

CWIC Overview

WGISS/WGCV, Sept 2012

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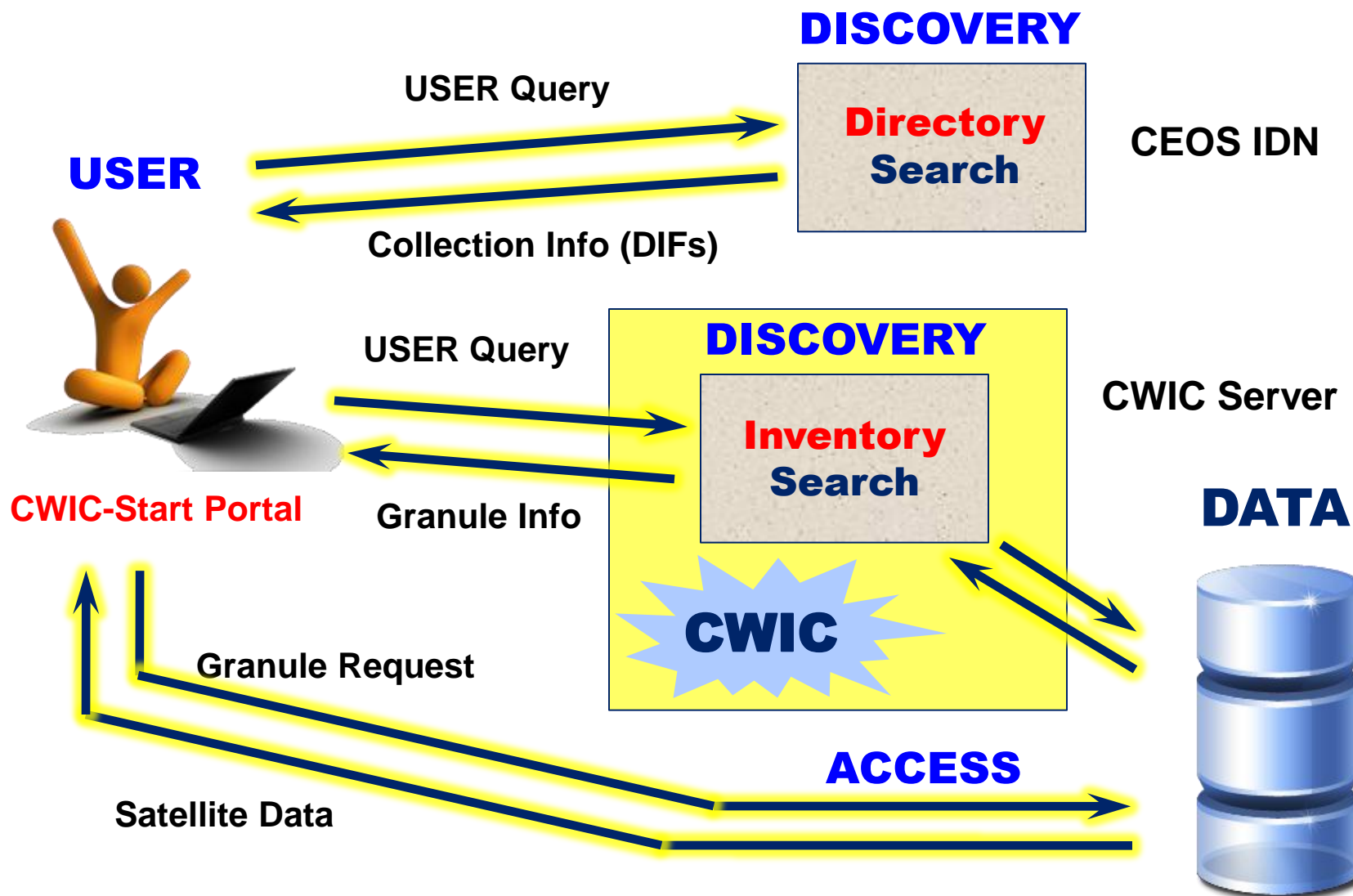
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- **CEOS WGISS Integrated Catalog (CWIC) – serves as a community catalog of products and services of CEOS member agencies**
- **Satellite data products extremely large and constantly growing with millions of individual products.**
- **Collection/granule hierarchy and unique spatial/temporal characteristics of satellite data and the user registration and asynchronous access requirements of the agency systems are challenges**
- **CWIC integrated with GEO System of Systems (GEOSS)**
- **CWIC provides an access point for search and access of CWIC partner inventory systems.**
- **CWIC provides translation from the GEO supported catalog standards to each agency's EO inventory system.**

CEOS Data Discovery and Access



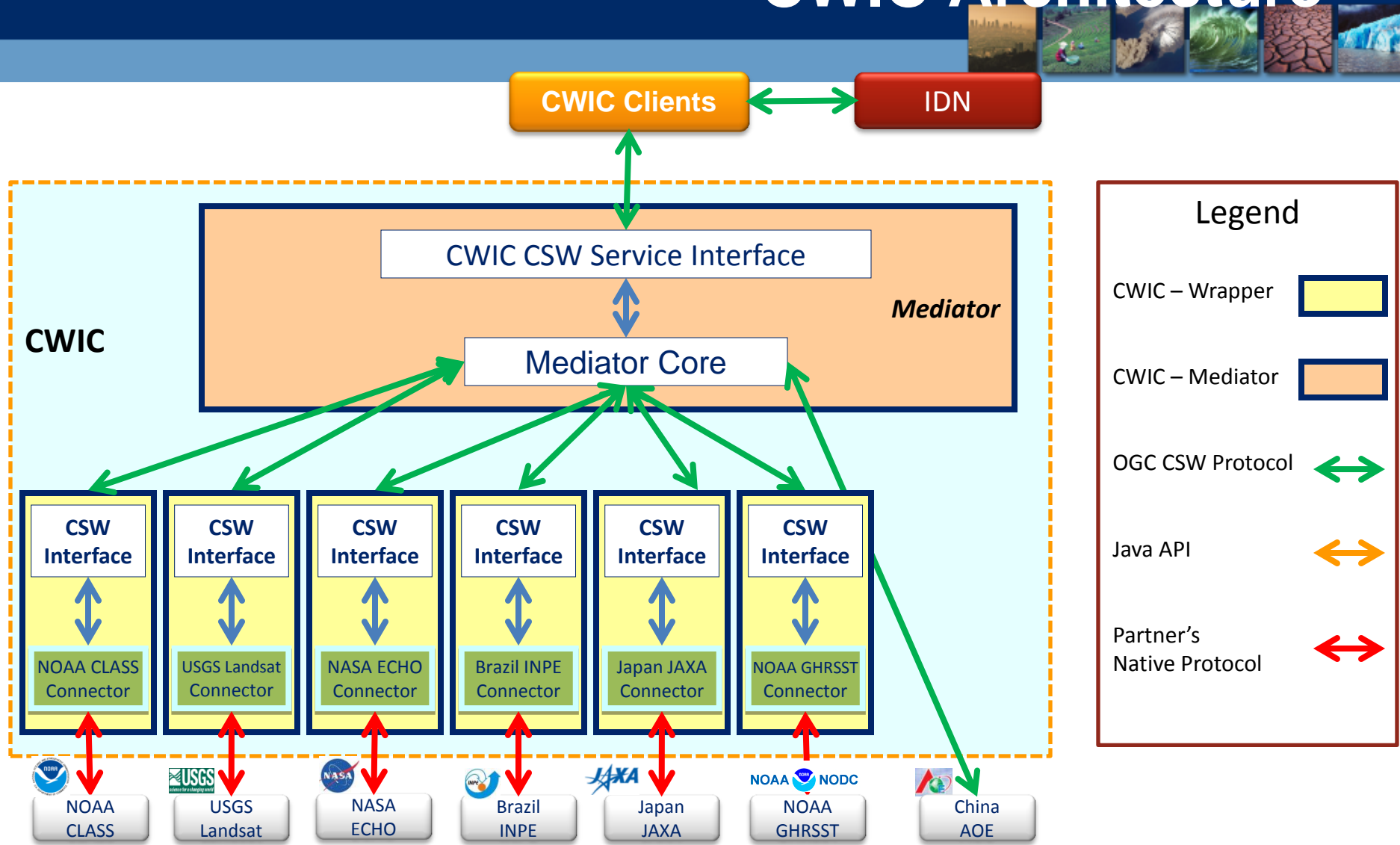


CWIC provides the major source of satellite data inventory search and data access in GEO.

Current data partners include NOAA, NASA, USGS, INPE, AOE, JAXA, GHRSSST.

- **USGS and INPE provides access to operational databases**
- **AOE added 3rd data center, CRESDA, in addition to BJ-1 and FengYun data centers.**
- **NOAA will add access to most of the data in CLASS when the new API is released in summer 2013**
- **NASA working to make all EO unrestricted online satellite data accessible from CWIC.**
- **JAXA is a new data partner (prototype), and will provide search to about 200 data collections (~16 million granules).**
- **GHRSSST adding ~ 60 data collections (~2.3 million granules)**
- **LSI team adding additional data to CWIC through the USGS CWIC connection.**

CWIC Architecture





CWIC-Start – user interface client for scientists;

- **Provides collection search by GCMD keywords (mission/instrument, science,..) via the IDN CSW**
- **Provides search and access to all CWIC accessible inventories via the CWIC Server**

LSI Portal

- **Identifies the list of LSI datasets to search by searching the IDN (mission/instrument, science keywords) to narrow down the list of datasets to offer to users**

CCRS Agency Client

- **CCRS system & CWIC connection**



Who is on the CWIC team?

- **CWIC Design team**
- **CWIC Server Implementation team**
- **CWIC Data Partners**
- **CWIC Client partners**
- **IDN**

Work together to solve common challenges for search and access – approaches and solutions that work for CEOS agencies' operational EO systems.

- **Need to consider end to end implications for assumptions and approaches, diversity of providers and clients, and scalability and maintainability of solutions**



[http: wgiss.ceos.org/cwic](http://wgiss.ceos.org/cwic)

- **Link to youtube CWIC demo**
- **How-to documents : CWIC Data Provider, CWIC Client Provider, CWIC DIF Guide**
- **Link to CWIC DIF Builder tool**
- **Links to CWIC enabled clients**
- **Links to open source CSW software (for Partners)**
- **Link to Test Environment**
- **cwic@wgiss.ceos.org email list**
- **Monthly CWIC Team telecons**

CWIC Support for New Partners



Welcoming new partners! ISRO!!, VCs, WGs, CEOS agencies

- **Bi-lateral intro telecons – new partner can ask initial questions in “private” and not in full view of the BIG TEAM.**

CWIC Data Partners

- **CWIC DocBuilder for CWIC DIFs – plus IDN staff assistance with questions**
- **CWIC Server team builds “Connector” to translate CWIC searches to Data Partner system with assistance from new data partner**
- **CWIC Server team assists with any testing issues**

CWIC Client Partners

- **CWIC Server team assists with any testing issues**

CWIC Servers : (DEV, TEST, PRODUCTION)

CWIC test clients – CWIC-Start TEST & GMU TEST



- Both the IDN and CWIC integrated with GEO, and accessed by the GEO components (Geo Web Portal, DAB, GENESI).
- IDN provides collection metadata for over 21,629 data collections available to GEOSS (4 Sept 2012).
 - Registering a data collection in the IDN in effect registers the data collection in GEOSS.
 - A data collection must be registered in the IDN to be CWIC accessible.
- CWIC provides access to 1,778 (28 Aug 2012 figure) data collections with inventories.
- Providing technical support for GEO component teams accessing IDN and CWIC.
- Providing review comments on GEO documents with regards to IDN and CWIC and GEO capabilities to search and access satellite data.

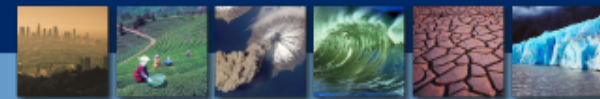
GEO Data Collection of Open Resources



The GEOSS Data Collection of Open Resources for Everyone (GEOSS Data-CORE) is a distributed pool of documented datasets with full and open unrestricted access at no more than the cost of reproduction and distribution”

- **GEO has 8668* data collections tagged as geossDataCore.**
- **IDN provides geossDataCore tagging for 8181* US agencies (and INPE) data collections.**
- **IDN staff ready and willing to tag data collections from CEOS agencies as “geossDataCore” if requested.**
- **Tools available to register data collections in the IDN**

***4 September 2012 figures**



GCI Architecture

