

2016-03-31 - 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

- [A. Soroka](#)
- [Jared Whiklo](#)
- [Kevin S. Clarke](#)
- [Bethany Seeger](#)
- [Yinlin Chen](#)
- [Doron Shalvi](#) ★
- [Andrew Woods](#)
- [David Wilcox](#)
- [Aaron Coburn](#)
- [Esmé Cowles](#)

Agenda

1. 4.5.1 Release is in-progress
 - a. [Test Plan](#) <- opportunity for participation
2. What is new from the last 3 weeks!??
3. LDCX report-out
 - a. [Distributed architectures for IRs](#)
 - b. [Harmonizing Hydra and F4 AuthZ](#)
 - c. [LDP Batch](#)
 - d. [PCDM modeling - EDM/DPLA/IIIF/PCDM-Works](#)
 - e. [F4 API specification](#)
 - f. [F4 API-X](#)
4. Fedora Specification
 - a. [Messaging SPI](#) <- close to done, need to tighten RDF serializations
 - b. [Atomic Batch Operations](#)
 - c. [CRUD](#) <- needs to include elements of [RESTful HTTP API](#)
 - d. [Resource Versioning](#) <- not currently aligned with reference F4 impl, since that is just a copy/exposure of JCR which cannot be imported into specs
 - e. [Binary Fixity Checking](#) <- needs help
 - f. [Authorization](#) <- needs help
5. ...
6. Status of "in-flight" tickets
 - ▼ [Click here to expand...](#)

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status
FCREPO-2653	TimeMap RDF has incorrect subject		Nov 02, 2017	Nov 21, 2017		Jared Whiklo	Jared Whiklo		REOPENED
FCREPO-2651	Use "sha" as name of SHA-1 digests, not "sha1"		Nov 01, 2017	Nov 02, 2017		Jared Whiklo	Esmé Cowles		IN REVIEW
FCREPO-2636	Support versioning with no versioned child		Oct 02, 2017	Oct 02, 2017		Longshou Situ	Longshou Situ		IN REVIEW
FCREPO-2632	Use 'acl:agentClass		Sep 28,	Nov 16,		Daniel Lamb	Daniel Lamb		

	foaf:Agent' to denote public access		2017	2017			IN PROGRESS
FCREPO-2617	POST request to LDPCv to create LDPRm		Sep 22, 2017	Oct 29, 2017	Danny Bernstein	Ben Pennell	IN PROGRESS
FCREPO-2604	Assure that messages are emitted when required by the spec		Sep 12, 2017	Oct 03, 2017	Longshou Situ	Aaron Birkland	IN REVIEW
FCREPO-2591	Must allow interaction model to change to subtype of current model, but disallow changing to non-subtype		Sep 11, 2017	Oct 25, 2017	Esmé Cowles	Esmé Cowles	IN REVIEW
FCREPO-2582	API Alignment		Sep 11, 2017	Oct 09, 2017	Unassigned	Aaron Birkland	IN PROGRESS
FCREPO-2544	Time to first byte of response is too long for containers with many contained resources		Aug 01, 2017	Oct 23, 2017	Danny Bernstein	Chris Colvard	IN REVIEW
FCREPO-2522	Handle missing local files more cleanly		Jun 13, 2017	Aug 14, 2017	Danny Bernstein	Danny Bernstein	IN PROGRESS
FCREPO-2492	verification tool should filter triples that reference binaries when verifying RDF-only exports		May 25, 2017	Aug 14, 2017	Joshua Westgard	Joshua Westgard	IN REVIEW
FCREPO-2486	Verification tool failed to verify resource with binary excluded		May 24, 2017	Aug 14, 2017	Joshua Westgard	Longshou Situ	IN REVIEW
FCREPO-2459	Implement import of versions into fcrepo 4.x		May 18, 2017	Aug 14, 2017	Ben Pennell	Ben Pennell	IN REVIEW
FCREPO-2413	Adopters Guide: Versioning		Mar 08, 2017	Aug 14, 2017	Danny Bernstein	Andrew Woods	IN PROGRESS
FCREPO-2299	Import - Export Videos		Nov 14, 2016	Aug 14, 2017	Youn Noh	Andrew Woods	REOPENED
FCREPO-2274	Integration tests that test concurrency could theoretically pass even when concurrency issues persist.		Oct 14, 2016	Aug 14, 2017	Unassigned	Michael Durbin	REOPENED
FCREPO-2112	Refactor reference property value retrieval to use indexed MODE queries		Aug 08, 2016	Aug 14, 2017	Unassigned	Benjamin Armintor	IN PROGRESS
FCREPO-2056	Update W3C LDP wiki impl pages		Jun 16, 2016	Aug 14, 2017	Andrew Woods	A. Soroka	IN PROGRESS
FCREPO-1976	ldp:contains can be asserted via hasMemberRelation		Apr 04, 2016	Aug 14, 2017	Unassigned	Rob Sanderson	IN PROGRESS
FCREPO-1857	Replace message-consumer docs		Dec 13, 2015	Aug 14, 2017	Andrew Woods	Andrew Woods	IN PROGRESS
FCREPO-1799	IllegalArgumentException when trying to INSERT		Oct 27, 2015	Aug 14, 2017	Nianli Ma	Andrew Woods	REOPENED
FCREPO-1788	fcr:backup error response		Oct 23, 2015	Aug 14, 2017	Unassigned	Andrew Woods	REOPENED
FCREPO-1786	Fixity for "external" content always reports success.		Oct 21, 2015	Aug 14, 2017	James R. Griffin III	Michael Durbin	IN REVIEW
FCREPO-1777	Provide Quality Assurance for fcrepo4-vagrant		Oct 17, 2015	Aug 14, 2017	James R. Griffin III	James R. Griffin III	IN PROGRESS

FCREPO-1774	API to return Fedora version number	Oct 15, 2015	Aug 14, 2017	Unassigned	Jim Coble	REOPENED
FCREPO-1694	Ensure that no non-deployable module compile-depends on fcrepo-kernel-modeshape	Aug 11, 2015	Aug 14, 2017	Unassigned	A. Soroka	REOPENED
FCREPO-1555	Attempting to PUT outdated RDF returns incorrect HTTP status code	May 22, 2015	Aug 14, 2017	Jon Roby	Alex Dolski	REOPENED

27 issues

Ticket Summaries

1. Please squash a bug!

▼ [Click here to expand...](#)

Key	Summary	T	Created	Updated	Due	Assignee	Repo
FCREPO-2650	MD5s not being stored in transaction		Oct 24, 2017	Nov 16, 2017		Bethany Seeger	Ben P
FCREPO-2648	Tomcat stuck threads during object ingest into Fedora with fcrepo-audit module enabled		Oct 19, 2017	Nov 10, 2017		Unassigned	Peter
FCREPO-2635	binaries accepted by fcrepo did not arrive at final Modeshape storage location		Sep 29, 2017	Sep 29, 2017		Unassigned	Joshu Westg
FCREPO-2607	Incorrect ldp:contains reference on versioned resources		Sep 14, 2017	Sep 14, 2017		Unassigned	Ben P
FCREPO-2574	Mixed form content in UI when used with SSL		Aug 31, 2017	Aug 31, 2017		Unassigned	Aaron
FCREPO-2573	Namespaces not created correctly via PUT and POST		Aug 28, 2017	Aug 29, 2017		Unassigned	Betha Seege
FCREPO-2542	Versioning the root node causes exception		Jul 27, 2017	Jul 27, 2017		Unassigned	Danny Berns
FCREPO-2540	Possible memory leak in org.fcrepo.event.serializer.JsonLDSerializer		Jul 21, 2017	Jul 25, 2017		Unassigned	Peter
FCREPO-2520	Improve mimetype validation		Jun 09, 2017	Nov 21, 2017		Unassigned	Bill Br
FCREPO-2516	Trouble accessing nc and csv files		Jun 06, 2017	Aug 31, 2017		Unassigned	Jose E
FCREPO-2479	Generated relationships from indirect containers not returned when retrieving versions		May 24, 2017	May 24, 2017		Unassigned	Ben P
FCREPO-2437	migration-utils fails when migrating fedora 3 system objects		May 10, 2017	May 17, 2017		Michael Durbin	Micha
FCREPO-2435	Backups created while updates occur cannot be restored.		May 03, 2017	May 03, 2017		Unassigned	Micha
FCREPO-2433	Error when using fixity check on a version of binary object		May 02, 2017	May 03, 2017		Unassigned	Daniel
FCREPO-2400	Fixity result ambiguous when digest algorithm and checksum don't match		Feb 12, 2017	Feb 15, 2017		Ralf Claussnitzer	Ralf Claus
FCREPO-2398	Audit machinery causes the emission of events with info: URIs.		Feb 08, 2017	Jun 23, 2017		Danny Bernstein	A. Sor
FCREPO-2396	PUT to fcr:metadata fails to add/replace non-server-managed triples		Feb 07, 2017	Feb 16, 2017		Unassigned	Kevin
FCREPO-2364	URI using localhost not overwritten with Tomcat servername		Dec 15, 2016	Dec 15, 2016		Unassigned	Kevin

FCREPO-2321	fcrepo-ldpath camel tool returns HTTP 500 error	Dec 01, 2016	Feb 14, 2017	Jared Whiklo	Betha Seege
FCREPO-2311	Ldp::HttpError: STATUS: 500 org.modeshape.jcr.value.binary.BinaryStoreException: java.net.SocketTimeoutException: Read timed out	Nov 16, 2016	May 23, 2017	Unassigned	Anna
FCREPO-2263	Reserved Characters in fragments are encoded by UriBuilder	Oct 09, 2016	Feb 14, 2017	Unassigned	Christ Johns
FCREPO-2171	HTML interface issues in Safari	Sep 02, 2016	Feb 23, 2017	Unassigned	David
FCREPO-2122	LDP If-Match guidance is incompatible with the HTTP spec	Aug 18, 2016	Aug 18, 2016	Unassigned	Esmé
FCREPO-2118	Ambiguous fcr:versions element in version containers	Aug 11, 2016	Aug 22, 2016	Jack Hill	Harsh Umme
FCREPO-2117	Older versions are having pointers to newer versions	Aug 11, 2016	Feb 14, 2017	Aaron Birkland	Harsh Umme
FCREPO-2104	Fedora breaks when committing extra large transactions	Aug 04, 2016	Nov 06, 2017	Unassigned	Lukáš
FCREPO-2103	Fixity service sometimes returns BAD_CHECKSUM on first attempt only	Aug 03, 2016	Feb 13, 2017	Unassigned	David Chanc
FCREPO-2092	ldp:isMemberOfRelation does not find reference property	Jul 25, 2016	Feb 14, 2017	Andrew Woods	Andre Wood
FCREPO-2011	SQL error on first GET of a resource after idling	Apr 27, 2016	Sep 12, 2016	Unassigned	David Chanc
FCREPO-2002	Investigate Memory Consumption over Time	Apr 20, 2016	Nov 21, 2017	Unassigned	Andre Wood
FCREPO-1987	Cannot create HASH URIs on Binary descriptions	Apr 12, 2016	Aug 18, 2017	Danny Bernstein	Aaron
FCREPO-1889	Direct/Indirect Containers allow writing arbitrary triples to any resource, despite access controls	Feb 04, 2016	Apr 06, 2017	Unassigned	Rob Sande
FCREPO-1854	exception when trying to delete containers with a large number of children	Dec 06, 2015	Jun 30, 2016	Unassigned	Stefar
FCREPO-1818	Multiple OAI sets not working	Nov 04, 2015	Mar 11, 2016	Piyapong Charoenwattana	Andre Wood
FCREPO-1547	Migrating fedora 3 content that has references to other objects with certain patterns fail.	May 19, 2015	Apr 30, 2016	Michael Durbin	Micha

35 issues

2. Tickets resolved this week:

[Click here to expand...](#)

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

3. Tickets created this week:

[Click here to expand...](#)

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

Minutes

Release 4.5.1

1. A Fedora 4.5.1 release is in process. A release candidate will be released tomorrow.
2. Three weeks will be allotted for testing, after which the final version of 4.5.1 will be released.
3. New features in development now should be put in the Dev branch.
4. Support for building on Windows needed? Yes, a couple of people in the community will test a Windows build.

Pregnant pause while Andrew reconnects.

Release Testing

1. Review of 4.5.1 Test Plan at <https://wiki.duraspace.org/display/FF/Release+Testing+-+4.5.1>
2. There are 11 manual tests listed. An additional content negotiation test could be useful. This test could retrieve content in various RDF formats. Can we automate these tests?

Test Automation

1. Perhaps a brief shell script could maintain these tests in a cross-platform maintainable way.
2. Recommend a shell script for each manual test.
3. Can someone write up a shell script that uses curl in order to do these manual tasks? Jared doing some test scripting now, Esme and others may assist.
4. Beth: test scripts should be human readable so that humans can execute these tests on their own. Adam: We still need a Test Compatibility Toolkit (TCK) to automate this no matter what. Still useful to have test cases target for humans to execute.
5. Need JIRA tickets for test automation and to create a human readable guide for manual testing by non-developers. (new JIRA Ticket:

FCREPO-1969 - Create way to manually/automatically test Fedora Release Candidates

CLOSED

6. Also need to run vagrant tests and consistency checks between Fedora, Solr and the triplestore.
7. Test Camel messaging? Should test at least one camel message type.

Recent progress over the last three weeks

No comments

LDCX report-out

1. Good presentations and discussions
2. See links above in Agenda, items 3a-3f for detailed minutes for these sessions.
3. 3a - Distributed repositories - shows value of Camel, messaging.
4. 3b - Harmonizing Hydra and F4 AuthZ - encouraging.
5. 3c - LDP Batch - may want to implement as extension module, until HTTP/2 is more widely adopted.
6. HTTP/2 may be ready to be more widely adopted in 6-12 months.
7. 3d - Cross repository modeling - encouraging.

Fedora Query interface

1. Some people in the community, noted at LDCX and elsewhere, seem to want a query interface to Fedora. Others are not in favor of this idea as other components such as Solr are better suited to handle this.
2. May be difficult to implement a query interface as the back-end stores underneath Fedora differ. Would not want to just re-use the Modeshape search API.
3. Perhaps a general query interface based on messaging would work.
4. Need to better identify whether the use cases for Fedora search are synchronous or asynchronous.
5. Overall Message - how can we make it easier for people to implement an async query capability? Need to simplify this.
6. Perhaps API-X would be a suitable location to host this functionality.