



Rosetta 6.0 Highlights

December 2018

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Infrastructure

1.1 Upgrade Spring and Quartz

Spring was upgraded to version 4.1 as a preparation for Java upgrade expected in 6.1. Quartz was upgraded to 2.2.3.

1.2 Native support for SSL communication

Native SSL protocol is now supported, saving the need to install a load-balancer solely for that purpose. All http endpoints of the Rosetta application server are secured with https in order to ensure confidentiality, integrity and authenticity of transferred data.

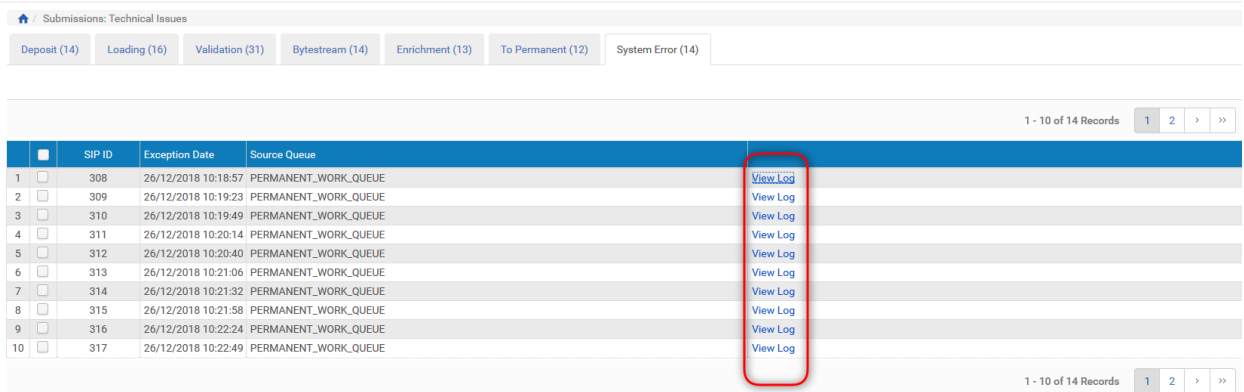
1.3 SAML - support for additional unique ID

Rosetta now supports additional unique ID for SAML authentication, beyond the existing user name.

This feature is designed to resolve use cases where users defined in multiple IDPs are authenticated in Rosetta and other scenarios where institutions require flexibility in defining the unique ID.

1.4 Access to logs for Submission TA System Errors

Error logs are now accessible from the System Errors tab of the TA workbench. This feature was requested by the working groups in order to enable initial trouble-shooting and possible quick resolution by the customers.



The screenshot shows the 'Submissions: Technical Issues' interface. At the top, there are tabs for 'Deposit (14)', 'Loading (16)', 'Validation (31)', 'Bytestream (14)', 'Enrichment (13)', 'To Permanent (12)', and 'System Error (14)'. Below the tabs is a table with 10 rows of error records. Each row has a checkbox, a SIP ID, an Exception Date, and a Source Queue. A red box highlights the 'View Log' link in the rightmost column of each row. The table is paginated to show 1-10 of 14 records.

	<input type="checkbox"/>	SIP ID	Exception Date	Source Queue	View Log
1	<input type="checkbox"/>	308	26/12/2018 10:18:57	PERMANENT_WORK_QUEUE	View Log
2	<input type="checkbox"/>	309	26/12/2018 10:19:23	PERMANENT_WORK_QUEUE	View Log
3	<input type="checkbox"/>	310	26/12/2018 10:19:49	PERMANENT_WORK_QUEUE	View Log
4	<input type="checkbox"/>	311	26/12/2018 10:20:14	PERMANENT_WORK_QUEUE	View Log
5	<input type="checkbox"/>	312	26/12/2018 10:20:40	PERMANENT_WORK_QUEUE	View Log
6	<input type="checkbox"/>	313	26/12/2018 10:21:06	PERMANENT_WORK_QUEUE	View Log
7	<input type="checkbox"/>	314	26/12/2018 10:21:32	PERMANENT_WORK_QUEUE	View Log
8	<input type="checkbox"/>	315	26/12/2018 10:21:58	PERMANENT_WORK_QUEUE	View Log
9	<input type="checkbox"/>	316	26/12/2018 10:22:24	PERMANENT_WORK_QUEUE	View Log
10	<input type="checkbox"/>	317	26/12/2018 10:22:49	PERMANENT_WORK_QUEUE	View Log

Figure 1 Access to logs

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Preservation

2.1 Risk management in the local format library

A format risk can be maintained locally by an institution by adding a new property- or tool-driven risk to the local format library.

This is required for institutions that define local risks, whether as a specific policy or acceptance of certain significant properties. The locally defined risks will be retained during global format library updates and will have no impact on the existing management of global risks.

The screenshot displays the ExLibris Rosetta Management interface. At the top, the ExLibris logo and 'Rosetta Management' are visible, along with user information (John Smith - Demo Institution) and language settings (English). A navigation menu includes 'Deposits', 'Submissions', 'Data Management', and 'Preservation'. The main content area is titled 'Preservation: Formats / Details' and shows a summary for format 'fmt/46' (Rich Text Format, Text (Structured)), created and updated on 03/12/2009 by Ex Libris. Below this, there are tabs for 'General Details', 'Related Applications', 'Risk Identifiers', 'Sustainability Factors', 'Notes', and 'History'. The 'Risk Identifiers' tab is active, showing a table of two local risk identifiers. The 'Add Risk Identifier' button is highlighted with a red box. The table lists two risk identifiers: 'RTF_CONTROLWORD_ERROR_46' (RTF Controlword Error, TOOL_DRIVEN, Global) and 'RTF_CHARSET_ERROR_46' (RTF Charset Error, TOOL_DRIVEN, Global). A 'Back' button and a 'Switch to Global' button are also visible.

Active	Risk Name	Risk Identifier	Risk Type	Risk Source	
1	RTF_CONTROLWORD_ERROR_46	RTF Controlword Error	TOOL_DRIVEN	Global	View Note
2	RTF_CHARSET_ERROR_46	RTF Charset Error	TOOL_DRIVEN	Global	View Note

Figure 2 Local Risk Identifier

2.2 Validate DNX during ingest

This feature adds DNX content validation during METS deposits, in addition to current METS validation.

The `validate_with_rosetta_mets` general parameter was expanded to cover DNX records too, and when enabled, an invalid DNX will cause the submission to fail to Deposit TA workbench and the validation error will be displayed to the TA.

Any IE which will be validated during deposit will then be validated for every AIP commit in the permanent.

Rosetta will add METS and DNX namespaces and version information for validated files. This information can then be used by customers for validating METS files against the equivalent XSD of the same version, externally to Rosetta.

```
<mets xmlns:mets="http://www.exlibrisgroup.com/dps/rosettaMets/1" version="1.0">  
<dnx xmlns:dnx="http://www.exlibrisgroup.com/dps/dnx/1" version="1.0">
```

Figure 3 METS and DNX versions

3

Data Management

3.1 File-level Access Rights

Access rights can be managed on the file-level. This feature provides a solution for representations which have a more restrictive access policy on selected files within the representation, preventing the need for separate representations for the restricted files. Customers will be able to enable or disable the visibility of the restricted files in the viewer.

When a user requests access to an IE, representation or file, the system checks the access rights from the IE level down to file level, blocking access at any stage in case the access rights policy is not met.

The screenshot shows the Rosetta Management interface. At the top, there is a navigation bar with the ExLibris logo and 'Rosetta Management'. Below this is a breadcrumb trail: 'Data Management: Search for Objects / Details'. The main content area displays metadata for an Intellectual Entity (IE1120), including creation and commitment dates, and the user 'admin1'. A yellow banner indicates the user is 'Locked By: Me'. The interface is divided into two panels. The left panel shows a tree view of the IE's contents, with the file 'File (FL25959, 82Kb)' highlighted in yellow. A red arrow points from this file to the right panel. The right panel shows the 'File Summary' tab, which contains a table of access rights for the selected file.

Name	Type	Mfid		
DNX	DNX	DNX_FL25959	Edit	
Policy	Access Rights	AR_5_CONCURRENT_USERS	View	Remove

Figure 4 File level access right

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Delivery

4.1 Mobile Support for the IE Viewer

The IE Viewer has been adapted to mobile platforms, providing a responsive and intuitive user experience. Users can swipe between files or easily browse multiple files in the content structure page. Complementary pages were also adapted to mobile user experience, including login, copyrights and error pages.

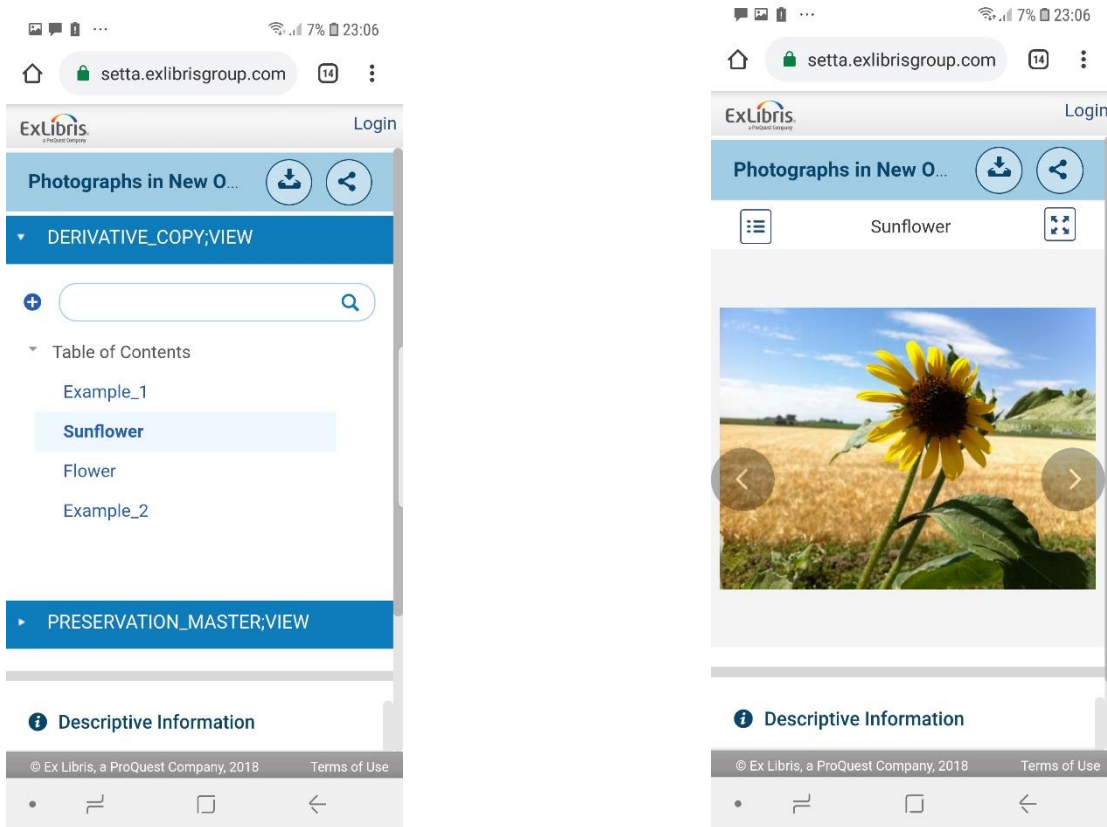


Figure 5 IE viewer on Mobile

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User Experience

5.1 User Preferences

Rosetta user preferences can now be personalized by individual staff members, providing further efficiency in the system usage, reducing number of required actions for reaching target pages etc., including the following:

1. Favorites menu – any page in the management module of Rosetta can be tagged as favorite and will appear in the new 'favorites' menu. Favorite items can be easily removed or reordered in the menu.
2. 3A Workbench – Many elements of the 3A (assessor, approver, arranger) workbench layout can be adjusted according to specific user preferences, including column attributes, sorting, list vs thumbnail view, page size and more.
3. Search Results – User can set preferences for various attributes of the result list, including sorting, field selection, page size, facets display and more.

Further similar improvements are scheduled for upcoming versions.

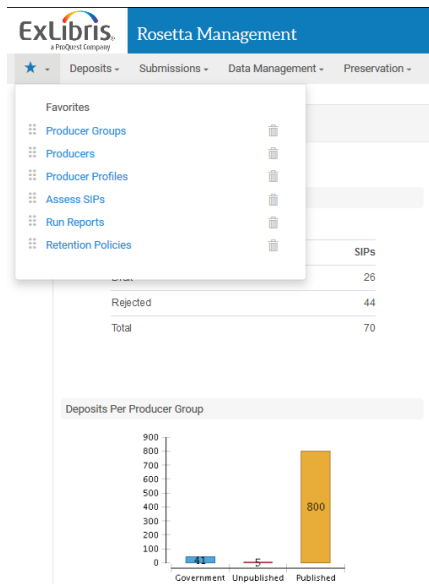


Figure 6 Favorites Menu

5.2 Option for free text in the search dropdowns list

Search text in Rosetta UI can be provided as free text, in addition to existing option of selecting from an auto-completed drop-down list.

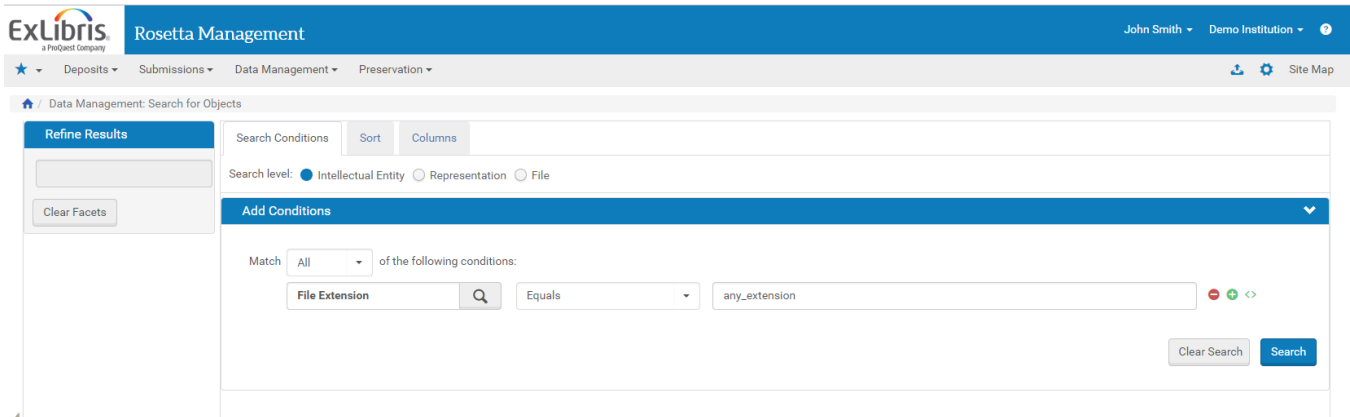


Figure 7 Free search text

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Integrations

6.1 API for Adding Representations of any type

A new `addRepresentation` API enables adding representations to an IE in the permanent storage.

Customers identified the need to add a new representation of any preservation type to an existing AIP in an automated way, in addition to the existing capability to add a derivative copy.

6.2 SRU Request on the file level

Added support for SRU request on the file level, beyond existing IE level. This feature enables integrating with external systems which require searching for specific file PIDs and directly accessing the file.

6.3 Distinguish fully and partially indexed results

SRU responses now distinguish between full and partial query results due to unavailable index servers.

Reliable index data was recognized by customers as a crucial aspect of automated workflows, leading to the current and other indexing-related enhancements. Further similar improvements are scheduled for upcoming versions.

6.4 Permanent Storage plugin for Google

Rosetta out-of-the-box set of permanent storage handler plugins was expanded to include Google Cloud, in addition to existing Amazon, Netapp and NFS storage handlers.