



Rosetta 3.0 Beta - Test Plan

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Introduction

This document specifies the main changes that are delivered in Rosetta 3.0 Beta version and the recommended test cases that should be tested during the testing period.

The goal of implementing the Beta version is to allow the users to experience most of the features that will be in Rosetta 3.0 in advance.

In order to make the most of this installation, it is important to set the expectations regarding the suggested test cases and communicate back to Ex Libris, as soon as possible, all the issues that can and should be fixed before the installation of version 3.0 GA.

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New Search Engine (SOLR)

Overview

The new search mechanism (SOLR) replaces the existing functionality that relied on Oracle Text. The main differences between the two mechanisms are:

- ❖ Performance – The SOLR based search should improve the performance time. Every list in the UI should display results much faster than before. That includes the list of Producers, list of Material Flows, list of SIPs in the TA/Assessor/Approver/Arranger work areas and any kind of search for IEs (Queries, Sets)
- ❖ Available fields – The SOLR index includes all the DNX fields of the IE. This is in addition to the descriptive metadata of the IE and the CMS. Limitations that we had before do not apply any more ('F' fields)
- ❖ UI – The user interface has changed in order to accommodate the new capabilities of searching by any field.

For more details about this new functionality see the *Rosetta Next Generation Search – White Paper* under [Ex Libris Documentation Center > Rosetta > Technical Documentation > Version 3.x > White Papers](#)

Suggested Test Cases

- Create sets and queries based on IE/Representation/File fields
- Measure search performance times with different search criteria
- Open lists of SIPs in TA/3A
- Export search results to Excel

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Collections

Overview

Rosetta 3.0 introduces the new Collection entity. The Collection is a level that aggregates IEs and holds descriptive metadata that is relevant to all the IEs. Multiple levels of Collections and sub-Collections are supported.

The following actions are available:

- ❖ Create a Collection through the UI
- ❖ Add descriptive metadata to the Collection
- ❖ Add source metadata to the Collection
- ❖ Update Collection's metadata
- ❖ Delete Collection (Only if empty)
- ❖ Associate IEs to Collection in one of two ways:
 - Based on the Collection name stored in a DC field.
 - Based on the Collection name
- ❖ Dis-associate IE from the Collection
- ❖ Delete/Restore IE that belongs to Collection

For more details about this new functionality see the *Rosetta Collection Support – White Paper* under [Ex Libris Documentation Center > Rosetta > Technical Documentation > Version 3.x > White Papers](#)

Suggested Test Cases

- Configure a task chain that can run as part of Enrichment (in addition to define them as Maintenance and Web-Editor) , for associating IEs to Collection based on their DC fields (e.g. dc:isPartOf)
- Deposit IEs that should be part of Collection(s). The name of the Collection should be in one of the DC fields (e.g. dc:isPartOf)
- Open List of Collections and review the new Collections with their content
- Update Collection's metadata
- Run the tasks for associating IEs in Permanent to Collection(s)
- Run the tasks for dis-associating IEs from their Collections

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Validation Stack Rules

Overview

The rules for automatic handling of errors in the validation stack were enhanced. The rules now support the creation of rules from within the TA workbench for three types of errors:

- ❖ Format Identification – No single format was identified by DROID. The user can handle the specific problematic file and also save the decision as a rule that will apply to all future cases.
- ❖ Format Identification: File Extension Mismatch – When the format was identified but the file extension of the file doesn't match the list of file extensions of the format (as they are stored in the Format Library), the SIP will land in the TA workbench. The user can ignore this error and allow the file to continue to be processed. In addition, the user can save this decision to be a rule for future cases of such mismatch.
- ❖ MD Extraction Errors – When the MD Extraction task of the VS failed to extract technical metadata, the SIP will land in the TA workbench. The user can review the exact error message and decide if this error can be ignored. In addition, the decision can be saved for future cases when the same format will fail with the same error message(s).

In addition to handling these errors from within the TA workbench, users can manage the rules from the list of rules – update them by adding new parameters or removing parameters, add new rules and delete existing rules.

Note: The existing MD Extraction Rules will be migrated to the new structure of rules. However, the rules will catch all error messages (for the given format) until specific errors will be specified.

Suggested Test Cases

- Create new rules for SIPs that are in TA
- Create/update rules from the list of rules (Submissions > Configure Settings)

- Deposit IEs with files that should be handled by the rules
- Review the IEs in the web-editor – Make sure the information about the rules is captured in the DNX of each file

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XSL Content Structure

Overview

Rosetta introduces a new content structure for automatic deposit (automatic material flows). In addition to the METS content structure, users can deposit SIPs with any kind of XML format as input, through a material flow that uses the 'XSL content structure'. The content structure contains an XSL that maps between the input XML format and DC.

For example - users can create an XSL that maps between MODS and DC and then deposit a MODS XML along with the stream files. The system will map between the input MODS file and the DC format that will be the descriptive metadata of the IE.

Suggested Test Cases

- Create a new XSL content structure
- Create an automated Material Flow that uses the XSL content structure
- Deposit SIP that contains stream files and XML that should be converted by the XSL
- Review the SIP/IE in the web editor while it is 3A/Permanent

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Publishing

Overview

The Publishing module was enhanced and improved to prevent cases such as duplicated records, missing records and wrong time stamps.

The new features are as follows:

- ❖ Only one publishing job – Instead of the two jobs that were used before (Publishing Comparison, Publishing Events Handler) there is only one job - Publishing Sync Job. This job runs queries to find mismatches between the publishing history tables and the entire list of IEs in sets that are part of any publishing configuration. A mismatch can be one of the following:
 - A new IE that was added to the set
 - A deleted IE that needs to be removed from the set
 - An IE that was updated since the last time it was published.
- ❖ Sync on demand – The job is manageable from the list of system processes where the system administrator can schedule it to run at any time of the day. However, the user (Data Manager) can run it at any time from the Publishing Configuration UI.

Suggested Test Cases

- Create publishing configuration and run the sync job from the UI.
- Harvest the OAI records and review the results
- Configure the Publishing Sync job and check the modified published records
- Test the cases of deleted IE and IE that was removed from the Publishing set

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Plug-In Management Changes- DROID 6 and Bundled/Local Separation

Overview

In Rosetta 3.0 the format identification task was enhanced to work with DROID version 6.0.

In addition, the task was changed so it works with DROID as a plug-in and not hard-coded. The DROID 6.0 plug-in uses a new signature file and also a special signature file for containers.

The impact for users is in the ability to identify containers better than before and the flexibility to add different tools as plug-ins, instead of DROID.

Another change in the area of plug-in management is the separation between 'bundled' plug-ins that are bundled with the service -pack and 'local' plug-ins that are managed locally.

As part of the Beta version there is no change in the UI so users cannot see any difference but some infrastructure changes were done in the plug-in management area.

In the GA version, users will be able to manage these 2 types of plug-ins through the UI, for example change the parameters of the local plug-ins or install new plug-ins and these settings will not be impacted by future service packs.

Suggested Test Cases

- Review the results of the validation stack for various formats and check if there are any issues that might be related to the new version of DROID
- Test the existing plug-ins by performing tasks that use them (e.g. different MD extractors) and see that the system behaves normally. In case there are issues that might be related to the plug-ins please let Rosetta Support know as soon as possible.