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

A major religious Institution
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

Digital Preservation and DAM

2007

Digital Preservation

2012

A DAM and Digital Preservation Solution
Interwoven into Users Workflows & Institutional Goals

2016
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

- Ingest Tools
- Collection Management
- Technical Analyst Workbench
- Preservation Planning
- Security
- Access Rights
- Consistency Checks
- Format Library
- Preservation Planning
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

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Newly Formed RUG Working Groups

- Delivery & Integrations
- Digital Preservation
- Format Library
- System Operations
Main Focus Areas Since Last ELUNA

1. Enhance Core Functionalities
2. Increase Synergy with Other Ex Libris Products
3. Streamline the Implementation Process
The Power of the Best of Class Suite Approach

Market leading Discovery Solutions
- Fully integrated with Rosetta – Digital collection browsing

Primo & Summon

Alma

Market Leading Library Management Solution
- Fully integrated with Primo, Summon and Rosetta

Rosetta

Market Leading DAM and Preservation Solution
- Integrated workflows with Alma and Primo
Workflow I: Two-Way Metadata Synchronization Using OAI-PMH

1. Deposit

2. Store

3. Publish (Rosetta) / Harvest (Alma) (OAI-PMH)

4. Create Digital Representation / Bib Records

5. Manage Metadata

6. Publish (Alma) / Harvest (Rosetta) (OAI-PMH)

7. Update Metadata

8. Publish (OAI-PMH)

9. View
The Metadata in Alma and Rosetta

MARC Record in Alma

DC Record in Rosetta

The Potato Eaters
Book (Book - Physical) (1885)
Subject: event
Record number: cair.rosseta.exlibrisgroup.com:IE46890
Collections: Van Gogh Digitized Paintings
Availability: Digital version (from Rosetta Repository) of type Master

LDR 02593 am 22001653u 4500
001 99130038400121
005 20160621144854.0
024 8 _l a cair.rosseta.exlibrisgroup.com:IE46890
024 8 _l a cair.rosseta_991170095000191
024 8 _l http://rosseta.exlibrisgroup.com:1801/delivery/DeliveryManagerServlet?dps_pid=IE46890
035 _l a cair.rosseta.exlibrisgroup.com:IE46890
042 _l dc
245 00 _l The Potato Eaters
260 _l c 1886

MID 42906 Metadata Type descriptive:dc Description The Potato Eaters (Dutch: De Zelfportretten)
Created by admin1 Creation Date 11/11/2013 09:20:50
Updated by Victoria Holmes Update Date 11/12/2016 22:54:50

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Workflow II: Digitization Requests’ Processing

1. Create Digitization Request
2. Deposit
3. Store
4. Create Remote REP (API)
5. Close Digitization Request (API)
Digitization Request Fulfillment

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.)

Language: English
ISBN: 1230580697 and others
Record number: (OCoLC)867836167

Subject: Pakistan and women's rights Women's rights

Digital (1)

Digital (1)
Workflow III: Digitization – Alma Submits to Rosetta (Roadmap)

1. Create Digitization Request
2. Deposit
3. Create Digital Representation / Bib Records
4. Deposit (API)
5. Store
6. Close Digitization Request (API)
Workflow IV: Rosetta Preserves Alma Digital (Roadmap)

1. Deposit
2. Create Digital Representation / Bib Records
3. Store
4. Manage Metadata
5. Publish (Alma) / Harvest (Rosetta) (OAI-PMH)
6. Store
7. Publish (OAI-PMH)
8. View
Main Focus Areas Since Last ELUNA

1. Enhance Core Functionalities
2. Increase Synergy with Other Ex Libris Products
3. 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

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Open, Extendable and Integrative

- OAI-PMH/ SRU/SRW
- Publisher Plugins
- Converter Registry Plugins
- Primo
- Metadata Extraction Plugins
- Virus Check Plugins
- Custom Fixity Plugins
- ILS Synchronization
- Voyager, Alma, Aleph, Other ILS
- Voyager, Alma, Aleph, Other ILS
- Storage Abstraction Layer
- Repository Task Plugins
- Comparison Plugins
- Risk Extractor Plugins
- Migration Plugins
- NFS server

- Delivery Web Services
- Viewer Pre-Processor Plugins
- Collection Management Web Services
- BIRT reports
- Data Management Web Services
- Startups Check Plugins
- CRUD Access Rights Web Services
- Access Rights Plugins
- IE Update Web Services
- Persistent Identifier Plugins
- Producer Management Web Services
- Field Validator Plugins
- Deposit Web Services
- Decomposer Plugins
- Migration Plugins
- Decomposer Plugins
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

**Preparation**
- Preparation Tasks
- Sizing recommendations
- Hardware provision
- Site readiness
- Installation
  - Rosetta Overview session

**Installation**
- Sample data provision
- Data Analysis
- Initial Configuration
  - Material Flows Analysis
  - Material Flow #1
  - Material Flow #2
- Sample data ingest
- Review Configuration
- Basic Training

**Implementation Phase**
- Production Configuration
  - Copy configuration from Test
  - Phase 2 Configuration
- Test ingest
- Final Review
- Start operational ingest
- Integrations (if included)
- Acceptance Testing
- Advanced Training/Workshop

**Phase 1: Test Setup**
- Document set
  - Rosetta Welcome Kit
  - Rosetta Installation Kit
  - Rosetta Training Kit
  - Installation Request Forms
  - Sizing Questionnaire
  - Rosetta Implementation Site Readiness Checklist
  - Rosetta Implementation Form – Phase 1

**Phase 2: Production Setup**
- Document set
  - Rosetta Configuration Form – Phase 2
  - Rosetta Implementation Sign-Off

**Phase 3: Production Ingest**
- Document set
  - Backups
  - Health Checks
  - Review open issues
  - Switch to Support
  - Rosetta Health Checklist
  - Rosetta Switch to Support Form
  - Rosetta Implementation Survey

**Ex Libris Support during Project**
Rosetta Project Deliverables

**Preparation**
- Installation
  - Basecamp site
  - Production Sizing
  - Recommendation
  - Rosetta Installations: test and production

**Implementation Phase**
- Phase 1: Test Setup
  - Kick off meeting
  - Basic Training
  - Follow-up calls
  - Initial Configuration for workflows
  - Sample records ingested
  - Documentation on configured Material Flows
- Phase 2: Production Setup
  - Production Configuration
  - Integration Setup
  - Production ingest started
  - Acceptance Testing
  - Advanced Training/Workshop
- Phase 3: Production Ingest
  - Operational Rosetta
  - Switch to Support session

**Customer**
- 2 Rosetta servers configured as requested: test and production
- Reports from readiness diagnostic tool
- Load balancer Setup
- Rosetta Implementation Site Readiness Checklist
- Sample records
- Rosetta Configuration Form – Phase 1
- Review of initial configuration
- Rosetta Configuration Form – Phase 2
- Review of production configuration
- Backup Setup
- Rosetta Implementation Sign-Off

**Ex Libris**
- Rosetta Health Checklist
- Rosetta Switch to Support Form
- Rosetta Implementation Survey
Rosetta Training Flow

Initial Contact
- Overview
  - Watch (recorded)
    - Session 1: Preservation System Overview / Rosetta Data Model
  - Become familiar with Rosetta Terminology
    - Rosetta Glossary

Kick-off Meeting
- Essential Training
  - Watch the recorded Sessions and Ask Questions during Functional Calls
    - Session 2: Material Flows / Producers
    - Functional Call - Topic: "Ingest"
    - Session 3: Finding a SIP / Assessing & Arranging Content / The Web Editor
    - Session 4: Rosetta Task Chains / SIP Routing / Technical Analyst Workbench
    - Functional call - Topic: "SIP Processing"
    - Session 5: Set, Process, and Collection Management
    - Session 6: User Administration & Publishing / Primo Integration
    - Functional call - Topic: "Data Management"
    - Session 7: Preservation Planning
    - Session 8: Rosetta Administration
    - Session 9: Rosetta SP / HF Installation
  - Use Rosetta Documentation Guides
  - Hands-on Practice in the Training Institution

Operational Mode
- Workshop
  - Gather Questions for Workshop Agenda Preparation
  - Attend Workshop
  - Review Advanced Topics

Project Completed
- Practice
  - Use actively your Rosetta Installation
  - Extended Training
  - New Release Education
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 Search

• 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
Duplicates Report

• Identify duplicate objects by:

  • Checksum

  • Metadata identifier
Event History Report

• 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
FigShare Integration

- 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
IIIF Support – What is IIIF?

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 Support -
What will Rosetta do for You?

• **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

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TA Workbench 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
Extend SRU Capabilities

• 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
User Management APIs

- Provide web services for CRUD operations on staff users
  - Create users
  - Retrieve users data
  - Update users data
  - Delete users
Out-of-the-Box Preservation Tools

• 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
NEW IE Viewer

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

Out-of-the-Box Tech MD Extractors
Out-of-the-Box Migration Tools
Thank You!

Adi.Alter@exlibrisgroup.com