



Rosetta 4.0 Highlights

July 2014

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System Administration

SIP Processing Workers Configuration UI

SIP Processing Workers can now be configured on each server from the Administration UI to easily manage the servers' load and thus to facilitate optimizing system performance. When no environment bottlenecks are detected (CPU, network, I/O), simply increase the SIP-processing worker thread level to make your servers work harder and increase SIP throughput. To ensure UI high-availability, lower the level on one or more of your REP servers, or consider reserving one of your REP servers for UI functionality by setting its level to 0 and directing your load balancer to this server.

Home > Advanced Configuration > General > SIP Processing Workers

Waiting SIPs: 0 In Processing SIPs: 0 Default Level: 4

Server Name	Level	Server Role
1 il-perfrosetta11.corp.exlibrisgroup.com	7	DEP.REP.DEL.PER.IDX
2 il-perfrosetta12.corp.exlibrisgroup.com	2	DEP.REP.DEL.PER.IDX
3 il-perfrosetta13.corp.exlibrisgroup.com	4	DEP.REP.DEL.PER.IDX

Cancel Commit Changes

Full Delivery Separation

For increased end-user availability, delivery servers can now operate independently so that even if the Repository servers are down or heavily loaded, users can still view objects.

Auto-Update Format Library

The Format Library Updates job (formerly Format Library Updates Check) can now be configured to auto-install newly available Format Library versions.

The screenshot displays the 'Job Details' page for 'Format Library Updates' in the ExLibris Rosetta Administration system. The page includes a navigation breadcrumb: Home > Advanced Configuration > Manage Scheduled Jobs > Job Details. A table at the top provides job metadata:

Name	Frequency	Previous Fire Time
Format Library Updates	Every Sunday at 2:00	-
Role	From Date	Next Fire Time
Repository	12/05/2014 19:26:55	15/06/2014 02:00:00
State	Until Date	-
Normal	-	

Below the table, there are tabs for scheduling: Hourly, Daily, Weekly, Monthly, and Advanced. The 'Advanced' tab is selected, showing configuration options for 'Start At' (Time: 02, Date: 12 June 2014), 'Repeat' (Indefinitely selected), and 'Week days' (checkboxes for Monday through Saturday). A blue circle highlights the 'Install Automatically' checkbox, which is currently unchecked. At the bottom, there are buttons for 'Back', 'Refresh', 'Unschedule', 'Run Now', and 'Apply'. The footer indicates '© Ex Libris Ltd., 2014'.

Storage Space Checker

Storage Space Checker is a new start-up check plugin that checks the free space of every NFS storage group and sends alerts when free space reaches specified thresholds.

Two threshold parameters are defined as part of this plugin:

1. Warning Threshold - Default is 5%.
2. Error Threshold - Default is 1%.

This plugin checks only storage units that use the Max Capacity parameter, which is defined in the storage parameter MAX_SIZE_IN_MB.

ExLibris Rosetta Administration User:

Home **Advanced Configuration**

Home > Advanced Configuration > Plug-In Management > Plug-In Information

Plugin Information

Plug-In Id	40616	Plug-In Name	StartUp-StorageSpaceChecker
Plug-In Type Name	StartUpCheckPlugin	Implementation Type	JAVA
Implementation Name	com.exlibris.dps.repository.pl...	Interface	-
Owner	CRS00	Material Type	DIGITAL
Family Type	TASK	Description	StorageSpaceChecker
Resource Type	-	Module	-
Status	ACTIVE	Public API	-

Contact Information

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Telephone 1	(050)746-1234		

Plugin Parameters

* Warning Threshold (%)	<input type="text" value="5"/>
* Error Threshold (%)	<input type="text" value="1"/>

2

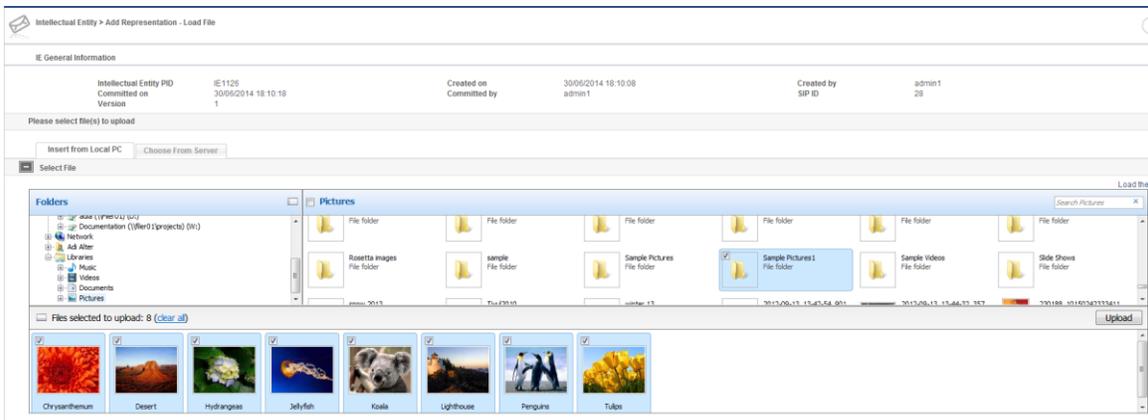
Deposit

Folder Submission

Rosetta 4.0 includes several improvements targeting workflows that include the submission of entire folders.

Aurigma's Upload Suite

The Aurigma uploader has been upgraded to a version that enables uploading complete folders and their subfolders (as well as an improved user interface, including drag-and-drop functionality). All files under the root directory will compose one IE. A logical structmap can be generated as part of the enrichment task chain to represent the folder structure (see below). Aurigma's uploader requires a valid license. For an explanation on how to install Aurigma's license on your Rosetta system see *KCS # 000023852 - How to allow bulk upload option (Aurigma license)*.



CSV Auto Generation

CSV Auto Generation based on the zip file structure was added to the deposit area. Detailed CSV submission formats can define one of the following CSV Generation options:

- Simple (one IE per file)
- Collection (collection per node; IE per file)
- Complex (one IE per deposit)

Collection Generation through CSV

A new object type is now supported in the CSV file - Collection. Creating a CSV file with collection information will create the collection (including descriptive metadata if provided) and assign the IEs listed under it to the created collection automatically.

An example of such a CSV file is shown below:

	A	B	C	D	E	F	G
1	Object Type	Collection Name	Collection Path	Preservation Type	File Location	File Name	Title
2	SIP						Collection CSV Test
3	Collection	playlist	cassette				
4	IE						item
5	REPRESENTATION			PRESERVATION_MASTER			
6	File				cassette/playlist/	item.png	
7	IE						itemOver
8	REPRESENTATION			PRESERVATION_MASTER			
9	File				cassette/playlist/	itemOver.png	
10	IE						sliderThumb
11	REPRESENTATION			PRESERVATION_MASTER			
12	File				cassette/playlist/	sliderThumb.png	
13	IE						sliderRail
14	REPRESENTATION			PRESERVATION_MASTER			
15	File				cassette/playlist/	sliderRail.png	
16	IE						background
17	REPRESENTATION			PRESERVATION_MASTER			
18	File				cassette/playlist/	background.png	
19	Collection	dock	cassette				
20	IE						button
21	REPRESENTATION			PRESERVATION_MASTER			
22	File				cassette/dock/	button.png	
23	Collection	cassette					
24	IE						cassette
25	REPRESENTATION			PRESERVATION_MASTER			
26	File				cassette/	cassette.xml	
27	Collection	display	cassette				
28	IE						mutelcon
29	REPRESENTATION			PRESERVATION_MASTER			
30	File				cassette/display/	mutelcon.png	
31	IE						bufferIcon
32	REPRESENTATION			PRESERVATION_MASTER			
33	File				cassette/display/	bufferIcon.png	
34	IE						background
35	REPRESENTATION			PRESERVATION_MASTER			
36	File				cassette/display/	background.png	
37	IE						errorIcon
38	REPRESENTATION			PRESERVATION_MASTER			
39	File				cassette/display/	errorIcon.png	

This CSV file will generate the following collection:

The screenshot shows the ExLibris Rosetta Management interface. The top navigation bar includes 'Home', 'Producers', 'Submissions', 'Data Management', and 'Preservation'. The user is identified as 'John Smith' from 'Demo Institution'. The breadcrumb trail is 'Home > Data Management > Collection Management > Collections Management'. On the left, a tree view shows a collection named 'playlist' selected. The main content area displays the collection details for 'playlist' (Collection ID: 240625, Creation Date: 7/7/14). Below this, a table shows the collection's contents:

Title	PID	View	Info
1 item	IE4302	View	Info
2 itemOver	IE4305	View	Info
3 sliderThumb	IE4308	View	Info
4 sliderRail	IE4311	View	Info
5 background	IE4314	View	Info

Generating a Logical Structmap

A logical structmap can now be generated for a representation using the Generate Logical Structmap Task. The generated structmap will be based on the content of each file's `fileOriginalPath DNX` value, with a forward or backward slash as a delimiter (the file name is ignored). This task can be added to an enrichment task chain.

Support METS xlink to Absolute and Remote Paths

METS automated deposit now supports absolute and remote paths (via HTTP) defined under xlink.

- To add a remote path, simply add the url (starting with `http://`).
- To add an absolute path, make sure it starts with `"/`.

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Data Management

Repository Technical Analysis

Technical Analysts can now conveniently address issues detected by running a validation stack process in the repository similar to the way they are addressed during SIP processing. This includes using the Rule Engine to address errors as well as a workflow for replacing problematic files (such as those with virus infections or bit-rot).

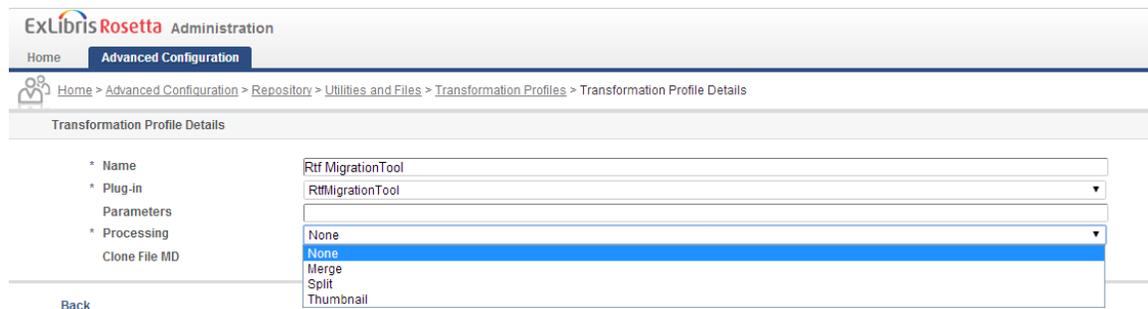
The screenshot displays the ExLibris Rosetta Management interface. At the top, the user is identified as John Smith from Demo Institution, with options for language (English) and a logout button. The main navigation bar includes Home, Producers, Submissions, Data Management (selected), and Preservation. A breadcrumb trail shows the path: Home > Data Management > Manage Sets and Processes > Validation. Below this, there are filters for Loading (0), Validation (3), Enrichment (0), To Permanent (0), and System Error (0). A dropdown menu is set to 'Filter All'. The table shows 1 - 3 of 3 records. The table columns are: Mode, IE PID, Title, Process ID, Process Owner, Problems, Assigned To, and Actions. The first record (ID 1) is a Taskchain for IE2412 titled 'Sunset' with Process ID 96391 and Process Owner admin1. It shows '100% failed' and is assigned to admin1. The second record (ID 2) is a Taskchain for IE2869 titled 'Selenium Title' with Process ID 166106 and Process Owner admin1, also '100% failed' and assigned to admin1. The third record (ID 3) is a Taskchain for IE2872 titled 'Selenium Title' with Process ID 166106 and Process Owner admin1, also '100% failed' and assigned to admin1. A detailed view for the first record shows: Virus Check: 1 files, Fixity Check: 0 files, Format Validation: 0 file, and Technical MD Extract: 0 files. At the bottom, there is a '< Back' button and a 'Continue' dropdown menu with an 'Execute' button.

	<input type="checkbox"/>	Mode	IE PID	Title	Process ID	Process Owner	Problems	Assigned To	Actions		
1	<input type="checkbox"/>	Taskchain	IE2412	Sunset	96391	admin1	100% failed	admin1	Work On	Ignore	Un Assign
2	<input type="checkbox"/>	Taskchain	IE2869	Selenium Title	166106	admin1	100% failed	admin1	Work On	Ignore	Un Assign
3	<input type="checkbox"/>	Taskchain	IE2872	Selenium Title	166106	admin1	100% failed	admin1	Work On	Ignore	Un Assign

New Derivative Representation Generation Infrastructure

There is a new plugin-based mechanism for generating derivative representations and thumbnails. The plugin is used by a Transformation Profile that can be used to generate derivative copies where one-to-many or many-to-one relations exist between the original file format and the derivative copy format (for example, one multi-page TIFF file to several JPEGs, several TIFF files to one PDF, one multi-image TIFF file to several JPEGs).

The legacy Stream Handler framework is now deprecated, and Ex Libris recommends that you migrate your existing Stream Handler-based workflows to use the new method. See *KCS #000023851 - How to migrate derivative copy creation configuration to use the new transformation profile* for migrating instructions.



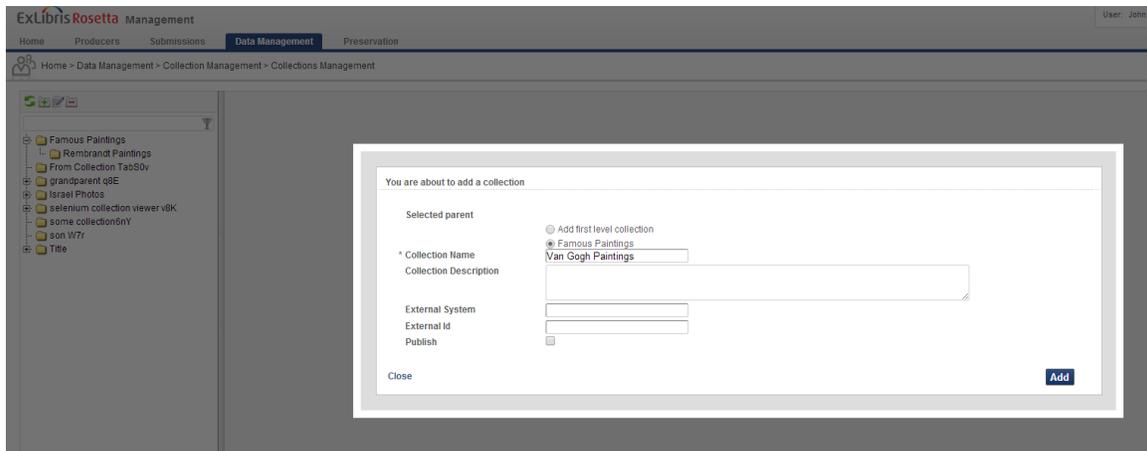
The screenshot shows the 'ExLibris Rosetta Administration' interface. The breadcrumb trail is: Home > Advanced Configuration > Repository > Utilities and Files > Transformation Profiles > Transformation Profile Details. The 'Transformation Profile Details' section contains the following fields:

* Name	Rtf MigrationTool
* Plug-in	RtfMigrationTool
Parameters	
* Processing	None
Clone File MD	None Merge Split Thumbnail

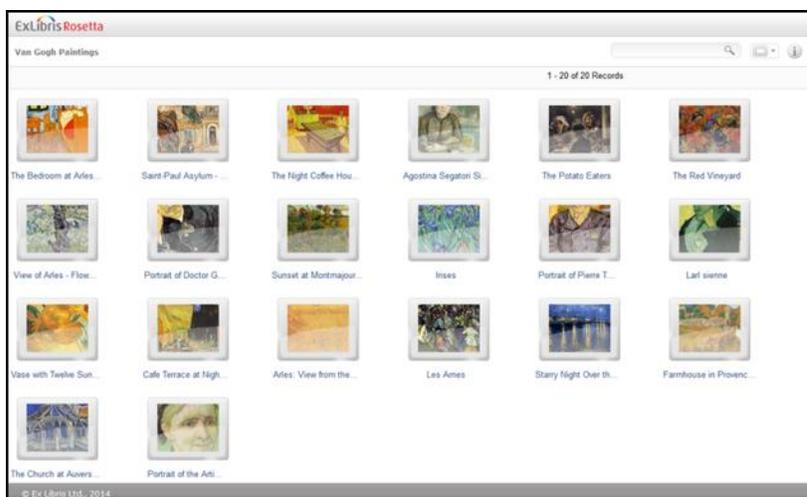
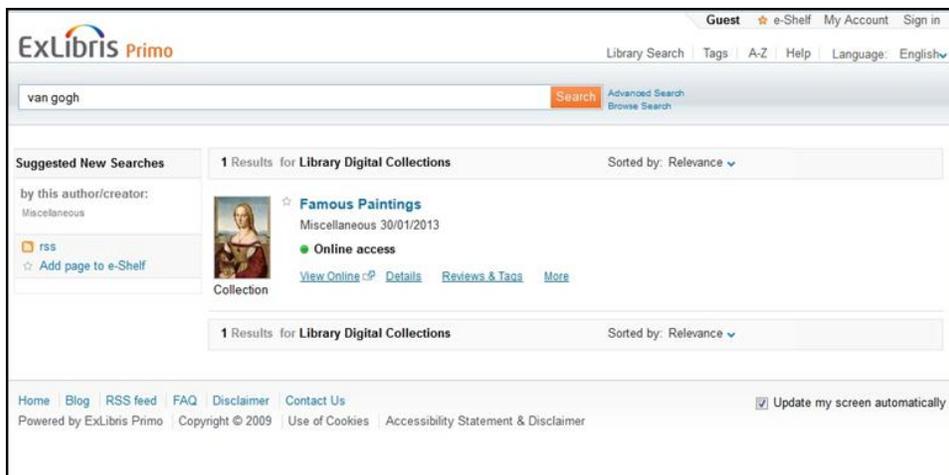
A 'Back' link is located at the bottom left of the form.

Collection Publishing

Rosetta can now publish collections using the OAI-PMH protocol.



This enables data harvesters such as Primo to easily discover collections residing in Rosetta, as can be seen in the following screenshots:



Enforce Access Rights on Export/Download File

Rosetta can be configured to apply access rights restrictions when performing an IE/REP export and file download through the Web editor/search.

- If IE-level access rights are not met, the IE will not be exported.
- If there are several Representations with different access rights, only those to which the user has rights will be included in the exported IE.

ExLibris Rosetta

User: John Smith | Institution: Demo Institution | Help | Logout

Home Producers Submissions **Data Management** Preservation Site Map

Intellectual Entity

Intellectual Entity PID	IE1000	Created on	25/06/2014 18:18:10	Created by	admin1
Committed on	07/07/2014 09:48:00	Committed by	admin1	SIP ID	1
Version	4				

This operation is not allowed due to AR policy

IE (IE1000)

- Preservation Master Revision 1 (REP1001)
- File (FL1002_46Kb)

Object Summary Metadata Services Collections Versions

[View Object](#)

PID	IE1000
SIP ID	1
Created on	25/06/2014 18:18:10
Created by	admin1
Updated on	07/07/2014 09:46:27
Updated by	admin1
Entity Type	Newspaper
Number of Reprs	1
Status	ACTIVE

< Back

Actions: IE Export

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Delivery

New Delivery API for IE Retrieval

A new API named `getExtendedIEByDVS` was added to the Delivery Web Services. It returns an IE METS document associated with a provided `dvs` (generated by a delivery session), and supports a `flags` parameter that extends the IE METS by including additional elements (such as file-level metadata, or access rights). A full description is available on the [Developer Network](#).

The `getIEByDVS` and `getFullIEByDVS` APIs are now deprecated and we recommend migrating your applications to use the new API.