Managing Digital Resources in Alma

Asaf Kline | Director, Alma Product Management

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ExLibris a ProQuest Company

General Availability

- From January 2016 – Enhanced functionality for management of digital resources in Alma

Digital Asset Management

This January 2016 release sees the culmination of Phase Two of Alma's enhanced support for the management of digital resources. This includes a focus on Special Collection workflows and processes. As part of this, Alma will be able to support large-scale staff ingest scenarios. The mechanism for bulk upload (ingest) will support different formats with an initial focus on MARC and CSV based files, and which will later be extended to Dublin Core.
Alma also provides easy-to-use wizards and upload utilities for staff to be able to create individual resources (e.g. 'quick catalog' a new representation), and manage content that has already been uploaded by other means. These enhancements and developments go hand-in- hand with new discovery and delivery capabilities for the end user.

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Main Goals w/ Alma

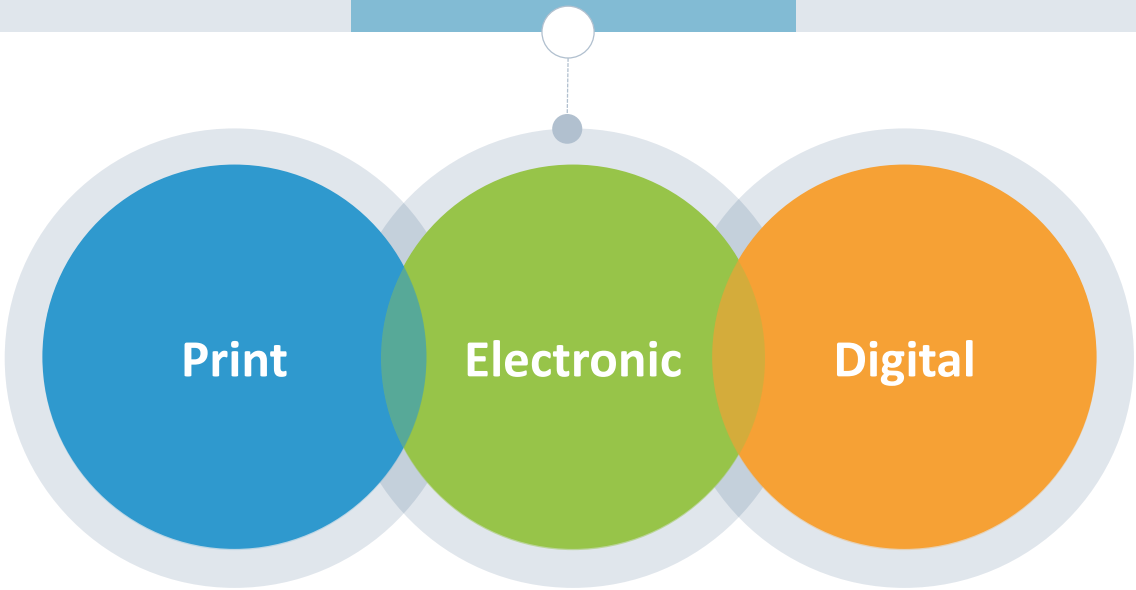
Simple

Integrated Library Workflows

ExLibris Alma

Enhanced Discovery and Delivery

New (out-of-the-box) Services



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Where We Stand

Phase 1	Phase 2	Phase 3
Integration with Remote DAM Systems • Harvest metadata • Digital inventory • Link from Primo to remote system	**Special Collections Workflows** • Staff deposit • Cloud storage in Amazon • Viewer, delivery from Primo • Ingest, bulk loaders	**Institutional Repository Workflows** • End user deposit • Maintenance jobs • APIs/SWORD • Analytics
Integrate with DAM systems (Rosetta, Digitool, Fedora, ContentDM) **EOY 2014**	Replacing 3rd party digital repositories and support for cloud storage **EOY 2015**	Replacements of institutional repositories including extended workflows coverage **EOY 2016**

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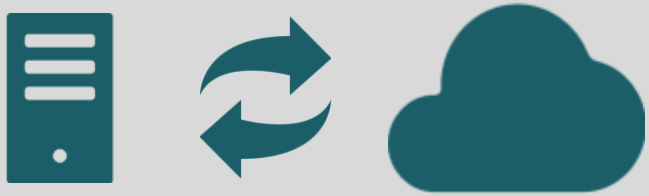
Two Flavors of Managing Digital Resources in Alma

COMPLETE

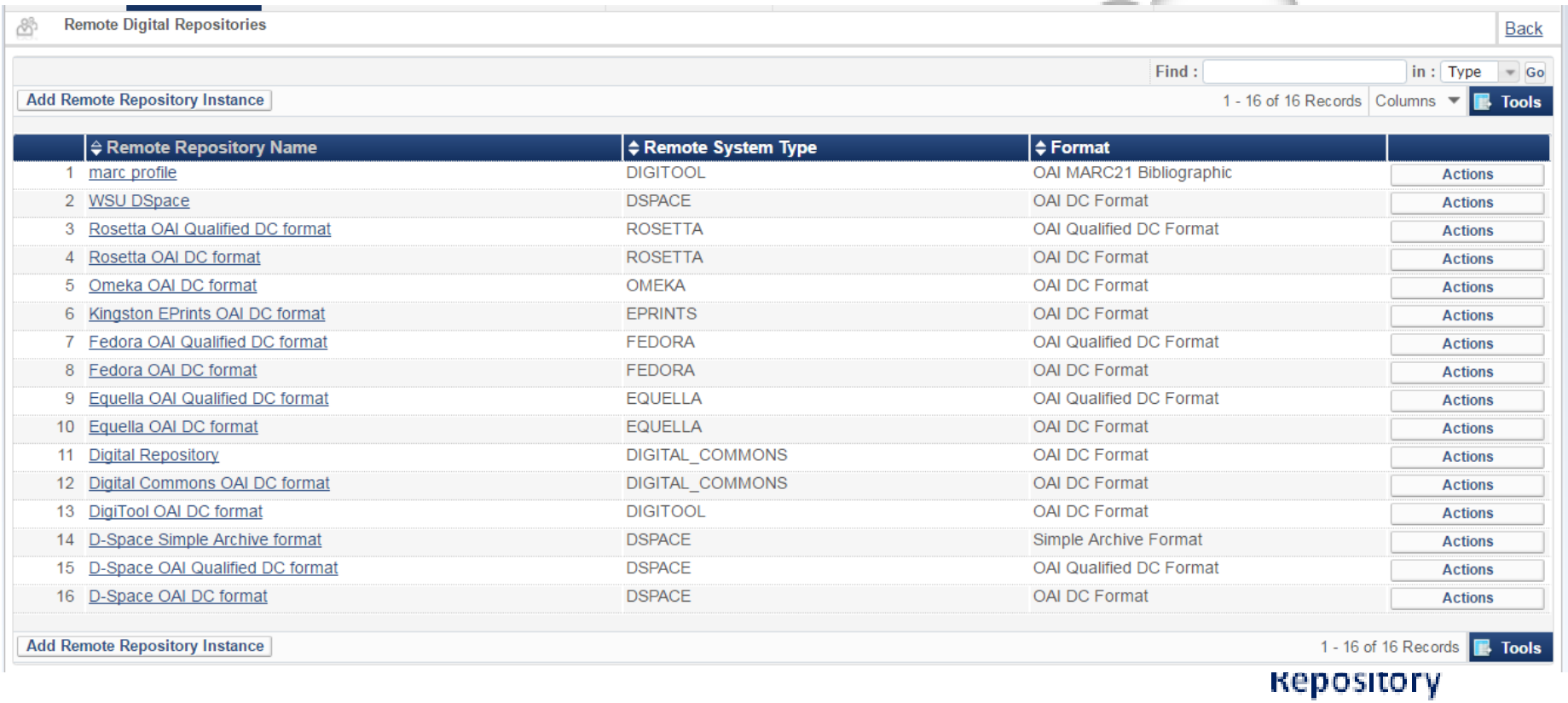
Alma provides metadata management and file storage

REMOTE

Alma manages metadata while the files are managed in another system



Remote Digital Asset Management



	Remote Repository Name	Remote System Type	Format	
1	marc profile	DIGITOOL	OAI MARC21 Bibliographic	Actions
2	WSU DSpace	DSPACE	OAI DC Format	Actions
3	Rosetta OAI Qualified DC format	ROSETTA	OAI Qualified DC Format	Actions
4	Rosetta OAI DC format	ROSETTA	OAI DC Format	Actions
5	Omeka OAI DC format	OMEKA	OAI DC Format	Actions
6	Kingston EPrints OAI DC format	EPRINTS	OAI DC Format	Actions
7	Fedora OAI Qualified DC format	FEDORA	OAI Qualified DC Format	Actions
8	Fedora OAI DC format	FEDORA	OAI DC Format	Actions
9	Equella OAI Qualified DC format	EQUELLA	OAI Qualified DC Format	Actions
10	Equella OAI DC format	EQUELLA	OAI DC Format	Actions
11	Digital Repository	DIGITAL_COMMONS	OAI DC Format	Actions
12	Digital Commons OAI DC format	DIGITAL_COMMONS	OAI DC Format	Actions
13	DigiTool OAI DC format	DIGITOOL	OAI DC Format	Actions
14	D-Space Simple Archive format	DSPACE	Simple Archive Format	Actions
15	D-Space OAI Qualified DC format	DSPACE	OAI Qualified DC Format	Actions
16	D-Space OAI DC format	DSPACE	OAI DC Format	Actions

Repository

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Key Focus Areas - 2015

Cloud Storage and Digital Inventory

Leverage Amazon S3 as cloud storage service.
Enhance inventory data model for digital resources (search, management)

Staff interfaces

One by one wizards for ad hoc staff creation of resources
bulk upload capabilities for large scale processing of digital resources

Collections

Organize library resources into hierarchical structures for ongoing management and enhanced discovery

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Cloud Storage and Digital Inventory – Amazon S3

Infrastructure

Leverage Amazon for storage and bandwidth – doesn't affect core Ex Libris services and data centers

Trusted Brand

Digital content *is* the asset- storage in a trusted repository with 99.999999999% durability

Security

Utilize Amazon's security infrastructure to provide data silos and ensure secure access

Third Party Tools

There are many third party tools which integrate with Amazon's storage service, providing institutions with direct access to their resources

Global distribution

Amazon S3 is available globally in multiple AWS regions, allowing fast access and compliance with data residency requirements

Cost Effective

Storage is a commodity and prices are coming down. Storage and bandwidth costs are cheaper than private cloud

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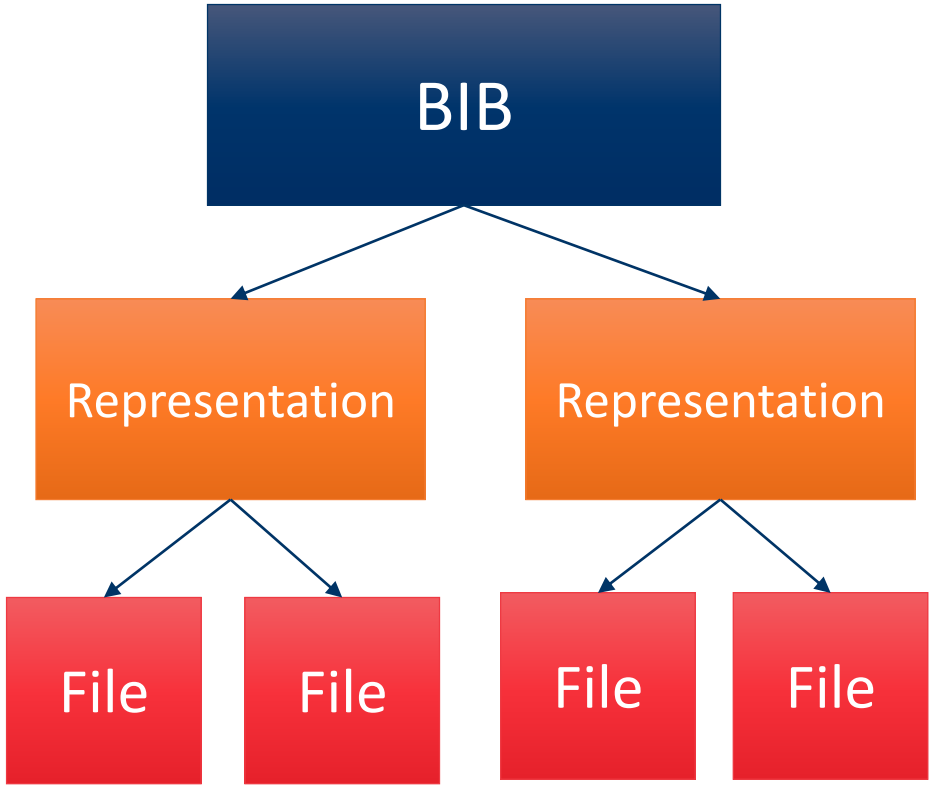
Digital Inventory Model

- Digital content managed in Alma
- Bibliographic metadata managed in Alma
- Files stored in Alma cloud
- Delivery links provided in “view it”



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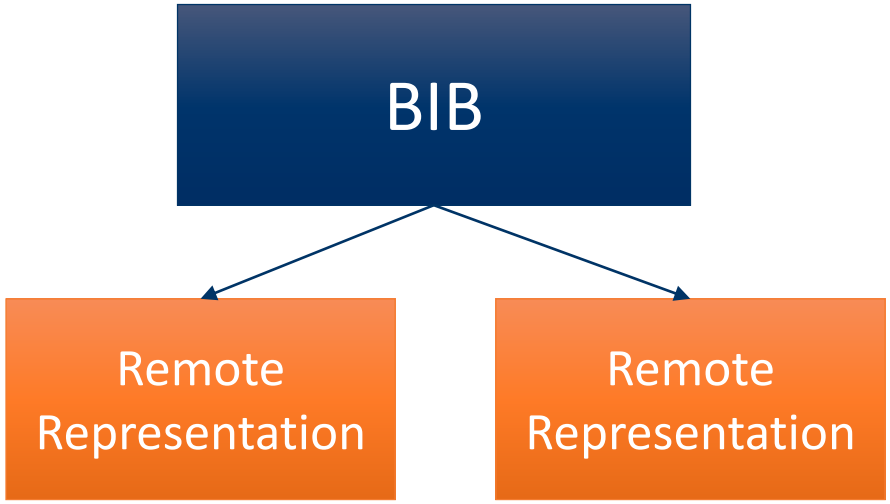
Digital Inventory Model - Remote

- Digital content managed in external system
- Bibliographic metadata managed in Alma
- Alma maintains links to remote materials
- Delivery links provided in “view it”



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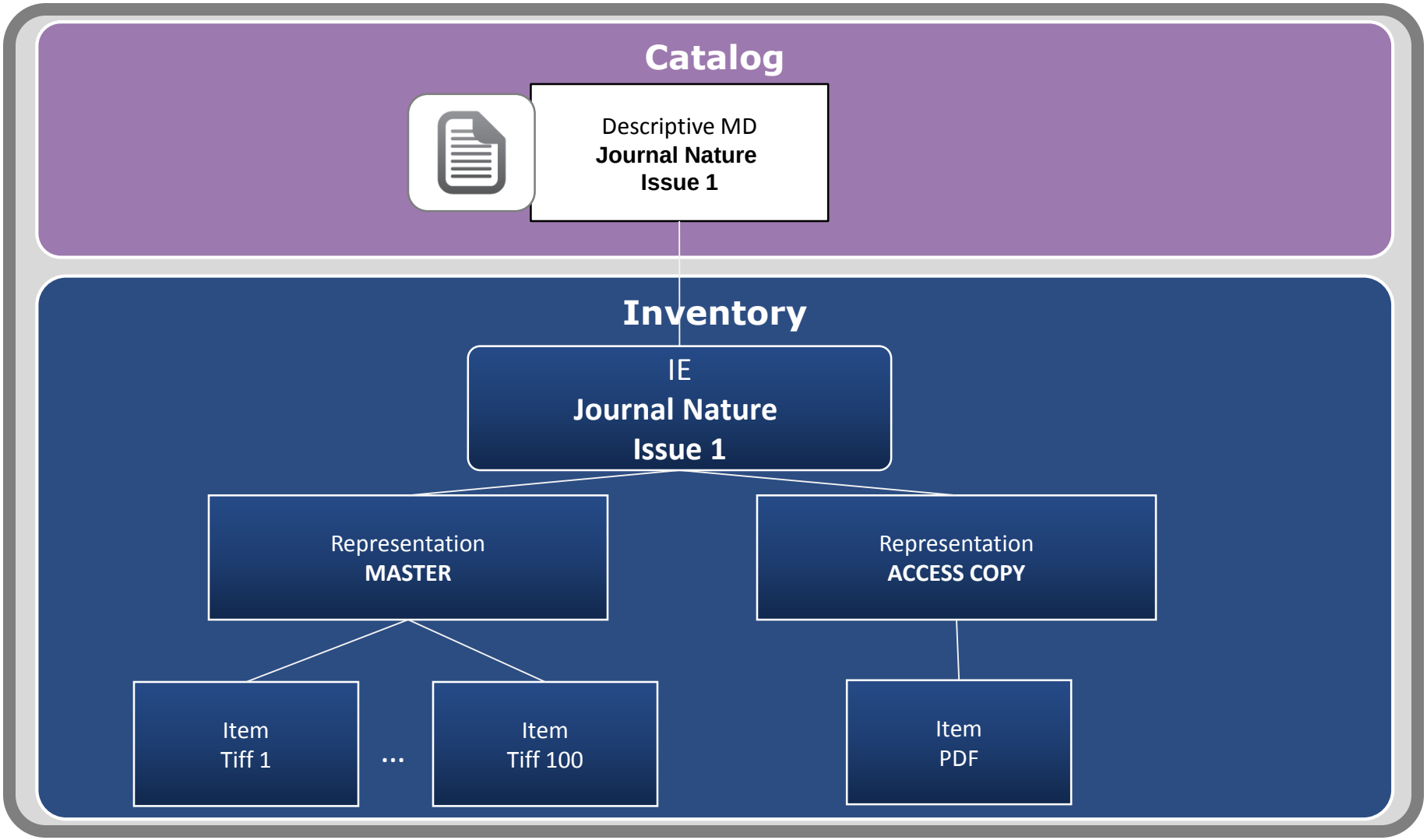
Digital Inventory Model - Example



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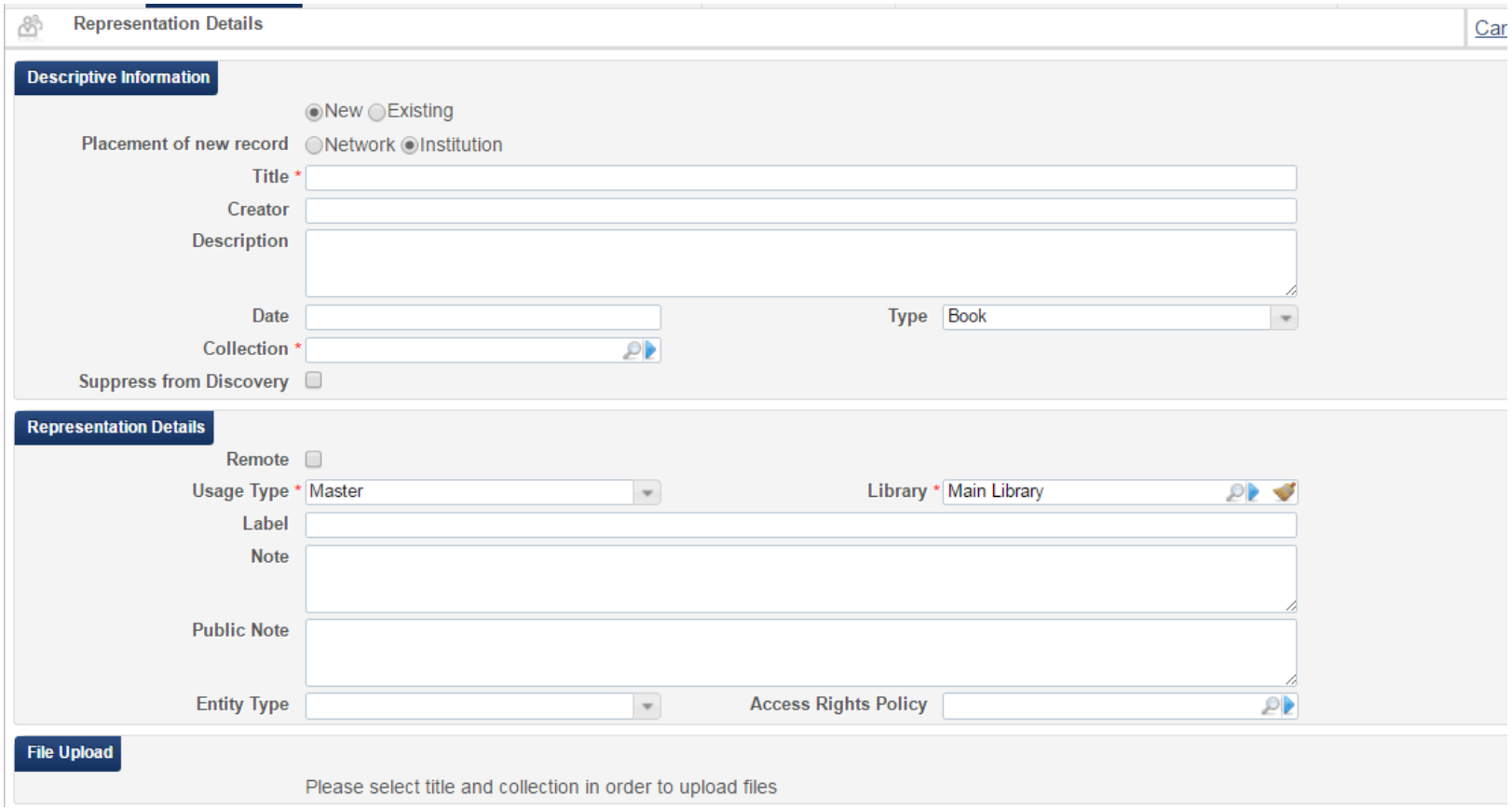
Staff Interfaces – One by One

- Quick and easy creation of digital representations
- Single Representation, Multiple Files
- New or Existing Title



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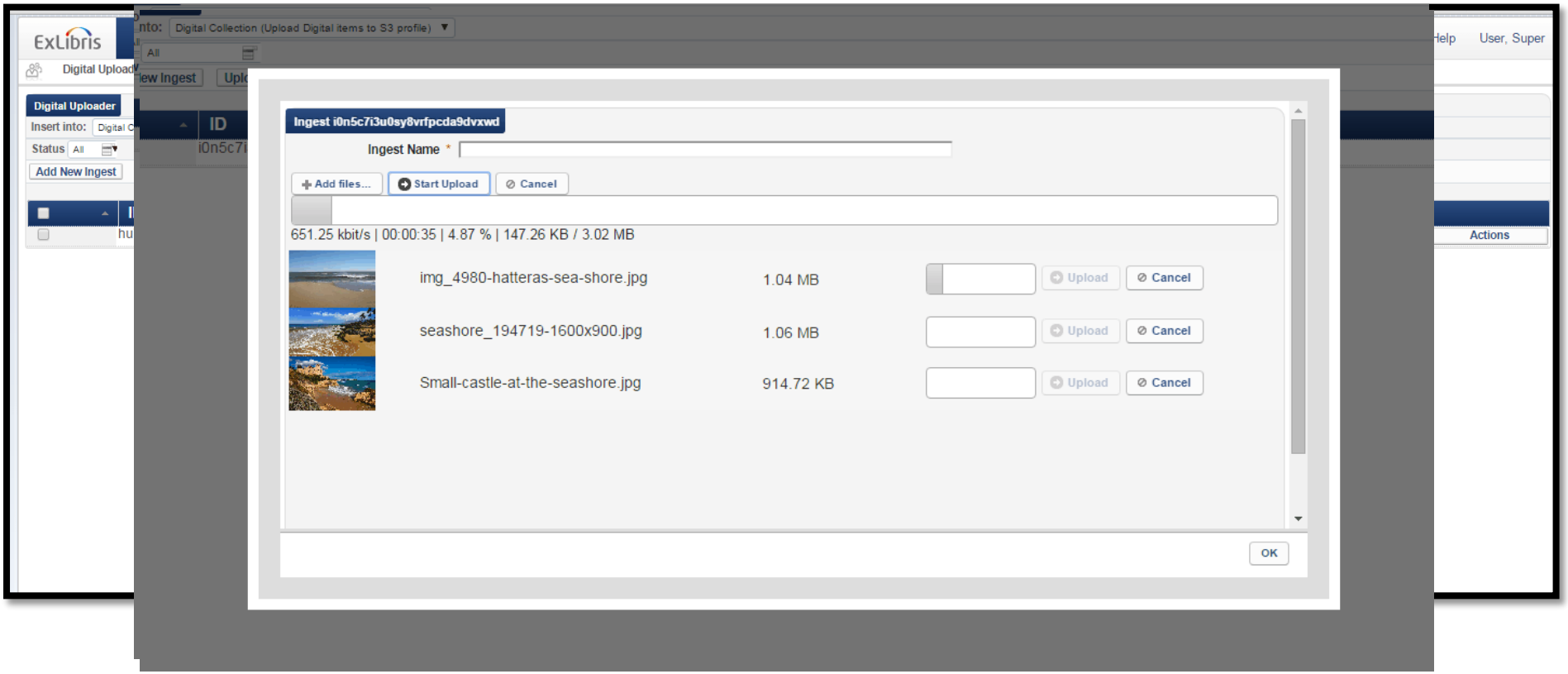
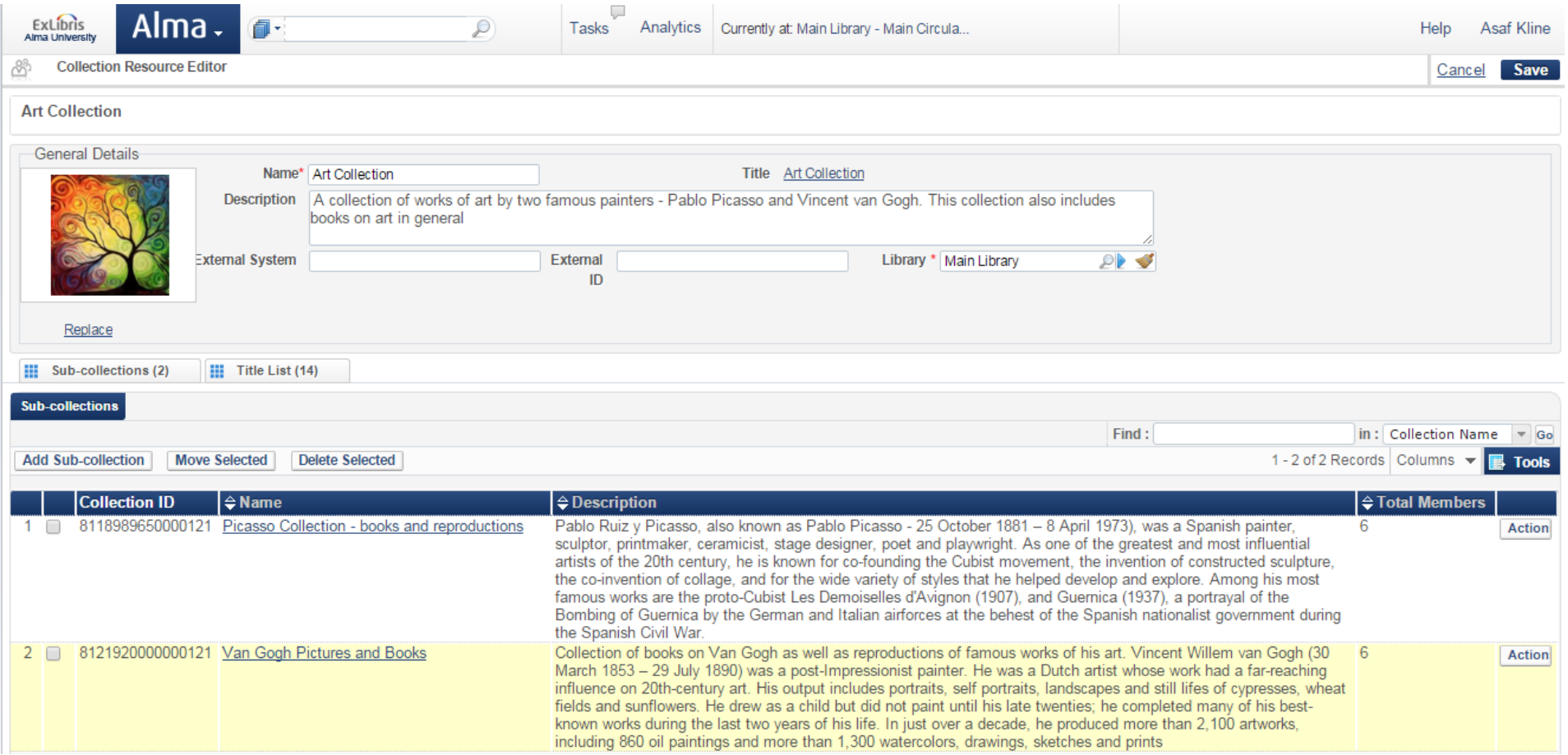
Staff Interfaces – Bulk

- Geared for larger sized uploads
- Any supported import format (CSV, MARC, DC)
- Multiple Title, Representations



Collections

All Digital resources are organized around collections



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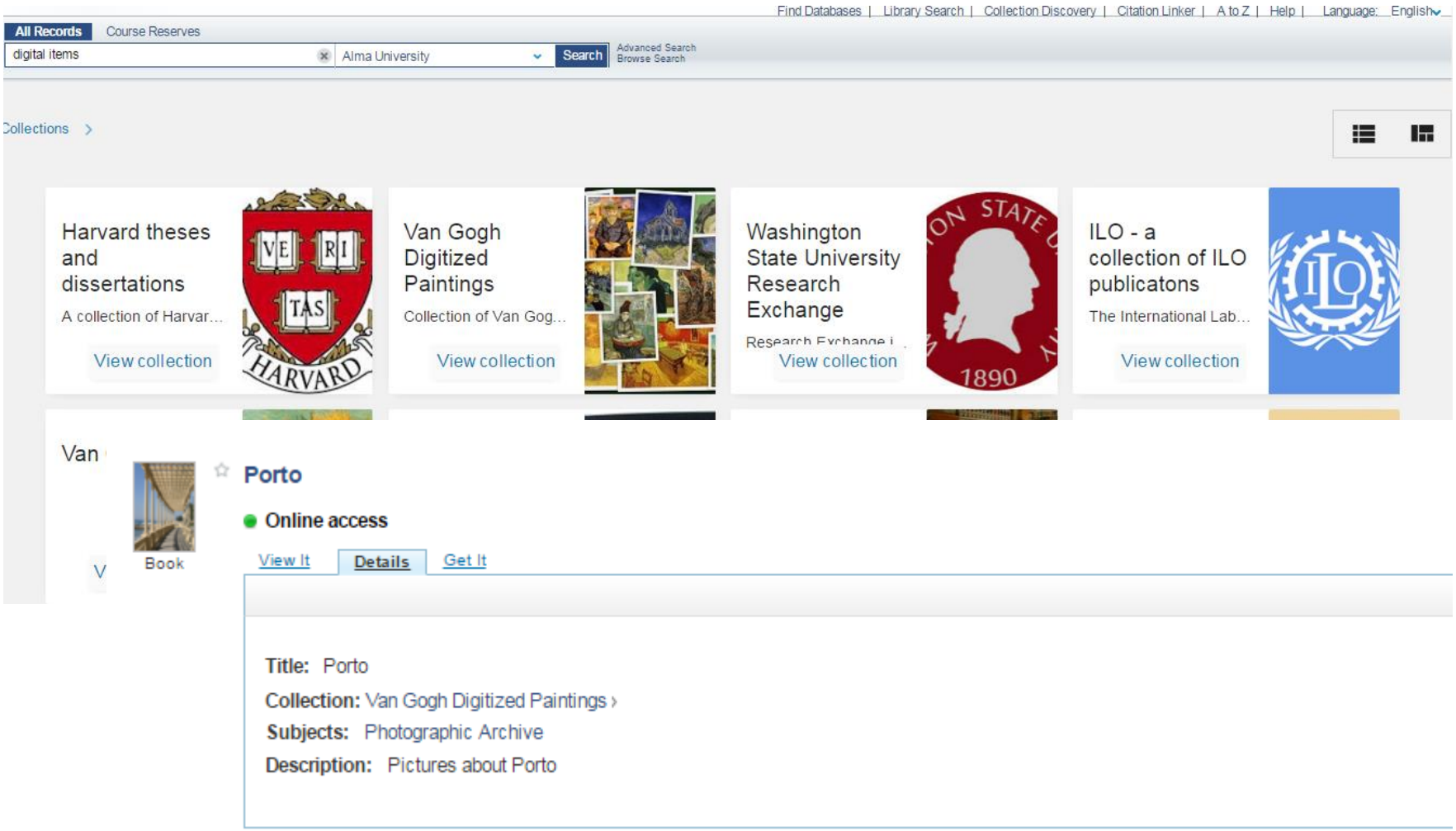
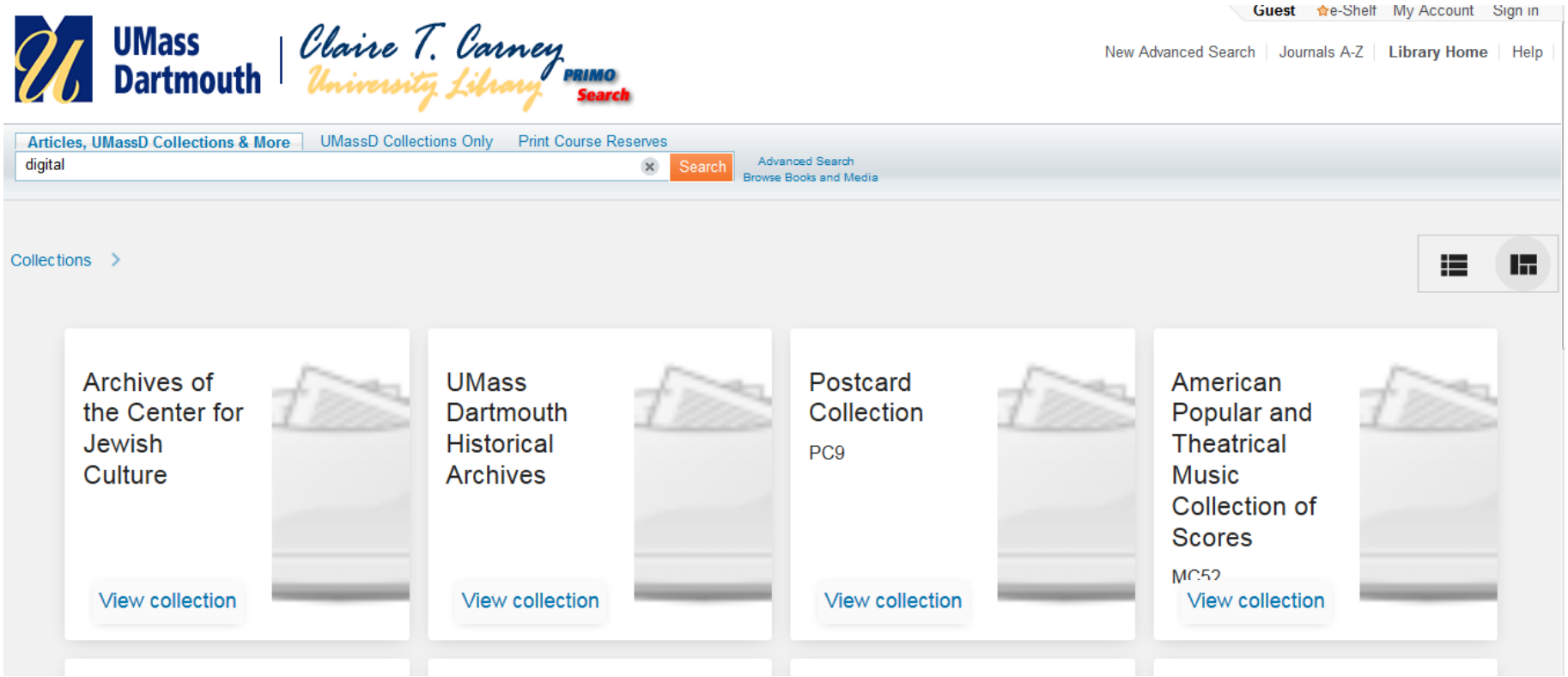
Collections

- Provides a different end user access to your collections



Customer Example – UMass Dartmouth

- Ex Libris and UMass Dartmouth have been collaborating on moving some of their existing digital collections to Alma and Primo
- Managed in various systems (e.g. Omeka)



An Opportunity

Integrated workflows

Easy ‘onboarding’

Leverage existing staff core capabilities

Low TCO

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Key Focus Areas - 2016

Dublin Core

Special Representations

Bulk Management

End User Deposit

Dublin Core

Metadata Management	Import	Export
• Enhanced editing capabilities • “Quick Cataloging” • Normalization	• Dublin Core as a ‘target’ format for import • Load as is or crosswalk from CSV	• Publishing • Z39.50/SRU • Ad-hoc Export

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Dublin Core

Profile Details

Profile	Qualified Dublin Core	Family	DCMI
Type	Bibliographic	Usage	BIB_MMS

Fields | Normalization Processes | Validation Processes | Validation Exception Profile List

Find :

1 2 3 Go 1 - 20 of 105

	Field	Encoding Schema	Description
1	dc:title	-	Title
2	dc:subject	-	Subject
3	dc:subject	dcterms:LCSH	Subject LCSH
4	dc:subject	dcterms:MESH	Subject MESH
5	dc:subject	dcterms:DDC	Subject DDC
6	dc:subject	dcterms:LCC	Subject LCC
7	dc:subject	dcterms:UDC	Subject UDC
8	dc:description	-	Description
9	dc:date	-	Date
10	dc:type	-	Type
11	dc:type	dcterms:DCMIType	Type DCMI
12	dc:format	-	Format
13	dc:format	dcterms:IMT	Format IMT
14	dc:identifier	-	Identifier
15	dc:identifier	dcterms:URI	Identifier URI

	Profile	Family	Type
1	MARC21 Authority	MARC21	Authority
2	MARC21 Bibliographic	MARC21	Bibliographic
3	MARC21 Holding	MARC21	Holding
4	Qualified Dublin Core	DCMI	Bibliographic

Special Representations

- Alma supports additional cataloging on the representation level to denote enum/chron and descriptive metadata that describes the content of the representation.
- A representation requiring special cataloging will have an Entity Type according to the following:
  - (Journal) Issue
  - Article
  - (Book) Chapter
  - Audiovisual

Journal Issue	Chapter	Article	Audiovisual
-	Author	Author	Creator
-	Title	Title	Title
-	Number	-	Track
Volume	-	Volume	-
Issue	-	Issue	-
Date	-	Date	-
-	Start	Start	Start
-	End	End	End

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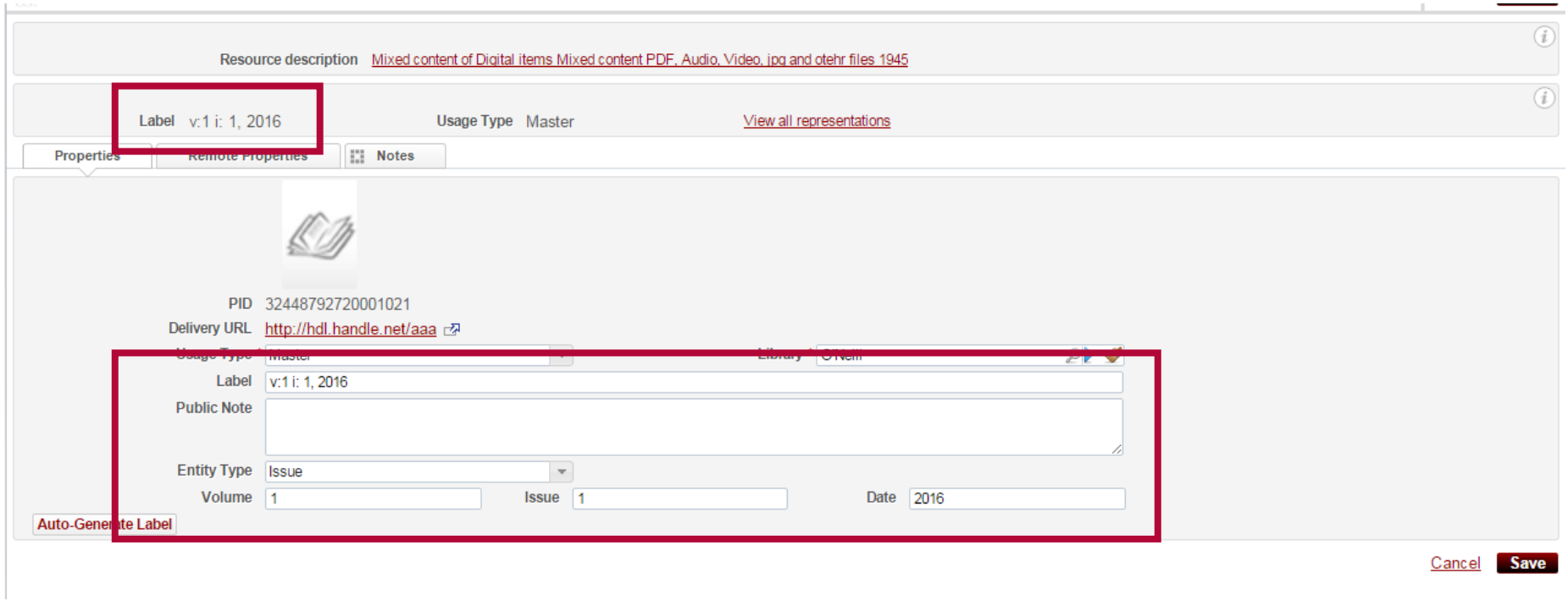
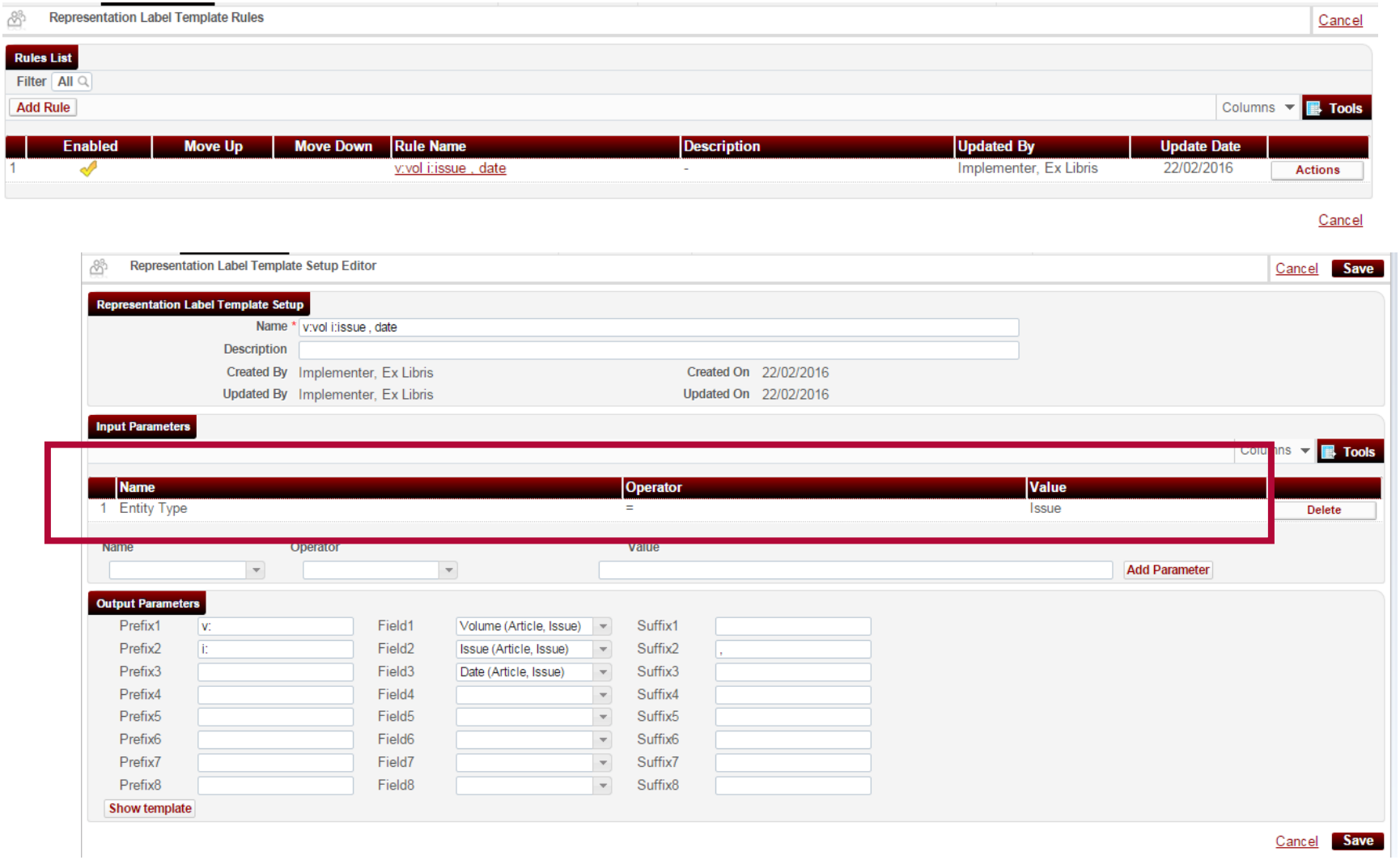
Special Representations

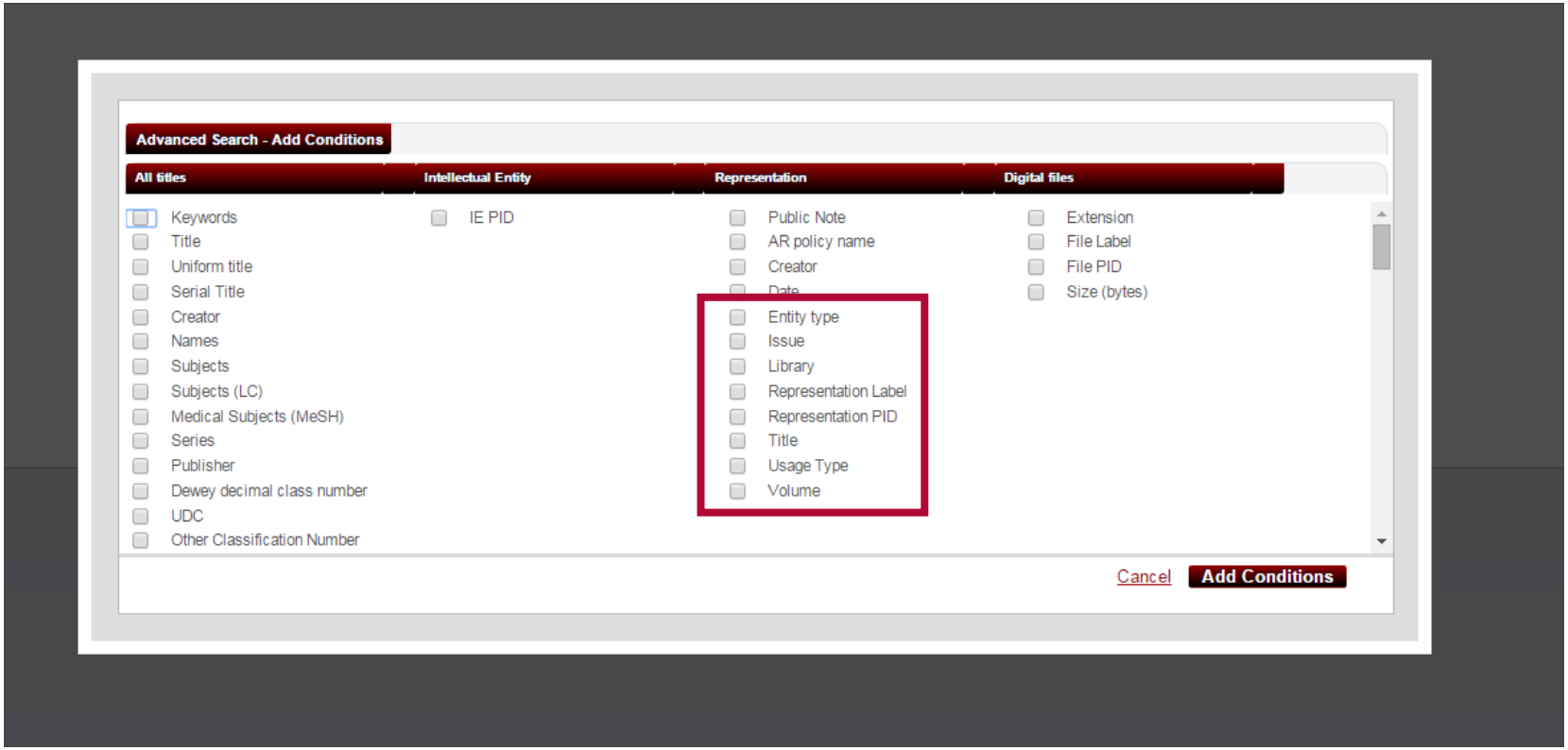


Special Representations



Special Representations

- Extended data model can also be used in staff search



Special Representations

- Creation and management of Representations with additional enum/chron and descriptive data can be done via APIs
- The ViewIt has been enhanced to better present special representation data
  - Sort
  - Search
  - Title level descriptive data

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Bulk Management

- Provide capabilities for performing ongoing batch changes and operations
  - Export
  - Global changes (Metadata and Inventory)
  - Collection tree export as EAD
- A full set of Digital Inventory APIs will support custom services

Digital Representations

Method	Description
GET /almaws/v1/bibs/{mms_id}/representations	Retrieve Representations
POST /almaws/v1/bibs/{mms_id}/representations	Create Representation
GET /almaws/v1/bibs/{mms_id}/representations/{rep_id}	Retrieve Representation Details
PUT /almaws/v1/bibs/{mms_id}/representations/{rep_id}	Updates Representation
DELETE /almaws/v1/bibs/{mms_id}/representations/{rep_id}	Delete Representation
GET /almaws/v1/bibs/{mms_id}/representations/{rep_id}/files	Retrieve Representation Files' Details

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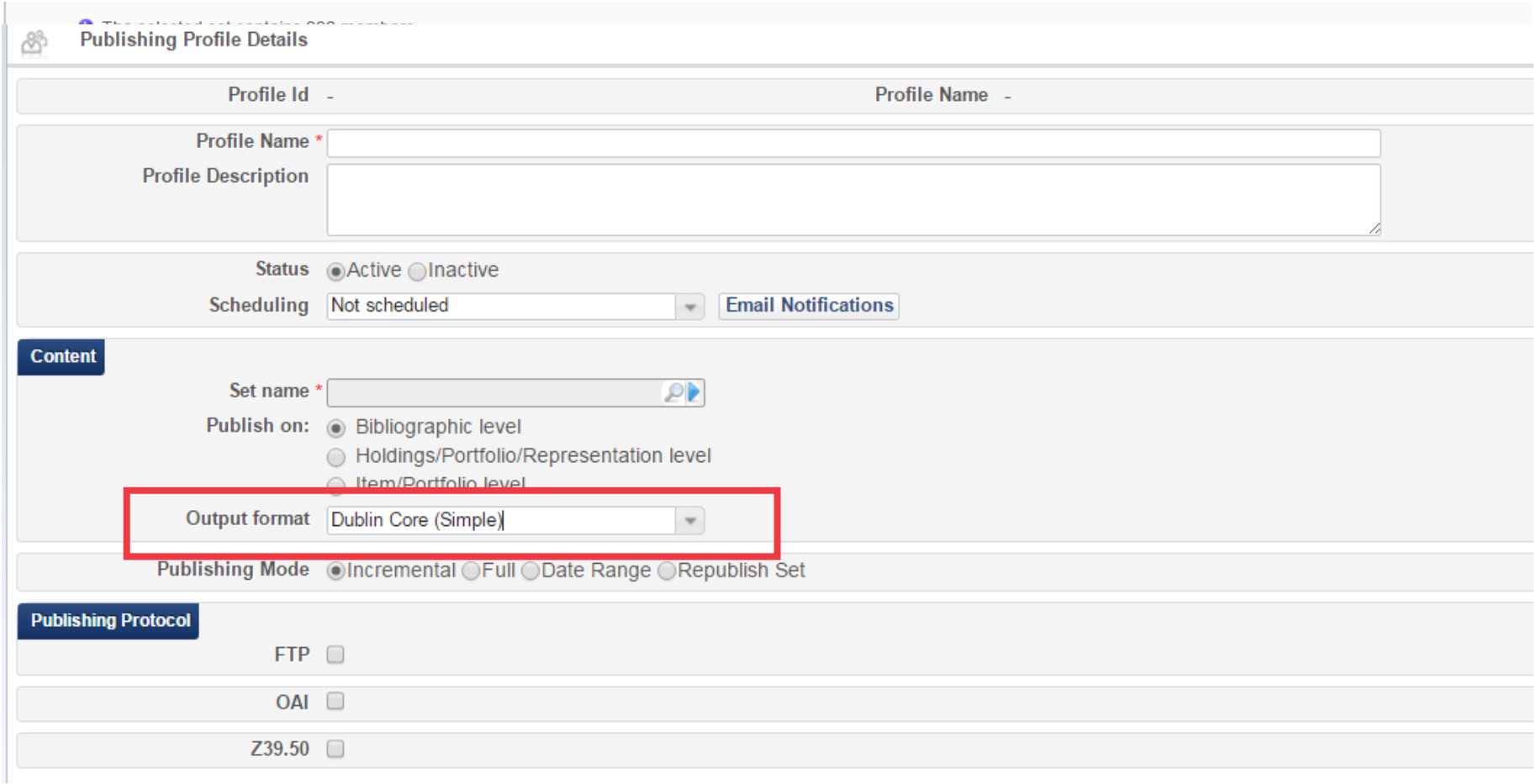
Bulk Management



End User Deposit

Approval Workflow

- Submitted material may require staff mediation
- Approve, Decline, Modify
- Based on Deposit 'Profiles'

SWORD

- Well known standard
- Custom deposit applications
- Freely available SWORD code libraries

Deposit "Widget"

- Built in End User UI
- Quick submission of descriptive data and files

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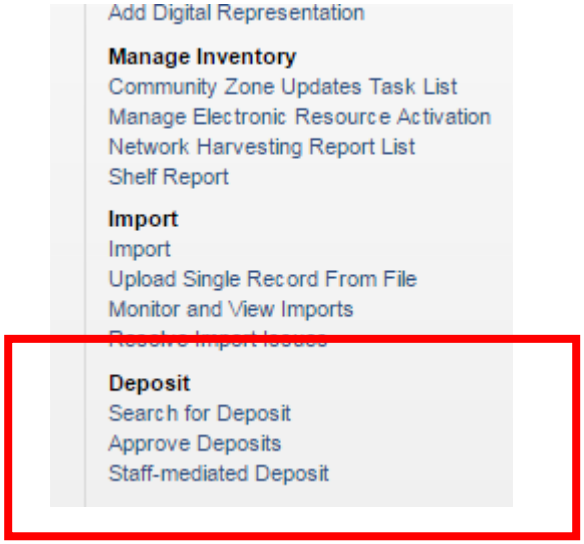
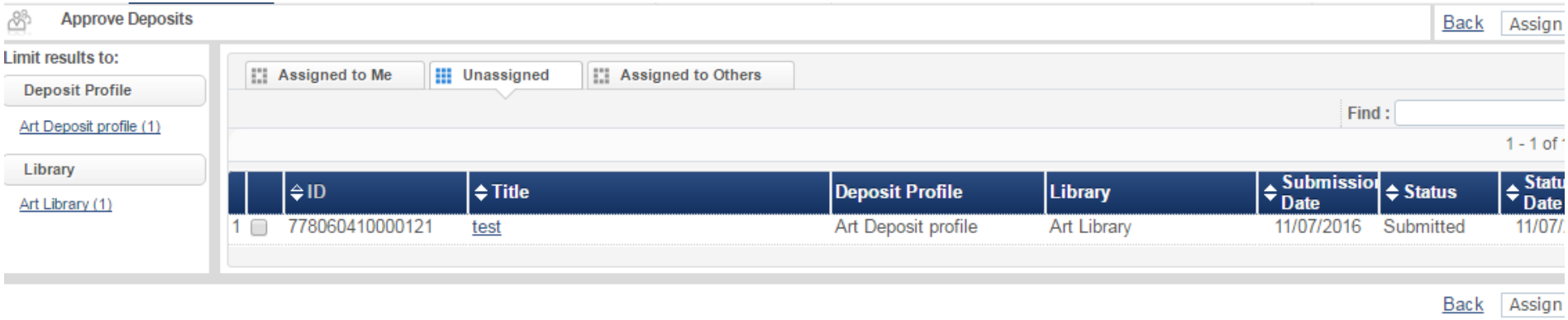
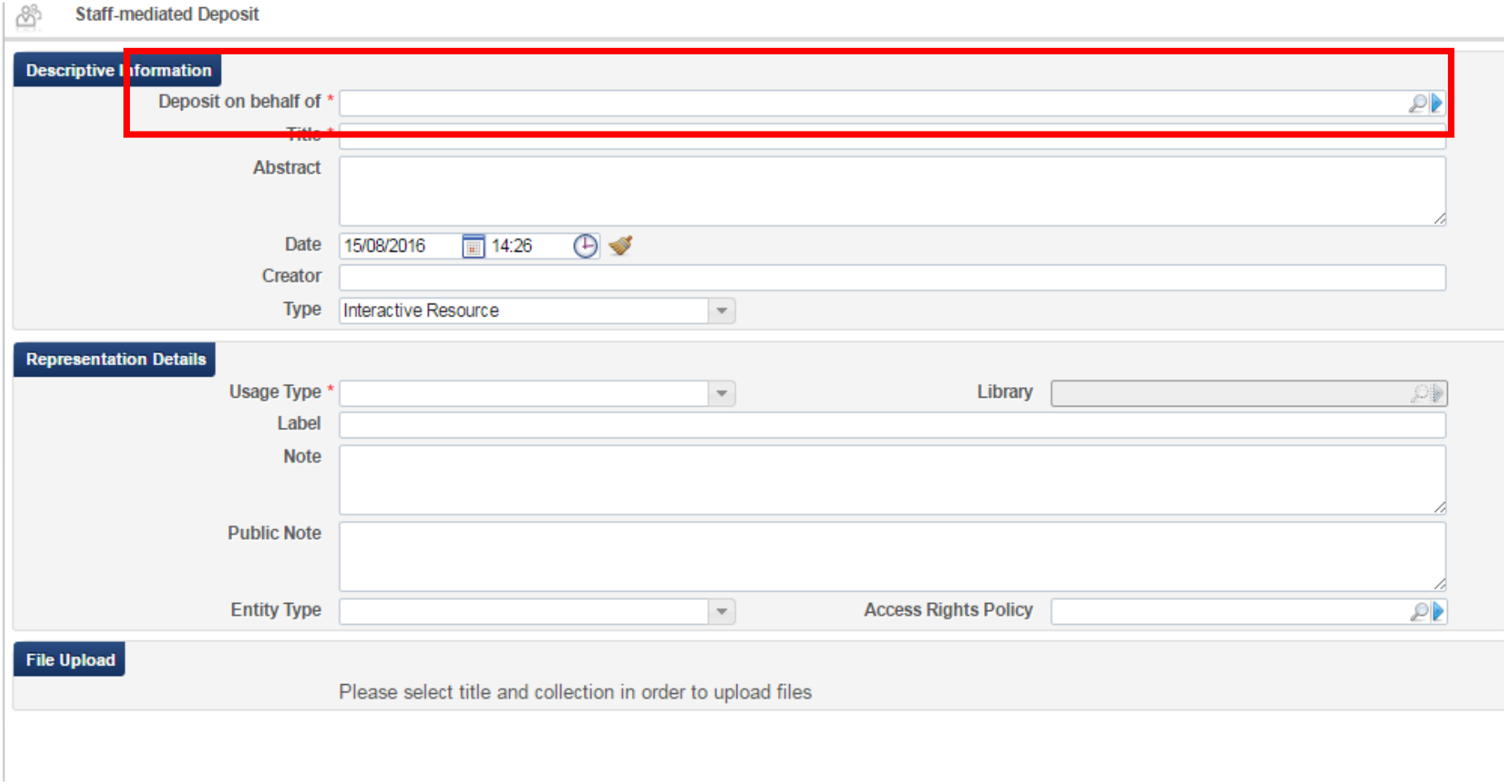
End User Deposit

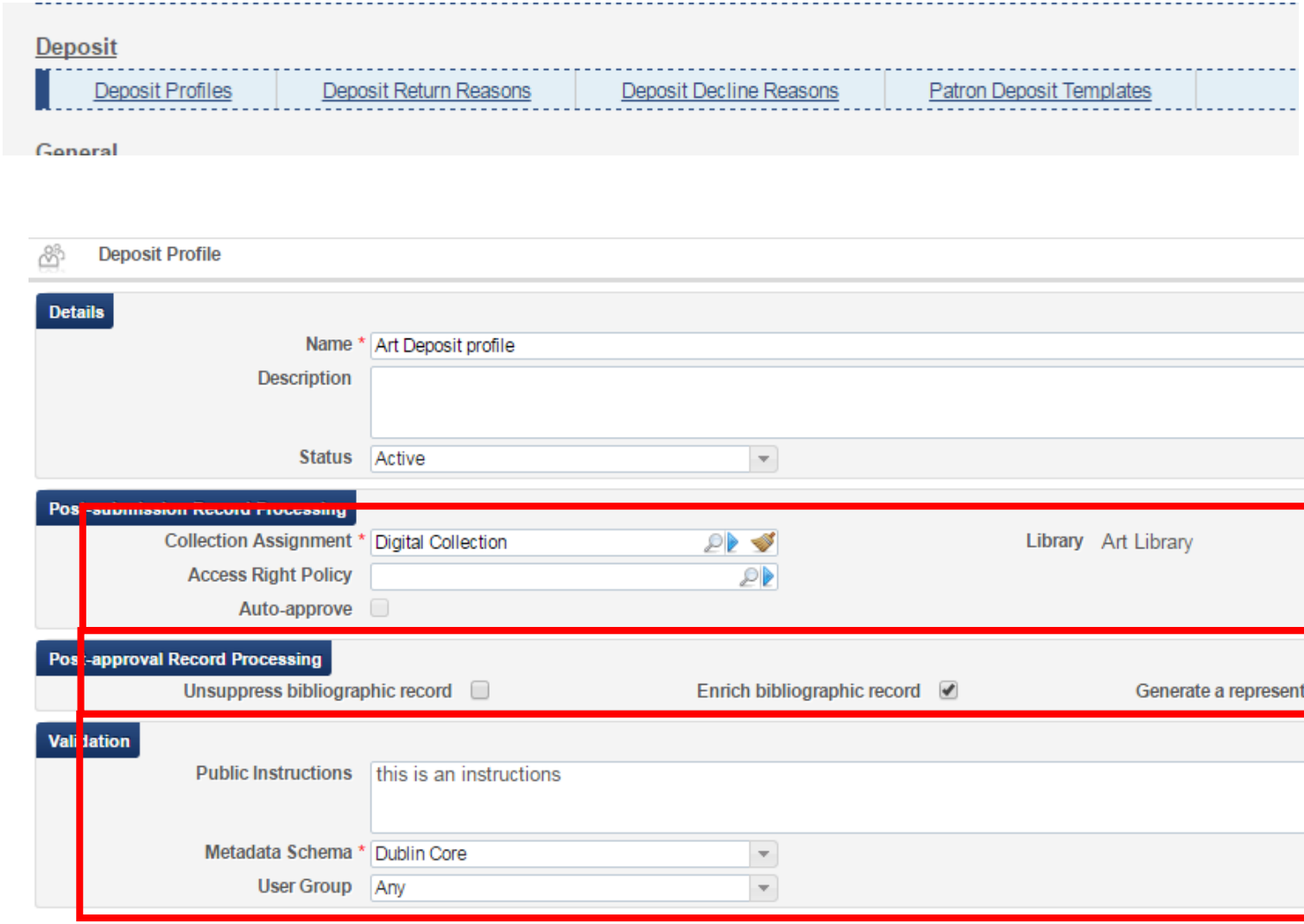




End User Deposit



End User Deposit



Extensibility and Open Platform

- Expose collections and digital resources in 3rd party systems
  - Institutional / Library Portal
  - Custom collection-specific web presence
- Bulk ingest from digitization
  - Direct access to Amazon Web Services
  - API-based execution of MD Import
- Custom viewers for special content types
  - REST APIs to retrieve files with signed links
- End User Deposit
  - Support for SWORD deposit standard
  - REST APIs for digital representations

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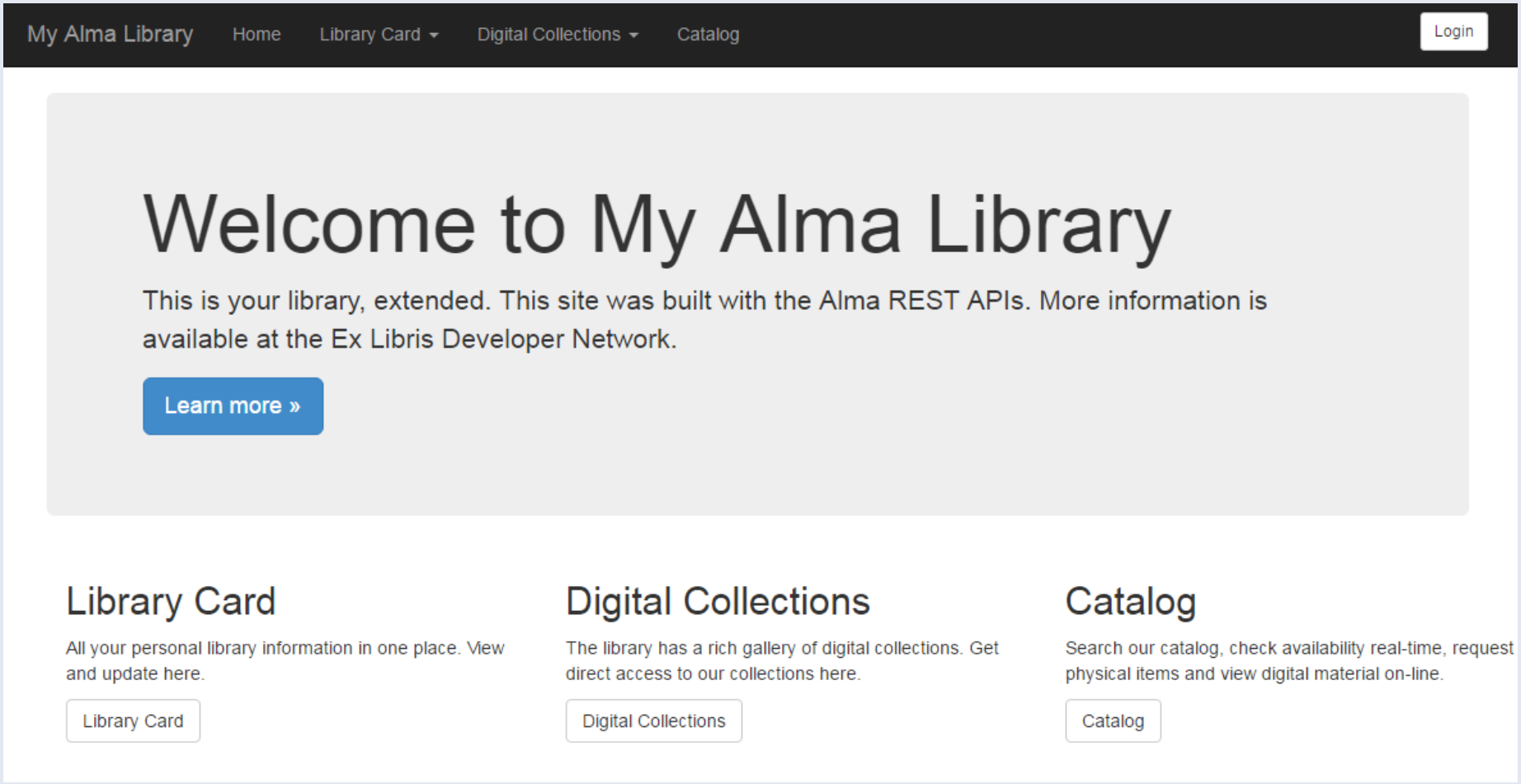
Extensibility and Open Platform – End User Deposit



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Use Case #1

"We have an existing CONTENTdm installation that holds our Special Collection images files"

- ✓ Manage Digital Resources in Alma
- ✓ Collection management in Alma
- ✓ Collection discovery in Primo

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Use Case #2

"We have an existing FEDORA repository that has custom interfaces supporting special content (digitized newspapers with OCR)"

✓ Alma Remote Repository Integration

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Use Case #3

"We have are thinking of establishing an Institutional Repository, initially focused on ETD, but will eventually also engage with faculty for receipt of publications and articles"

- ✓ Manage Digital Resources in Alma
- ✓ Custom deposit via SWORD
- ✓ Built-in deposit via End User UI

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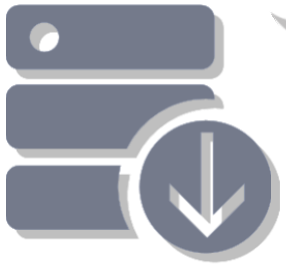
Migration (How Do We Get Them There)

Step 1

Export Data from Existing System

Files
OAI-PMH



Step 2

Import Data to Alma

Digital Uploader
Amazon 3rd Party Utilities

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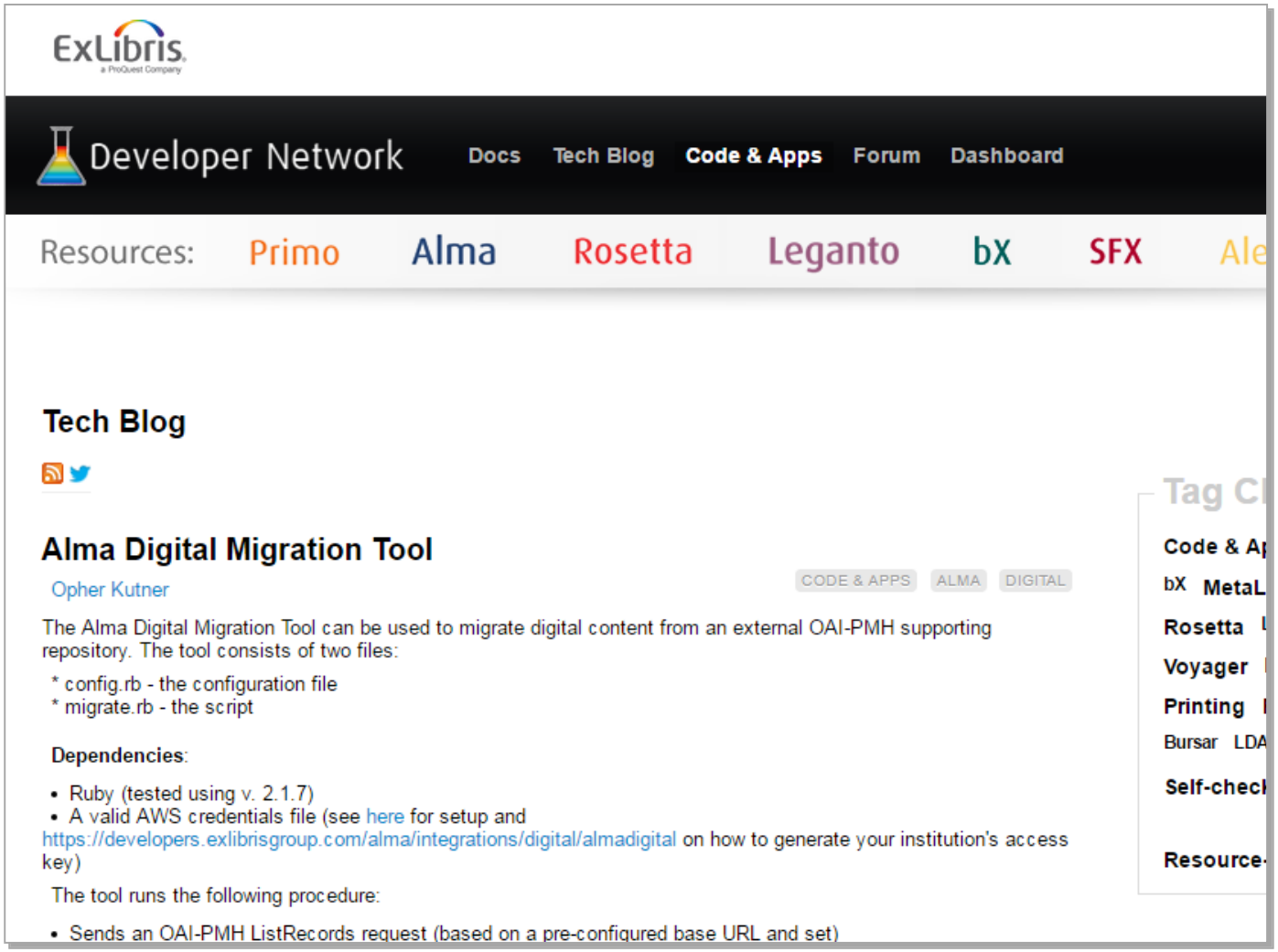
Where Can I Find More Information

https://developers.exlibrisgroup.com/blog/Alma-Digital-Migration-Tool



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