

Guide to Islandora 11.2

This version of Islandora, including core and contributed modules, is available at <http://islandora.ca/download>.

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Introduction

Islandora combines and harnesses the power of the Drupal content management system <<http://drupal.org>> and the FedoraCommons Repository software <<http://fedora-commons.org>> to create a robust digital asset management system that can be used to meet the short and long-term collaborative requirements of digital data stewardship.

Documentation

The latest documentation, including detailed installation and user guides, can be found at: <https://wiki.duraspace.org/display/ISLANDORA/>.

New and Changed Features

To test-drive a live demo of the new Islandora release, complete with the new features listed below, please visit <http://sandbox.islandora.ca>.

XML Forms

XML Forms is collection of Drupal modules that allow for the manipulation of XML documents though Drupal forms. The Islandora Form Builder (XML_Forms modules) makes it possible for users to create, copy, and edit ingest forms, and to associate them with Content Models in the repository.

XML Form Builder

This module allows you to import, export, create, edit, and delete form definitions. The form definitions are stored in the Drupal Database.

Form Associations

Forms created or imported using the XML Form Builder can be associated with content models using the Islandora Content Model Forms module. Multiple forms can be associated with the same content model, and these forms will be available to select via a drop-down menu when ingesting with the associated content model.

Collection Manager

The Collection Manager allows you to perform a variety of collection management tasks through the web interface. You can access the Collection Manager via the 'Manage This Collection' tab in any collection object. The available functions are described in detail below.

Create Child Collection

You can create a new child collection by giving it a name and a PID, choosing the namespace, and associated it with one or more content models.

Manage Collection Policies

Here, you can add or delete content models within the scope of the current collection. When adding a content model you can choose from a drop-down menu of existing models, while the

delete function allows you to tick check boxes beside the content models you wish to remove.

Change Content Models

This function allows you to choose a content model currently used by some objects in the collection and specify a new content model to replace it with. This new model will be added to the collection policy (if it has not already been added) and all objects using the previously selected content model will become associated with the new content model.

Permanently Delete Collection

This option, which has several confirmation steps, will delete the current collection and all the objects contained within it. It is an extremely useful option when you want to delete an entire collection containing many objects, but it should be used with caution as the process is permanent.

Batch Ingest

This function allows you to ingest files that have been compressed as a .zip archive (as long as all the files in the archive are of a file-type supported by the current collection). You can provide accompanying XML files with metadata for the objects, or you can simply zip the files themselves and basic metadata records will be created automatically. Note that the process will fail on some large .zip files, depending upon the configuration of the server you are using to run Islandora.

Solution Packs

Islandora Solution Packs are small Drupal modules offering custom Content Model Objects, Workflows, and Ingest Forms. Solution Packs present a starting point for users with particular types of data, based on our experiences working with these types of data. Out of the box, they offer users the ability to ingest particular types of content, generate derivatives and metadata, and edit and update data of this type in the repository. A solution pack also provides a default empty collection for users. However, you may combine solution packs together in collection objects to create collections of mixed data. Finally, Solution Packs can be edited, extended, and customized to meet the needs of your organization.

Basic Image Solution Pack

The Basic Image Solution Pack ingests JPEG, JPG, GIF, and PNG files into your repository and uses ImageMagick to create thumbnail, medium, and large sized versions of the image. The thumbnail of the image is displayed for users when they view the collection, and the medium sized version of the image is presented to users when they view the object itself. The original file can also be viewed from this interface. All versions of the image, including the original, are listed and downloadable in the object's "Detailed List of Content."

Large Image Solution Pack

The Large Image Solution Pack ingests uncompressed TIFF and TIF images into your repository and uses ImageMagick to create thumbnail and medium sized versions of the image. The thumbnail is displayed to the viewer at the collection level. It also uses Kakadu/Djatoka to create JP2 and lossless JP2 versions, as well as to perform automated region extraction via tiles (permitting users to use the Islandora Image Viewer and zoom in and out of an image).

PDF Solution Pack

The PDF Solution Pack ingests PDFs into your repository and uses ImageMagick to create a thumbnail of the document. This thumbnail is displayed to the user at the collection level. The Google Viewer is used to display the PDF for the user.

Book Solution Pack

The Book Solution pack creates a Book Collection object consisting of a MODS metadata record. After the Book Collection object is created, users can upload a zipped directory of uncompressed TIFFs. Note that very large .zip files may fail depending upon the configuration of the server you are using to run Islandora. These TIFFs become Page objects that are members of the Book Collection Object. Page objects undergo an Optical Character Recognition (OCR) process, making their contents full-text searchable. You can use the Book module to create any paged content consisting of TIFF images of pages.

Audio Solution Pack

The Audio Solution Pack takes a WAV or MP3 file and ingests it into your Fedora repository. On ingest, the WAV file is converted to an MP3 using LAME. The MP3 can be downloaded by users, and when viewing an item that has utilized the Audio Solution Pack, the audio file can be played in JWPlayer.

Bugfixes

This release includes a large number of major and minor bugfixes. For a detailed summary of these bugfixes, please see the Islandora Duraspace JIRA at <https://jira.duraspace.org/browse/ISLANDORA>.

Cleanup

This release includes a number of readability and organizational improvements:

Modules

The Islandora suite of modules has been reorganized on the Drupal modules page. Modules are now sorted by the following categories:

- Islandora
- Islandora Dependencies
- Islandora Search
- Islandora Solution Pack
- Islandora Tools

These categories help organize the modules in a more logical way.

Islandora Configure

This page can be found on your Drupal site under Administer -> Site Configuration. It was previously titled 'Fedora Collection List.'

This section has been simplified and edited for readability. Advanced functions that most users will never need to touch are now located under the 'Advanced Configuration Options' drop-down

section. The remaining options have been reorganized and the descriptions have been changed to make their functions more obvious.

Coding Standards

Our goal is to make Islandora 100% compliant with Drupal coding standards. To this end, we have been using the Drupal Coder module to test the suite of Islandora modules, and our development team has made over a thousand code changes to bring all of the code into compliance.

Upgrading

We are working hard to stabilize Islandora and minimize upgrade upgrade issues for this release. We have developed several tools to manage upgrades from existing Islandora installations; details on these tools and other upgrade information can be found below:

Solution Packs

In order to use the new solution packs you will need to upgrade the related content models of existing objects in your repository. The Collection Manager tool - detailed above - will allow you to perform this operation at the collection level (rather than making the changes to each object individually).

Name Changes

As mentioned in the Cleanup section, we have changed the names of various Islandora components for readability and more logical organization. However, no code has been deprecated and the name changes should not affect existing Islandora installations.

Forms

Although the XML Forms modules are not required, you may want to enable them in order to take advantage of the new functionality they provide. However, please note that any existing forms in your Islandora installation will need to be recreated using the XML Form Builder.

Known Issues

1. Islandora:root - The top-level collection has been changed from islandora:top to islandora:root. This change must be reflected in the RELS-EXT Datastreams of your child collections:

```
<rdf:RDF>
  <rdf:Description rdf:about="info:fedora/islandora:
testCollection">
    <isMemberOfCollection rdf:resource= "info:fedora/
islandora:root"/>
    <hasModel rdf:resource= "info:fedora/
islandora:collectionCModel"/>
```

```
</rdf:Description>  
</rdf:RDF>
```

2. The viewer for the Book and Large Image solution packs will not function properly if 'localhost' is listed as the URL for the Fedora server in Islandora Configure (Administer > Site configuration > Islandora Configure). Instead, please specify the actual IP address of the Fedora server.

3. The PDF solution pack uses the Google viewer to display PDFs in the repository. This viewer requires anonymous access to the PDF content in your repository; therefore, if your Drupal permissions restrict anonymous access to this content the viewer will not work. We are currently working on an updated PDF solution pack that will provide an alternate viewer for these circumstances.

Contacts

For support, feedback, or to submit bug reports, please contact the Islandora Developers Google Group: <http://groups.google.com/group/islandora-dev>.

License

Islandora operates under a GNU license: <http://www.gnu.org/copyleft/gpl.html>.