

2015 - 2016 Technical Priorities

Although there are various community-driven developments in the Fedora ecosystem, this document describes the roughly 12-month technical focus of the core repository platform.

Technical Priorities

1. Formalize the core Fedora services Application Programming Interface (API)

This priority is to clearly define the core services that Fedora promises as a standards-based RESTful API, accompany this API with any necessary domain-specific ontologies, and provide a Technology Compatibility Kit (TCK) for each service.

type	key	summary	assignee	reporter	priority	status	resolution	created	updated	due
Unable to locate Jira server for this macro. It may be due to Application Link configuration.										

The Fedora services are:

a. Create/Read/Update/Delete on repository resources

- Standard: Linked Data Platform
- Include Import and Export of RDF, and option for RDF serialization to disk

iii.	type	key	summary	assignee	reporter	priority	status	resolution	created	updated	dt
Unable to locate Jira server for this macro. It may be due to Application Link configuration.											

b. Versioning

- Standard (partial, only retrieval): Memento

ii.	type	key	summary	assignee	reporter	priority	status	resolution	created	updated	dt
Unable to locate Jira server for this macro. It may be due to Application Link configuration.											

c. Transactions

- Standard: TBD

d. Fixity

- Standard (partial, on ingest): <http://tools.ietf.org/html/rfc3230#section-4.3.2>

e. Authorization

- Standard: WebAC

ii.	type	key	summary	assignee	reporter	priority	status	resolution	created	updated	dt
Unable to locate Jira server for this macro. It may be due to Application Link configuration.											

2. Formalize the core Fedora Service Provider Interfaces (SPIs)

a. Eventing SPI

- Defining the interface that a Fedora repository implementation should implement to publish repository events

3. Runtime configurability

- Enable the update of configuration settings at runtime, e.g. changing hostname published in repository events
- Enable pluggability of extension modules, e.g. adding an OAI-PMH module at runtime

- 4. Performance and Scale
 - a. Establish metrics for repository limits, including:
 - i. number of resources
 - ii. number of bytes
 - iii. See: [Performance and Scalability Test Plans](#)

iv.	type	key	summary	assignee	reporter	priority	status	resolution	created	updated	di
Unable to locate Jira server for this macro. It may be due to Application Link configuration.											

- b. Establish guidelines for storage options based on usage patterns

Note: Items 1 and 2 define priorities related to "Fedora as a specification", whereas Items 3 and 4 relate to "Fedora as a reference implementation".