

Fedora 4.4.0 Release Notes

Release date: 12 October, 2015

We are proud to announce the release of Fedora 4.4.0.

- [Resources](#)
- [Team](#)
 - [Release Manager](#)
 - [Developers](#)
 - [Issue Reporters](#)
- [Summary](#)
 - [Updates](#)
- [References](#)

Resources

- This release has been built against Java 8
- [Downloads](#) [1]
- [Javadocs](#) [2]

Team

Release Manager

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Developers

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- [Unknown User \(acoburn\)](#)
- [Esmé Cowles](#)
- [Osman Din](#)
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Issue Reporters

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Summary

The Fedora 4.4.0 release furthers several major objectives:

- Tighten the definition of the RESTful application programming interface (API)
- Further align this API to community standards, including the [Linked Data Platform](#) [3] (LDP) and [Web Access Control](#) [4] (WebAC)
- Improve tooling for legacy Fedora repositories to Fedora4
- Improve tooling for external services in the ecosystem around the repository
- Fix bugs

This release is a major release (i.e. 4.4.0 instead of 4.3.1) because there are a two updates that are not strictly speaking backwards compatible with 4.3.0:



- HTTP GET requests on descriptions of NonRDF resources (i.e. binaries) now return RDF triples that all have the NonRDF resource as the subject, whereas previously the returned RDF contained a mix of subjects in the response: some subjects were the NonRDF resource, some subjects were the NonRDF description resource
- When requesting the [fixity service](#) [5] be performed on a binary resource, the "status" of the fixity result has been changed in this release from: "fedora:status" to "premis:hasEventOutcome"

Although not a backwards incompatible update in the 4.4.0 release, it should be noted that the [Import and Export services](#) [6] have been deprecated due to their reliance on a LDP serialization versus an RDF-centric approach. These services will be supplanted by externalized machinery that transacts in RDF.

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Updates

Community Registry

To minimize the barriers to using Fedora, a free, open source application, there is no required "registration" process. However, it is extremely beneficial to the broader Fedora community if we collectively aggregate some minimal details describing our respective repository installations.

DuraSpace maintains a [registry](#) [7] of installations that is populated on a voluntary basis. The 4.4.0 release raises the visibility of that registry, and has fulfilled the goal that these messages will be [fixed](#) [8] in it. In addition, the Fedora installation splash-page requesting exactly that.

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Application Programming Interface

One of the [technical priorities](#) [9] 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](#) [10] (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 and tease out the core aspects of the [Fedora ontology](#) [11].

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Linked Data Platform alignment

Fedora is a Linked Data Platform (LDP) server implementation. This release fixes a few bugs that relate to the interactions that an LDP client should

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Upgrading and Migrating

A primary focus of the ongoing Fedora effort is to facilitate the upgrade/migration of Fedora3 repositories to Fedora4. To this end, a couple of improvements have been incorporated into the "migration-utils [12]" upgration utility.

- Add Fedora2 to the configurable list of migration sources
- Map legacy PIDs to user-defined Fedora4 predicates versus the previous deidentifier mapping

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External Services

One of the exciting capabilities that Fedora enables is the creation of distributed, asynchronous, message-driven services that are external to the core repository but are triggered by repository events. This release further improves the deployment and runtime configurability of the Fedora-related [Apache Camel-based \[13\] features](#).

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Web Access Control

A significant community success that is found in this release is an initial implementation of an [Web Access Control \[14\]](#) authorization module. This authorization module enables the establishment of access policies modeled as linked data. This feature was initiated, planned, designed, and implemented by a group of community stakeholders.

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Housekeeping and Bugfixes

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

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- [1] <https://wiki.duraspace.org/display/FF/Downloads>
- [2] <http://docs.fcrepo.org>
- [3] <http://www.w3.org/TR/ldp/>
- [4] <http://www.w3.org/wiki/WebAccessControl>
- [5] <https://wiki.duraspace.org/display/FEDORA44/RESTful+HTTP+API+-+Fixity>
- [6] <https://wiki.duraspace.org/display/FEDORA44/RESTful+HTTP+API+-+Export+and+Import>
- [7] <http://www.duraspace.org/registry/fedora>
- [8] <http://www.duraspace.org/register-repository>
- [9] <https://wiki.duraspace.org/display/FF/2015+-+2016+Technical+Priorities>
- [10] https://en.wikipedia.org/wiki/Technology_Compatibility_Kit
- [11] <http://fedora.info/definitions/v4/2015/07/24/repository>
- [12] <https://github.com/fcrepo4-exts/migration-utils>
- [13] <http://camel.apache.org/>
- [14] <http://www.w3.org/wiki/WebAccessControl>