University of Virginia Migration Pilot Plan

Goal

Complete and document the migration of the UVa repository from Fedora 3.x to Fedora 6.x.

Scope

This project includes the following:

1. Installation of a Fedora 6.x instance
2. Metadata and data model mapping
3. Complete data migration
4. Documentation of API changes and mappings between Fedora 3.x and 6.x
5. Documentation of the process and decision points

The project team will not make direct changes to the front-end repository interface, but will assist local developers with this process.

Deliverables

1. Documented metadata and data model mappings
2. Updated migration utility capable of completing UVa data migration
3. Verification tool to ensure data has been fully migrated with no loss
4. Fully migrated repository dataset
5. Functional Fedora 6.x instance populated with all migrated data
6. Documented Fedora 3.x to 6.x API changes and mappings
7. Documented migration process and outcomes

Requirements

Technical resources:

1. Server provisioned with sufficient space and operating environment for Fedora 6.x and migrated data
2. Exported Fedora 3.x data
3. List of metadata schemas and fields
4. List of data models

Timelines

Month	Activity	Assignee	Status	Notes
September	Create and review project plan	David Pilot	Complete	Project plan has been revised and approved.
October	Install and configure Fedora 6.x instance 1. This will be done in AWS using the Fedora 6 Docker and Terraform script	Pilot Danny	Complete	Fedora 6 has been deployed in AWS
October	Review sample data 1. This will be a representative sample from the Fedora 3.2.1 instance	David Danny Pilot	Complete	
October	Run initial test migration 1. Test migration will use sample data and migration-utils	Pilot Danny	Complete	Initial tests have been run. Errors are being resolved.
October	Map metadata and data models 1. Based on sample data, document all content models and datastreams 2. Document metadata standards and fields and determine what needs to be mapped	David Danny Pilot	Complete	All data models have been reviewed and catalogued.
October	Document the mapping process	David Pilot	Complete	

October November	Develop validation tool 1. Based on initial requirements documented in the wiki	Danny Andrew	Complete	
November	Iterate on test migration and update migration utility 1. Continue running test migrations and update migration-utils as needed to comply with pilot functional requirements	Danny Pilot	Complete	Migration tool is now capable of completing a migration for UVA data.
December January	Complete data migration 1. Migrate all data from Fedora 3 instances to Fedora 6 instance	Danny	Complete	
January	Document the migration process	David Pilot	Complete	
January	Document Fedora 3.x to 6.x API mappings 1. Map Fedora 3 API functionality to Fedora 6 API functionality to facilitate client code updates	Danny	Complete	
January February	Update front-end interface to work with Fedora 6 1. Ensure Fedora 6 content is properly indexed in Solr and exposed through Virgo interface 2. Update interface as needed to comply with functional requirements	Pilot Danny	Complete	
February March	Test and update the repository 1. Conduct user and administrator tests to ensure functional requirements are met 2. Update the repository as needed based on the tests	Pilot David Danny	Complete	
February March	Test performance and scale 1. Use performance and scale testing resources against Fedora 6 instance and document the results 2. Make optimization improvements as needed based on test results	Danny Pilot	Complete	

Milestones

1. Project Plan: early October
2. Data model and metadata map: late October
3. Validation tool: November
4. Complete data migration: January
5. Updated front-end: February

Resources

1. UVa Repository Description