

WGISS Connected Data Assets Status Report

April 30, 2019
Yonsook Enloe



WGISS Connected Data Assets Session Today



- **Introduction**
- **WGISS Connected Data Assets Status Report – Yonsook Enloe**
- **IDN Update – Michael Morahan**
- **CWIC Update – Yonsook Enloe**
- **FedEO Evolution – Andrea Della Veccia**
- **NOAA NCEI - Rich Baldwin**
- **WGISS Actions for WCDA team**



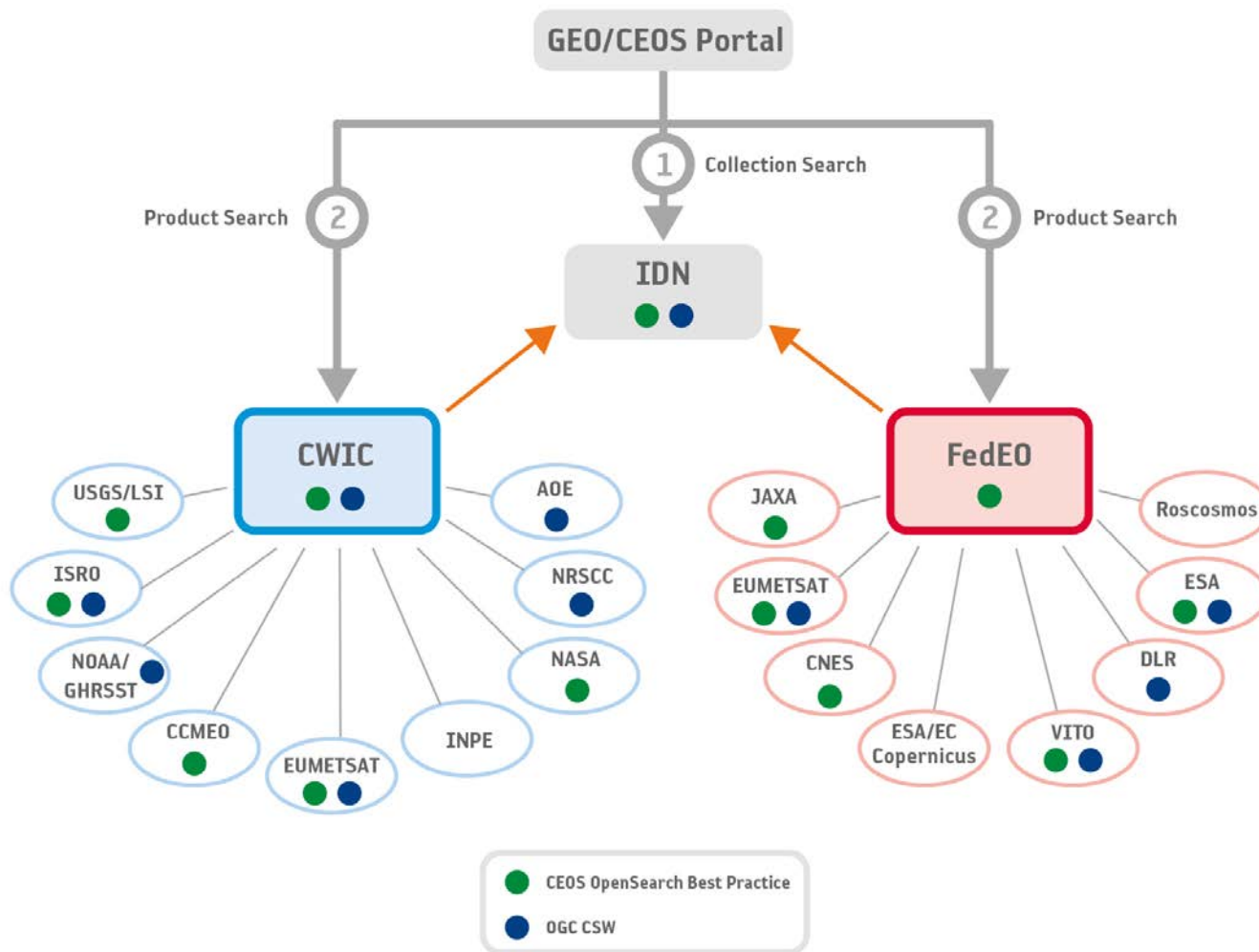
Discovery and Access

The WGISS Connected Data Assets include the International Directory Network (IDN), FedEO (Federated Earth Observation Gateway), and CWIC (CEOS WGISS Integrated Catalog). WGISS-supported standards are now used to search and access data from thousands of collections and hundreds of millions of inventory records, with additional data collections and inventory records from CEOS Agencies being added daily to this integrated system.

The WGISS Connected Data Assets also provide access to CEOS Agency datasets through their integration with the GEOSS (Global Observation System of Systems) Common Infrastructure (GCI). More and more, CEOS Agencies continue to adopt the WGISS-supported standards and make their data discoverable via the WGISS Connected Data Assets.

The WGISS Connected Data Assets System Level Team provides coordination and oversight of the operations and evolution of this integrated system and also provides technical support for CEOS partners that offer access to data and to client partners that connect to the data sources

Architecture WGISS Data Assets





- Data collection registration at the IDN using the IDN keywords; Info about how granule search is supported will be included in the data collection registration; Tag for granule access;
- Data partners need to support 1 of the 2 supported WGISS standards
 - CEOS OpenSearch Best Practices (v 2)
 - OGC CSW 2.0.2
- All searchable data must have a data access path
 - Data download
 - Data order (free or with cost)
 - Email order (free or with cost)
- Servers must have high availability (99%?)
- A technical point of contact needed for each data partner



IDN Metadata Registration set of docs and tools:

<http://ceos.org/ourwork/workinggroups/wgiss/access/international-directory-network/>

Documents completed since October 2018:

WCDA (WGISS Connected Data Assets) Client Guide

CWIC Data Partner Guide (CSW, OpenSearch)

FedEO Data Partner Guide

CWIC Synchronization Document

WCDA Error Handling



WGISS search standard documents completed:

CEOS OpenSearch Best Practices v1.2

CEOS OpenSearch Best Practices Conformance Test Plan

CEOS OpenSearch Developer's Guide



WGISS Connected Data Assets Status Page

<http://ceos.org/wgiss-connected-data-assets-status/>

- Automated updated (daily) metrics for WCDA searchable collections/granules
 - Sharing of test scripts (CWIC Synchronization document)
- Single document, WDCA Client Guide, gives details on how to search for all the data collections/granules in the WCDA
- Error handling approach agreement



- **Adding services to WCDA**
 - Data analytic services
 - Data cubes
- **Deeper search capabilities –**
 - Searching by measurements and variables
 - Searching for analytic or data services associated with data



- IDN, FedEO and CWIC accessible from Geo Web Portal and integrated via GEO DAB
- Continued participation in the GEO Data Providers->GEO Data Technology workshop
- WGISS Connected Data Assets webpage on the WGISS webpage display metrics → this info given to the GEO Sec team; The completely revamped automated page has been given to CEOS CEO and GEO Sec.
- Suggestion from FedEO team to share the CWIC Synchronization document with the GEO Sec.
- Will share the WDCA Client Guide document with the GEO data providers

Outreach to Tool Developers



- **WDCA Client Partner Guide – new document written by the System Level Team; Details how to search for collection and granule data at IDN, CWIC, and FedEO.**
 - How to search for CEOS data collections in IDN
 - How to search for CWIC/FedEO data granules
 - How to search for GEOSS tagged collections
- **Outreach to potential tool developers**
 - One page flyer targeting tool developers
 - Soft copy of the flyer will be kept on the WGISS website
 - Local printing
 - Advertise the url <http://wgiss.ceos.org/access>

Do you develop software tools for the distribution and analysis of environmental data?

CEOS WGISS can help you include data collected from the vantage point of space!

30,000+ data collections that are discoverable with over 5500+ data collections that are searchable and data downloadable.

Visit <http://wgiss.ceos.org/access> to learn how to start accessing and using our data!

CEOS is an international organization enabling partnership and collaboration across governmental agencies that develop and operate earth-observing satellites.

The 60+ CEOS member agencies currently operate 153 satellites that produce data useful for a broad set of applications.

The Working Group for Information Systems and Standards (**WGISS**) brings together experts in satellite data management and services to develop common internet-based standards that facilitate discovery, search, and access to data served by the CEOS agencies.





- **CWIC Synchronization document completed** – gives description and details (test scripts) of the daily dataset accessibility testing that is performed automatically.
 - FedEO team implemented the test scripts also
- **CWIC Data Partner Guides (CSW, OpenSearch) updated and completed**
- **Testing with NOAA One-Stop continues**
 - Ingesting updated NOAA collection metadata into IDN
 - Testing for granule search
 - NOAA One-Stop system will contain NOAA's current and heritage EO data collections



- **Support for China GEOSS system on hold until the China GEOSS system is ready for continuous access**
- **Discontinued support for the prototype clients: CWIC Start (CSW) client and the CWIC Smart (OpenSearch) client**
 - **Support will continue for the CEOS OpenSearch Validator**
 - **Software for both clients are open source for any agency that wants to stand up and operate their own client**



WGISS-46-17: WGISS CDA System Level Team (SLT) to consider access feasibility to implement defined user metrics

WGISS-46-19: To discuss way forward to implement a single front-end/portal within the IDN to access the WGISS CDA for data discovery and access

- **Mirko emphasized that searches should have CEOS branding at the IDN portal to motivate IDN registration by data providers, and that the portal should share a look and feel with the CEOS website, while at the same time displaying the identity of the data partner**