

2018-01-11 - 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

Attendees

- [Peter Eichman](#)
- [Aaron Birkland](#)
- [Esmé Cowles](#)
- [Andrew Woods](#)
- [David Wilcox](#)
- [Bethany Seeger](#)
- [Ben Pennell](#) ★
- [Daniel Lamb](#)
- [Jared Whiklo](#)

Agenda

1. 4.7.5 release - Planning for week of January, 15th 2018
2. Fedora 5.0.0
 - a. Release date target
 - b. PairTrees / AppleTrees
3. Tickets requiring attention

- a.  **FCREPO-2520** - Improve mimetype validation CLOSED - [Bethany Seeger](#)
 - i. Any more discussion needed here? If a mimetype goes in, it should come out at the very least.
 - ii. [Bethany Seeger](#) suggested an alternative implementation: <https://github.com/fcrepo4/fcrepo4/pull/1272#issuecomment-353173508> that would move the check closer to the HTTP layer
 - iii. [Ralf Claussnitzer](#): Sounds reasonable. HTTP servers should respond with BAD REQUEST if given an unparseable mime type string. Should the repository layer check again?

b. T	Key	Summary	Assignee	Reporter	P	Status	Resolution	Created	Updated	Di
	FCREP O-3132	Migration-utills: Usability improvements	Andrew Woods	Ben Cail		IN REVIEW	Ready for Test	Nov 19, 2019	Nov 19, 2019	
	FCREP O-3103	Replace a binary resource (HTTP->PersistentStorageSession)	Mohamed Mohideen Abdul Rasheed	Danny Bernstein		IN REVIEW	Fixed	Nov 04, 2019	Nov 12, 2019	
	FCREP O-3066	Design simple search functionality	Danny Bernstein	Danny Bernstein		IN REVIEW	Fixed	Sep 23, 2019	Nov 01, 2019	
	FCREP O-3060	Implement replace properties on an RDFSource	Bethany Seeger	Danny Bernstein		IN REVIEW	Fixed	Sep 23, 2019	Nov 15, 2019	

	FCREP O-3025	Fix javadoc warnings in fcrepo-http-api	Jenny A'Brook	Danny Bernstein		IN REVIEW	Fixed	Jul 29, 2019	Aug 05, 2019
	FCREP O-3020	Fix Direct and Indirect Container Import	Danny Bernstein	Danny Bernstein		IN REVIEW	Fixed	Jul 08, 2019	Jul 12, 2019
	FCREP O-3017	Align External Content Handling in import export tool for 5.x roundtripping.	Danny Bernstein	Danny Bernstein		IN REVIEW	Fixed	Jun 27, 2019	Jul 12, 2019
	FCREP O-3013	Content-Disposition header not mentioned in PUT docs	Jared Whiklo	Daniel Lamb		IN REVIEW	Ready for Test	Jun 10, 2019	Jun 10, 2019
	FCREP O-2740	Float value not updated when current value rounds to the new one	Yinlin Chen	Kevin Ford		IN REVIEW	Fixed	Mar 27, 2018	May 30, 2018

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4. ...

Ticket Summaries

1. Please squash a bug!

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
FCREP O-3114	Unauthorized users can delete child resources		Nov 07, 2019	Nov 07, 2019		Unassigned	Danny Bernstein		RECEIVED	Unresolved
FCREP O-3070	Creating external binary with bad URI and digest blows up		Sep 24, 2019	Sep 24, 2019		Unassigned	Ben Pennell		OPEN	Unresolved
FCREP O-3037	Prefer header 'omit' containing 'PreferMinima Container' 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
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

Showing 20 out of 53 issues

2. Tickets resolved this week:

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
FCREP O-3133	Migration-utils: Move instead of Copy content to OCFL		Nov 19, 2019	Nov 19, 2019		Andrew Woods	Andrew Woods		CLOSED	Fixed
FCREP O-3132	Migration-utils: Usability improvements		Nov 19, 2019	Nov 19, 2019		Andrew Woods	Ben Cail		IN REVIEW	Ready for Test
FCREP O-3131	Enable configuration of default commit policy		Nov 14, 2019	Nov 19, 2019		Danny Bernstein	Danny Bernstein		CLOSED	Fixed
FCREP O-3128	Complete Transaction Impl implementation		Nov 13, 2019	Nov 18, 2019		Mohamed Mohideen Abdul Rasheed	Mohamed Mohideen Abdul Rasheed		CLOSED	Fixed
FCREP O-3125	Migration-utils: Add digest and size info to generated OCFL		Nov 13, 2019	Nov 14, 2019		Andrew Woods	Andrew Woods		CLOSED	Fixed
FCREP O-3124	Implement OCFLPersistentStorageSession.rollback()		Nov 13, 2019	Nov 19, 2019		Danny Bernstein	Danny Bernstein		CLOSED	Fixed
FCREP O-3119	Implement OCFLPersistentStorageSession.getTriples() and OCFLPersistentStorageSession.getManagedProperties()		Nov 11, 2019	Nov 19, 2019		Danny Bernstein	Danny Bernstein		CLOSED	Fixed
FCREP O-3118	Migration-utils: Set RDF format as n-triples		Nov 11, 2019	Nov 13, 2019		Andrew Woods	Andrew Woods		CLOSED	Fixed
FCREP O-3112	Migration-utils: Migrate from a list of PIDs		Nov 07, 2019	Nov 13, 2019		Andrew Woods	Andrew Woods		CLOSED	Fixed

FCREP O-3111	Migration-utils: Enable resume /restart of migration		Nov 07, 2019	Nov 13, 2019	Andrew Woods	Andrew Woods		CLOSED	Fixed
FCREP O-3110	Migration-utils: Expose option for storage layout		Nov 07, 2019	Nov 14, 2019	Andrew Woods	Andrew Woods		CLOSED	Fixed
FCREP O-3107	Migration-utils: Add CLI library		Nov 06, 2019	Nov 18, 2019	Remigiusz Malessa	Andrew Woods		CLOSED	Fixed
FCREP O-3100	Implement OCFLPersistenceSession.persist (DeleteResourceOperation)		Nov 01, 2019	Nov 15, 2019	Jared Whiklo	Danny Bernstein		CLOSED	Ready for Test
FCREP O-3098	Implement OCFLPersistenceSession.persist (UpdateRDFSourceOperation)		Nov 01, 2019	Nov 14, 2019	Jared Whiklo	Danny Bernstein		CLOSED	Ready for Test
FCREP O-3097	Implement OCFLPersistenceSession.persist (UpdateNonRDFSourceOperation)		Nov 01, 2019	Nov 18, 2019	Jared Whiklo	Danny Bernstein		CLOSED	Fixed
FCREP O-3096	Implement OCFLPersistenceSession.persist (CreateNonRDFSourceOperation)		Nov 01, 2019	Nov 18, 2019	Jared Whiklo	Danny Bernstein		CLOSED	Fixed
FCREP O-3075	Implement @POST in FedoraLdp resource layer.		Sep 25, 2019	Nov 15, 2019	Jared Whiklo	Danny Bernstein		CLOSED	Duplicate
FCREP O-3074	Update Transactions endpoint to use FedoraTransactionManager		Sep 25, 2019	Nov 14, 2019	Mohamed Mohideen Abdul Rasheed	Mohamed Mohideen Abdul Rasheed		CLOSED	Fixed
FCREP O-3067	Utility for persisting a FedoraResource to a file system		Sep 24, 2019	Nov 15, 2019	Ben Pennell	Ben Pennell		CLOSED	Won't Do
FCREP O-3060	Implement replace properties on an RDFSource		Sep 23, 2019	Nov 15, 2019	Bethany Seeger	Danny Bernstein		IN REVIEW	Fixed

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3. Tickets created this week:

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
FCREP O-3134	Service for creating /updating WebACs		Nov 19, 2019	Nov 19, 2019		Unassigned	Ben Pennell		RECEIVED	Unresolved

FCREP O-3133	Migration-utills: Move instead of Copy content to OCFL		Nov 19, 2019	Nov 19, 2019	Andrew Woods	Andrew Woods		CLOSED	Fixed
FCREP O-3132	Migration-utills: Usability improvements		Nov 19, 2019	Nov 19, 2019	Andrew Woods	Ben Cail		IN REVIEW	Ready for Test
FCREP O-3131	Enable configuration of default commit policy		Nov 14, 2019	Nov 19, 2019	Danny Bernstein	Danny Bernstein		CLOSED	Fixed
FCREP O-3130	Complete implementation of OCFLPersistentStorageSession.rollback()		Nov 14, 2019	Nov 19, 2019	Unassigned	Danny Bernstein		OPEN	Unresolved
FCREP O-3129	Implement OCFLPersistentStorageSession.getHeaders() for Containers		Nov 13, 2019	Nov 14, 2019	Ben Pennell	Ben Pennell		IN PROGRESS	Unresolved
FCREP O-3128	Complete Transactional implementation		Nov 13, 2019	Nov 18, 2019	Mohamed Mohideen Abdul Rasheed	Mohamed Mohideen Abdul Rasheed		CLOSED	Fixed
FCREP O-3127	Migration-utills: Introduce multi-threaded processing		Nov 13, 2019	Nov 13, 2019	Unassigned	Andrew Woods		OPEN	Unresolved
FCREP O-3126	Implement OCFLPersistentStorageSession.getTriples() with Version		Nov 13, 2019	Nov 15, 2019	Danny Bernstein	Danny Bernstein		IN PROGRESS	Unresolved
FCREP O-3125	Migration-utills: Add digest and size info to generated OCFL		Nov 13, 2019	Nov 14, 2019	Andrew Woods	Andrew Woods		CLOSED	Fixed
FCREP O-3124	Implement OCFLPersistentStorageSession.rollback()		Nov 13, 2019	Nov 19, 2019	Danny Bernstein	Danny Bernstein		CLOSED	Fixed

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Minutes

1. 4.7.5 release

- Branches have been pulled together, entering release candidate review period, targeting February 5 for release
- Release candidate is out, ready for release testing, looking for signups
- Reaching out for someone to do windows testing
- This should be a backwards compatible release, so it would be helpful if someone could drop the new war file on top of existing data.

2. 5.0 release

- Primarily focused on API alignment
- Conversations within committer group to work out what exactly is in scope for this release.

Release date

- Keeping in mind the calendar that the API specification itself is working around
- Back and forth in terms of implementations of spec and writing of spec.
- Want to have two implementations of the specification as part of releasing it. One is the modeshape 5.0 implementation.
- Intent is to finalize API by April, which would imply that there are implementations at that time.

What are we lacking?

- Memento
 - Jared - would like more people to look at this.
 - DannyB will be helping review this and get it over the hump
- Webac is fairly close.
- Page with all the test results from comparison: <https://wiki.duraspace.org/display/FEDORAAPI/Fedora+API+Spec+and+Delta+Document+Verification>
- Compatibility test suite - which is intended to be completed around April. Roughly a bit over halfway done, but needs to be verified.
- CRUD operations are pretty close, just a few things remaining

Looking for point people to verify alignment

- Memento - Jared and DannyB
- CRUD - Jared
- Webac - AaronB and Peter. There are testing scripts, including Authz tests.
- Fixity - Bethany
- Messaging - AaronB

Sprints?

Approach was to see how far we got before the holidays. Not a lot got done in the meantime.

Andrew: at a minimum, set up at least one sprint to finalize things

Would another earlier sprint be useful?

Jared: just pick a time, can probably get time allocated. It is an effective way to clean up small chunks of work, get testing done

Peter suggesting a february/march sprint is a possibility

Most people would prefer a sprint versus doing adhoc work

Aaron: With a date for a sprint he can at least ask.

Andrew: inclination is to do two sprints:

- First sprint: Finalize alignment of various components
- Second sprint: tie up loose ends prior to release

b. PairTrees / AppleTrees

Andrew: our current approach is not buying us anything in terms of performance (post creates interim nodes). The logic in fedora basically traverses over pair trees to find the children, so that eliminates benefits. Since the pair tree elements are there, you could write logic that doesn't automatically traverse

Peter: ended up going with requesting N-triples to get all the objects for a container, since the time-to-first byte was sufficient here to not cause timeouts. Didn't feel comfortable relying on pair trees as a retrieval/paging feature

Andrew: original intent was a partitioning mechanism, so that when making a request you wouldn't get more than 256 children to keep responses

quick. Very quickly got feedback from people in the user interface that it was virtually impossible to find specific children when needing to drill down.

Esme: adding a Prefer header to manipulate that behavior would be nice. Effectively, header to turn off retrieving pair tree children

Andrew: haven't tried that yet, but is only a small piece of code to remove the pair tree children. What is the ideal behavior for 5.0?

Esme: going to make a wiki page to outline the three options:

- Keep configuration how it is
- Use Apple Trees instead
- Simplify config so it doesn't create pair trees, but smooths the path to creating pair or apple trees by the client

Bethany: Aaron C. mentioned blank nodes don't work well with Apple Trees, would want to check to make sure this is compatible

Andrew: Copy and move operations will not work with Apple Trees. Messages as they are currently emitted would not suppress the pair tree structure

Bethany: When 5.0 is put out there are ripple effects for the camel-toolbox since the messaging will have changed.

Aaron B: Does the apple/pair tree question have relevance to the import/export machinery that people might use to go from 4 to 5?

It sounds like we have one scenario where if we don't have pair trees in fcrepo5, would the intermediate nodes be 404s?

Is there a scenario where pair tree uris might be illegal in fcrepo5?

Esme: Thinks they would migrate over, but creating new uris might be different. Definitely are questions about how behavior would need to be different in fcrepo5 when migrating from 4.

Aaron: Along those lines, what about someone migrating from fcrepo4 to a different fedora impl?

Andrew: import/export tool should help with that sort of migration. Decision of 5.0 should be independent.

Aaron: impls without concepts of pair trees could be an issue.

Esme: will put together that [wiki page to contain the discussion](#)

3. Tickets requiring attention:

b. Tickets in review

- 2656 - local-file uris. Needs some more review and the conversation on the mailing list is part of it
- 2636 - Can disable versioning of children through a modeshape. Andrews inclination is to close the ticket as no-fix.
- 2604 - Audit of messages being emitted, no need for a PR. Keeping it around for when doing the audit of messaging implementation. Leave in review and close when messaging is where we want it to be.
- 2591 - Changing interaction models for containers. Andrew is suggesting that current behavior stay the same, aka if you don't specify a model then you get a basic container. Cannot change the model after creation. Reopen ticket and assign it to API spec.
- 2544 - Been back and forth about time to first byte, Maryland has had the same issue. Can it be closed based on decisions Peter has made? Peter will take a look.
- 2520 - Reopen and assign to Bethany. Move check up to the http layer. Where did we get agreement from Ralph from? Going to circle back with him.
- 2459 - import of verisons. put on hold for more discussion
- 1786 - inclined to reopen and put in API alignment epic