Solution Packs: Managing Content with Islandora
Islandora Releases

Islandora solution packs and modules have official releases twice per year.

Provides a well tested, completely compatible snapshot of the state of Islandora code.

Don’t mix versions!
The Islandora Family

Islandora Core: Tuque, Islandora, XML Forms

Solution Packs: Collection, Basic Image, Large Image...

Utility Modules: Paged Content, XACML Editor...

Should all modules get installed on your system?
What is an Islandora Solution Pack?

Solution packs are modules that contain all the needed pieces to manage a type of content.

- Content Model
- Collection object
- XML Form
- Viewer
- Derivative generation code

Interact with Islandora “core” through hooks
Content Basics

Islandora deals with Fedora digital objects.

Objects possess datastreams:
- metadata
- binary assets
- object-to-object relationships

Content models are an object’s “type”.
Collections

Collections are normal objects with the Collection content model.

Objects are members of collections. Collections may be members of other collections.

Islandora Root -> Basic Image Collection

Any content architecture questions?
Collections & Content Models

Collections may contain objects from multiple content models
Collection Solution Pack

Create and manage collection objects
Collection Solution Pack

Introduction
This repository contains the collection solution pack. This module is required for Islandic collection functionality.

Requirements
This module requires the following modules/libraries:

- Islandora
- Tuque

NOTE: The collection solution pack requires that the resource index is enabled in Fedo of its queries using the resource index.

Installation
Install as usual, see this for further information.

Configuration
Set the default number of collection objects per page, view style, and configuration options Administration » Islandora » Core Collection (admin/islandora/basic_collection).

Default collection objects per page
52
The default number of objects to show in a collection view.

Enable/Disable the collection policy
Audio Solution Pack

Introduction

Adds all required Fedora objects to allow users to ingest and retrieve an interface

Requirements

This module requires the following modules/libraries:

- Islandora
- Tuque
- Lame (Debian/Ubuntu: `sudo apt-get install lame`)

Installation

Install as usual, see this for further information.

Configuration

Set the path for `lame` and select a viewer in Administration » Islandora (admin/islandora/audio).

Description

Consists of audio recording of a concert of Acadian music performed by Edith Butler and Donat Lacroix. Recording begins with a brief history of Acadians by Edith Butler followed by her performance of "Il me r'a volt a l'ecole?" and "Le Dix D'Avril". Each song begins with a story about the song to be performed by either Butler or Lacroix and leads into the music. The songs are duets with Interchanging vocals. Donat Lacroix performs "Le p'tit bateau," "Derriere chez-nous y'a un joll bocage" or "Derriere chez-nous y'a un champ de pois." Together Lacroix and Butler perform "Le mal de dents" followed by Butler performing "Le p'tit bouff" (a song about an old maid who is angry that she can not find a husband). Butler then sings "Au chant de l'illoette" and an untitled song. Lacroix sings "Un si gros cure," a humorous song about a parish priest and describes a bawdy wordplay with the French cure, followed by (30:53: as if the recording jumps forward might be further ahead into the song- sung by Lacroix) "Le p'tit man" which he explains is a song sung in both French and English. Lacroix then sings "La drole de vieillette," about a ninety year old woman, with Butler adding vocal accompaniment followed by Butler performing an untitled bilingual song. Recording ends at 42:02.

In collections

- Mariposa Folk Foundation
**Introduction**

Allows for the creation of book and page objects (islandora:bookCM, islandora:page). Books are essentially a collection of pages, containing only metadata and optionally a PDF file. A book's PDF can be generated from each page. Pages are based on an uploaded page image. From the uploaded TIFF files, it's possible to generate images for use in the "Islandora Bookreader". It is also possible to generate PDF files per page. OCR data can also be generated from the uploaded TIFF.

**Requirements**

This module requires the following modules/libraries:

- Islandora
- Tuque
- Islandora Paged Content
- Islandora Large Image Solution Pack
- Islandora OCR

**Installation**

Install as usual, see this for further information.

**Configuration**

Select configuration options for page derivatives, Parent Solr Field, and select a viewer object and page objects in Administration » Islandora » Book Collection (admin/islandora).
Compound Object Solution Pack

Introduction

The Islandora Compound Object Solution Pack enables generic parent-child relationships between objects. The object view of a compound object is replaced by the view of its first child. The included "Islandora Compound Object Navigation" block provides a thumbnail navigation aid for siblings. A "Compound" management tab allows for the addition and removal of parent-child relationships for each object.

Installation

Install as usual, see this for further information.

If utilizing the lazy loading image ability of the solution pack, the JAIL library must be included in the site/all/libraries/JAIL.

Configuration

Set the 'Child relationship predicate' and 'Solr filter query', as well as select option in Islandora Solution pack configuration = Compound Object Solution Pack (/adm/solution_pack_config/compound_object).

Optionally, enable the JAIL compound block to utilize the lazy loading image ability.

- Only allow compound objects to have child objects associated with them.
- Unchecked, all objects may have child objects.
- Generate a thumbnail for compound objects from their first child.
- Unchecked, the thumbnail for a compound object will be generated from its first child object.

Part of: Barre Phillips in concert with strings and voice (7 objects) manage parent

Barre Phillips in concert with strings and voice - Track 1

Barre Phillips in concert with strings and voice - Track 2

In collections

- The Music Gallery

Details

Title: Barre Phillips in concert with strings and voice

Creator(s): Barre Phillips

Publisher: The Music Gallery
# Disk Image Solution Pack

## Introduction

Adds all required Fedora objects to allow users to ingest and retrieve objects via the command line.

## Requirements

This module requires the following modules/libraries:

- Isolandora
- Tuque
- sleuthkit
- afilhtml-tools
- libafflib-dev
- libewf-dev
- owt-tools

## Installation

Install as usual, see this for further information.

Sleuthkit install:

- `sudo apt-get install libafflib-dev afilhtml-tools libewf-dev`
- `git clone https://github.com/sleuthkit/sleuthkit.git`
- `cd sleuthkit`
- `./bootstrap`
- `./configure (no need to declare --with-afflibdir if you install afilhtml-tools as described above)`

## Test

### Disk Image: Test.dd

Download:

- Disk Image: Test.dd
Islandora Entities Solution Pack

**Introduction**

This module is for adding support for entities (person, place, event, organization) to Islandora.

**Requirements**

This module requires the following modules/libraries:
- Islandora
- Islandora Basic Collection
- Islandora Solr
- Islandora Solr Metadata
- Islandora Bookmark

**Installation**

Install as usual, see this for further information.

The autocomplete for the MADS forms requires solr values. A standard installation shows transformations in basic-solr-config (example config from discoverygarden).

The link to the MADS transformation in foomToSolr.xml must be uncommented. This will depend on your installation.

**Configuration**

The Solr field for searching entities and the entity collection are configurable at Admin Islandora « Solution pack configuration « Entities (admin/islandora/solution_pack_config).

Islandora Solr Metadata must be chosen as the default metadata display. This can be set Administration « Islandora « Metadata Display (admin/islandora/metadata).

**Collection to ingest person entities in.**

<table>
<thead>
<tr>
<th>Title</th>
<th>PERSON EACCPF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creator</td>
<td></td>
</tr>
<tr>
<td>Subject</td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>Publisher</td>
<td></td>
</tr>
<tr>
<td>Contributor</td>
<td></td>
</tr>
</tbody>
</table>

**Entity searching Solr field.**

| eaccpf_name_complete_et |

**Solr base query for citations.**

`+RELS_EXT_hasModel_uri_mt:ir:citationCMModel`

**Details**

<table>
<thead>
<tr>
<th>Title</th>
<th>An Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creator</td>
<td></td>
</tr>
<tr>
<td>Subject</td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>Publisher</td>
<td></td>
</tr>
<tr>
<td>Contributor</td>
<td></td>
</tr>
</tbody>
</table>

**Collection to ingest event entities in.**

<table>
<thead>
<tr>
<th>Title</th>
<th>islandora:entity_collection</th>
</tr>
</thead>
</table>

**Collection to ingest organization entities in.**

<table>
<thead>
<tr>
<th>Title</th>
<th>islandora:entity_collection</th>
</tr>
</thead>
</table>

**Collection to ingest place entities in.**

<table>
<thead>
<tr>
<th>Title</th>
<th>islandora:entity_collection</th>
</tr>
</thead>
</table>

**An Event**

**Solr base query for theses.**

`+RELS_EXT_hasModel_uri_mt:ir:thesisCMModel`
Basic Image Solution Pack

Introduction

Creates Image Collection to hold image objects. Adds support for Image objects based on JPEG/PNG/GIF image files.

Requirements

This module requires the following modules/libraries:

- Islandora
- Tuque
- ImageMagick

To successfully create derivative data streams ImageMagick (TN & JPG) needs to be installed on the server.

Installation

Install as usual, see this for further information.

Configuration

Configure the image-tool kit to use ImageMagick rather than GD in Administration > Configuration > Media > Image Toolkit (admin/ config/media/image-toolkit). If GD is selected, TN and JPG datastreams will not be generated.
Large Image Solution Pack

Introduction

The large image solution pack loads all required Fedora objects and creates an empty "image" to accept TIFFs and create derivatives.

Requirements

This module requires the following modules/libraries:

- Islandora
- Tuque
- ImageMagick
- Kakadu (bundled with Djatoka)

To successfully create derivative data streams, ImageMagick (for TN & JPG) and Kakadu need to be installed on the server.

Installation

Install as usual, see [this](#) for further information.

Configuration

Configure the image-toolkit to use ImageMagick rather than GD in Administration → Core Media → Image Toolkit (admin/config/media/image-toolkit). If GD is selected, TN and JP will not be generated.

Description

Image of a bulldog wearing a birdcage veil
Newspaper Solution Pack

Introduction

This module packages functions for ingesting and displaying newspaper content.

Requirements

This module requires the following modules/libraries:

- Islandora
- Tuque
- Islandora Paged Content
- Islandora OCR
- Islandora Large Image Solution Pack
- Islandora Openseadragon (optional)

Installation

Install as usual, see this for further information.

Configuration

Select configuration options for page derivatives, Parent Solr Field, and select object and page objects in Administration » Islandora » Newspaper Collection /newspaper).
PDF Solution Pack

Introduction

Loads all required Fedora Objects, and creates an empty collection object to acc

Requirements

This module requires the following modules/libraries:

- Islandora
- Tuque
- ImageMagick - Debian/Ubuntu: sudo apt-get install imagemagick
- pdftotext - Debian/Ubuntu: sudo apt-get install poppler-utils

Installation

Install as usual, see this for further information.

Configuration

Configure thumbnail and preview image sizes, and set the path for pdftotext if selected in Administration » Islandora » PDF Collection (admin/islandora/pdf).

Description

Image of front and back of negative envelope, and one contact sheet. Assignment: Bad Odor Pix A.R. Clark Tannery

In collections

- Toronto Telegram
Video Solution Pack  

Introduction

Adds all required Fedora objects to allow users to ingest and retrieve video files through an interface.

This module requires libfaac. Libfaac is not free for commercial use.

Requirements

This module requires the following modules/libraries:

- Islandora
- Tuque
- FFmpeg - Compilation guides: Ubuntu, CentOS.
- ffmpeg2theora (optional) - Instructions

FFmpeg version 1.1.4 has been tested. It can be downloaded here.

Sample compile flags: `--prefix=/usr/local/stow/ffmpeg-1.1.4 --enable-gpl --enable-nonfree --enable-postproc --enable-libopencore-amrnb --enable-libopencore-amrwb --enable-libtheora --enable-libvpx --enable-libvorbis --enable-libxvid`

Installation

Install as usual, see this for further information.

Description

Consists of a digitized copy of a silent 16mm film. Film can be annotated "Bob Doan Mariposa Folk Festival,". Digitized for preservation and access purposes. Not to be copied, reproduced or distributed without expressed permission of copyright holders.

In collections

- Mariposa Folk Foundation

Details
Web ARChive Solution Pack

Introduction

Add all required Fedora objects to allow users to ingest and retrieve web archives through Islandora interface.

Requirements

This module requires the following modules/libraries:

- Islandora
- Tuque
- warc-tools

Installation

Install as usual, see this for further information.

Configuration

Set the paths for warcindex and warcfilter in Administration » Islandora » Solution configuration » Web ARChives (admin/islandora/solution_pack_config/web_archive).

Path to warcfilter executable: /usr/local/bin/warcfilter

Description

The Romanian Online Dialect Atlas is an experimental online presentation of dialect information about Romanian. The Romanian Online Dialect Atlas project proposes applying innovative contemporary methods in dialect geography to an online set of Romanian dialect data.

Download

- Warc: Romanian Online Dialect Atlas: An experimental presentation of linguistic information .warc
- PDF: Romanian Online Dialect Atlas: An experimental presentation of linguistic information .pdf
- Screenshot: Romanian Online Dialect Atlas: An experimental presentation of linguistic information .png
Flexible Workflows

Use Drupal Rules module for Event->Action configurations

- Object ingested (7.x-1.4)
- Datastream modified

Conditions: Object has relationship, XPath, Content Model

Possible Actions:

- Add or Remove XACML security policies (new)
- Write XML to datastream based on XPath value (new)
- Send e-mail
- Create token for XACML access to any user with token (new)
Flexible Workflows

<table>
<thead>
<tr>
<th>Book ingested</th>
<th>delete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object ingested</td>
<td>delete</td>
</tr>
</tbody>
</table>

**Conditions**

<table>
<thead>
<tr>
<th>ELEMENTS</th>
<th>OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check object for a relationship</td>
<td>edit delete</td>
</tr>
</tbody>
</table>

**Actions**

<table>
<thead>
<tr>
<th>ELEMENTS</th>
<th>OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Send mail</td>
<td>edit delete</td>
</tr>
<tr>
<td>Parameter: To: [site.mail], Subject: [[site.name]] &quot;[book..., Message: [book-object.label] has...</td>
<td>edit delete</td>
</tr>
<tr>
<td>Remove a relationship from an object</td>
<td>edit delete</td>
</tr>
</tbody>
</table>