

# Islandora FITS

## Introduction

A simple module to extend islandora solution pack install processes by adding technical metadata extraction via the File Information Tool Set (FITS).

Behind the scenes, the module tries to get as much metadata as possible from your file by running:

```
fits.sh -i infile -xc -o outfile
```

The -xc command can sometimes cause problems, so if that fails, the module tries:

```
fits.sh -i infile -x -o outfile
```

Should that fail, technical metadata extraction is aborted and the error is logged in the watchdog (see [Troubleshooting the Enterprise Setup](#)).

An error may be produced and logged in the apache error.log file even if TECHMD DS extraction is successful, as the first attempt may fail and log an error while subsequent attempts may succeed.

The most common error printed out to the error.log file that is safe to ignore is as follows:

```
"Exception in thread "main" java.lang.NullPointerException
  at edu.harvard.hul.ois.fits.FitsOutput.addStandardCombinedFormat(FitsOutput.java:310)
  at edu.harvard.hul.ois.fits.Fits.outputStandardCombinedFormat(Fits.java:294)
  at edu.harvard.hul.ois.fits.Fits.outputResults(Fits.java:275)
  at edu.harvard.hul.ois.fits.Fits.main(Fits.java:186)
Error: output cannot be converted to a standard schema format for this file"
```

Watchdog will be updated when TECHMD DS fails to generate.

## Requirements

This module requires the following modules/libraries:

- [Islandora](#)
- [Tuque](#)
- [The File Information Tool Set](#)

Clone the fits tool which can be found [here](#). Make sure it is in a location where the apache user can get access. Navigate to the fits folder and make sure `fits.sh` has executable permissions so the apache user can run the script.

## Installation

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

## Configuration

Set the path for `fits.sh` and create a name for the Technical metadata stream ID in Administration » Islandora » Islandora Utility Modules » FITS Tool (admin/islandora/tools/fits).

[blocked URL](#)

## Troubleshooting/Issues

- [Islandora Group](#)
- [Islandora Dev Group](#)

## FAQ

Q. Why didn't I get any technical metadata?

A. If you run an ingest and you don't get any technical metadata, check to make sure the permissions on the fits folder and the `fits.sh` script are correct and the apache user can run the script.

Q. Why am I getting weird errors in the log?

A. Some images and audio files will cause problems during metadata extraction. These are not fatal errors, but appear to be formats the fits script can't understand. In these cases, you will get some error reporting in the technical metadata datastream that may help determine what happened.

## Maintainers/Sponsors

Current maintainers:

- [Nelson Hart](#)

## Development

If you would like to contribute to this module, please check out [CONTRIBUTING.md](#). In addition, we have helpful [Documentation for Developers](#) info, as well as our [Developers](#) section on the [Islandora.ca](#) site.

## License

[GPLv3](#)