

# Large Image Solution Pack

## Overview

The Large Image Solution Pack module supports ingesting and viewing TIF/TIFF files, which by nature tend to be extremely large in both filesize and resolution. The module supports creation of derivatives for use when a smaller filesize is necessary, and also supports the installation of image viewers that can accommodate the larger resolution.

## Dependencies

- [Islandora](#)
- [Tuque](#)
- [ImageMagick](#) is required to create image derivatives
- [Kakadu](#) (bundled with Djatoka)

To successfully create derivative data streams ImageMagick (TN & JPG) and Kakadu (JP2) need to be installed on the server.

## Downloads

[Release Notes and Downloads](#)

## Configuration

The Large Image Solution Pack module's configuration page can be found at [http://path.to.your.site/admin/islandora/large\\_image](http://path.to.your.site/admin/islandora/large_image), and contains the following settings:

- **Lossless Derivative Creation?:** Enabling this will force the Large Image Solution Pack to use no compression when creating derivatives.
- **Use Kakadu for Image Compression?:** The Kakadu software suite can be installed on your server to take advantage of its much faster kdu\_compress program. Check the official website at <http://www.kakadusoftware.com/> for download and installation instructions

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.

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Select configuration options and viewer in Administration > Islandora > Large Image Collection (admin/islandora/large\_image).

To use Kakadu, make sure that `kdu_compress` and `kdu_expand` are available to the Apache user. Often users will create symbolic links from `/usr/local/bin` `/kdu_compress` to their installation of Kakadu that comes bundled with [Adore-Djatoka](#). Make sure that the required dynamic libraries that come with Kakadu are accessible to `kdu_compress` and `kdu_expand`. If they are not present, attempting to run either command from the terminal will inform you it's libraries are missing. You can also use a symbolic link from `/usr/local/lib` to include these libraries, remember to restart the terminal so your changes take affect. Also, make sure the php settings allow for enough memory and upload size: `upload_max_filesize`, `post_max_size` and `memory_limit`.

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#### **Viewers**

If no viewers are installed, the Large Image Solution Pack module will use its standard viewer to display images. For better results, the [OpenSeadragon](#) library can be installed; check that page for further instructions. If it is installed, it can be selected here.

#### **Content Models, Prescribed Datastreams and Forms**

The Large Image Solution Pack comes with the following objects in `http://path.to.your.site/admin/islandora/solution_packs`:

- Islandora Large Image Content Model (islandora:sp\_large\_image\_cmodel)
- Islandora Large Image Collection (islandora:sp\_large\_image\_collection)

An image ingested using the Large Image Solution Pack's content model using ImageMagick will have the following datastreams:

RELS-EXT	Default Fedora relationship metadata
MODS	MODS record filled out during ingest
DC	Dublin Core record
OBJ	Original TIFF file uploaded
JP2	JPEG 2000 derivative created by ImageMagick or Kakadu
JPG	Medium-sized JPEG created by ImageMagick and used in the standard image viewer
TN	Thumbnail icon created from the image during the ingest process

The Large Image Solution Pack comes with the Large image MODS form.