainedBy link header
 - i. <https://github.com/fcrepo4/fcrepo4/commit/750426101de9330cafaa88838a3d694d1ef69580#diff-14e2f9192b9abd40557a43f9342f4481R44>
 - ii. Proposal: Remove and use standard URIs instead like we do with all other constraints.
 - c. Prefer headers on Mementos: <https://github.com/fcrepo4/fcrepo4/pull/1420>
 - i. Question1: Should the original resource return <> a Ldp:Container and <> a Ldp:RDFSResource when omitting server managed triples (currently these are being omitted in OriginalResource but not the Memento)
 - ii. Question2: How should fedora respond to requests to Prefer omit
 1. What would a use case for omitting server managed triples in memento?
 2. Proposal 1: Mementos should behave like the original resource
 - i. Rationale?
 - ii. Action: based on the answer to Question1 either omit the Ldp types from memento or add them to the original resource response
 3. Proposal 2: Mementos should not respond to Prefer omit
 - i. Rationale?
 4. Proposal 3: ?

d. All AuthZ tests assume literal agent values

i. What is the best way to fix this problem?

4. <your agenda item here>

5. Please squash a bug!

| Key | Summary | T | Created | Updated | Due | Assignee | Reporter | P | Status | Resolution |
|--------------|---|---|--------------|--------------|-----|-----------------|--------------------|---|----------|------------|
| FCREP O-3037 | Prefer header 'omit' containing 'PreferMinima IContainer' URL not honored | | Sep 06, 2019 | Sep 06, 2019 | | Unassigned | Bethany Seeger | ✔ | OPEN | Unresolved |
| FCREP O-3022 | Intermittent build failure | | Jul 15, 2019 | Jul 16, 2019 | | Unassigned | Aaron Birkland | ✔ | OPEN | Unresolved |
| FCREP O-3005 | GET and PUT on resource/fcr: metadata/fcr: acl and resource/fcr: versions/fcr: acl return 400 | | Jun 06, 2019 | Jun 06, 2019 | | Danny Bernstein | Danny Bernstein | ⬆ | OPEN | Unresolved |
| FCREP O-3003 | JSON-LD representation of rdf:Lists is incorrect | | Jun 03, 2019 | Jun 03, 2019 | | Unassigned | Jared Whiklo | ✔ | OPEN | Unresolved |
| FCREP O-2998 | Potential issue with namespace registry | | May 22, 2019 | Jun 21, 2019 | | Bethany Seeger | Anna Dabrowski | ✔ | OPEN | Unresolved |
| FCREP O-2988 | Creating versions of containers containing tombstones issue | | Feb 08, 2019 | Feb 13, 2019 | | Unassigned | Ben Pennell | ✔ | RECEIVED | Unresolved |
| FCREP O-2841 | Vulnerability on the commons-httpclient-3.1 dependency of fcrepo-integration-rdf | | Aug 06, 2018 | Aug 06, 2018 | | Unassigned | Peter Eichman | ✔ | RECEIVED | Unresolved |
| FCREP O-2800 | Issues running Fedora multi-threaded | | May 14, 2018 | May 14, 2018 | | Unassigned | Harsha Ummerpillai | ✔ | RECEIVED | Unresolved |
| FCREP O-2790 | Using a hash URI as a ldp:membership Resource doesn't work | | May 04, 2018 | May 04, 2018 | | Unassigned | Esmé Cowles | ⬆ | OPEN | Unresolved |
| FCREP O-2780 | GET inbound refs incomplete response | | Apr 26, 2018 | Apr 30, 2018 | | Unassigned | Kevin Ford | ✔ | OPEN | Unresolved |
| FCREP O-2746 | Failed to reset the input stream when not accessing s3 directly or s3 compatible gateway | | Apr 06, 2018 | Apr 06, 2018 | | Unassigned | Thomas Schneider | ✔ | OPEN | Unresolved |

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|--------------|---|--|--------------|--------------|-------------------|----------------------|--|----------|------------|
| FCREP O-2739 | Server returns an error after inserting a particular triple syntax | | Mar 17, 2018 | Mar 19, 2018 | Unassigned | Stefano Cossu | | OPEN | Unresolved |
| FCREP O-2712 | GET with Prefer=InboundRefs on /fcr:metadata does not include InboundRefs | | Mar 09, 2018 | Mar 09, 2018 | Unassigned | Kevin Ford | | RECEIVED | Unresolved |
| FCREP O-2670 | baseURI incorrect for audit JMS messages | | Feb 02, 2018 | Feb 05, 2018 | Unassigned | Bethany Seeger | | OPEN | Unresolved |
| FCREP O-2666 | HTML UI does not update properly after binary resource reversion | | Jan 23, 2018 | Feb 01, 2018 | Unassigned | Danny Bernstein | | OPEN | Unresolved |
| FCREP O-2665 | Integration tests flap on non-virtualized windows 10 machines. | | Jan 23, 2018 | Jan 24, 2018 | Unassigned | Danny Bernstein | | OPEN | Unresolved |
| FCREP O-2663 | MOVE - Cannot delete Solr index | | Jan 16, 2018 | Jan 17, 2018 | Unassigned | Ferdinando Terranova | | OPEN | Unresolved |
| FCREP O-2662 | Sparql Delete works inconsistently in transaction | | Jan 03, 2018 | Jan 04, 2018 | Unassigned | Ben Pennell | | OPEN | Unresolved |
| FCREP O-2659 | Maven Enforcer Plugin 'bannedDependencies' rule fails to resolve dependencies correctly | | Dec 05, 2017 | Nov 16, 2018 | Ralf Claussnitzer | Ralf Claussnitzer | | OPEN | Unresolved |
| FCREP O-2658 | Invalid ebucore:hasMimeType value inhibits access to content | | Dec 01, 2017 | Dec 01, 2017 | Unassigned | Kevin Ford | | RECEIVED | Unresolved |

Showing 20 out of 51 issues

6. Tickets resolved this week:

| Key | Summary | T | Created | Updated | Due | Assignee | Reporter | P | Status | Resolution |
|--------------|-----------------------------------|---|--------------|--------------|-----|--------------|-----------|---|--------|------------|
| FCREP O-3043 | Update migration-utils to Java 11 | | Sep 17, 2019 | Sep 18, 2019 | | Andrew Woods | Dan Field | | CLOSED | Fixed |

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|--------------|--|--|--------------|--------------|--|------------------|-----------------|--|--------|-------|
| FCREP O-3042 | Rename OCFLFedora4 Client to OCFLGoLangFedora4Client | | Sep 16, 2019 | Sep 17, 2019 | | Michal Dulinski | Andrew Woods | | CLOSED | Fixed |
| FCREP O-3038 | Update to use java 11 | | Sep 16, 2019 | Sep 17, 2019 | | Jared Whiklo | Ben Pennell | | CLOSED | Fixed |
| FCREP O-3028 | Fix javadoc warnings in fcrepo-kernel-api | | Jul 29, 2019 | Sep 17, 2019 | | Richard Williams | Danny Bernstein | | CLOSED | Fixed |

4 issues

7. Tickets created this week:


| Key | Summary | T | Created | Updated | Due | Assignee | Reporter | P | Status | Resolution |
|--------------|---|---|--------------|--------------|-----|--------------|-----------------|---|-------------|------------|
| FCREP O-3051 | Implement OCFLPersist entStorage: read (psTxld, fedoraResour celd) | | Sep 17, 2019 | Sep 17, 2019 | | Unassigned | Danny Bernstein | | RECEIVED | Unresolved |
| FCREP O-3050 | Implement OCFLPersist entStorage: delete (Container) | | Sep 17, 2019 | Sep 17, 2019 | | Unassigned | Danny Bernstein | | RECEIVED | Unresolved |
| FCREP O-3049 | Implement OCFLPersist entStorage: create (Container) | | Sep 17, 2019 | Sep 17, 2019 | | Unassigned | Danny Bernstein | | RECEIVED | Unresolved |
| FCREP O-3048 | Implement PersistentSto rageTransacti on | | Sep 17, 2019 | Sep 17, 2019 | | Unassigned | Danny Bernstein | | RECEIVED | Unresolved |
| FCREP O-3047 | Create PersistentSto rage Interfaces | | Sep 17, 2019 | Sep 17, 2019 | | Unassigned | Danny Bernstein | | RECEIVED | Unresolved |
| FCREP O-3046 | Create Fedora Transaction Interfaces and classes | | Sep 17, 2019 | Sep 17, 2019 | | Unassigned | Danny Bernstein | | RECEIVED | Unresolved |
| FCREP O-3045 | Migration-utis: Add OCFL Java client as dependency | | Sep 17, 2019 | Sep 17, 2019 | | Unassigned | Andrew Woods | | OPEN | Unresolved |
| FCREP O-3044 | Profile the performance of migration-utis against Fedora 3 and Fedora 6 | | Sep 17, 2019 | Sep 18, 2019 | | Dan Field | Dan Field | | IN PROGRESS | Unresolved |
| FCREP O-3043 | Update migration-utis to Java 11 | | Sep 17, 2019 | Sep 18, 2019 | | Andrew Woods | Dan Field | | CLOSED | Fixed |

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|-----------------|--|---|-----------------|-----------------|----------------------|-----------------|---|----------|------------|
| FCREP O-3042 | Rename OCFLFedora 4Client to OCFLGoLan gFedora4Cie nt | ↑ | Sep 16, 2019 | Sep 17, 2019 | Michal Dulinski | Andrew Woods | ↓ | CLOSED | Fixed |
| FCREP O-3041 | Migration- utils: OCFL stub impl | + | Sep 16, 2019 | Sep 18, 2019 | Richard Williams | Andrew Woods | ↓ | OPEN | Unresolved |
| FCREP O-3040 | Migration- utils: OCFL impl of exists() | + | Sep 16, 2019 | Sep 18, 2019 | Remigiusz Malessa | Andrew Woods | ↓ | OPEN | Unresolved |
| FCREP O-3039 | Gitignore deleted modules /directories | ↑ | Sep 16, 2019 | Sep 16, 2019 | Unassigned | Ben Pennell | ↓ | RECEIVED | Unresolved |
| FCREP O-3038 | Update to use java 11 | ↑ | Sep 16, 2019 | Sep 17, 2019 | Jared Whiklo | Ben Pennell | ↓ | CLOSED | Fixed |

14 issues

Minutes

- Next sprint starts next week!
- Lots of work happened during the sprint - many CTS tests filled in. Nice job!
- Sprint 2 Strategy and Goals
 - Goal: get to the Release Candidate
 - There are a number of tickets there that we know we want to address. Priority on those first.
 - Setup Release Testing work - pages, testing that the process still works and address any issues seen.
 - Documentation
 - Jared suggests focusing on the maybe 5 tickets that are bugs, leaving new features for later.
 - Suggestion of looking at all tickets to prioritize them.
 - Someone can look at fcrepo-camel-toolbox and java client to get an idea of what needs to be done there.
 - Secondary Goal: tool set. Priority would be to update camel-toolbox and java client first, vagrant last (as it depends on the other things and may not be much more work to update).
 - Ben P. suggests documenting the changes that are needed to the fcrepo tool set: fcrepo-camel-tool box, java client.
- Open questions:

-  **FCREPO-2730** - Update HTML UI to support viewing versions CLOSED
 - Tests are old tests, but they only break on this branch based on new stuff Jared is doing in his PR.
 - Mac 10.10.5 doesn't show this error. (10.10.3 = Yosemite)
 - 4 tests failing in FedoraLDAPIT tests. Same 4 tests failing. Something to do with setting text HTML in header - to return the web page. Maybe something to do with how Grizzly is working; may be a timing issue.
 - Peter E. Do we think this is a network/stack/socket communication problem? Any leads on what's causing it? He's seen some weirdness in their batch loading clients in the network HTTP/TCP stack that weren't working in Mac OS High Sierra, but worked on Sierra. High Sierra may have broken some networking issues. Danny B. suggests leaving it since it may be a Mac issue - but many of us use Mac OS's to build; we'd have to ignore those tests. Can we do a conditional ignore on Mac OSX's?
 - Jared suggests we try to look at this more. In the test, in Velocity the sessionFactory and http servlet request is injected, using context...?. Maybe something he's written there is not the best way to do this. Info he's trying to get is that it needs to know if it is a memento and if it's versionable. Maybe there's an easier/better way to get that data?
 - One proposal - have someone look at it now
 - Or make a ticket, put a conditional ignore on the tests, put some manual tests for this in the release plan, and keep moving forward, addressing this later.
 - Ben Pennell may take a short look at it. (He has a High Sierra mac)
- Data URIs in the constrainedBy link header
 - Default response on malformed RDF is a Data URI in the constrained By link. We are not using data uris anywhere else. You can't just easily read the response and see what's happening there.
 - No objection to changing that. Danny B. will create a PR.
- Prefer headers on Mementos: <https://github.com/fcrepo4/fcrepo4/pull/1420>
 - Question1: Should the original resource return <> a ldp:Container and <> a ldp:RDFSource when omitting server managed triples (currently these are being omitted in OriginalResource but not the Memento)
 - The thought is that this is a new bug - that the original resource should return those two triples. Danny B will create this ticket.
 - Danny B will create a documentation ticket for what the SMT's actually are.
 - Question2: How should fedora respond to requests to Prefer omit
 - In theory they should be the same - that what you see with the original based on the representation request, should look the same in the memento.
 - Proposal 1: Mementos should behave like the original resource
 - We'd like to go with this.
- All AuthZ tests assume literal agent values

- i. Danny believes we have some way to handle this. You can specify the baseURI for agents? The actual logic is backwards from expected. It retains the comparison between the username from current user and the agent value - is still a string comparison of just the user name. The BaseURI user webac uri prefix, its not being added to the principal from the container, but it is being stripped coming from the WebAC. Logically you end up comparing things in the correct sort of way.
- ii. Maybe the fix is to make sure that the values going into the ACL's are URIs. Any of the agents that are being tested by the CTS should probably be URI's. Then when running against fedora, we'd have to specify the agent base URI to start up the server with.
- iii. Need to start collecting a recipe of how to configure your fedora to run the CTS on it. (external content setup, webac agent setup, etc)
- iv. CTS is assuming HTTP basic auth; leaving out server certs, OAuth, etc.. What should we support? What does the Fedora API have to say about how it get a user name from the request? Is anything specified for that?
- v. WebID passed in the header? WebID TLS - auth using WebID – Solid spec mentions this by name. <https://github.com/solid/solid-spec#webid-tls>
- vi. Maybe create an issue for this and address it during the upcoming sprint.
- vii. Solid spec mention WebID and WebID TLS, but don't seem to be musts.
- viii. Question of what are we assuming about WebID based on what Solid requires?
- ix. Zimeon raised a point about users and names and we should check in with him
- x. All of CTS assumes basic auth but some systems may not be using basic auth. Would be hard to cover testing all auth systems. We could work with folks implementing the spec and see what they are using.
- xi. Aaron Birkland mentioned CLAW and JWT's - solution was to have the system hand off a http client off to APIX, which does all the JWT stuff. We could add an authentication interface for the CTS in order to delegate authentication to the implementation. The tradeoff – Fedora implementors will have to implement the interface. However, this approach might be more practical than trying to support specific systems folks are using.

Future Agenda Topics:

- Amherst College's acrepo apache camel services: <https://gitlab.amherst.edu/acdc/repository-extension-services>
- Reviving OAI