

Release Testing - 4.7.2

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Issues found during testing

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External Projects

Hydra

Project	Tested by	Success? RC-1	Notes
ActiveFedora	Esmé Cowles	blocked URL	
CurationConcerns	Esmé Cowles	*	1 test failure, but same failure seen with 4.7.1 and 4.6.1
Hyrax	Esmé Cowles	blocked URL	
Plum	Esmé Cowles	blocked URL	
Sufia	Esmé Cowles	blocked URL	

Islandora

Project	Tested by	Success? RC-1	Notes
CLAW	Nick Ruest		claw_vagrant

Testing Plan

```
git clone https://github.com/fcrepo4/fcrepo4
cd fcrepo4
git checkout 4.7.2-RC
```

Sanity Builds

Project	Command	Platform	Tested by	Success? RC-1	Notes
fcrepo4	mvn clean install	linux	Andrew Woods		Ubuntu 16.10
			Nick Ruest		Ubuntu 16.04
fcrepo4	mvn clean install	mac	Mark A. Matienzo	blocked URL	macOS 10.11.6
			Adam Wead	blocked URL	macOS 10.12.3
fcrepo4	mvn clean install	windows	Aaron Birkland		Windows 10
fcrepo-module-auth-rbac1	mvn clean install	linux	Andrew Woods		Ubuntu 16.10
			Nick Ruest	blocked URL	Ubuntu 16.04

fcrepo-module-auth-rbac1	mvn clean install	mac	Mark A. Matienzo	blocked URL	macOS 10.11.6
fcrepo-module-auth-rbac1	mvn clean install	windows	Aaron Birkland	✓	Windows 10
fcrepo-module-auth-xacml	mvn clean install	linux	Andrew Woods	✓	Ubuntu 16.10
			Nick Ruest	blocked URL	Ubuntu 16.04
fcrepo-module-auth-xacml	mvn clean install	mac	Mark A. Matienzo	blocked URL	macOS 10.11.6
fcrepo-module-auth-xacml	mvn clean install	windows	Aaron Birkland	✓	Windows 10
fcrepo-module-auth-webac	mvn clean install	linux	Andrew Woods	✓	Ubuntu 16.10
			Nick Ruest	blocked URL	Ubuntu 16.04
fcrepo-module-auth-webac	mvn clean install	mac	Mark A. Matienzo	✓	macOS 10.11.6
fcrepo-module-auth-webac	mvn clean install	windows	Aaron Birkland	✓	Windows 10
fcrepo-mint	mvn clean install	linux	Andrew Woods	✓	Ubuntu 16.10
			Nick Ruest	blocked URL	Ubuntu 16.04
fcrepo-mint	mvn clean install	mac	Mark A. Matienzo	✓	macOS 10.11.6
fcrepo-mint	mvn clean install	windows	Aaron Birkland	✓	Windows 10
fcrepo-audit	mvn clean install	linux	Andrew Woods	✓	Ubuntu 16.10
			Nick Ruest	blocked URL	Ubuntu 16.04
fcrepo-audit	mvn clean install	mac	Mark A. Matienzo	✓	macOS 10.11.6
fcrepo-audit	mvn clean install	windows	Aaron Birkland	✓	Windows 10
fcrepo-webapp-plus	mvn clean install	linux	Andrew Woods	✓	Ubuntu 16.10
			Nick Ruest	blocked URL	Ubuntu 16.04
fcrepo-webapp-plus	mvn clean install	mac	Mark A. Matienzo	✓	macOS 10.11.6
fcrepo-webapp-plus	mvn clean install	windows	Aaron Birkland	✓	Windows 10
fcrepo-webapp-plus	mvn clean install -Prbac1	linux	Andrew Woods	✓	Ubuntu 16.10
			Nick Ruest	blocked URL	Ubuntu 16.04
fcrepo-webapp-plus	mvn clean install -Prbac1	mac	Mark A. Matienzo	✓	macOS 10.11.6
fcrepo-webapp-plus	mvn clean install -Prbac1	windows	Aaron Birkland	✓	Windows 10
fcrepo-webapp-plus	mvn clean install -Pxacml	linux	Andrew Woods	✓	Ubuntu 16.10
			Nick Ruest	blocked URL	Ubuntu 16.04
fcrepo-webapp-plus	mvn clean install -Pxacml	mac	Mark A. Matienzo	✓	macOS 10.11.6
fcrepo-webapp-plus	mvn clean install -Pxacml	windows	Aaron Birkland	✓	Windows 10

One-Click Run

```
cd fcrepo-webapp; mvn clean install -Pone-click
```

Command	Platform	Tested by	Success? RC-1	Notes
java -jar fcrepo-webapp-<version>-jetty-console.jar	Linux	Andrew Woods	✓	Ubuntu 16.10
		Nick Ruest	✓	Ubuntu 16.04
java -jar fcrepo-webapp-<version>-jetty-console.jar	Mac	Mark A. Matienzo	✓	macOS 10.11.6
java -jar fcrepo-webapp-<version>-jetty-console.jar	Windows	Aaron Birkland	✓	Windows 10

Manual Tests

All of the below should take place in the HTML UI and non-vagrant tests should run against **fcrepo-webapp-plus**.

1. Create nested containers
2. Create binary resources
3. Run fixity on binary
4. Update Properties: Perform SPARQL-Update on container
5. Update Properties: Perform SPARQL-Update on binary
6. Delete container
7. Delete binary
8. Use transactions
9. Create versions
10. View versions
11. Rollback versions

Database Tests

With Tomcat7 deployment, run above manual tests with alternate backend databases ([Configuring JDBC Object Store](#))

Database	Platform	Tested by	Success? RC-1	Notes
MySQL	5.7.17	Andrew Woods	✓	

fcr:backup/fcr:restore Functionality

These tests are designed to ensure the proper function of the 'fcr:backup/fcr:restore' features by testing them against various Fedora configurations. The validity of the 'restore' can only be determined by crawling the repository and verifying the successful retrieval of the repository's content.

If the anticipated Fedora release is not backwards compatible with the previous version of Fedora, then the "From Fedora Version" should be the previous version. Otherwise, it is sufficient to test the fcr:backup/fcr:restore functionality using the same version.

See: [RESTful HTTP API - Backup and Restore](#)

```
# Backup
curl -X POST localhost:8080/rest/fcr:backup

# Restore
curl -X POST -d "/path/to/backup/directory" localhost:8080/rest/fcr:restore
```

Resources

- These python scripts - [fcrepo-testing](#) - can be used to load RDF content and binary content to a Fedora repository and verify the integrity of the loaded resources. Output from the load process can be used to verify the integrity of a 'restored' repository. See the [README](#) for more info.
- This [script](#) can be used to walk your repository, failing if a non-success response is encountered.

Tested by	Platform	Container (Tomcat /Jetty)	Database Backend	From Fedora Version	To Fedora Version	Number of RDF Resources	Number of Binaries	Size of Backup (du -h .)	Success?	Notes
Andrew Woods	Linux	Tomcat8	MySQL 14.14 Distrib 5.7.17	4.7.2-RC1	4.7.2-RC1	100	100	55G	✓	Used plantpatents dataset

NB: "Success" is measured not by receiving a "204 No Content" message after the 'fcr:restore' command, but by performing a GET on every resource in the repository and receiving "200 OK" messages.

Vagrant Tests

```
vagrant destroy
vagrant up
```

Test steps	Tested by	Success? RC-1	Notes
FEDORA_AUTH=true FEDORA_AUDIT=true	Andrew Woods	✓	
FEDORA_AUTH=false FEDORA_AUDIT=true	Andrew Woods	✓	
FEDORA_AUTH=true FEDORA_AUDIT=false	Andrew Woods	✓	
FEDORA_AUTH=false FEDORA_AUDIT=false	Andrew Woods	✓	

Manual Tests

Same as above, plus:

1. Verify audit events are in triplestore
2. Verify resources are in triplestore
3. Verify resources are in Solr
4. Verify authorization works for the two auth-enabled configurations
5. Verify reindexing to triplestore works

[1] [Testing scripts](#)

[2] [Fedora 4 Release Test Suite](#)