Archidora

Archivematica-Islandora Integration Module

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Islandora

- Is used to “create, edit, discover, view and manage digital assets”
- Uses Fedora back-end as digital object repository
Archivematica

- Ingests digital objects
- Performs preservation micro-services
- Normalizes to preservation formats
- Generates PREMIS in METS XML files
- Produces Archival Information Packages
- Places AIPs in long-term archival storage
Archidora

- Plugin to allow Archivematica and Islandora to speak to one another
The Workflow (basic)

Files added to Islandora

Archivematica retrieves files from Fedora

Notification when stored
The Workflow (advanced)

1. Content Upload
   1.1) (Drupal cron + Fedora content validation) used to trigger content upload to Archivematica
   1.2) One upload per Fedora Object
   1.3) Metadata includes an AIP id (generated from user input or based on collection)
   1.4) Islandora saves EM-IRI from 201 response

2. Create Transfer
   2.1) Parse & validate METS.xml
   2.2) Identify files to request
   2.3) Create Transfer object
   2.4) Pass file URI's to asynchronous process

3. Collect Files
   3.1) retrieve files from Fedora REST API
   3.2) confirm checksums

4. Transfer & Ingest
   4.1) move files to watchedDirectory
   4.2) complete Transfer & Ingest (manual or auto)
   4.3) delete Hi-Res dataset from Islandora (if selected as config option)

5. Finalize Package (AIP)
   Islandora needs to know when the 'last' object in AIP has been uploaded, determined automatically or based on user input

6. Check Archivematica Status
   6.1) Request Status of Transfer

7. Status Response
   7.1 Archivematica returns info on current state of Transfer [at which stage(s)?]

8. Content deleted?
   note: content update not possible until Archivematica versioning enhancements in release 1.1 (Spring 2014)

9. Log Islandora deletion
   9.1) mark objects as deleted from access system
   9.2) update search index
   NOTE: Does not trigger Archivematica AIP delete.
Basic Image Collection

View | Manage

1 2  next  last

Horses and carriage
Houses in Strathcona
Powell Street looking west
Ship in English Bay
Strathcona rail yard
You Broke Something
chelan 009_4
chelan 010
Successfully submitted to Archivematica.

**STATUS**

Deposit initiation: complete
In the queue to be processed.

Send to Archivematica
## Submission Information Package

<table>
<thead>
<tr>
<th>Package Name</th>
<th>UUID</th>
<th>Ingest start time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Houses_in_Strathcona</td>
<td>f8ff8f12-7fb4-4fbe-89e-e-b8634d824962</td>
<td>2015-04-10 16:48</td>
</tr>
</tbody>
</table>

### Micro-service: Store AIP
- Removed bagged files
- Check if AIP is a file or directory
- Set bag file permissions
- Create AIP Pointer File
- Copy submission documentation
- Compress AIP
- Select compression level
- Select compression algorithm
- Move to compressionAIP/Decisions directory
- Prepare AIP
- Index AIP contents
- Set file permissions
- Load finished with metadata processing link

### Micro-service: Prepare AIP
- Generate METS.xml document

### Micro-service: Process metadata directory
- Process submission documentation
- Transcribe SIP contents
- Add final metadata
- Normalize
- Clean up names
- Remove cache files
- Include default SIP processingMCP.xml
- Rename SIP directory with SIP UUID
Content Preserved
<table>
<thead>
<tr>
<th>File(s)</th>
<th>AIP(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBJ_datastream ae60b967-2899-41bf-989c-a0cd9493195e</td>
<td>Houses_in_Strathcona f8ff8f12-7fb4-4fbe-860e-b8934b824902</td>
</tr>
</tbody>
</table>

(Click to view raw)
<table>
<thead>
<tr>
<th>Name</th>
<th>Size</th>
<th>Type</th>
<th>Modified</th>
</tr>
</thead>
<tbody>
<tr>
<td>data</td>
<td>495.4 kB</td>
<td>Folder</td>
<td>10 April 2015, 11:48</td>
</tr>
<tr>
<td>bag-info.txt</td>
<td>67 bytes</td>
<td>plain text data</td>
<td>10 April 2015, 11:48</td>
</tr>
<tr>
<td>bagit.txt</td>
<td>55 bytes</td>
<td>plain text data</td>
<td>10 April 2015, 11:48</td>
</tr>
<tr>
<td>manifest-sha512.txt</td>
<td>1.5 kB</td>
<td>plain text data</td>
<td>10 April 2015, 11:48</td>
</tr>
<tr>
<td>tagmanifest-md5.txt</td>
<td>145 bytes</td>
<td>plain text data</td>
<td>10 April 2015, 11:48</td>
</tr>
<tr>
<td>Name</td>
<td>Size</td>
<td>Type</td>
<td>Modified</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>-------</td>
<td>------------</td>
<td>----------------</td>
</tr>
<tr>
<td>mods</td>
<td>2.6 kB</td>
<td>Folder</td>
<td>10 April 2015, 11:48</td>
</tr>
<tr>
<td>transfer-Houses_in_Strathcona-49605a52-4309-4a1e-b62f-d0...</td>
<td>41.5 kB</td>
<td>Folder</td>
<td>10 April 2015, 11:48</td>
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<tr>
<td>islandora-31-METS.xml</td>
<td>8.0 kB</td>
<td>XML document</td>
<td>10 April 2015, 10:49</td>
</tr>
<tr>
<td>OBJECT</td>
<td>OPERATIONS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>chelan 009_4</td>
<td>delete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>chelan 014</td>
<td>delete</td>
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<tr>
<td>Houses in Strathcona</td>
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<td></td>
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<tr>
<td>Two Kinds</td>
<td>delete</td>
<td></td>
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<tr>
<td>Bolete</td>
<td>delete</td>
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</tr>
</tbody>
</table>

- **Delete Selected**
- **Delete All**

- **Don't Archive Children**
  - Don't enqueue children on ingest to be sent to archivematica.

- **Save Settings**
It’s on github.

An Islandora module

Developed by Discovery Garden

Sponsored by the University of Saskatchewan Library

Requires Archivematica 1.4.0 (upcoming)