

# 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.

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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
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#### b. Versioning

- Standard (partial, only retrieval): Memento

ii.	type	key	summary	assignee	reporter	priority	status	resolution	created	updated	dt
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#### 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
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### 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
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- 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".