

# Newspaper Solution Pack

## Overview

The Islandora Newspaper Solution Pack provides a content model that assembles Paged Content into newspaper issues, which are then assembled into newspaper objects. A newspaper object corresponds to a specific newspaper publication, such as the *Daily Planet*, and contains one or more issues, each of which contain one or more pages. 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. The newspaper object can be a member of one or more Islandora collections (for example, "Fictional Newspapers").

## 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 three content models, corresponding to the newspaper publication, an issue of that publication, and the pages within an issue. They must be ingested in a particular order:

1. First a Newspaper Object is created that represents the publication, such as *The Daily Planet*. This has the **Islandora Newspaper Content Model**. To create a Newspaper Object, add an object to a collection where Islandora Newspaper Content Model is allowed by the collection policy.
2. Within an existing Newspaper object, one or more Issue Objects can be created. An Issue Object represents a single issuance, for example *The Daily Planet - June 21, 1955*. Issue objects have the **Islandora newspaper issue content model**. To create an Issue Object, use the Manage tab on a Newspaper object, and select "Add Issue". To create many issues simultaneously, consider the [Islandora Newspaper Batch](#) module.
3. Issue Objects contain Newspaper Pages, which have the **Islandora newspaper page content model**. To create Page Objects:
  - a. while creating an Issue Object, you have an opportunity to upload a (multi-page) PDF representing the entire issue, and it will be automatically split up into individual pages.
  - b. Manage an existing Issue Object and select "Add Page" to create an individual page.
  - c. Manage an existing Issue Object, and from the "Issue" menu, select "Add Zipped Pages" to create multiple pages from a zipped directory of page images.
  - d. Use the [Islandora Newspaper Batch](#) module, which can automate the process for multiple issues and pages.

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: **1** 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**

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, HOOCR). **Requires Islandora OCR Module**

**Parent Solr Field**

RELS\_EXT\_isMemberOf\_url\_me

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 dptoka as filesource.	<a href="#">configure</a>

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

Save configuration

## 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, HOOCR	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.

## 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.

## Solution Pack Demonstration Video

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