

# Newspaper Solution Pack

## Overview

The Islandora Newspaper Solution Pack is a Paged Content collection that is similar to the Book solution pack, with a few key differences. Unlike a book collection, a newspaper collection is intended to represent a single publication, and each object inside that collection is intended to represent a single issue of that publication. Another level down, each object is intended to represent a page of that particular issue. The Newspaper Solution Pack is designed to make it easier to navigate between issues and pages of a single publication - closer to the nature of a newspaper or magazine - as opposed to a book, which is more commonly read page-by-page.

## Dependencies

- [Islandora](#)
- [Tuque](#)
- [Islandora Paged Content](#)
- [Islandora OCR](#) is required to create OCR and HOCR derivatives
- [Large Image Solution Pack](#) is required to create thumbnails and other image derivatives
- [ImageMagick](#) is required to create PDF datastreams
- [Ghostscript](#) is required to combine PDF datastreams into one issue-wide PDF

## Viewers

- [Open Seadragon](#) can be used to view pages and provides page and issue navigation and viewing tools
- [Internet Archive Bookreader](#) can be used to view issues

## Downloads

[Release Notes and Downloads](#)

## Usage

### Adding a newspaper, issue and page

The Islandora Newspaper Solution Pack comes with several different content models and the associated objects are intended to be ingested in a particular order:

1. A child collection is set up and given the **Islandora newspaper content model**. This represents the publication to which issues will be added.
2. Inside that collection, a new object is created; this will automatically be given the **Islandora newspaper issue content model**.
3. Within that new object, pages are added. These are automatically given the **Islandora newspaper page content model**.

Because you will be ingesting multiple issues of a publication that contains extremely similar MODS records, it is recommended to install the [MARCXML Module](#) so that the MARCXML record from one issue can be uploaded into other issues. Check the MARCXML Module page for more information on downloading and ingesting MARCXML files.

### Creating issue derivatives

Once pages are added and sorted in an issue, you can use the 'Issue' section of the issue's 'Manage' tab to create derivatives:

- Under 'Create PDF', if Ghostscript is installed on your server, you can concatenate individual PDF page datastreams into one ordered PDF datastream that can be appended to the issue itself
- Under 'Create Images', you can update the issue's thumbnail image if the first page of the issue has changed.

### Page controls

When looking at an individual page, navigation options will be given above the viewing window, listed below from left to right:

Image:  of 1 [All pages](#) [All issues](#) **View: Text** **Download: pdf (144.15 KB)** **Download: JP2 (295.74 KB)**  
**Download: TIFF (203.55 KB)**

- A drop-down menu to quickly select a page in the current issue
- Options to view the entire issue or the entire publication
- Links to download any created derivatives
- A link to download the original image

## Configuration

The Islandora Newspaper Solution Pack configuration page is accessible at [http://path.to.your.site/admin/islandora/solution\\_pack\\_config/newspaper](http://path.to.your.site/admin/islandora/solution_pack_config/newspaper), and includes the following options:

## Create Page Derivatives Locally

This section allows you to configure the Newspaper Solution Pack module to create derivative datastreams for pages. The following derivative datastreams can be set, with their accompanying dependencies:

|               |                           |
|---------------|---------------------------|
| PDF           | ImageMagick               |
| TN, JPEG, JP2 | Large Image Solution Pack |
| OCR, HOCR     | Islandora OCR             |

## Page Viewers

This section changes how Islandora handles a request in the 'View' tab of a newspaper's page object. Islandora includes out-of-the-box support for OpenSeadragon; otherwise, no viewer will be available. Check the OpenSeadragon page for more information on installing this component.

**CREATE PAGE DERIVATIVES LOCALLY**  
These options allow you to create derivatives automatically when ingesting pages, using this server. If you intend to only use microservices to generate derivatives, you should not have any of these settings enabled.  
☒ PDF datastream. Requires ImageMagick  
☒ Image datastreams (TN, JPEG, JP2). Requires Large Image Solution Pack  
☒ OCR datastreams (OCR, HOCR). Requires Islandora OCR Module

**Parent Solr Field**  
  
Solr field containing the parent issue's PID.

**ISSUE VIEWERS**  
Select a viewer  

| DEFAULT                          | LABEL                       | DESCRIPTION                                | CONFIGURATION             |
|----------------------------------|-----------------------------|--------------------------------------------|---------------------------|
| <input type="radio"/>            | None                        | Don't use a viewer for this solution pack. |                           |
| <input checked="" type="radio"/> | Internet Archive BookReader | Internet Archive BookReader.               | <a href="#">configure</a> |

Preferred viewer for your solution pack. These may be provided by third-party modules.

**PAGE VIEWERS**  
Select a viewer  

| DEFAULT                          | LABEL         | DESCRIPTION                                      | CONFIGURATION             |
|----------------------------------|---------------|--------------------------------------------------|---------------------------|
| <input type="radio"/>            | None          | Don't use a viewer for this solution pack.       |                           |
| <input checked="" type="radio"/> | OpenSeadragon | OpenSeadragon viewer with dpatoka as tilesource. | <a href="#">configure</a> |

Preferred viewer for your solution pack. These may be provided by third-party modules.

[Save configuration](#)

## Content Models, Prescribed Datastreams and Forms

The Newspaper Solution Pack comes with the following objects in [http://path.to.your.site/admin/islandora/solution\\_pack\\_config/solution\\_packs](http://path.to.your.site/admin/islandora/solution_pack_config/solution_packs):

- Content Models
  - Islandora newspaper content model (islandora:newspaperCModel)
  - Islandora newspaper issue content model (islandora:newspaperIssueCModel)
  - Islandora newspaper page content model (islandora:newspaperPageCModel)
- Default Collection Object
  - Newspaper collection (islandora:newspaper\_collection)

A newspaper issue ingested with all derivative creation options checked will have the following datastreams:

|          |                                                                              |
|----------|------------------------------------------------------------------------------|
| RELS-EXT | Default Fedora relationship metadata                                         |
| MODS     | MODS metadata form                                                           |
| DC       | Dublin Core record                                                           |
| TN       | Thumbnail image                                                              |
| PDF      | Concatenated PDF of existing newspaper page images compiled with Ghostscript |

Look at [Islandora Paged Content](#) for information on an individual page's datastreams.

The Newspaper Solution Pack comes with a MODS form that can be used to describe the Newspaper object and another form that can be used to describe Issue objects. Both of these forms are considered suggestions and users will want to review and update based on their own requirements.

## Newspaper Batch Ingest

A newspaper batch ingest utility module is available as of version 7.x-1.6. The batch ingest module uses the same framework as the ZIP and Book batch ingests to batch add issues and pages to existing newspaper objects. The newspaper batch ingest can be run from the Islandora interface or from the command line with Drush. For more information, go to the [Islandora Newspaper Batch documentation](#).

## Solution Pack Demonstration Video

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