Rosetta 5.1 Highlights

September 2016

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TRADEMARKS

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Table of Contents

Contents

1

Infrastructure

1.1 New Third-Party Software Versions

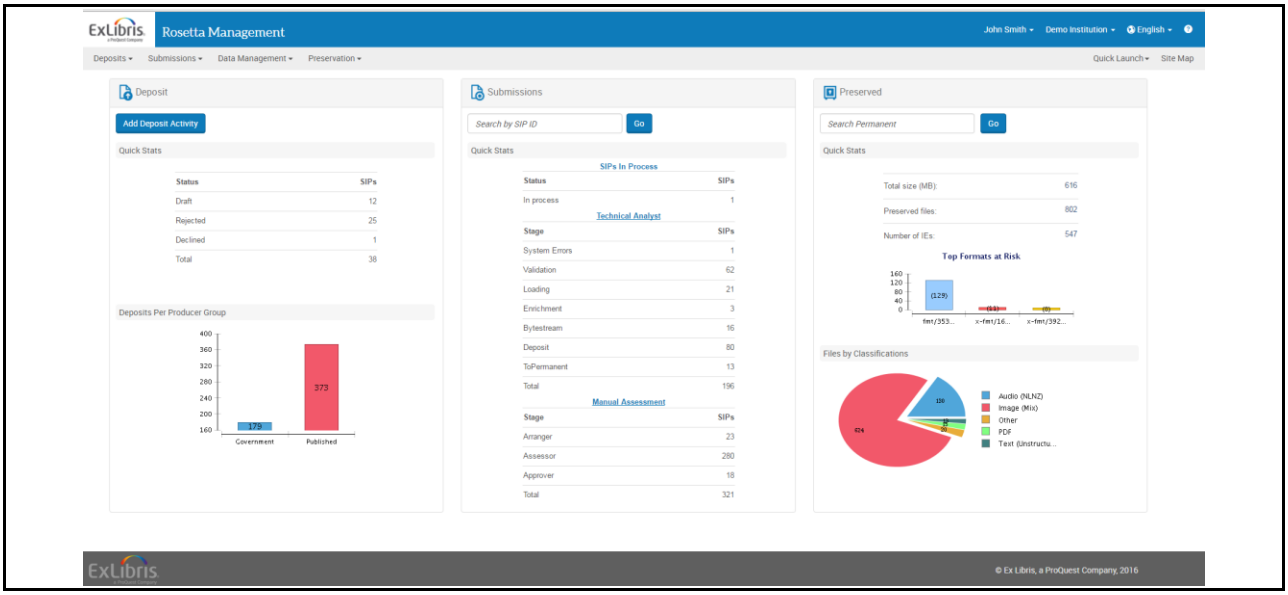
Rosetta now includes the followings new versions of third-party software:

- Tomcat 7.0.70
- PDS 2.1.7
- Aurigma Uploader 8.5.55
- FlexPaper 2.4.1
- JWPlayer 7

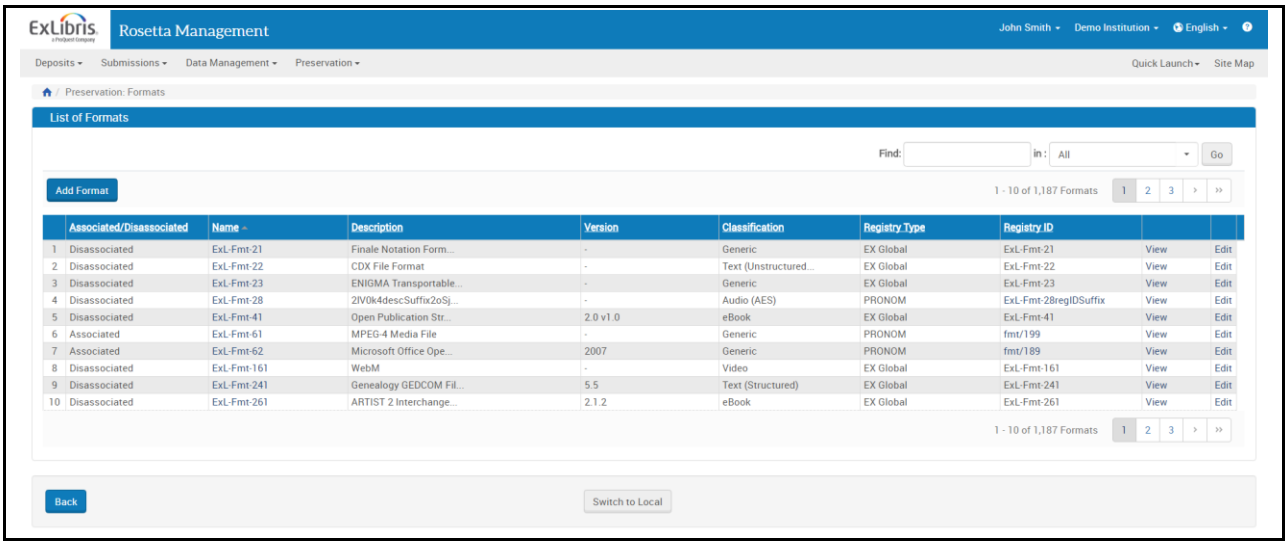
2

User Interface

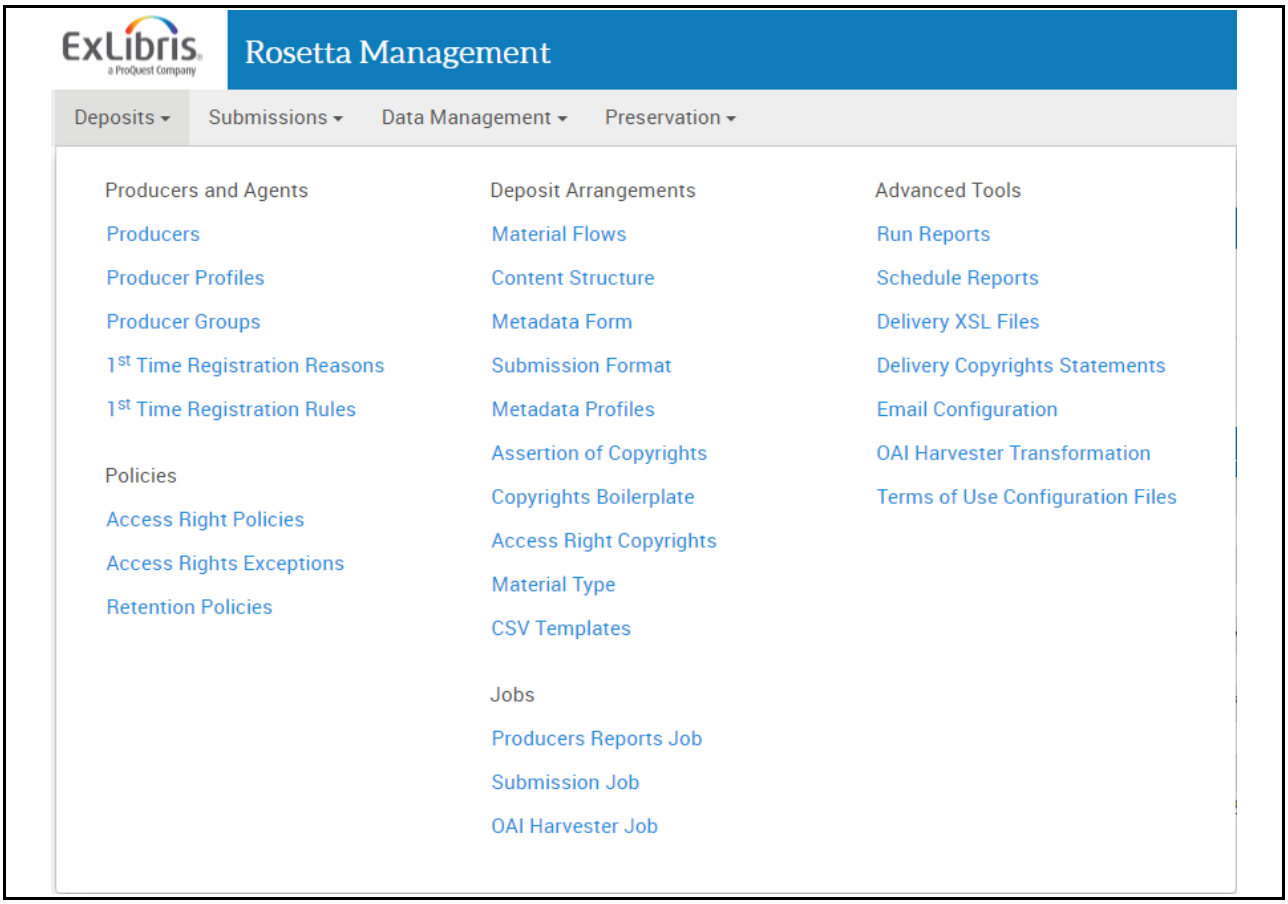
This version introduces a new user interface with a new design of multiple widgets throughout the system – tables, forms, menus, breadcrumbs, etc. Some screenshots are provided below:



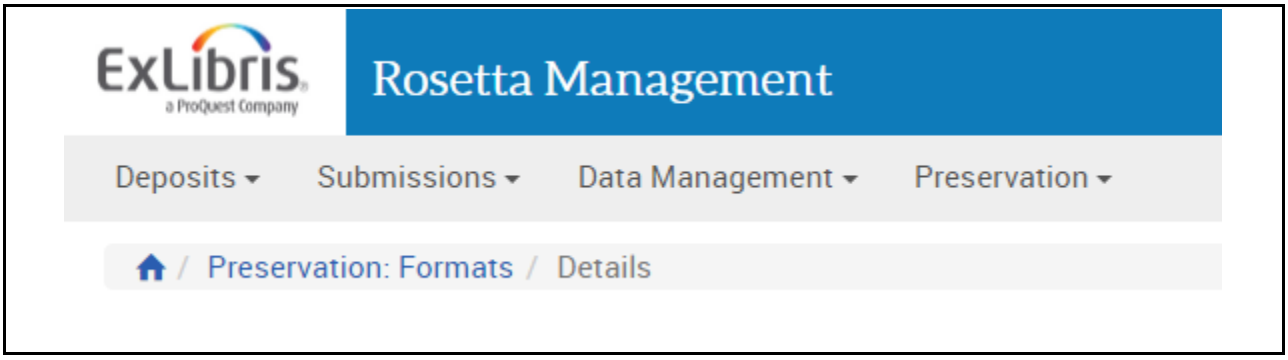
Main Dashboard



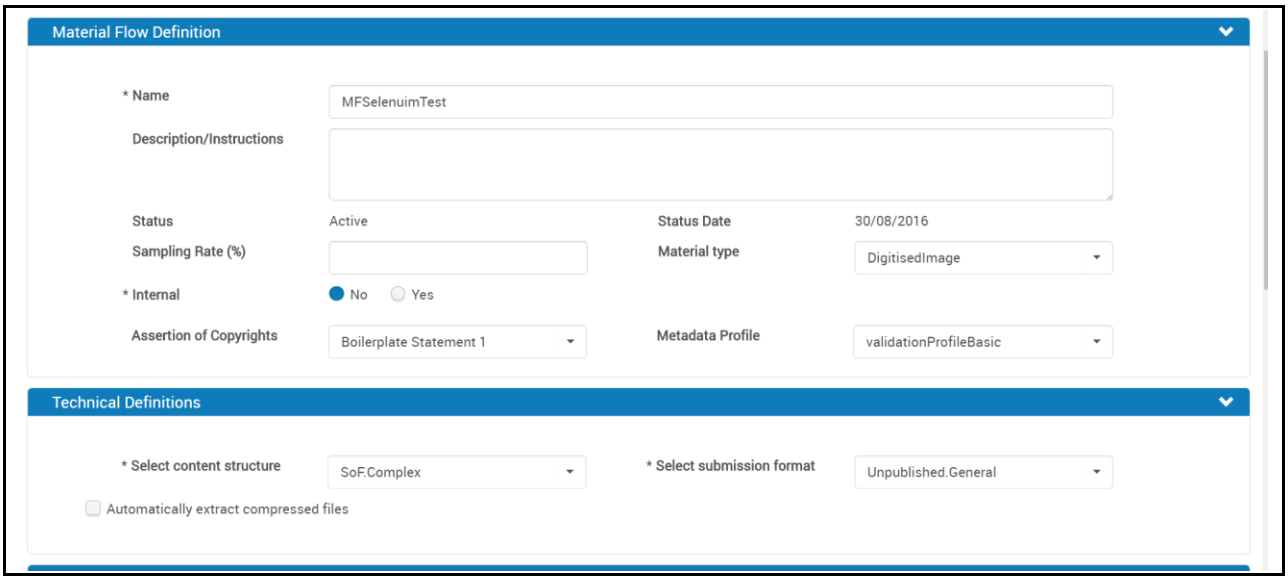
Tables



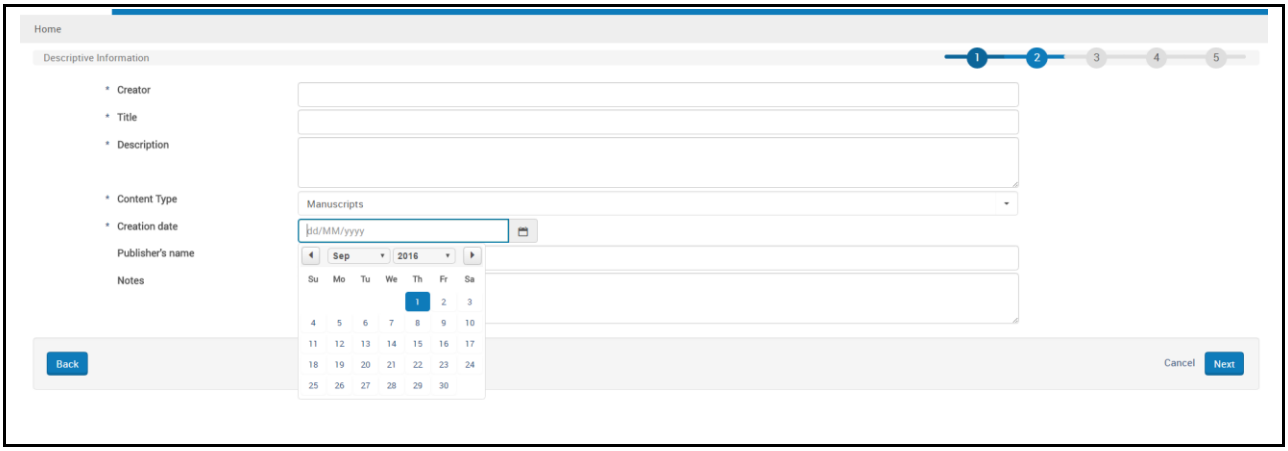
Actions Menu



Breadcrumbs



Forms



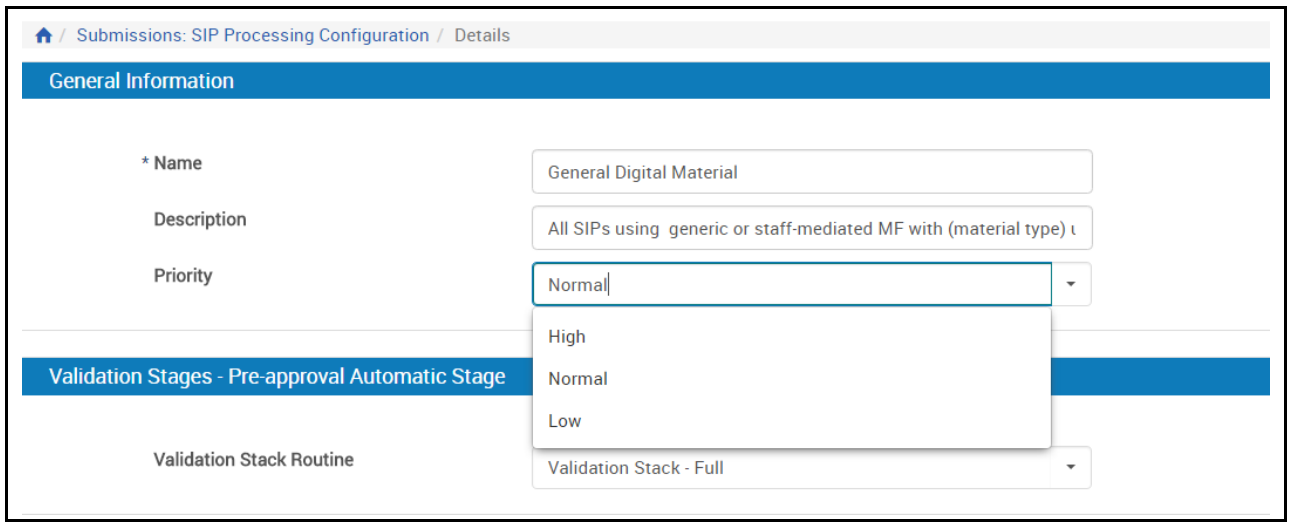
Wizard

3

Deposit and SIP Processing

3.1 SIP Processing Prioritization

SIP submission and SIP processing queues now allow fast-tracking certain SIPs, controlled by a new **Priority** parameter defined on the SIP Processing Configuration page. SIPs with a higher priority are handled before SIPs with a lower one:



3.2 Submission Job History

The jobs listed on the Submission Job and Job History pages were enhanced with additional data, enabling better analysis of the status of the submission jobs executed in Rosetta.

3.3 Validation Stack

3.3.1 SHA-256 Fixity Check

The SHA-256 fixity algorithm was added to the list of available fixity algorithms. SHA-256 is a SHA-2 (Secure Hash Algorithm 2) cryptographic hash function computed with 32-bit words. It

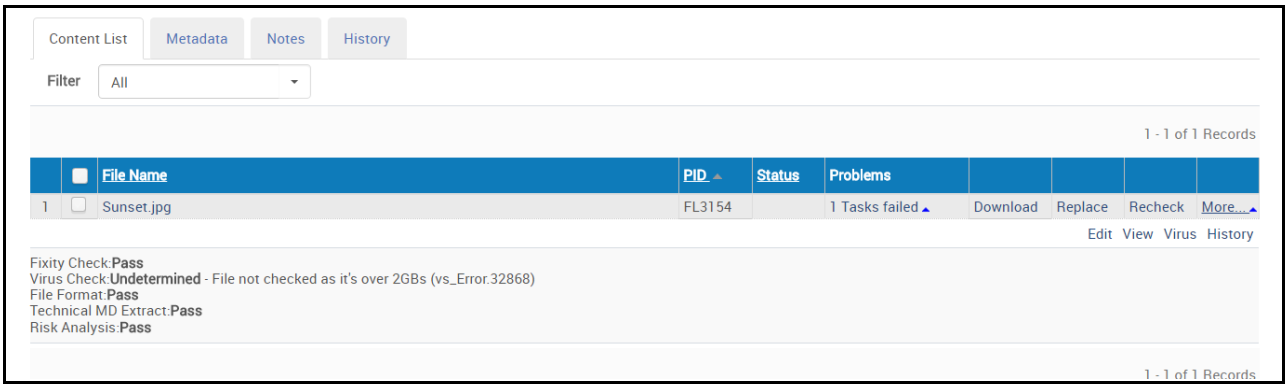
is recommended to replace the SHA-1 algorithm with SHA-256. Due to collision attacks the use of this algorithm is no longer recommended for applications that depend on collision resistance, such as digital signatures. These attacks have not been successfully extended to SHA-2.

3.3.2 Virus Check Exit Codes

A new VirusCheckPluginV2 interface was added. This plug-in returns an integer for the virus scan result, as follows:

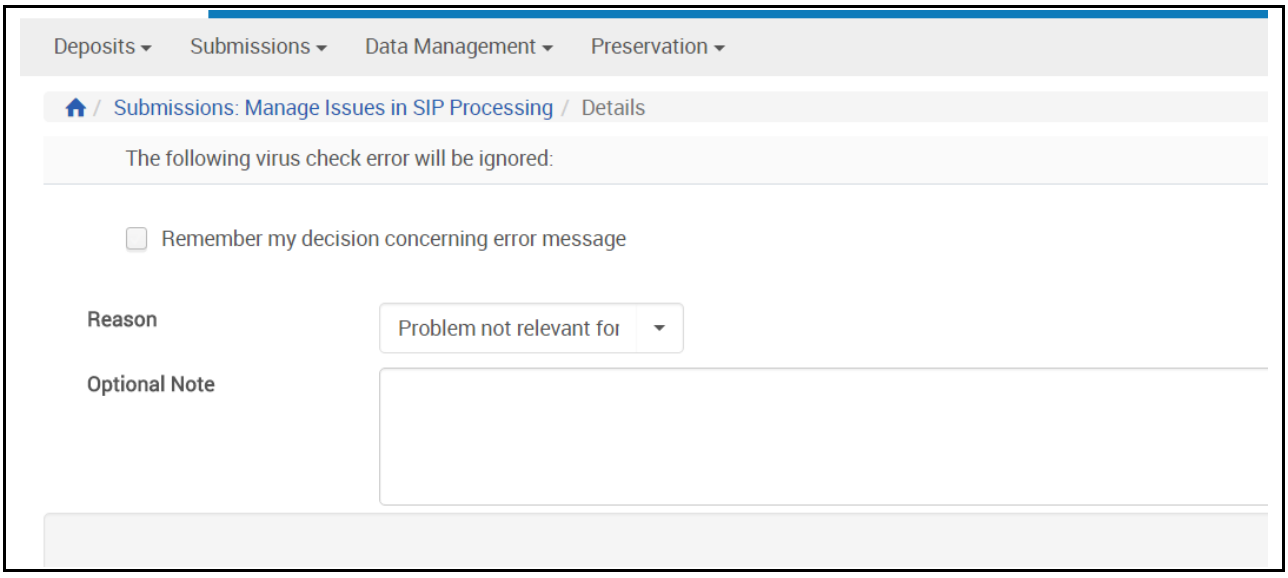
- 0 – pass
- 1 – failed
- >1 - undetermined

Technical Analysts can decide to ignore SIPs that fail TA Validation due to an undetermined virus check result.

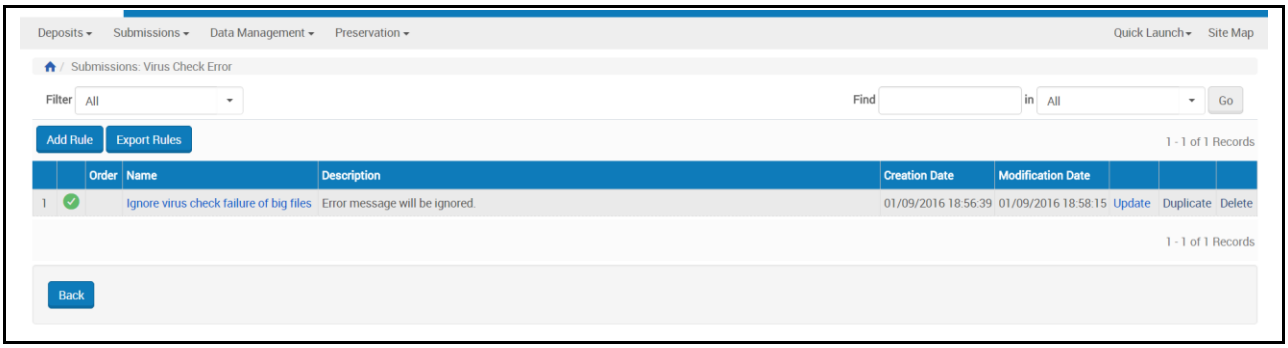


3.3.3 Rules for Automatic Handling of Virus Check Errors

Virus check errors can now be automatically handled by validation stack rules enabling Technical Analysts to create rules to ignore subsequent files with similar errors, as can be seen below. These rules are indexed and searchable as **Virus Check Error Ignore Criteria**.



These rules can be accessed in the new Virus Check Errors page that can be found under the **Submissions** menu:



3.3.4 Technical Analysts Rules Export

Technical Analysts can now export rules to a CSV file to share them with other institutions, enabling, for instance, institutions and consortia to share rules between each other.

4

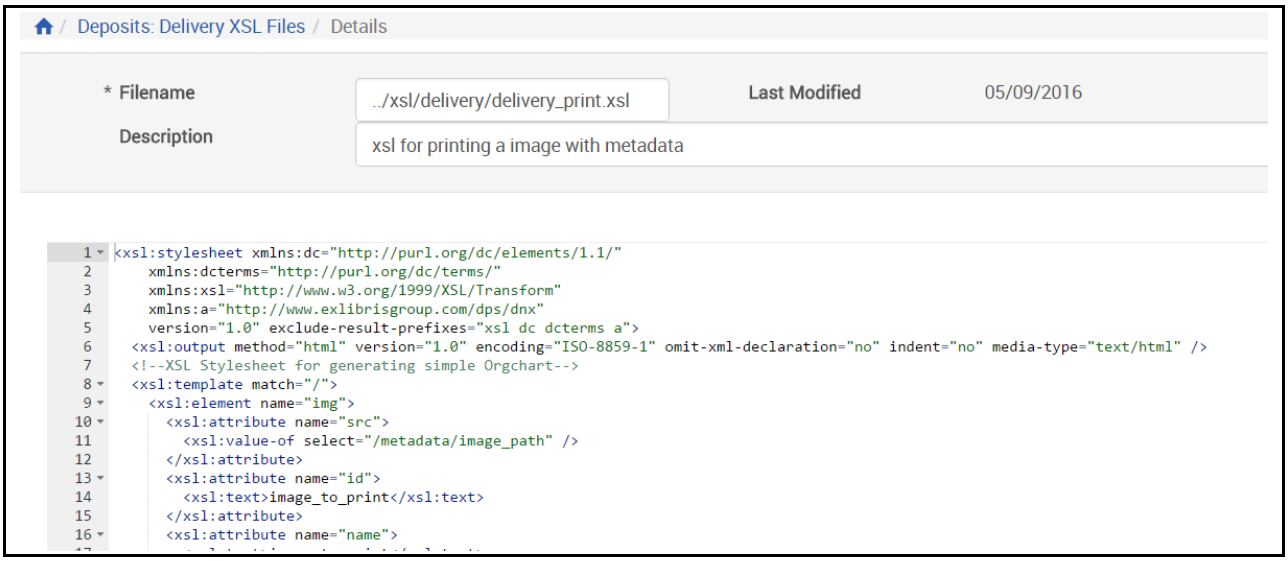
Data Management

4.1 XML Editor

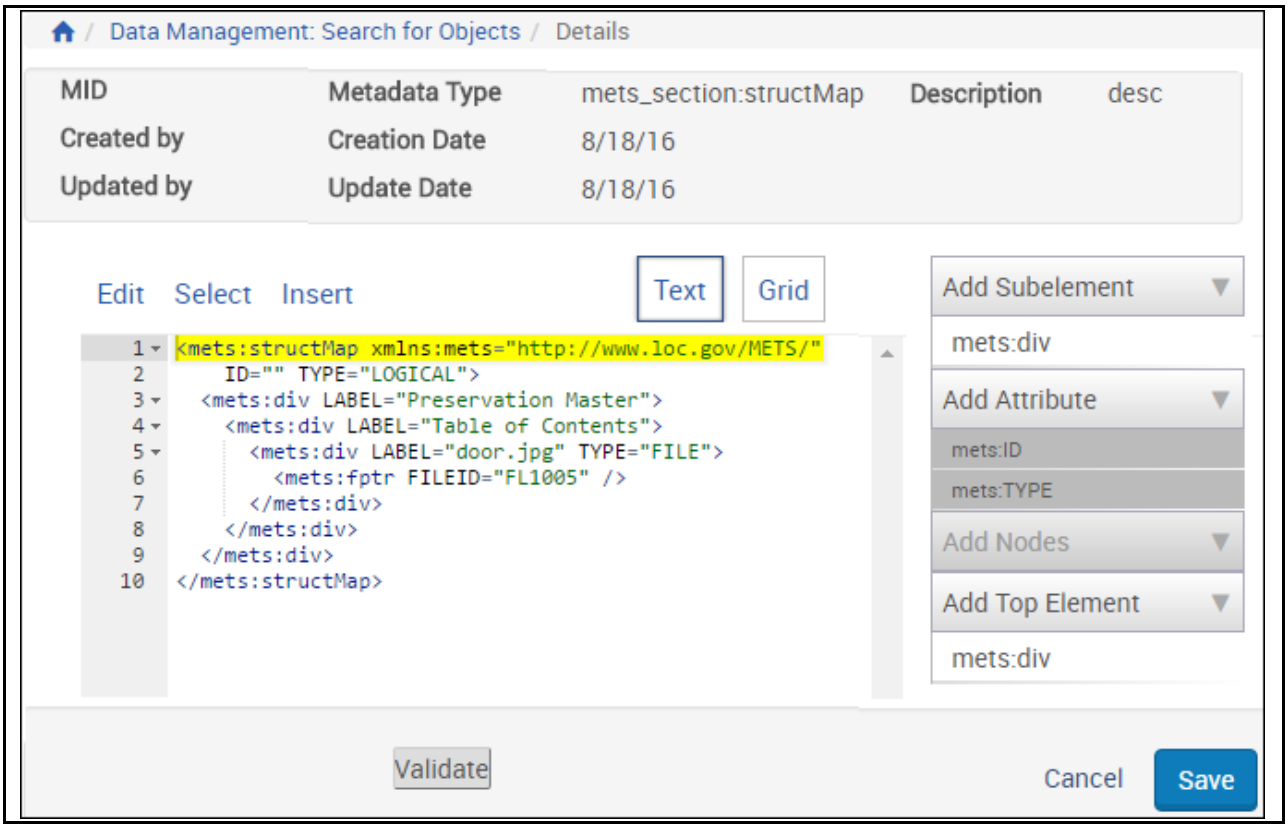
A new XML editor was implemented, providing graphic tools such as indentation, tag autocomplete, and color-coding for editing the following files:

- Configuration files
- Source Metadata
- Logical Structmaps

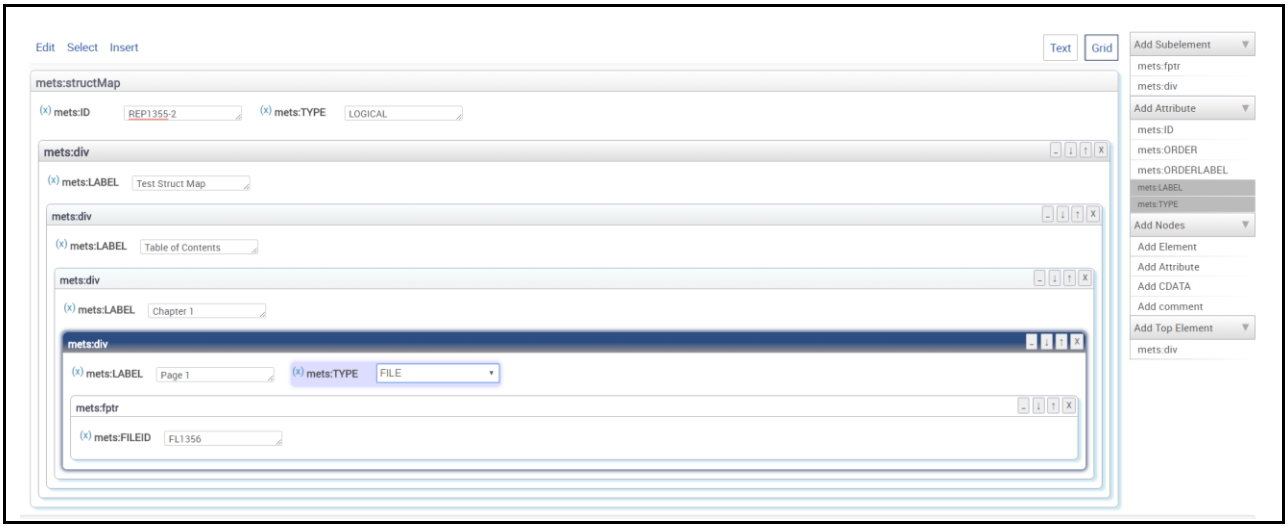
The following is an example of a file edited using this editor:



In addition, Structmaps and Source MDs provided with an XSD file can be edited with the Editor's Grid mode, providing a contextual, schema-driven menus for adding new elements, sub-elements, and attributes. It is possible to upload any XSD file via Rosetta's Administration page and Rosetta will automatically generate the Grid more. The following are examples of the editor in Text and Grid mode for editing a logical structmap:



Text Mode



Grid Mode

4.2 Add Derivative Copy Representation Job

Derivative copy representations can now be added using a Rosetta job. This is especially helpful when you need to add externally-generated derivative copies in bulk.

4.3 Search

4.3.1 'Not' Operator Support

The operators **Does not contain keywords** and **Does not contain phrase** were added to the text properties search.

4.3.2 Smart-Search for all Controlled-Vocabulary Fields

The search fields for Producer, Producer Agent Names, Producer Authoritative Name, and Producer ID are now available as smart-search/auto-complete fields.

4.4 Collection Management

4.4.1 Collection Ordering

Rosetta now supports changing the order that collections appear in Rosetta. You can change the order of collections in the following ways:

- Dragging-and-dropping a collection in Rosetta's Collection Management UI.
- Using Rosetta's Create and Update collection APIs
- Providing the order of the collection in a CSV file while depositing content

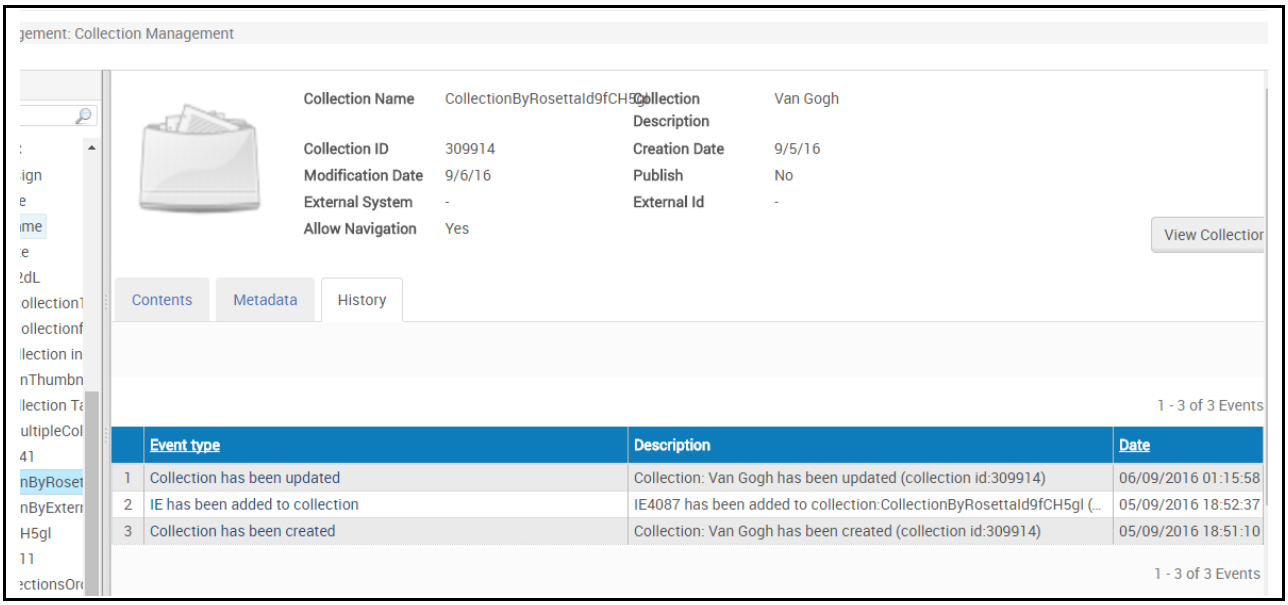
The defined order will be the order in which collections are displayed in the Collection Viewer and in Primo's Collection Discovery lobby.

4.4.2 Disassociating IEs from Collections

Rosetta does not allow deleting a collection that has associated IEs (or sub-collections with associated IEs). The Unassign Collection process was added that disassociates all IEs from the collection and its sub-collections, so that you can delete the collection from Rosetta.

4.4.3 Collection History Tab

A new **History** tab was added to the Collection Manager. This tab displays a list of the actions performed on the collection, for example:



4.4.4 Assign Collection by DC Improvements

The **Assign Collection by DC** task now supports assigning by Rosetta ID or by an external system ID. The task also now supports a **Delete on Assignment** option that can be used when the DC field exists solely for collection assignment. In addition, users can now define whether or not to create new collections, when assigning a collection by a path.

5

Preservation

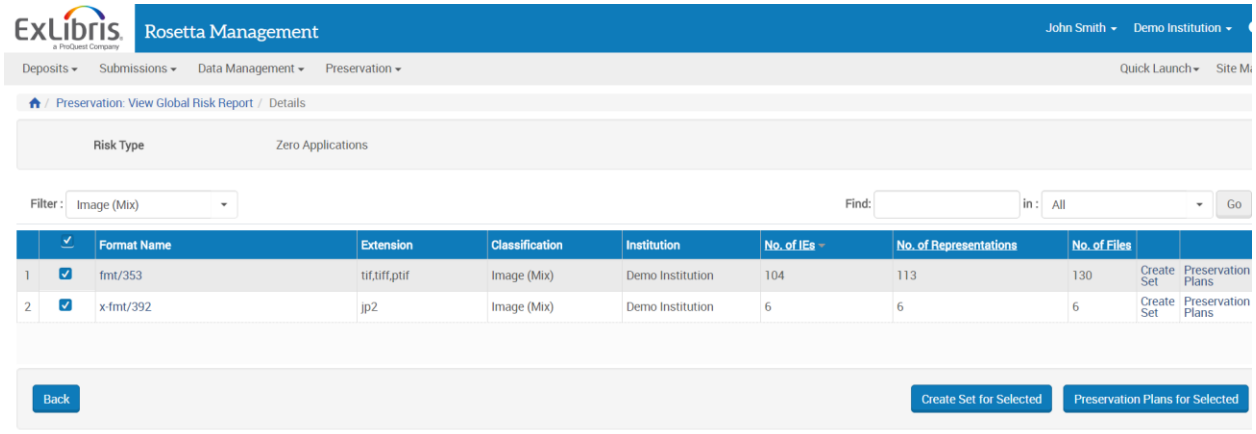
5.1. File Comparison Plug-in

A new plug-in type, **File Comparison Plug-in** was added to Rosetta. This plug-in can be used as part of a preservation evaluation to evaluate the quality of the migration. It receives the original file and the migrated file and returns a value that determines its quality.

An example of such a plug-in that computes PSNR (peak signal-to-noise ratio) between original and alternative images during preservation action as a visual method of evaluation criteria was added to Ex Libris' GitHub repository.

5.2. Create a Preservation Plan for More than One Source Format

A preservation plan can now be created for more than one format as long as they are from the same classification and share the same risk. The purpose of this development is to simplify the creation of such a plan and avoid the need to create a new plan for each format. The following is an example of creating such a plan:



5.3. Dead Reference Identification

A new type of fixity check was added to Rosetta to ensure data integrity and that all files referenced in the database are present in the storage. This check does not run an actual fixity algorithm, but simply verifies that the file with the expected name exists in storage without actually accessing the file to determine its integrity.

5.4. Events Documentation

A table listing the details of all the events that are managed by Rosetta was added as an appendix to the Rosetta Configuration guide:

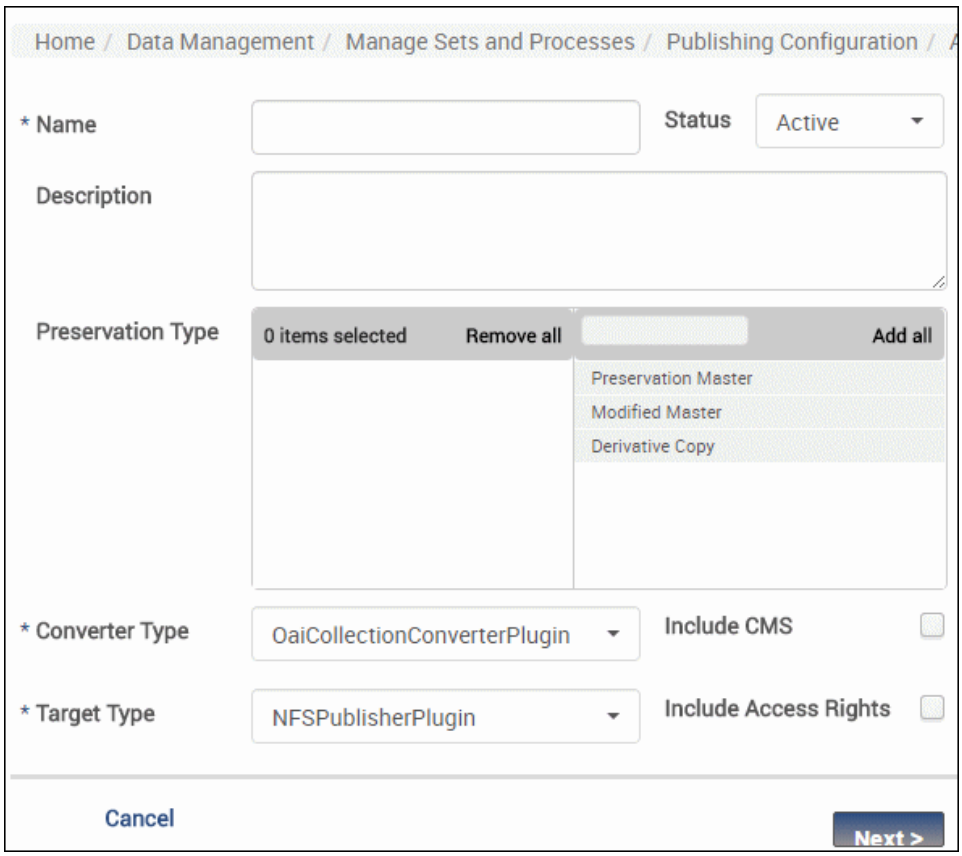
ID	Description	Preservation	Audit	Statistic
207	Process Automation framework result	N	N	N
208	Arranger - Decline SIP	N	Y	Y
209	Assessor - Forward SIP	N	N	N
210	Process Ended Execution	N	Y	N
211	Object has been locked	Y	N	N
212	Object has been rolled back	Y	Y	Y
213	Object has been committed	Y	Y	Y
214	Commit/Rollback error	N	Y	Y
215	SIP moved between stages	N	N	N
216	Started MD Validation Stage	N	N	N

6

Publishing and Delivery

6.1 Enrich Publishing with Derivative Copies

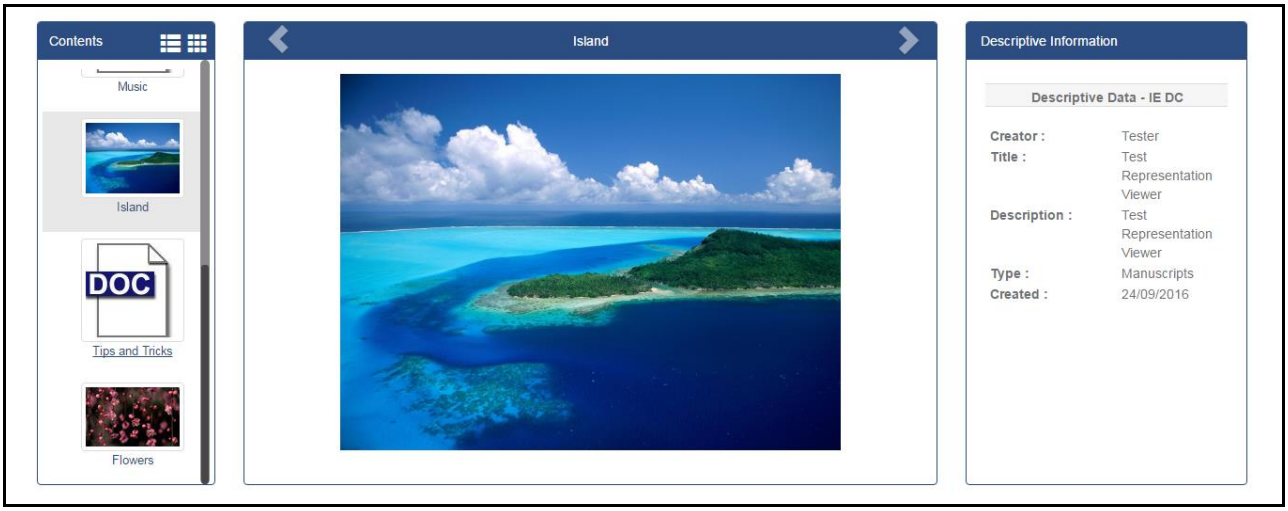
Users can now indicate the preservation type when adding publishing profiles and so publish derivative copy representation metadata, for example:



Similar UI improvements were applied to the **Export Intellectual Entities** task.

6.2 Representation Viewer

A new HTML5 viewer that accepts a single representation was added to Rosetta. This viewer can display all formats that are natively supported by the browser, such as images, audio, and video content, etc. For other formats, the viewer supports download. The following is an example of the viewer:



6.3 Mobile Support

Both the JWPlayer and the FlexPaper viewers were upgraded to new versions that supports HTML5, enabling the use of these viewers on devices that do not support Adobe® Flash®, such as mobile devices.

6.4 Setting Viewer Parameters

Any non-reserved query string parameter can now be appended to the delivery request and passed to the viewer. This can be done by appending the parameter directly on the request URL or by adding it via the delivery rules.

6.5 Allow External Viewers to be Called without Rosetta Delivery Page

It is possible now to open an external viewer without the Rosetta wrapper, that is, without the Rosetta header, footer, and the toolbar with the login/logout links.

7

APIs

The following new APIs were added:

- **getSIPStatusInfoByExternalId** – gets the SIP status through external ID and external system.
- **getSIPsStatusInfo** – returns a list of up to 1,000 **SipStatusInfo** objects.

The following APIs were updated:

- **UpdateMD** Web service's method now supports adding and updating a representation's logical structMap.
- **getIE** Web services can return now the file physical location, if required.
- Access Rights and Access Rights Exceptions web services support now also derivative copies.
- When access to a stream is denied by an access rights policy, a **401 Unauthorized status** code is returned.
- The **Locked IE** exception, which occurs when a Web service fails to run on an IE because the IE is locked, now includes a locking agent ID.