

Release Testing - 4.7.0

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Testing Blocker Tickets

- RC-1
 - Unable to locate Jira server for this macro. It may be due to Application Link configuration.

External Projects

Hydra

Project	Success?
ActiveFedora	✗ See AF#1156
CurationConcerns	✓
Plum	✓
Sufia	✓

Islandora - ✓

One issue related to this update is in process to be resolved.
<https://github.com/Islandora-CLAW/CLAW/issues/370>

Testing Plan

```
git clone https://github.com/fcrepo4/fcrepo4
cd fcrepo4
git checkout 4.7.0-RC
```

Sanity Builds

Project	Command	Platform	Tested by	Success?	Notes
fcrepo4	mvn clean install	linux	Jared Whiklo	✓	Ubuntu 14.04 LTS
			Nick Ruest	✓	Ubuntu 16.04 LTS
			Andrew Woods	✓	Ubuntu 16.04 LTS
fcrepo4	mvn clean install	mac	Jared Whiklo	✓	
fcrepo4	mvn clean install	windows	Aaron Birkland	✓	Windows 10 (1607) x64; 1.8.0_101-b13

fcrepo-module-auth-rbac1	mvn clean install	linux	Jared Whiklo	✓	Ubuntu 14.04 LTS
			Andrew Woods	✓	Ubuntu 16.04 LTS
fcrepo-module-auth-rbac1	mvn clean install	mac	Jared Whiklo	✓	
fcrepo-module-auth-rbac1	mvn clean install	windows	Aaron Birkland	✓	Windows 10 (1607) x64; 1.8.0_101-b13
fcrepo-module-auth-xacml	mvn clean install	linux	Jared Whiklo	✓	Ubuntu 14.04 LTS
			Andrew Woods	✓	Ubuntu 16.04 LTS
fcrepo-module-auth-xacml	mvn clean install	mac	Jared Whiklo	✓	
fcrepo-module-auth-xacml	mvn clean install	windows	Aaron Birkland	✓	Windows 10 (1607) x64; 1.8.0_101-b13
fcrepo-module-auth-webac	mvn clean install	linux	Jared Whiklo	✓	Ubuntu 14.04 LTS
			Andrew Woods	✓	Ubuntu 16.04 LTS
fcrepo-module-auth-webac	mvn clean install	mac	Jared Whiklo	✓	
fcrepo-module-auth-webac	mvn clean install	windows	Aaron Birkland	✓	Windows 10 (1607) x64; 1.8.0_101-b13
fcrepo-mint	mvn clean install	linux	Jared Whiklo	✓	Ubuntu 14.04 LTS
			Andrew Woods	✓	Ubuntu 16.04 LTS
fcrepo-mint	mvn clean install	mac	Jared Whiklo	✓	
fcrepo-mint	mvn clean install	windows	Aaron Birkland	✓	Windows 10 (1607) x64; 1.8.0_101-b13
fcrepo-connector-file	mvn clean install	linux	Jared Whiklo	✓	Ubuntu 14.04 LTS
			Andrew Woods	✓	Ubuntu 16.04 LTS
fcrepo-connector-file	mvn clean install	mac	Jared Whiklo	✓	
fcrepo-connector-file	mvn clean install	windows	Aaron Birkland	✓	Windows 10 (1607) x64; 1.8.0_101-b13
fcrepo-audit	mvn clean install	linux	Jared Whiklo	✓	Ubuntu 14.04 LTS
			Andrew Woods	✓	Ubuntu 16.04 LTS
fcrepo-audit	mvn clean install	mac	Jared Whiklo	✓	
fcrepo-audit	mvn clean install	windows	Aaron Birkland	✓	Windows 10 (1607) x64; 1.8.0_101-b13
fcrepo-webapp-plus	mvn clean install	linux	Jared Whiklo	✓	Ubuntu 14.04 LTS
			Andrew Woods	✓	Ubuntu 16.04 LTS
fcrepo-webapp-plus	mvn clean install	mac	Jared Whiklo	✓	
fcrepo-webapp-plus	mvn clean install	windows	Aaron Birkland	✓	Windows 10 (1607) x64; 1.8.0_101-b13
fcrepo-webapp-plus	mvn clean install -Prbac1	mac	Jared Whiklo	✓	
fcrepo-webapp-plus	mvn clean install -Prbac1	windows	Aaron Birkland	✓	Windows 10 (1607) x64; 1.8.0_101-b13
fcrepo-webapp-plus	mvn clean install -Prbac1	linux	Jared Whiklo	✓	Ubuntu 14.04 LTS
			Andrew Woods	✓	Ubuntu 16.04 LTS
fcrepo-webapp-plus	mvn clean install -Pxacml	mac	Jared Whiklo	✓	
fcrepo-webapp-plus	mvn clean install -Pxacml	windows	Aaron Birkland	✓	Windows 10 (1607) x64; 1.8.0_101-b13cd
fcrepo-webapp-plus	mvn clean install -Pxacml	linux	Jared Whiklo	✓	Ubuntu 14.04 LTS
			Andrew Woods	✓	Ubuntu 16.04 LTS
fcrepo-webapp-plus	mvn clean install -Pconnector	mac	Danny Bernstein	✓	OSX 10.10.5
fcrepo-webapp-plus	mvn clean install -Pconnector	Linux	Andrew Woods	✓	Ubuntu 16.04 LTS

Migration of Existing Repositories

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

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

# Restore to 4.7.0
curl -X POST -d "/path/to/backup/directory" localhost:8080/rest/fcr:restore
```

Tested by	Platform	From Fedora Version	Number of Resources	Size of Backup (du -h.)	Success?	Notes
Nick Ruest	Ubuntu 16.04.1	4.6.0	?	44M	✓	LUBM_02 dataset
Joshua Westgard	Mac OS 10.11.6 (El Capitan)	4.6.0	~2400	5.2G	✓	Also successfully ran import/export tooling against a 4.7 RC2 repo.
Tricia Jenkins	Centos 6.8	Release: 4.1.0 Build #4a7d6f9e (2015-02-04)	~60	11M	✓	Am working toward a complete set of Hydranorth content (~213218 resources).
Julie Allinson	Mac OS 10.10.5	4.6 (data created in 4.4)	~ 113000 (~ 12GB in data folder)	~ 93MB	✓	No binary files, just metadata in this repo. "java.sql.BatchUpdateException: Duplicate entry" error. Fixed with backup-fixer.jar Need to verify all objects restored. Data folder post restore ~ 7GB

Filesystem Federation

[Test simple federation](#)

Tested by	Platform	Success?	Notes
Andrew Woods	Linux	✓	Success viewing federated files Success adding new files to filesystem and seeing them in Fedora
Jared Whiklo	Mac	✓	Success viewing federated files Success adding new files to filesystem and seeing them in Fedora

One-Click Run

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

Command	Platform	Tested by	Success?	Notes
java -jar fcrepo-webapp-4.7.0-SNAPSHOT-jetty-console.jar	Linux	Nick Ruest	✓	
java -jar fcrepo-webapp-4.7.0-SNAPSHOT-jetty-console.jar	Mac	Jared Whiklo	✓	
java -jar fcrepo-webapp-4.7.0-SNAPSHOT-jetty-console.jar	Windows	Aaron Birkland	✓	
java -jar fcrepo-webapp-4.7.0-SNAPSHOT-jetty-console.jar	Linux	Andrew Woods	✓	

Manual Tests

All of the below should take place in the HTML UI.

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?	Notes
MySQL	osx (10.10.5)	Danny Bernstein	✓	
	Ubuntu 14.04	Andy Wagner	✓	10.0.24-MariaDB-1~trusty-wsrep
	Ubuntu 16.04	Andrew Woods	✓	mysql Ver 14.14 Distrib 5.7.16 • Success with fcrepo4-tests scripts • Success with https://github.com/yinlinchen/fcrepo4-release-test-suite
PostgreSQL	Ubuntu 14.04	Andy Wagner	✓	Postgresql 9.5

Vagrant Tests

```
vagrant destroy
vagrant up
```

Test steps	Tested by	Success?	Notes
FEDORA_AUTH=true	Yinlin Chen	✓	4.7.0-RC is passed [2].
FEDORA_AUDIT=true	Nick Ruest	✓	Nick Ruest "==" default: Error executing command: No matching features for fcrepo-camel-ldpath/0.0.0"
FEDORA_AUTH=false	Nick Ruest	✓	Nick Ruest "==" default: Error executing command: No matching features for fcrepo-camel-ldpath/0.0.0"
FEDORA_AUDIT=true	Yinlin Chen	✓	4.7.0-RC c325e30 is passed [2].
FEDORA_AUTH=true	Danny Bernstein	✓	Nick Ruest "==" default: Error executing command: No matching features for fcrepo-camel-ldpath/0.0.0" All testing scripts pass
FEDORA_AUDIT=false	Nick Ruest	✓	
	Yinlin Chen	✓	
FEDORA_AUTH=false	Andy Wagner	✓	All scripts pass.
FEDORA_AUDIT=false	Yinlin Chen	✓	4.7.0-RC c325e30 is passed [2].

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](#)

Ubuntu 14.04 LTS