Introductions

• Zvi Fass - Rosetta Development Team Leader
  • In Ex Libris since 2006
  • Part of the Rosetta Development team since day one
  • Development Team Leader for the past two years
Objectives and Target Audience

• In this session we will learn about Ongoing Content Management in Rosetta Using Plug-ins and APIs

• Session Objective
  • Learn various automatic ways to update existing content in Rosetta

• Session Target Audience:
  • Rosetta users with basic technical orientation

Agenda

1. Repository Task Plug-in
2. Update MD Job
3. IE Update Web Services
4. Collection Update Web Services
5. Hands-on
Repository Task Plug-in

- **Java Plugin**: A Java code plug-in wrapped as a JAR file
- **Plugin Type**: RepositoryTaskPlugin

- Allows editing of IE's metadata
- At plug-in installation, an associated task that runs the plug-in is created.
- Execution can be done via Process Automation or on a specific IE
Repository Task Plug-in

- Plugin instance implements the following methods:
  - `execute`
  - `isReadOnly` - indicates if the plugin makes changes in metadata (for commit)

- Plugin implementations have access to the following data:
  - Parameters of the task – configured in the metadata of the plugin
  - `IEEditor` object – see javadoc

Repository Task Plug-in

- Dive into a code example
  - `DCReplacePlugin`
Update MD Job

• IE-level metadata
• Updates from an external source without developing an external application
• Job Scheduling (similar to the Submission Job)
• Logging
**Update MD Job**

- Locking mechanism

**Job Parameters**
- User ID/Password
- NFS Path of xml files directory
- Ignore differences in field sequence (checkbox)

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**Update MD Job – XML**

**The Update MD xml file contains:**

- A valid IE PID
- One or more metadata elements containing:
  - A subtype element (value must be "dc" or a sourceMD subtype)
  - An mid element (for sourceMD update only)
  - A content element containing a metadata record wrapped in CDATA (metadata will not be stored in CDATA)
Update MD Job – XML Example

```xml
<?xml version="1.0" encoding="UTF-8"?>
<updateMD xmlns="http://com/exlibris/digitool/repository/api/xmlbeans">
    <PID>IE5177</PID>
    <metadata>
        <content>
            <![CDATA[
                <dc:record xmlns:dc="http://purl.org/dc/elements/1.1/"
                            xmlns:dcterms="http://purl.org/dc/terms/"
                            xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
                    <dc:title>Health to health promotion.</dc:title>
                    <dc:creator>Caelli, Kathleen</dc:creator>
                    <dc:subject>health care, nurses.</dc:subject>
                    <dc:description>health care, nurses.</dc:description>
                    <dc:date>1998</dc:date>
                    <dc:type>Thesis</dc:type>
                    <dc:format>application/pdf</dc:format>
                    <dc:language>en</dc:language>
                </dc:record>]]>
        </content>
        <subType>dc</subType>
        <type>descriptive</type>
    </metadata>
</updateMD>
```

Update MD Job

- Live Demo
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IE Update Web Services
IE Update Web Services

• Allows users to retrieve an IE and update its metadata without using the Rosetta UI

• We will review a few APIs
  1. getIE
  2. getMD
  3. updateMD
  4. updateRepresentation

IE Update Web Services

• getIE - Returns the METS file of the last version of requested IE
  Parameters:
  • pdsHandle – new alternative is in next slide
  • iePid
  • Flags
    • 0 – entire Mets
    • 1 - to include all revisions and not just the latest
    • 2 - to exclude the files
    • 4 - to include shared md – CMS
    • 8 - to include shared md – AR
    • 16 -to exclude the files and include file size, Mime Type and Floca
  It is possible to combine flags, for example: 3 would return all revisions, without their files.
IE Update Web Services - Local Authentication

Local Authentication – An alternative to pdsHandle

- Since 5.2
- Basic Authentication
- Base64
- Syntax –
  \{username\}-institutionCode \{institutionCode\}:\{password\}
- Java implementation example in [GitHub](https://github.com)
- For more information see [blog](https://exlibrisgroup.com)

IE Update Web Services - Main APIs

**getMD** - API for getting the MD of a IE, REP or File. Only MD on entity level (which is in Permanent) is returned.

Parameters:
- pdsHandle
- PID
- MID – if empty, returns all PID's MDs
- type
- subType
IE Update Web Services - Main APIs

updateMD - API for updating the MD on a IE, REP or File. Request will be ignored if submitted MD is identical to existing.

Parameters:
- pdsHandle
- PID
- Metadata (MID, type, subType, content)

IE Update Web Services - updateRepresentation

updateRepresentation
- Updates an existing representation with new files.
- Replaces existing files

Returns - rip registry ID

Parameters
- pdsHandle
- IE PID
- REP PID
- submissionReason
- representationContent - Represents the updated content (next slide in detail)
IE Update Web Services - updateRepresentation

`representationContent` object

- operation (ADD, REPLACE, REMOVE)
- Label – of new file
- newFile - The file name (path) of the new file that will be added to the rep
- oldFilePid
- Fixity
- fileOriginalPath
getCollectionById
Parameters:
  • pdsHandle
  • Id

• Alternative Rest API to get Collections
  • /delivery/services/collections/{collection_id}
  • Returns a collection and any of its published subcollections
  • For example
Collection Update Web Services

**updateCollection**

- Parameters
  - pdsHandle
  - Collection (parentId, name, description, externalSystem, externalId, publish, navigate, collectionOrder, mdDc, thumbnail)
  - sort

**createCollection**

Returns the ID of new Collection

Parameters:
- pdsHandle
- Collection (parentId, name, description, externalSystem, externalId, publish, navigate, collectionOrder, mdDc, thumbnail)
**setCollectionThumbnail** - Collection webservice APIs for setting and deleting a collection thumbnail

Parameters
- `pdsHandle`
- `collectionId`
- `collectionThumbnail` - a base-64 encoded image as a string

- See [blog for an example](#)
Hands-on Application/Exercises

Hands-on – Exercise 1

Update MD Job Exercise

1. Deposit a simple IE with your own user
2. Move IE to Permanent
3. Using the MD Job - Update a IE with a new Source DC
4. Check IE Source DC
5. Using the MD Job - Update the previously created Source DC
6. Check IE Source DC
Hands-on – Exercise 2

IE Web Services Exercise

Part 1 – updating the Descriptive DC

1. Deposit a simple IE with your own user
2. Move IE to Permanent
3. Get the Descriptive DC of the IE using the WS
4. Change the title of the DC
5. Update the IE Descriptive DC using the WS

Part 2 – Creating a new Struct Map

1. Check if your IE has a Logical Struct Map using the WS
2. Create a new one using the WS

Next Steps and Support Resources
Next Steps and Support Resources

• Include documentation links relative to the topic:
  • Metadata Update Job – should review...
  • IE Update Web Services
  • Collection Web Services

• Additional support resources within the ExLibris Ecosystem:
  • Idea Exchange
  • System Status Pages: Single Tenant ENV / Multi-Tenant ENV
  • Developer Network

• Technical Seminar Presentations
  (located in the Cross-Product section of the CKC)

Q & A

Any Questions?
Session Survey Evaluation

Please use the following link https://www.surveymonkey.com/r/techsem2017 to provide feedback on your sessions.

THANK YOU