OPeNDAP Documentation

Quick Start

The QuickStart Guide (PDF) provides a overview of our software and its use

User Guide

The UserGuide (PDF) provides general information about the OPeNDAP software, the two versions of the Data Access Protocol (DAP) and information about access to remote data made available using DAP.

Data Access Tutorials

The Data Access Tutorials show how to use various software clients to access data using the DAP web API.

Client Authentication

Many institutions now require that you (or more accurately, your software client) must authenticate before access to data will be permitted. This is notably true for all NASA assets: Authentication is required for data access.

- You can learn about DAP Client Software Authentication here.
- You can learn about how to use NASA's EDL tokens for Client Software Authentication here.

Hyrax Installation and Configuration Guide

The Hyrax Installation and Configuration Guide (PDF) provides information about the Hyrax Data Server. In this guide you will find a description of the server's features and all of its configuration parameters. Also described in the guide are other web services that Hyrax provides, including WMS and WCS.

The OLFS: Hyrax's top-tier

The OPeNDAP Lightweight Frontend Server (OLFS) Is the top-tier of the Hyrax data server.

BES Data Server Framework

The Back End Server (BES) is the modular framework used to build the data access and manipulation layer of the Hyrax data server.

About the BES

Technical documentation about the BES describes the relationship between the BES and the OLFS, how the BES orchestration framework is built and how the BES can be extended to support different data formats, different data sources (files, databases, Web Object Stores, etc.) and return both DAP2/4 and file format responses.

Libdap library documentation

The libdap library documentation provides reference information for our implementation of DAP2 and DAP4.

Notes about this repository

How to build the documentation

The documentation is built by Travis CI with every PR which executs `asciidoctor`. Travis converts the `.adoc` source files to `.html` and then pushes these to GitHub Pages where the documentation is hosted.

When proposing changes to the documentation, we recommend first test these by building the documentation on your local computer. To do that, you will need `asciidoctor` installed in your system.

Say you are proposing changes to the `QuickStart.adoc`. On your computer then run the following command:

```
asciidoctor QuickStart.adoc
```

You can now inspect the build on your local machine by running on your terminal `open QuickStart.html`, or simply by pasting `file://<file_path>/QuickStart.html` onto any browser (`<file_path>` is the location of the `QuickStart.html` file on your filesystem. You can get this by running `pwd` in the same directory as your `QuickStart.html` file.)

About opendap.github.io/documentation/

The https://opendap.github.io/documentation/ site is populated with HTML and PDF documents that are automatically built any time an AsciiDoc file in the documentation repo is updated on the master branch.

This page comes from the *github.com/OPeNDAP/documentation* repository, but it contains links to other pages from other OPeNDAP github documentation repositories (e.g., *hyrax_guide*). To add new documentation from a new repo, first arrange to publish its content via *gh-pages* and *github.io* and then link those pages here. See the *github.com/OPeNDAP/hyrax_guide* repo and the entry above for *Master_Hyrax_Guide.html/pdf* for an example.

Automatic github.io updates

See Convert AsciiDoc to HTML/PDF & publish to GitHub Pages with Travis CI and Asciidoctor Docker containers for the low-down on how the automatic updates work.

Another take on the same sort of process - updating gh-pages from a .travis.yml file - that does not use asciidoctor: Automatically Update GitHub Pages with Travis.