



Fedora 6.0: Impacts and Opportunities for the Samvera Community

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High Level Fedora 6 Goals

1. Reduce effort required to migrate
2. Enhance long term digital preservation
3. Improve performance and scale

Process

1. Replace persistence layer (ModeShape)
2. Implement the **Oxford Common File Layout**
3. Retain alignment with specified **Fedora API**
4. Release with **migration tooling** and support

What is the Oxford Common
File Layout (OCFL)?



A simple, non-proprietary, specified, open-standards approach to the layout of preservation persistence.



1. Parsability
2. Robustness
3. Versioning
4. Storage Diversity
5. Completeness



What are the potential benefits for Samvera?

Transparent Persistence

Simple file and folder hierarchy

Readable by both humans and machines

Application-independent

```
[object root]
├── 0=ocfl_object_1.0
├── inventory.json
├── inventory.json.sha512
├── v1
│   ├── inventory.json
│   ├── inventory.json.sha512
│   └── content
│       ├── metadata
│       │   ├── descriptive.xml
│       │   ├── technical.xml
│       │   └── rights.xml
│       ├── page-1-OCR.txt
│       ├── page-1.tiff
│       ├── page-2-OCR.txt
│       └── page-2.tiff
└── v2
    ├── inventory.json
    ├── inventory.json.sha512
    └── content
        └── metadata
            └── descriptive.xml
```

Performance and Scale

Simplified storage architecture (no more ModeShape)

Many Members issues have been resolved

Early performance tests are promising



New simple search API

Built off a database index

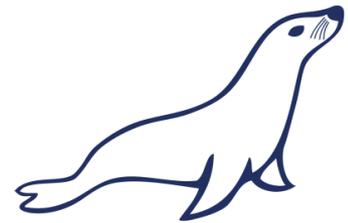
Not a Solr replacement



PostgreSQL



MySQL®



MariaDB®

Anticipated Timelines

Alpha release: Available soon!

Next sprint: November 2-6

Production release: Early 2021



Icon made by [Smashicons](#) from [Flaticon](#)

How to Get Involved with Fedora 6

Test [migration-utils](#) and provide feedback

Run [performance and scale tests](#)

Participate in a [code sprint](#)

Join the conversation in [Slack](#)

Support us by [becoming a member](#)

Thank you!

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