

Rosetta Product Update

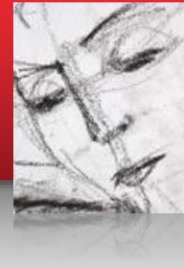
ELUNA 2017

ExLibris
Rosetta

Adi Alter, Director of Product Management, Digital Solutions

What is Rosetta ?

Rosetta is a complete **digital asset management** and **digital preservation** solution managing the **full life-cycle of any type of content** from **deposit to delivery**



Status Update



Growing Number of Institutions Across all Regions



Serving more than 250 Institutions
from 17 Countries

Main Focus Areas Since Last ELUNA



1

Enhance Core
Functionalities



2

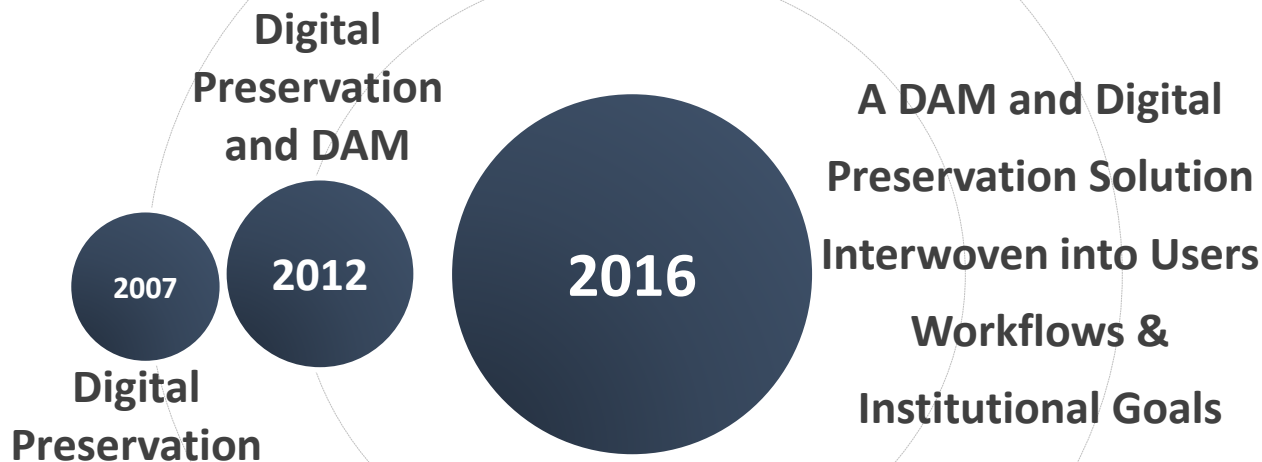
Increase Synergy
with Other Ex
Libris Products



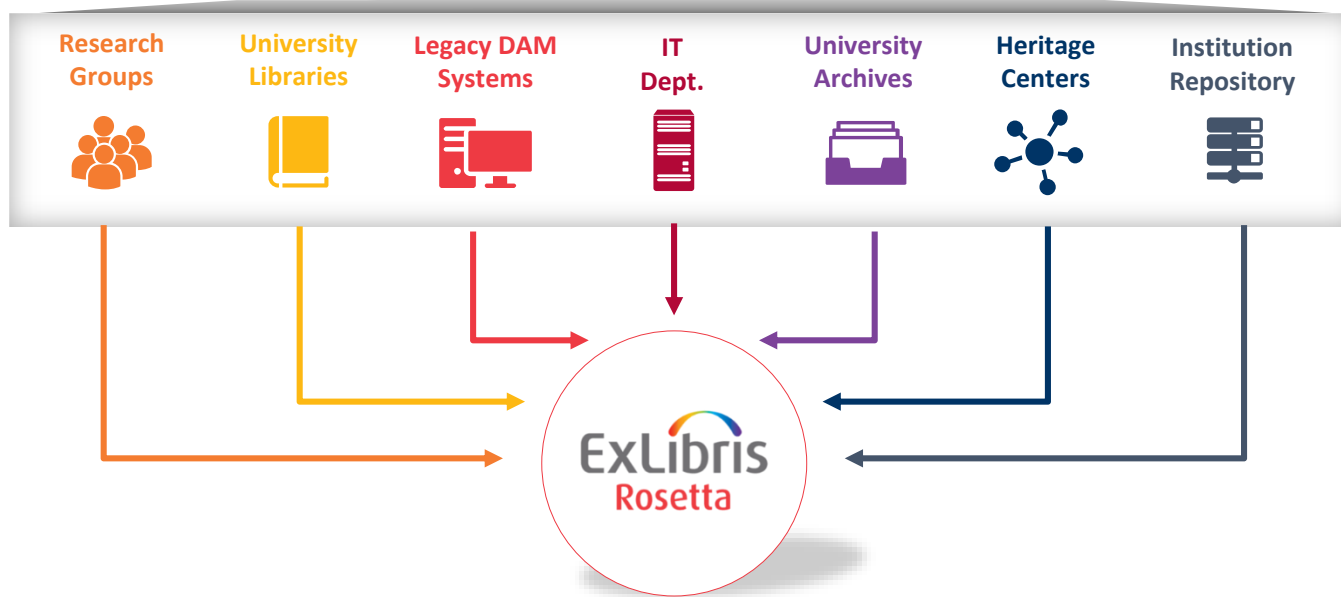
3

Streamline the
Implementation
Process

From a Point Solution to an Integrated Solution



Enabling Rosetta to Serve as the Institutional Digital Repository Backbone



Rosetta as the Institutional Digital Repository Backbone

Enhance Core Functionalities



Digital Asset Management



Content Delivery



Data Management



Collection Management



Preservation



Community-Driven Knowledge Base



Content Migration



Preservation Standards Support



Infrastructure



User Experience



Security



Performance & Scalability

Versions 5.1 Highlights – September 2016



Digital Asset Management

SIP Deposit Prioritization

Improved Deposit Management

Enhanced Search – ‘Not’ Operator Support and Smart Search

Collection Ordering and History

Improved Collection Management

New Graphical XML Editor

Derivative Copies Publishing and Creation

New HTML5 Viewers

Enhanced Viewers Customization



Preservation

Create a Preservation Plan for more than One Source Format

Share Technical Analyst Rules Between Institutions

File Comparison Plug-in

Consistency Checks

Validation Stack Enhancements - SHA-256 Fixity, Virus Check Exit Codes and Automatic Rules



Infrastructure

Update Software Stack - Tomcat, PDS, Aurigma Uploader

New User Interface

Performance Improvements

Enhanced Indexing

New APIs

Versions 5.2 Highlights – February 2017



Digital Asset Management

Alma Digital Inventory' Repository Tasks

Alma Digitization Submission Application

Access Rights Check for Remote Repositories

OAI-PMH Harvester Test UI

Improved TA Workbench and TA Error Visibility

Submission Job Reports

Search and SRU Improvements

Delete Derivative Copy Representation Task

Full Text Viewer Pre-Processor (VPP)



Preservation

Deposit Content using BagIt 'Bags'

Retaining Timestamps for Digital Content Uploaded to Rosetta

Storage Migration

Indexing Support for Long Fields

Access Rights Policies Audit Trail



Infrastructure

SAML / Local Authentication

Improved User Experience

Performance Improvements

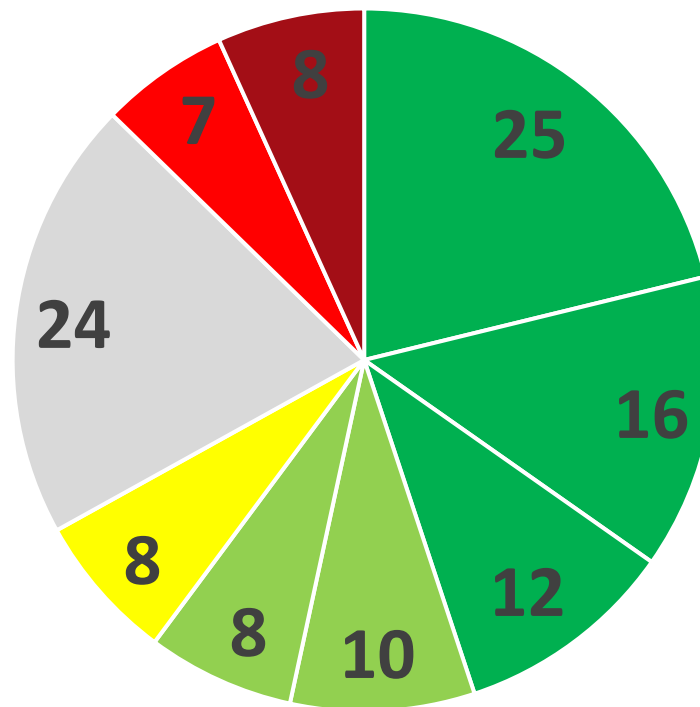
Enhanced Clean-Up Jobs

Enhanced Collaboration with the Rosetta User Group



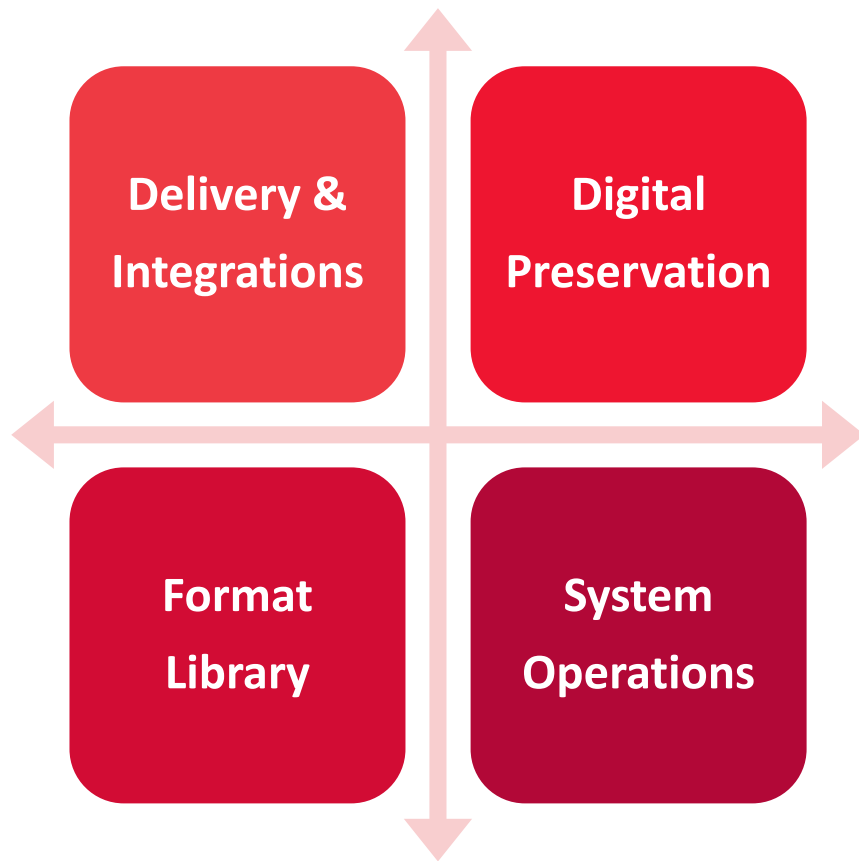
Status of Work

- Implemented - V 4.X
- Implemented - V 5.0.X
- Implemented - V 5.1
- Implemented - V 5.2
- Planned - V 5.3 & 5.4
- Planned - Future Versions
- Pending
- Obsolete
- Deferred



Total	118	
Implemented	63	53%
Implemented by the end of 2017	71	60%

Newly Formed RUG Working Groups



Main Focus Areas Since Last ELUNA



Enhance Core
Functionalities

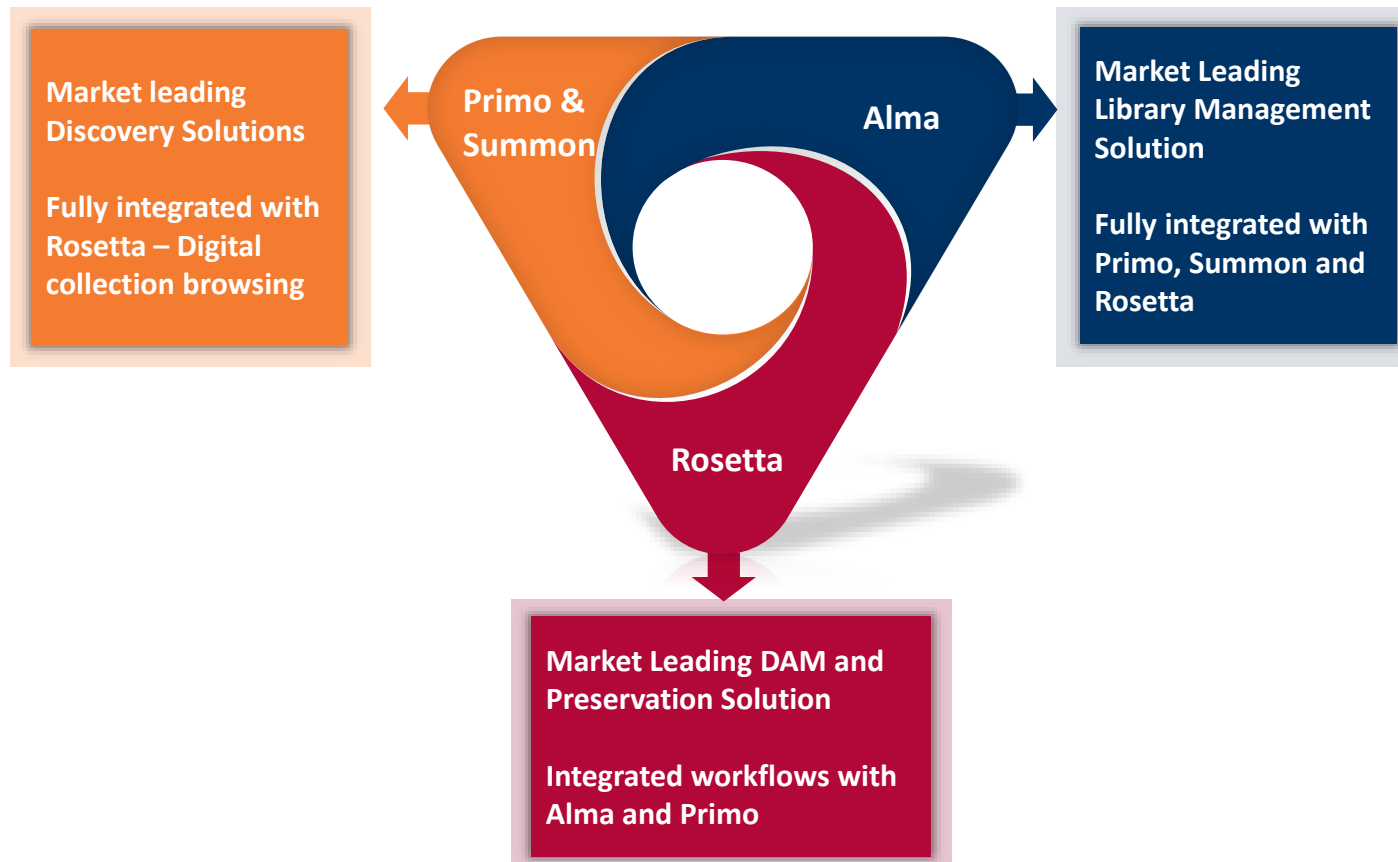


Increase Synergy
with Other Ex
Libris Products

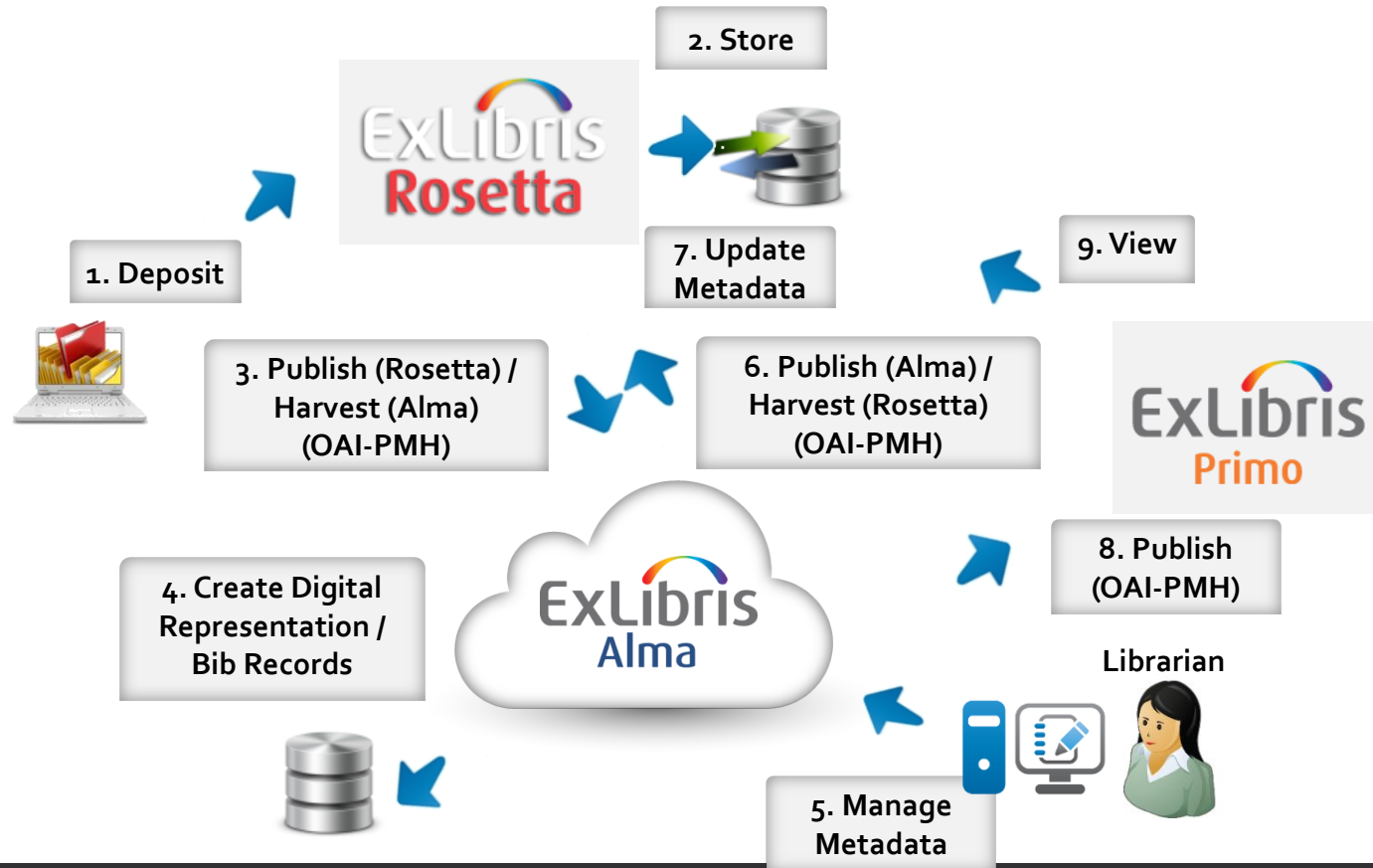


Streamline the
Implementation
Process


The Power of the Best of Class Suite Approach



Workflow I: Two-Way Metadata Synchronization Using OAI-PMH



The Metadata in Alma and Rosetta

1  [The Potato Eaters](#)
Book {Book - Physical} (1885)
Subject: event Record number: oai:rosetta.exlibrisgroup.com:IE46890
Collections: [Van Gogh Digitized Paintings](#)
Availability: [Digital version](#) (from [Rosetta Repository](#)) of type Master

[Edit](#) | [Order](#) | [Request](#) | [Resource sharing request](#) | [Document Delivery](#) | [Add to reading list](#)

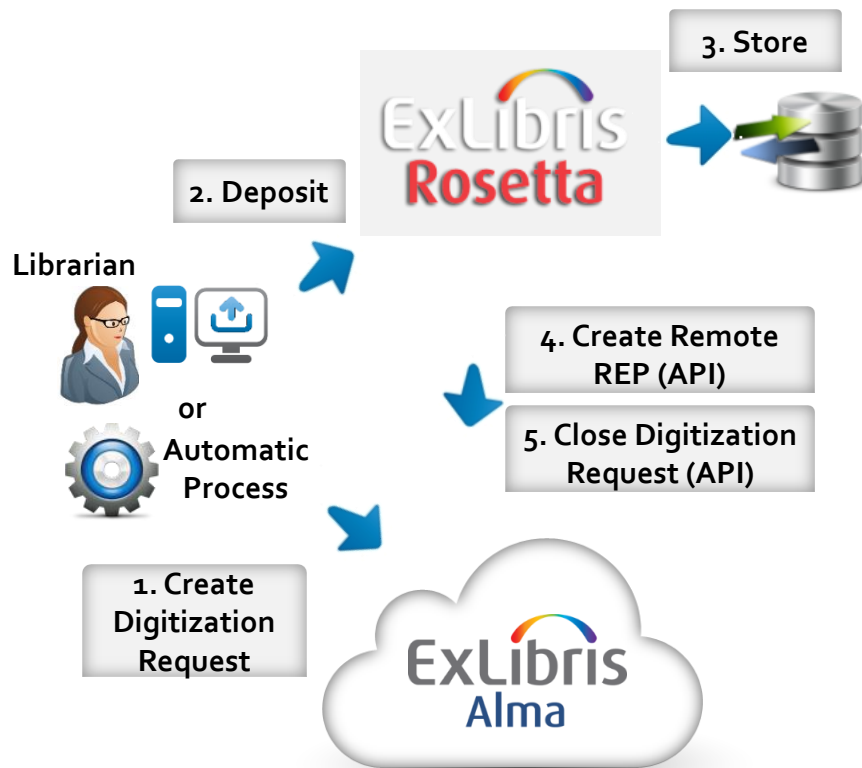
MARC Record in Alma

LDR 02593 am 22001693u 4500
001 99130008400121
005 20160621144854.0
024 8_ |a oai:d4l1-pubam:IE46890
024 8_ |a alma_99117009500191
024 8_ |a http://rosetta.exlibrisgroup.com:1801/delivery/DeliveryManagerServlet?dps_pid=IE46890
035 __ |a oai:rosetta.exlibrisgroup.com:IE46890
042 __ |a dc
245 00 |a The Potato Eaters
260 __ |c 1885

DC Record in Rosetta

MID	42906	Metadata Type	descriptive:dc	Description	The Potato Eaters (Dutch: D
Created by	admin1	Creation Date	11/11/2013 09:20:50		
Updated by	Victoria Holmes	Update Date	11/12/2016 22:54:50		
Tag	Qualifier	Data			
Title		The Potato Eaters			
Creator		Vincent Willem van Gogh			
Type		text			

Workflow II: Digitization Requests' Processing



Digitization Request Fulfillment

< All Titles (1 - 1 of 1) Pakistani women : pakistani feminists

Save Query

Institution


Community

1 - 1 of 1

Search

Export

1



Pakistani women : pakistani feminists, women's rights in pakistan, aafia siddiqui, women in.

Book (Book - Physical) text; unmediated; volume

By Wikipedia, Source. ([Place of publication not identified] : University-Press Org 2013.)

Subject: Pakistan and women's rights Womens' rights

Language: English

ISBN: 1230580697 and others

Record number: (OCoLC)867836167

Orders: 2

Edit Record


Holdings

...

Physical (1)

Electronic

1



Pakistani women : pakistani feminists, women's rights in pakistan, aafia siddiqui, women in.

Book (Book - Physical) text; unmediated; volume

By Wikipedia, Source. ([Place of publication not identified] : University-Press Org 2013.)

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Orders: 2

Physical (1)


Electronic

Digital (1)

Collections (1)

Other details

1



Pakistani women : pakistani feminists, women's rights in pakistan, aafia siddiqui, women in.

Book

By Wikipedia, Source. ([Place of publication not identified] : University-Press Org 2013.)

Update Date: 03/04/2017

Language: English

Record number: (OCoLC)ocn867836167

Digital (1)

Other details

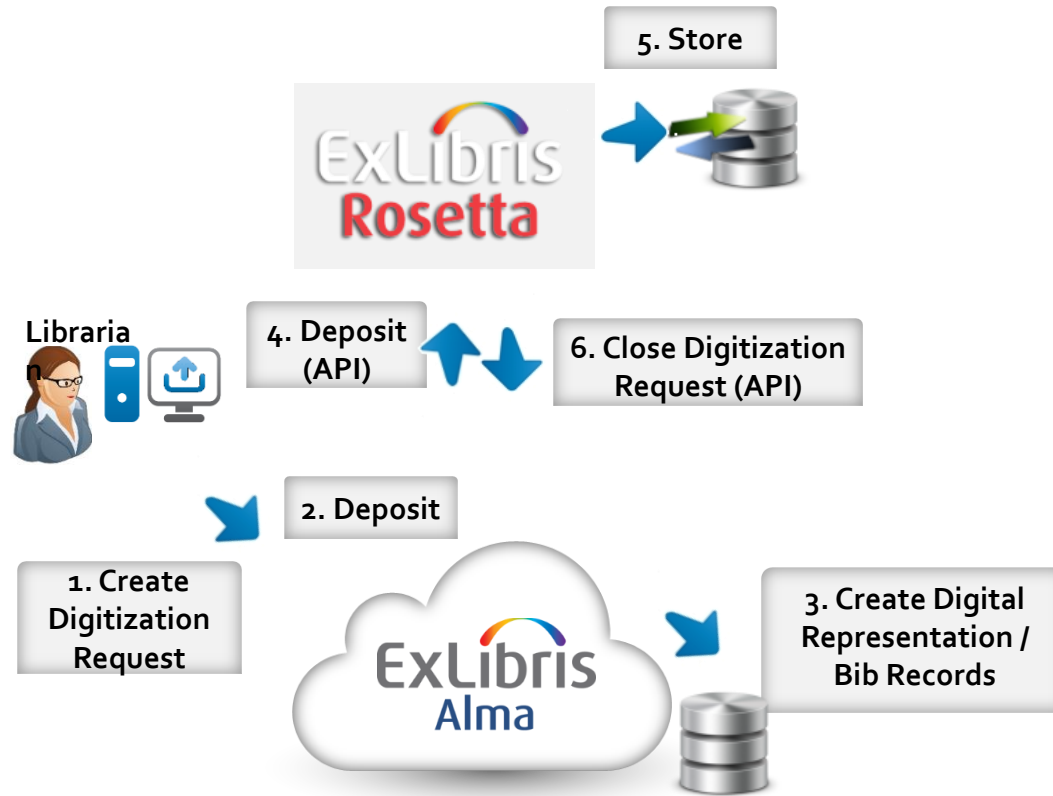
1 Representation

Label	Usage Type	Repository	Files
Pakistani Women	Derivative	Rosetta	1

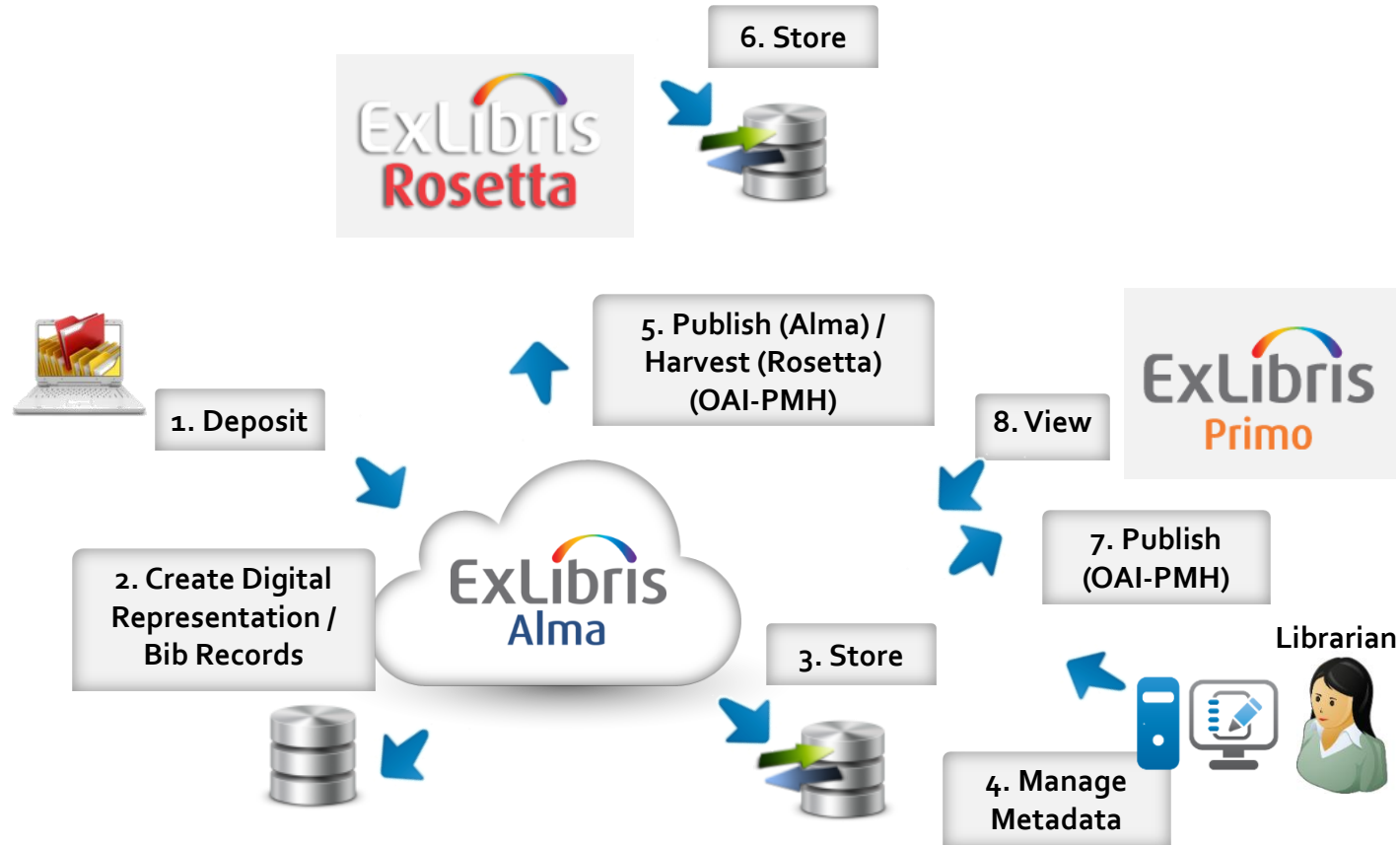
All Representations

ExLibris

Workflow III: Digitization – Alma Submits to Rosetta (Roadmap)



Workflow IV: Rosetta Preserves Alma Digital (Roadmap)



Main Focus Areas Since Last ELUNA



Enhance Core
Functionalities



Increase Synergy
with Other Ex
Libris Products



Streamline the
Implementation
Process

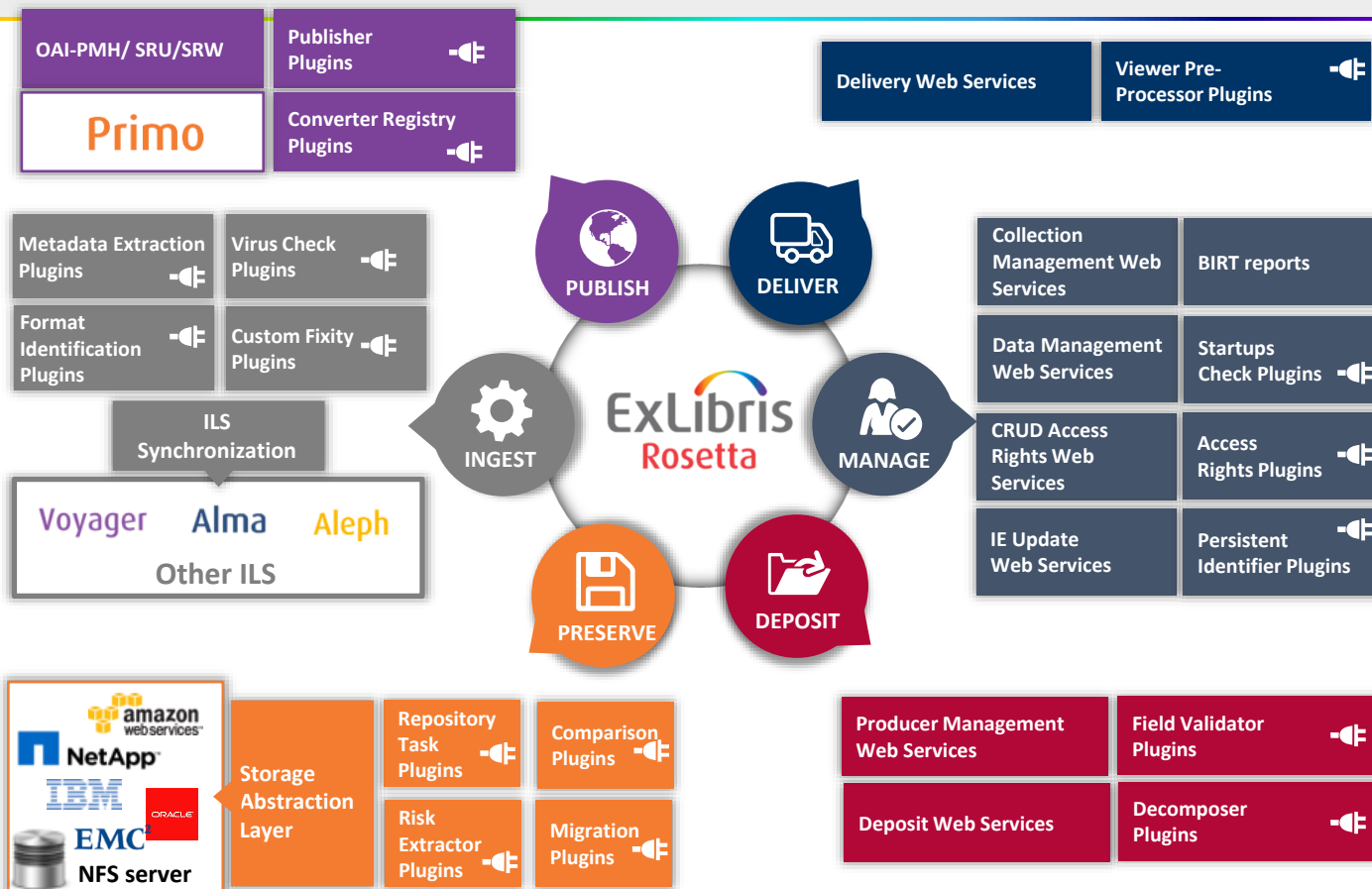
Digital isn't Easy

- Digital workflows are challenging to implement
 - Lots of moving pieces
 - Migration, ongoing ingest flows
 - More IT and development involvement
 - Connectors, storage, throughput, infrastructure are consistent pieces of the puzzle
 - New file formats, delivery and access technologies
- ... and more

Preparing for the Unknown

Multiple Formats	Multiple Metadata Standards	Multiple Metadata Extractors	Multiple Format Identifiers	Multiple Virus Scanners
Multiple Publisher Types	Multiple Viewers	Multiple Storage Providers	Multiple Access Rights Policies	Multiple Report Types
Multiple Collection Types	Multiple Data Types	Multiple Institution Types	Multiple ILSs	Multiple Discovery Systems
Multiple Migration Rules	Multiple Browsers	Multiple Users	Multiple User Types	Multiple Processes
Multiple Representations	Multiple Material Flows	Multiple Delivery Rules	Multiple Migration Plans	Multiple Risks

Open, Extendable and Integrative



Out-of-the-Box Tools & Configurations

- Deposit flows
- Task chains
- Delivery rules
- Plug-ins
- Format library
- Access rights configuration
- User roles
- BIRT reports



Constantly Enhance Rosetta's Out-of-the-Box Offering



Streamline the Implementation Process



Dedicated cross-regions Rosetta implementation team



Revised all implementation processes and deliverables

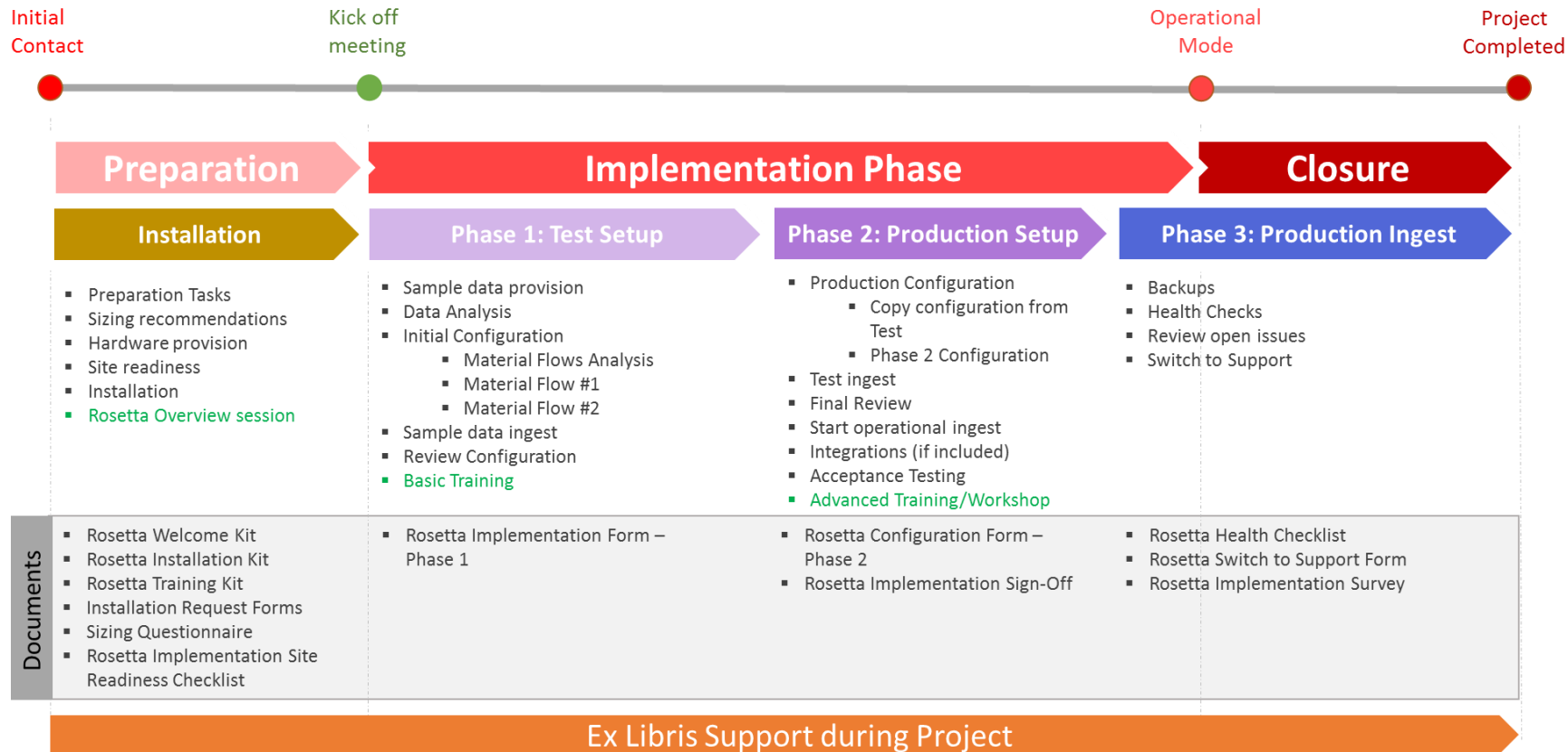


New recorded training materials

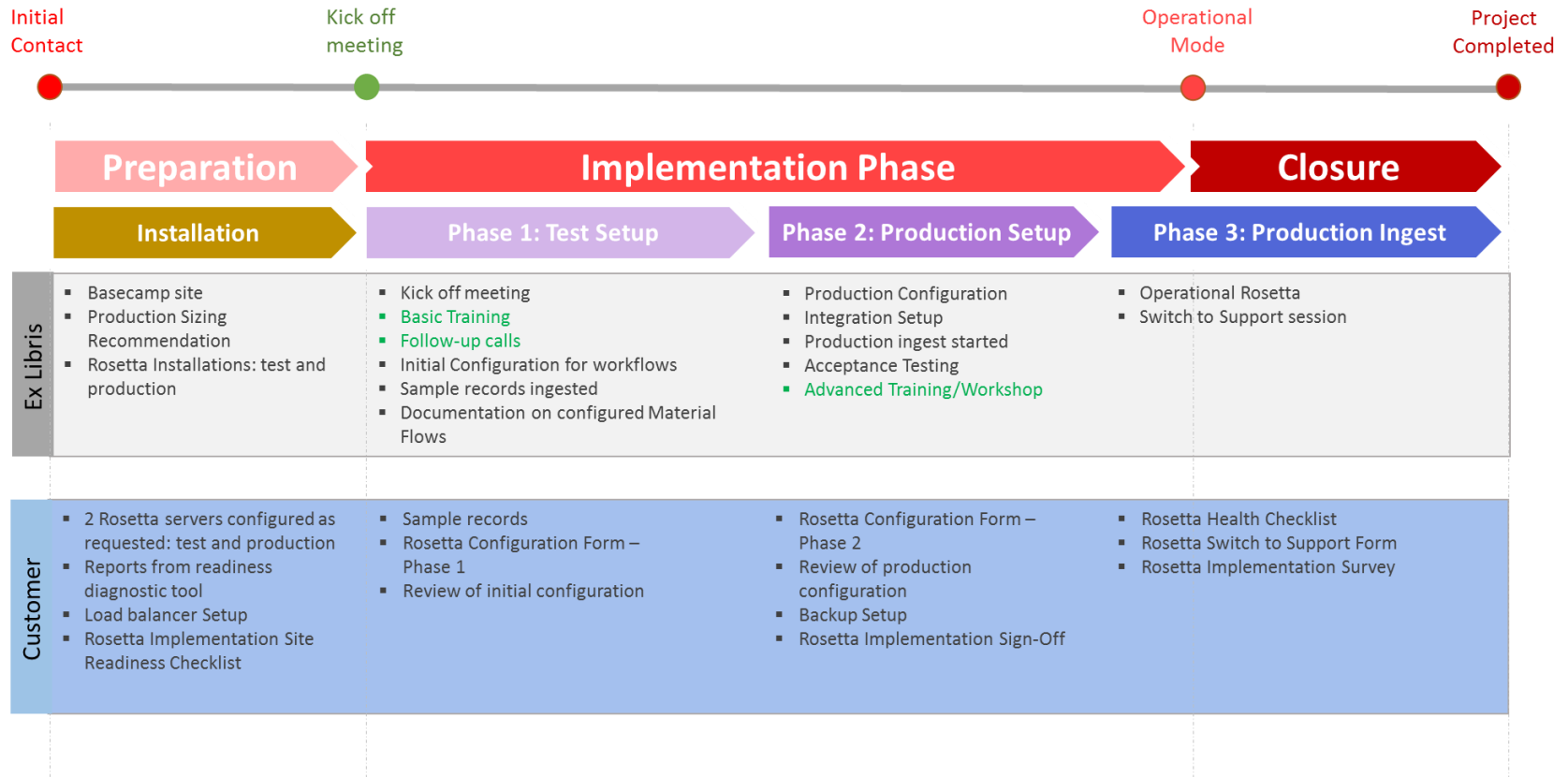


Developments supporting implementation needs

Rosetta Implementation Flow



Rosetta Project Deliverables



Rosetta Training Flow





Roadmap Overview

Version 5.3 Highlights – August 2017



Digital Asset Management

IIIF Support

SIP Metadata Search

Duplicates Report

Collection Management Improvements

AIP Update Enhancements

OAI-PMH Harvesting Matching by Other IDs



Preservation

Store TA Rule ID as Part of the TA Rule Event

Store Identification Method in File Format Section in DNX

Keep Original File Format Identification Event in DNX

Event History Report

figshare Integration



Infrastructure

Index Exception Handling

Improved User Experience

Performance Improvements

Copy Configuration



- SIP metadata will be indexed early in the ingest process
- This metadata will be searchable during the ingest process via
 - A new search screen
 - SRU

Results



1 - 1 of 1 Records

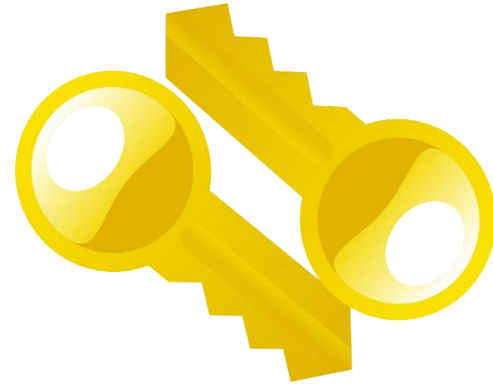
	<u>SIP ID</u>	<u>Producer Id</u>	<u>Title (DC)</u>	<u>Date Submitted</u>	<u>Date Updated</u>	<u>Location</u>				
1	444	10000	My Deposit	17/04/2017	17/04/2017	Assessor	Show in Workbench	Details	Report	

1 - 1 of 1 Records

[Back](#)



- Identify duplicate objects by:
 - Checksum
 - Metadata identifier



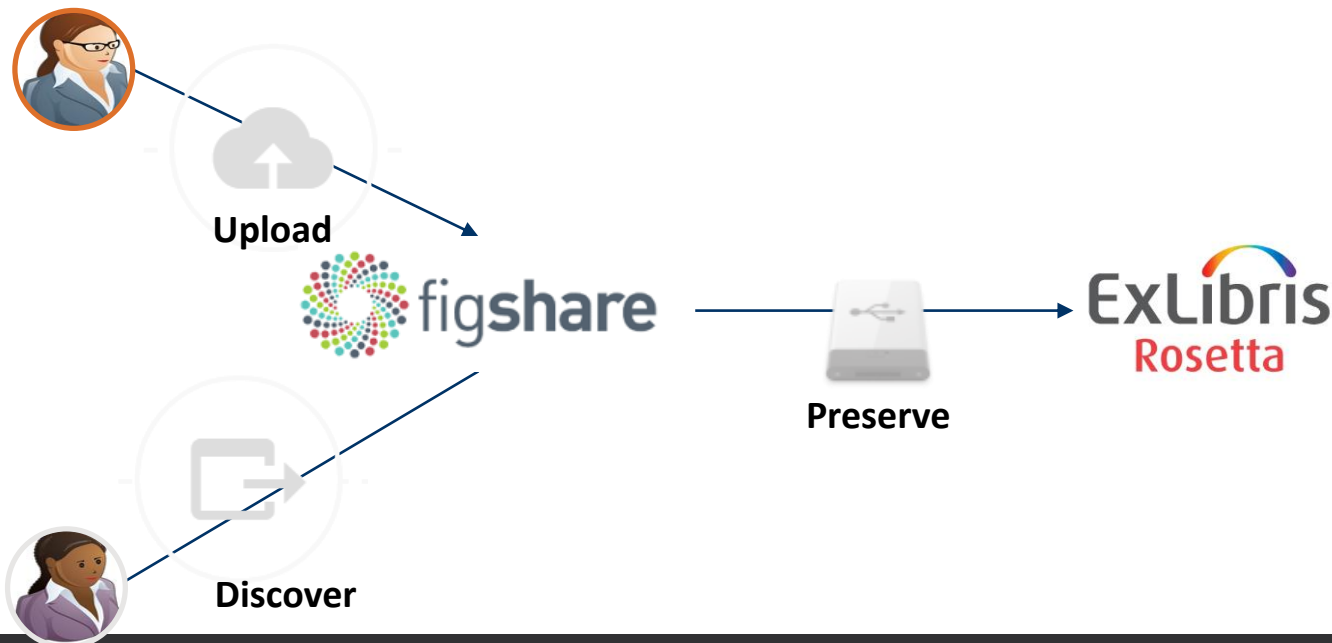


- Enables users to generate a report by any event:
 - Takes an event ID and date range
 - Returns a list of PIDs, event date, and event key values
- Examples:
 - Indexing events (to track failed indexing)
 - CRUD reporting for set and process management





- Enhance the OAI-PMH harvester to match records of external origin based on a dc:identifier or an IE ObjectIdentifier
- Repository Task plug-in to notify FigShare upon AIP creation





The **International Image Interoperability Framework** (IIIF) provides a standardized method of describing and delivering images over the web by defining the following APIs:

- **Image API** – provides the image with characteristics such as region, size, rotation, quality and format
- **Presentation API** - describes the structure and layout of a digitized object
- **Search API** - allows for "searching annotation content within a single IIIF resource

These APIs can be used to develop image servers and web clients that provide a world-class user experience in viewing, comparing, manipulating and annotating images.





- **IIIF Manifest**
 - Describes the file structure and contains references to Image API endpoints.
- **Out-of-the-box IIIF Server - Cantaloupe**
 - An open-source image server with operations such as cropping, scaling, and rotation, it can support deep-zooming image viewers, as well as on-the-fly thumbnail generation.
- **Out-of-the-box IIIF Viewer – Universal Viewer**
 - An open source viewer with wide range of formats supported providing advanced features such as zooming, navigation and more.

It will be possible for institutions to use all components provided by Ex Libris or to take some of them and use their own server or client.

Version 5.4 Highlights – December 2017 (Planned)



Digital Asset Management

Extend SRU Capabilities

User Management APIs

New IE Viewer

Index Derivative Copies Metadata

Enhance the UI with Process Automation Logs

Enable Sending Emails for Jobs Statuses



Preservation

TA Workbench – Bulk Operations

TA Workbench – Manual Format and Extension Assignment

Out-of-the-Box Tech MD Extractors

Out-of-the-Box Migration Tools



Infrastructure

Update Software Stack - Solr 6.0 – Solr as a server, BIRT 4.7, Tomcat, Oracle 12.2

New BIRT Reports UI

Performance Improvements



- Enable selecting multiple files within a SIP and applying a single action on them
 - e.g. assign file extension, assign format, ignore error, etc.
- Manual Format and Extension Assignment

[Home](#) / [Submissions: Technical Issues](#) / [Details](#)

The format ID of the file: **adm_ditarc-0064-unesco_actions_haiti-eng-short.mp4** will be updated. Please choose the new format ID and add user notes (optional)

Format ID	Format Mime Type	Format Name
<input type="radio"/> fmt/199	video/mp4	ExL-Fmt-61
<input type="radio"/> fmt/596		fmt/596

☒ unknown

☐ Remember my decision concerning the chosen format

Reason

Optional Note



- Add Authentication to SRU/SRW Requests
- Add additional query operators such as '<', '>', '!=', etc.
- Add query operators between fields – such as 'or' and 'not'
- Add ability to search by partial date (e.g. year only)
- Enable configuration of the SRU response with an xsl file



- Provide web services for CRUD operations on staff users
 - Create users
 - Retrieve users data
 - Update users data
 - Delete users





- Enhance Rosetta's Out-of-the Box Preservation Tools with tools such as:
 - **Metadata Extractors:**
 - **ExifTool** – for image, audio, video, and PDF content
 - **MediaInfo** – for media content
 - **Apache Tika** – for over a thousand different file types
 - **Migration Tools**
 - **FFMPEG** - for multimedia content



Responsive, similar look and feel as the newly added REP viewer

Contents

Music


Island

DOC

Tips and Tricks

Flowers

Island



Descriptive Information

Descriptive Data - IE DC

Creator : Tester

Title : Test Representation Viewer

Description : Test Representation Viewer

Type : Manuscripts

Created : 24/09/2016

Versions 6.X Highlights – 2018 (Initial List)



Digital Asset Management

Export to FTP

Delete OAI sets

IIIF Annotations

Extend Access Rights Plugin Interface

Improved Collection Management



Preservation

Support Multiple MD Extractors

Support Multiple Format Identification Tools

Support Custom Events

Add Provenance Information about Original Checksums

Improved Custom Fixity Support

Bagit Support – Export

Out-of-the-Box Tech MD Extractors

Out-of-the-Box Migration Tools



Infrastructure

Support for User Preferences

Favorite Menu Items

Performance Improvements

Thank You!

Adi.Alter@exlibrisgroup.com