Fedora 4.6.0 Release Notes

Release date: 31 August, 2016

We are proud to announce the release of Fedora 4.6.0.

- Resources
- Team
- Summary
- Changes

Resources

- This release has been built against Java 8 and requires Java 8
- Downloads
- Javadocs

Team

Release Manager

- A. Soroka, the University of Virginia

Developers

- A. Soroka, University of Virginia
- Aaron Birkland, Johns Hopkins University
- Unknown User (acoburn), Amherst College
- Aaron Elkiss, University of Michigan
- Andrew Woods, DuraSpace
- Benjamin Armintor, Columbia University
- Bethany Seeger, Amherst College
- Bill Branan, DuraSpace
- Esme Cowles, Princeton University
- Jared Whiklo, University of Manitoba
- Michael Durbin, University of Virginia
- Michael J. Giarlo, Stanford University
- Mirek Simek, University of Chemistry and Technology, Prague
- Mohamed Mohideen Abdul Rasheed, University of Maryland
- Nick Ruest, York University
- Peter Eichman, University of Maryland
- Yinlin Chen, Virginia Tech

Issue Reporters

- Esme Cowles
- Andrew Woods
- Unknown User (acoburn)
- Jim Coble
- Aaron Birkland
- Jared Whiklo
- Nick Ruest
- Mirek Simek
- Benjamin Armintor
- David Chandek-Stark
- Michael Durbin
- Bill Branan
- Perry Willett
- Michael J. Giarlo
- A. Soroka
- Scott Prater
- Doron Shalvi
- Trey Pendragon
- Rob Sanderson
- Yinlin Chen
Summary

The Fedora 4.6.0 release furthers several major objectives:

- Tighten the definition of the RESTful application programming interface (API)
- Refining the messaging service
- Use performance test fixtures to examine the effects of different backends
- Improve durability by encouraging the use of MySQL and PostgreSQL backends
- Deprecation of legacy Transform service
- Fix bugs

This release will be the last release built against a version of Modeshape that uses Infinispan for data storage.

Changes

Messaging Interface

As the draft Fedora Messaging (SPI) specification moves toward finalization, the message serialization format has been modified to track the recommendations outlined in this document. This will affect any existing message consumers. There are four significant changes that messaging applications should be aware of:

1. Previous versions of Fedora emitted messages with the header org.fcrepo.jms.properties. This header is no longer included in messages.
2. Previous versions of Fedora emitted messages with the header org.fcrepo.jms.eventType, using values with the http://fedora.info/definitions/v4/repository# namespace but which were not defined in the Fedora ontology. The org.fcrepo.jms.eventType header now uses values from the newly published Event ontology: http://fedora.info/definitions/v4/event#.
3. A new header is included with the name org.fcrepo.jms.resourceType. This header includes all rdf:type values of the resource in question.
4. Previous versions of Fedora emitted header-only messages where each header was prefixed with org.fcrepo.jms. The message serialization now also includes a body formatted in JSON-LD using the PROV namespace. All data found in the JMS headers are also available in the body serialization. Examples of this format can be found here: https://github.com/fcrepo4/fcrepo-event-ontology.

Please note: the JMS-centric header names are not part of the upcoming messaging specification and may be removed from a future version of the fcrepo-o-jms module. Messaging clients are strongly encouraged to rely on data in the message body.

Application Programming Interface

One of the technical priorities of Fedora is to define a well-specified application programming interface (API) against which client applications can be written and future server-side implementations can be created. This Fedora API should be clear and detailed enough such that a corresponding technology compatibility kit (TCK) would be able to indicate if any Fedora implementation fulfills or diverges from the specification. With this in mind, several issues were addressed in this release that clean up Fedora’s RESTful interaction.

An important particular change to note here is the move to use only weakly-validated ETags for RDF resources, in line with a correct interpretation of the HTTP specifications. This means that such ETags are no longer suitable for use with the If-Match request header. Additionally, the extensions fcr:transform has been marked as "deprecated" in favor of more robust tooling found in fcrepo-lxpath.

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<tr>
<th>Key</th>
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Web Access Control

Documentation of Fedora's implementation of Web Access Controls is available on the [wiki](#).

<table>
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</table>

18 issues
Performance

The Performance and Scale group has been testing various versions of Fedora, including the 4.6.0 release candidates. Recent work has focused on running our JMeter test plans by multiple sites and testing the impact of using a relational database (MySQL or PostgreSQL) instead of LevelDB. The performance of the databases has been at least as good as LevelDB, and typically scales much better. In addition, testing has identified scalability issues with containers that link to a large number of other containers, and is working to address that issue. The current status of testing is tracked in the wiki: Performance and Scalability Test Plans.

### Key and Summary

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<th>Summary</th>
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2 issues

Preservation

This release includes continuing support for various backend object stores. Default usage of that LevelDB backend has been removed, to encourage the intentional selection of a backend appropriate to the integration in hand.

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<td>Fedora does not warn that non-SHA1 checksums are ignored</td>
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2 issues

Housekeeping and Bugfixes

Numerous refactorings, bugfixes, and clean-up tasks were addressed in this release:

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<td>FCREP</td>
<td>Use Guava utilities for proxying</td>
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<td>A. Soroka</td>
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**Complete Listing of Resolved Tickets**

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<td>Wiki for 4.6.0 says it is the current release</td>
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<td>Updates to Containers with If-Match headers should fail</td>
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<td>Modify UI javascript to disable Add button upon pressing it</td>
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<td>HTML UI - Error on HEAD requests</td>
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<td>Remove Default repository.json Configuration in Deployable war</td>
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<td>Move objState to consolidated -exts GitHub repo</td>
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<td>Add ‘inactive’ state to ObjState Vocabulary</td>
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<td>With webac, non-fedoraAdmin users cannot delete properties even when granted write permission.</td>
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<td>Memory leak in GET to containers</td>
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<td>Using webac, users in the “fedoraUser” group may not perform sparql updates that would result in the registration of new namespace prefixes.</td>
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<td>Add Snapshot repository to fcrepo-transform</td>
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<td>Use Guava utilities for proxying</td>
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<td>Performance and Scalability Test Plans - Run: Test 3 - Number of files</td>
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<td>Esmé Cowles</td>
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<td>O-1890</td>
<td>Remove /fcr:modetypes endpoint</td>
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<td>Feb 04, 2016</td>
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<td>O-1869</td>
<td>FedoraResource type shouldn't return a javax. jcr:Node</td>
<td></td>
<td>Dec 22, 2015</td>
<td>May 16, 2016</td>
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<td>O-1853</td>
<td>Remove &quot;accessroles&quot;</td>
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<td>Dec 06, 2015</td>
<td>Jul 15, 2016</td>
<td>Peter Eichman</td>
<td>Andrew Woods</td>
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<td>O-1812</td>
<td>OOM when migrating many objects</td>
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<td>Nov 02, 2015</td>
<td>May 16, 2016</td>
<td>Michael Durbin</td>
<td>Doron Shalvi</td>
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<td>O-1754</td>
<td>eTags should be Weak eTags</td>
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<td>Sep 30, 2015</td>
<td>Aug 18, 2016</td>
<td>Unknown</td>
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<td>FCREP O-1742</td>
<td>Last-Modified and ETag should not change with inbound references</td>
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<td>/rest/ should have an etag</td>
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<td>Rob Sanderson</td>
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Showing 70 out of 72 issues