

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-2738	Remove obsolete FedoraVersions.java		Mar 16, 2018	Mar 16, 2018		Unassigned	Andrew Woods		IN REVIEW
FCREPO-2728	Creating a Memento in the same second as an existing Memento throws 409		Mar 15, 2018	Mar 16, 2018		Danny Bernstein	Jared Whiklo		REOPENED
FCREPO-2720	Test Suite conformance verification: Section 3.5	☰	Mar 14, 2018	Mar 16, 2018		Randall Floyd	Randall Floyd		REOPENED

FCREPO-2715	Return 401 on deletes when acl:Append applies		Mar 12, 2018	Mar 14, 2018	Danny Bernstein	Danny Bernstein	REOPENED
FCREPO-2714	Duplicate headers on Binary Resources		Mar 12, 2018	Mar 16, 2018	Danny Bernstein	Andrew Woods	REOPENED
FCREPO-2708	Create historical binary mementos		Mar 08, 2018	Mar 16, 2018	Ben Pennell	Ben Pennell	REOPENED
FCREPO-2693	Update Messaging documentation for 5.0.0	☰	Mar 05, 2018	Mar 07, 2018	Randall Floyd	Danny Bernstein	IN PROGRESS
FCREPO-2687	Restrict Cross Domain ACLs		Mar 02, 2018	Mar 16, 2018	Yinlin Chen	Danny Bernstein	REOPENED
FCREPO-2683	Implement Default ACLs		Mar 02, 2018	Mar 08, 2018	Joe Harrington	Danny Bernstein	IN PROGRESS
FCREPO-2656	Support external binaries of access-type=local-file		Nov 28, 2017	Jan 10, 2018	Ben Pennell	Ben Pennell	IN REVIEW
FCREPO-2616	Prevent modification requests to LDPRm		Sep 22, 2017	Mar 16, 2018	Longshou Situ	Ben Pennell	REOPENED
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-2582	API Alignment	📄	Sep 11, 2017	Mar 16, 2018	Unassigned	Aaron Birkland	IN PROGRESS
FCREPO-2522	Handle missing local files more cleanly		Jun 13, 2017	Aug 14, 2017	Danny Bernstein	Danny Bernstein	IN PROGRESS
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	Jan 12, 2018	Unassigned	Michael Durbin	REOPENED
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
29 issues						

Ticket Summaries

1. Please squash a bug!

▼ [Click here to expand...](#)

Key	Summary	T	Created	Updated	Due	Assignee	Reporter
FCREPO-2739	Server returns an error after inserting a particular triple syntax		Mar 17, 2018	Mar 17, 2018		Unassigned	Stefano C
FCREPO-2731	500 Response on TimeMap with bad Accept header		Mar 16, 2018	Mar 16, 2018		Unassigned	Andrew Woods
FCREPO-2712	GET with Prefer=InboundRefs on /fcr:metadata does not include InboundRefs		Mar 09, 2018	Mar 09, 2018		Unassigned	Kevin Fo
FCREPO-2697	In the HTML UI, clicking on `Create Version` results in a stack trace.		Mar 06, 2018	Mar 06, 2018		Unassigned	Danny Bernsteir
FCREPO-2695	HTML UI: "Download Content" missing icon		Mar 06, 2018	Mar 06, 2018		Unassigned	Andrew Woods
FCREPO-2670	baseURI incorrect for audit JMS messages		Feb 02, 2018	Feb 05, 2018		Unassigned	Bethany Seeger
FCREPO-2666	HTML UI does not update properly after binary resource reversion		Jan 23, 2018	Feb 01, 2018		Unassigned	Danny Bernsteir
FCREPO-2665	Integration tests flap on non-virtualized windows 10 machines.		Jan 23, 2018	Jan 24, 2018		Unassigned	Danny Bernsteir
FCREPO-2663	MOVE - Cannot delete Solr index		Jan 16, 2018	Jan 17, 2018		Unassigned	Ferdinan Terranov
FCREPO-2662	Sparql Delete works inconsistently in transaction		Jan 03, 2018	Jan 04, 2018		Unassigned	Ben Peni
FCREPO-2659	Maven Enforcer Plugin `bannedDependencies` rule fails to resolve dependencies correctly		Dec 05, 2017	Jan 04, 2018		Ralf Claussnitzer	Ralf Claussnit
FCREPO-2658	Invalid ebucore:hasMimeType value inhibits access to content		Dec 01, 2017	Dec 01, 2017		Unassigned	Kevin Fo
FCREPO-2650	MD5s not being stored in transaction		Oct 24, 2017	Nov 16, 2017		Bethany Seeger	Ben Peni
FCREPO-2648	Tomcat stuck threads during object ingest into Fedora with fcrepo-audit module enabled		Oct 19, 2017	Nov 10, 2017		Unassigned	Peter Eic
FCREPO-2635	binaries accepted by fcrepo did not arrive at final Modeshape storage location		Sep 29, 2017	Sep 29, 2017		Unassigned	Joshua Westgarc
FCREPO-2607	Incorrect ldp:contains reference on versioned resources		Sep 14, 2017	Sep 14, 2017		Unassigned	Ben Peni
FCREPO-2573	Namespaces not created correctly via PUT and POST		Aug 28, 2017	Aug 29, 2017		Unassigned	Bethany Seeger
FCREPO-2542	Versioning the root node causes exception		Jul 27, 2017	Jul 27, 2017		Unassigned	Danny Bernsteir
FCREPO-2540	Possible memory leak in		Jul 21,	Jul 25, 2017		Unassigned	Peter Eic

	org.fcrepo.event.serializer.JsonLDSerializer	2017								
FCREPO-2516	Trouble accessing nc and csv files	Jun 06, 2017	Aug 31, 2017	Unassigned	Jose Blai					
FCREPO-2479	Generated relationships from indirect containers not returned when retrieving versions	May 24, 2017	May 24, 2017	Unassigned	Ben Peni					
FCREPO-2437	migration-utils fails when migrating fedora 3 system objects	May 10, 2017	May 17, 2017	Michael Durbin	Michael I					
FCREPO-2435	Backups created while updates occur cannot be restored.	May 03, 2017	May 03, 2017	Unassigned	Michael I					
FCREPO-2433	Error when using fixity check on a version of binary object	May 02, 2017	May 03, 2017	Unassigned	Daniel S:					
FCREPO-2400	Fixity result ambiguous when digest algorithm and checksum don't match	Feb 12, 2017	Feb 15, 2017	Ralf Claussnitzer	Ralf Claussnit					
FCREPO-2398	Audit machinery causes the emission of events with info: URIs.	Feb 08, 2017	Jun 23, 2017	Danny Bernstein	A. Soroki					
FCREPO-2396	PUT to fcr:metadata fails to add/replace non-server-managed triples	Feb 07, 2017	Feb 16, 2017	Unassigned	Kevin Fo					
FCREPO-2364	URI using localhost not overwritten with Tomcat servername	Dec 15, 2016	Dec 15, 2016	Unassigned	Kevin Fo					
FCREPO-2321	fcrepo-ldpath camel tool returns HTTP 500 error	Dec 01, 2016	Feb 14, 2017	Jared Whiklo	Bethany Seeger					
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 He					
FCREPO-2263	Reserved Characters in fragments are encoded by UriBuilder	Oct 09, 2016	Feb 14, 2017	Unassigned	Christopt Johnson					
FCREPO-2171	HTML interface issues in Safari	Sep 02, 2016	Feb 23, 2017	Unassigned	David Wi					
FCREPO-2122	LDP If-Match guidance is incompatible with the HTTP spec	Aug 18, 2016	Aug 18, 2016	Unassigned	Esmé Co					
FCREPO-2118	Ambiguous fcr:versions element in version containers	Aug 11, 2016	Aug 22, 2016	Jack Hill	Harsha Ummerpi					
FCREPO-2117	Older versions are having pointers to newer versions	Aug 11, 2016	Feb 14, 2017	Aaron Birkland	Harsha Ummerpi					
FCREPO-2104	Fedora breaks when committing extra large transactions	Aug 04, 2016	Nov 06, 2017	Unassigned	Lukáš Já					
FCREPO-2103	Fixity service sometimes returns BAD_CHECKSUM on first attempt only	Aug 03, 2016	Feb 13, 2017	Unassigned	David Chandek					
FCREPO-2092	ldp:isMemberOfRelation does not find reference property	Jul 25, 2016	Feb 14, 2017	Andrew Woods	Andrew Woods					
FCREPO-2011	SQL error on first GET of a resource after idling	Apr 27, 2016	Sep 12, 2016	Unassigned	David Chandek					
FCREPO-2002	Investigate Memory Consumption over Time	Apr 20, 2016	Nov 21, 2017	Unassigned	Andrew Woods					

Showing 40 out of 45 issues

2. Tickets resolved this week:

▼ [Click here to expand...](#)

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resc
FCREPO-2738	Remove obsolete FedoraVersions.java		Mar 16, 2018	Mar 16, 2018		Unassigned	Andrew Woods		IN REVIEW	Reac
FCREPO-2735	Create two different		Mar 16,	Mar 16,		Danny	Longshou			Dupli

	versioned resource with the same memento date-time failed with status 412		2018	2018	Bernstein	Situ	CLOSED	
FCREPO-2729	Refactor Versioning Tests		Mar 15, 2018	Mar 16, 2018	Longshou Situ	Danny Bernstein	CLOSED	Fixec
FCREPO-2727	Change the granularity of Mementos to seconds		Mar 15, 2018	Mar 16, 2018	Danny Bernstein	Jared Whiklo	CLOSED	Dupli
FCREPO-2723	If acl URI exists but does not contain the correct triple, return 409		Mar 15, 2018	Mar 16, 2018	Joe Harrington	Joe Harrington	CLOSED	Fixec
FCREPO-2722	Cannot create resource with acl, throw 409 Conflict		Mar 15, 2018	Mar 15, 2018	Danny Bernstein	Yinlin Chen	CLOSED	Fixec
FCREPO-2721	Test Suite conformance verification: Section 3.6	☰	Mar 14, 2018	Mar 16, 2018	Randall Floyd	Randall Floyd	CLOSED	Done
FCREPO-2719	Paths for children of Timemap don't get their paths transformed correctly.		Mar 13, 2018	Mar 16, 2018	Ben Pennell	Jared Whiklo	CLOSED	Fixec
FCREPO-2707	Provide separate timemap for binary and description		Mar 08, 2018	Mar 14, 2018	Ben Pennell	Ben Pennell	CLOSED	Fixec
FCREPO-2706	Create container mementos from body		Mar 08, 2018	Mar 14, 2018	Ben Pennell	Ben Pennell	CLOSED	Fixec
FCREPO-2705	Validate ACL Link Header on Create and return 409 with clear error message.		Mar 08, 2018	Mar 15, 2018	Joe Harrington	Danny Bernstein	CLOSED	Fixec
FCREPO-2703	Test Suite conformance verification: Section 3.4	☰	Mar 07, 2018	Mar 14, 2018	Randall Floyd	Randall Floyd	CLOSED	Done
FCREPO-2702	Test Suite conformance verification: Section 3.3	☰	Mar 07, 2018	Mar 14, 2018	Randall Floyd	Randall Floyd	CLOSED	Done
FCREPO-2701	Test Suite conformance verification: Section 3.2	☰	Mar 07, 2018	Mar 14, 2018	Randall Floyd	Randall Floyd	CLOSED	Done
FCREPO-2700	Test Suite conformance verification: Section 3.1	☰	Mar 07, 2018	Mar 12, 2018	Randall Floyd	Randall Floyd	CLOSED	Done
FCREPO-2689	Implement support for accessToClass		Mar 02, 2018	Mar 12, 2018	Danny Bernstein	Danny Bernstein	CLOSED	Canr Repr
FCREPO-2685	Implement creation of versions with client specified date/time		Mar 02, 2018	Mar 14, 2018	Unassigned	Danny Bernstein	CLOSED	Won'
FCREPO-2684	Implement LDPCv DELETE		Mar 02, 2018	Mar 12, 2018	Longshou Situ	Danny Bernstein	CLOSED	Fixec
FCREPO-2682	Restore an LDPv from a memento		Mar 02, 2018	Mar 14, 2018	Unassigned	Danny Bernstein	CLOSED	Dupli

FCREPO-2646	Expose /fcr:versions instead of /TimeMap	Oct 06, 2017	Mar 16, 2018	Unassigned	Andrew Woods	CLOSED	Fixec
FCREPO-2643	Create Memento type/mixin for filtering versions.	Oct 05, 2017	Mar 14, 2018	Unassigned	Jared Whiklo	CLOSED	Won'
FCREPO-2618	Remove Support for Slug Header on POST to LDPCv	Sep 22, 2017	Mar 14, 2018	Longshou Situ	Ben Pennell	CLOSED	Fixec
FCREPO-2615	Support OPTIONS request on LDPRms	Sep 22, 2017	Mar 15, 2018	Longshou Situ	Ben Pennell	CLOSED	Fixec
FCREPO-2594	PUT must fail with 409 if trying to change interaction model to non-subtype	Sep 11, 2017	Mar 14, 2018	Longshou Situ	Esmé Cowles	CLOSED	Fixec
FCREPO-2591	Must allow interaction model to change to subtype of current model, but disallow changing to non-subtype	Sep 11, 2017	Mar 14, 2018	Longshou Situ	Esmé Cowles	CLOSED	Fixec

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3. Tickets created this week:

▼ [Click here to expand...](#)

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Re
FCREPO-2739	Server returns an error after inserting a particular triple syntax		Mar 17, 2018	Mar 17, 2018		Unassigned	Stefano Cossu		RECEIVED	Ur
FCREPO-2738	Remove obsolete FedoraVersions.java		Mar 16, 2018	Mar 16, 2018		Unassigned	Andrew Woods		IN REVIEW	Re
FCREPO-2737	Ensure that ACL URI triple is validated on PUT, POST and PATCH		Mar 16, 2018	Mar 16, 2018		Unassigned	Danny Bernstein		OPEN	Ur
FCREPO-2736	Add RdfSource link header to memento.		Mar 16, 2018	Mar 16, 2018		Unassigned	Longshou Situ		RECEIVED	Ur
FCREPO-2735	Create two different versioned resource with the same memento date-time failed with status 412		Mar 16, 2018	Mar 16, 2018		Danny Bernstein	Longshou Situ		CLOSED	Du
FCREPO-2734	TimeMap (LDPCv) is missing rel="original" link		Mar 16, 2018	Mar 16, 2018		Unassigned	Danny Bernstein		OPEN	Ur
FCREPO-2733	TimeGate must present rel="original" link		Mar 16, 2018	Mar 16, 2018		Unassigned	Danny Bernstein		OPEN	Ur
FCREPO-2732	Timemap must return mementos		Mar 16, 2018	Mar 16, 2018		Unassigned	Ben Pennell		OPEN	Ur
FCREPO-2731	500 Response on TimeMap with bad Accept header		Mar 16, 2018	Mar 16, 2018		Unassigned	Andrew Woods		OPEN	Ur
FCREPO-2730	Update HTML UI to support viewing versions		Mar 16, 2018	Mar 16, 2018		Unassigned	Danny Bernstein		OPEN	Ur

FCREPO-2729	Refactor Versioning Tests		Mar 15, 2018	Mar 16, 2018	Longshou Situ	Danny Bernstein	CLOSED	Fi
FCREPO-2728	Creating a Memento in the same second as an existing Memento throws 409		Mar 15, 2018	Mar 16, 2018	Danny Bernstein	Jared Whiklo	REOPENED	Ur
FCREPO-2727	Change the granularity of Mementos to seconds		Mar 15, 2018	Mar 16, 2018	Danny Bernstein	Jared Whiklo	CLOSED	Du
FCREPO-2726	Test Suite conformance verification: Section 3.9	☰	Mar 15, 2018	Mar 16, 2018	Randall Floyd	Randall Floyd	OPEN	Ur
FCREPO-2725	Test Suite conformance verification: Section 3.8	☰	Mar 15, 2018	Mar 16, 2018	Randall Floyd	Randall Floyd	OPEN	Ur
FCREPO-2724	Test Suite conformance verification: Section 3.7	☰	Mar 15, 2018	Mar 16, 2018	Randall Floyd	Randall Floyd	OPEN	Ur
FCREPO-2723	If acl URI exists but does not contain the correct triple, return 409		Mar 15, 2018	Mar 16, 2018	Joe Harrington	Joe Harrington	CLOSED	Fi
FCREPO-2722	Cannot create resource with acl, throw 409 Conflict		Mar 15, 2018	Mar 15, 2018	Danny Bernstein	Yinlin Chen	CLOSED	Fi
FCREPO-2721	Test Suite conformance verification: Section 3.6	☰	Mar 14, 2018	Mar 16, 2018	Randall Floyd	Randall Floyd	CLOSED	Dc
FCREPO-2720	Test Suite conformance verification: Section 3.5	☰	Mar 14, 2018	Mar 16, 2018	Randall Floyd	Randall Floyd	REOPENED	Ur
FCREPO-2719	Paths for children of Timemap don't get their paths transformed correctly.		Mar 13, 2018	Mar 16, 2018	Ben Pennell	Jared Whiklo	CLOSED	Fi
FCREPO-2718	Disallow PUT, POST, and DELETE on LDP-NR where acl:Append applies		Mar 12, 2018	Mar 12, 2018	Unassigned	Danny Bernstein	OPEN	Ur
FCREPO-2717	A PUT on an LDP-RS should be denied if acl:Append applies		Mar 12, 2018	Mar 14, 2018	Danny Bernstein	Danny Bernstein	OPEN	Ur
FCREPO-2716	PATCH to LDP-RS when acl:Append applies		Mar 12, 2018	Mar 12, 2018	Unassigned	Danny Bernstein	OPEN	Ur
FCREPO-2715	Return 401 on deletes when acl:Append applies		Mar 12, 2018	Mar 14, 2018	Danny Bernstein	Danny Bernstein	REOPENED	Ur
FCREPO-2714	Duplicate headers on Binary Resources		Mar 12, 2018	Mar 16, 2018	Danny Bernstein	Andrew Woods	REOPENED	Ur

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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.