

# 2019-10-31 - 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://lyrasis.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](https://fedora-project.slack.com) on the "tech" channel

## Attendees

Part 1:

1. [Danny Bernstein](#)
2. [Peter Winckles](#)
3. [Jared Whiklo](#)
4. [Bethany Seeger](#)
5. [Thomas Bernhart](#)
6. [Aaron Birkland](#) ★
7. [Andrew Woods](#)
8. [Ben Pennell](#)
9. [Ben Cail](#)
10. [David Wilcox](#)
11. [Peter Eichman](#)
12. [Joseph Rhoads](#)
13. [Daniel Lamb](#)

## Agenda

1. Announcements
  - a. [Sprint 2](#)
  - b. Results of [documentation review](#)
2. Fedora and OCFL
  - a. OCFL Editorial updates:
    - i. Tuesday's meeting notes: <https://github.com/OCFL/spec/wiki/2019.10.29-Editors-Meeting>
    - ii. Draft pull-request detailing "extensions": <https://github.com/OCFL/spec/pull/404>
  - b. "Mutable HEAD Extension" draft specification
3. [Updates to the Persistence API](#)
  - a. [Proposed implementation approaches](#)
4. [Draft functional requirements](#) for repositories based on [NDSA Levels of Preservation 2.0](#)

## Tickets

1. In Review

T	Key	Summary	Assignee	Reporter	P	Status	Resolution	Created	Updated	Due
🔴	<a href="#">FCREP O-3698</a>	Java client improperly encodes filename field	Ben Pennell	Ben Pennell	☰	IN REVIEW	Fixed	Apr 15, 2021	Apr 15, 2021	
🟢	<a href="#">FCREP O-3695</a>	Single-request transactions should not use db transaction tables	Unassigned	Peter Winckles	☰	IN REVIEW	Ready for Test	Apr 12, 2021	Apr 29, 2021	
🟢	<a href="#">FCREP O-3692</a>	Add metrics to migration-utils	Michael Ritter	Danny Bernstein	☰	IN REVIEW	Fixed	Apr 08, 2021	Apr 29, 2021	

	FCREP O-3691	Improve performance of search queries that return rdf types	Danny Bernstein	Danny Bernstein		<span>IN REVIEW</span>	Fixed	Apr 08, 2021	Apr 29, 2021
	FCREP O-3690	Add a configuration option for setting the S3 endpoint	Peter Winckles	Peter Winckles		<span>IN REVIEW</span>	Ready for Test	Apr 05, 2021	Apr 29, 2021
	FCREP O-3686	fcrepo-migration-validator: validate state in datastream	Michael Ritter	Danny Bernstein		<span>IN REVIEW</span>	Fixed	Mar 29, 2021	Apr 26, 2021
	FCREP O-3664	fcrepo-migration-validator: Add Datastream version validation for size	Michael Ritter	Danny Bernstein		<span>IN REVIEW</span>	Fixed	Mar 07, 2021	Mar 22, 2021
	FCREP O-3612	Test performance of DB rebuild optimization	Danny Bernstein	Danny Bernstein		<span>IN REVIEW</span>	Fixed	Jan 27, 2021	Feb 23, 2021
	FCREP O-3593	API Test Suite: 4.1.2-B	Danny Bernstein	Andrew Woods		<span>IN REVIEW</span>	Fixed	Jan 11, 2021	Mar 11, 2021
	FCREP O-3561	Add commit() and rollback() support to DbSearchIndex Impl	Danny Bernstein	Danny Bernstein		<span>IN REVIEW</span>	Fixed	Dec 04, 2020	Apr 29, 2021
	FCREP O-3260	Document OCFL limitations related to paths and OS limitations	Peter Winckles	Andrew Woods		<span>IN REVIEW</span>	Ready for Test	Mar 26, 2020	Mar 03, 2021
	FCREP O-2740	Float value not updated when current value rounds to the new one	Yinlin Chen	Kevin Ford		<span>IN REVIEW</span>	Fixed	Mar 27, 2018	May 30, 2018

12 issues

## 2. Please squash a bug!

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
FCREP O-3697	Multi-request transactions can be put in a bad state		Apr 14, 2021	Apr 29, 2021		Unassigned	Peter Winckles		<span>OPEN</span>	Unresolved
FCREP O-3678	Fedora 5 and SSL configuration not working		Mar 19, 2021	Mar 19, 2021		Unassigned	Jaime Penagos		<span>OPEN</span>	Unresolved
FCREP O-3655	application/link-format returns multiple entries for the same second		Feb 25, 2021	Mar 03, 2021		Unassigned	Jared Whiklo		<span>OPEN</span>	Unresolved

FCREP O-3635	Fedora 6 does not start on Jetty 11 or Tomcat 10		Feb 16, 2021	Feb 19, 2021	Unassigned	Peter Winckles		<input type="button" value="OPEN"/>	Unresolved
FCREP O-3620	Fedora 5 -> 6 upgrade fails if a Fedora 5 export has retrieved the external binaries		Jan 29, 2021	Apr 29, 2021	Unassigned	Jared Whiklo		<input type="button" value="OPEN"/>	Unresolved
FCREP O-3589	Membership /containment not returned as inbound references		Jan 06, 2021	Jan 27, 2021	Unassigned	Ben Pennell		<input type="button" value="OPEN"/>	Unresolved
FCREP O-3585	Rollback with auto-versioning disabled can leave Fedora in an inconsistent state		Dec 09, 2020	Feb 03, 2021	Unassigned	Peter Winckles		<input type="button" value="OPEN"/>	Unresolved
FCREP O-3584	Resource locking does not take into account ghost nodes		Dec 09, 2020	Feb 03, 2021	Unassigned	Peter Winckles		<input type="button" value="OPEN"/>	Unresolved
FCREP O-3538	Wildcard searches and ids containing *		Nov 19, 2020	Nov 19, 2020	Unassigned	Peter Winckles		<input type="button" value="OPEN"/>	Unresolved
FCREP O-3521	Ensure all RDF formats supported in fcrepo-import-export also available in fcrep-upgrade-utils		Nov 06, 2020	Nov 30, 2020	Unassigned	Danny Bernstein		<input type="button" value="OPEN"/>	Unresolved
FCREP O-3506	OOM on GET of root with many child containers		Oct 29, 2020	Nov 16, 2020	Unassigned	Andrew Woods		<input type="button" value="OPEN"/>	Unresolved
FCREP O-3423	ACLs not displayed properly		Sep 12, 2020	Nov 18, 2020	Unassigned	Peter Winckles		<input type="button" value="OPEN"/>	Unresolved
FCREP O-3286	Exception on malformed Link header		Apr 25, 2020	Nov 18, 2020	Unassigned	Andrew Woods		<input type="button" value="OPEN"/>	Unresolved
FCREP O-3252	Disallow creating mementos within the same second		Mar 17, 2020	Nov 18, 2020	Unassigned	Peter Winckles		<input type="button" value="OPEN"/>	Unresolved
FCREP O-2263	Reserved Characters in fragments are encoded by UriBuilder		Oct 09, 2016	Nov 27, 2020	Unassigned	Christopher Johnson		<input type="button" value="OPEN"/>	Unresolved

15 issues

### 3. Tickets resolved this week:

Key Summary T Created Updated Due Assignee Reporter P Status Resolution

No issues found

#### 4. Tickets created this week:

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
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No issues found

## Notes

### Documentation Review

- Small number of folks met Oct 28th for doing a one-day documentation review.
  - Not a technical review, focused on community perspectives
  - Marked docs that could be improved
  - Good notes/suggestions on ways things can be improved. Mostly around better organization, de-duplication, defining things better. These notes can drive documentation updates
  - There may be a couple people who are interested in documentation during the sprint, but there may be enough suggestions to support a documentation sprint later on this year or next year.
  - Most of the suggested improvements are not technical, so it is not necessary for doc writers to be committers, developers, etc
  - awoods: Each release has their own wiki space, but we have a 5.x "head". It looks like the 5.x "head" is what was reviewed. Presumably, it'll be re-named to 6.0. A bulk of the review is likely based on 4.x/5.x understanding. New content and/or updates would need to be added for fcrepo6
    - dwilcox: Hopefully, the front-facing parts of fcrepo6 won't change that much from 4/5, but new docs will be needed.
  - Fcrepo6 documentation was out of scope for this review. That could be its own sprint, not sure if it should be its own separate effort, or part of a fcrepo6 sprint. Difficult to do anything for fcrepo6 yet, since it doesn't exist. It'd be difficult to write docs for it at this point.
  - Desire for a regular rhythm for doc updates.
  - As an aside: Islandora stores its documentation in Markdown. Might be something we want to consider for Fedora.
    - On the pro side: It makes it easier to couple code changes with documentation changes in a PR
    - On the con side: people have to know markdown and git to contribute documentation
    - ISLE also does this.
    - it'll be interesting to watch how other projects evolve

### Fedora and OCFL:

- There will be support in the spec for extensions (generally speaking) at the ocfl-object level
  - Proposal right now is that there'd be a directory (maybe called "extensions") whereby OCFL extensions can define a subdirectory to put stuff in, functioning as a sort of namespace. All content under the "extensions" subdir must be in a subdirectory defined by some extension.
  - Mutable head was brought up at the leaders meeting, holding a vote right now (through tomorrow, Nov 1) for approval.
  - Folks seem to be aligning around the mutable head direction
    - PW doesn't think it'll be that challenging to implement. Not very far into it yet.
  - Peter Winckles started a draft proposal for a mutable head extensions
    - Seems fairly robust, helped mitigate risk
    - A fair number of changes were made 10/30, now would be a great time to re-read it.

### Updates, Persistence API:

- Key thing to be aligned on going into the sprint
- Ben updated [the doc](#) with some code examples
- TODO: Ben will make another version of pseudocode based off discussion. If we sign off on that, then it makes sense to progress to a PR

### Functional requirements

- David created a doc of functionalities handled at the repository level from a broader "levels of preservation" discussion. If folks have time to take a look at it, please do so. It is very high-level.
  - Some items Fedora is capable of handling already, some may be handled by external services
  - Would like agreement of functional requirements, and determine which ones are already planned for fcrepo6 vs not.
- Action item: Flag things as in-scope or out of scope for Fedora. For out of scope, how would we envision Fedora integrated with an external system to accomplish (e.g. virus checking, quarantine), or do we make a claim that an area of activity is out of scope?

## Actions

- [Aaron Birkland](#) to look explore notion of OCFL client with database as authoritative metadata source + asynchronous writing of the inventory.json file



- David Wilcox will review the NDSA matrix and pull out the concrete technical requirements that could be considered during the Fedora 6 development.
- Call for comments on <https://docs.google.com/document/d/18rSFqqoximozZrgPKON59Ojpg5iOu4IsHDNMm23soY/edit#> till tuesday
- Clarify in in documentation that multiple simultaneous writes to OCFL are not supported