

WES catalog

Publish, Discover, Connect, Utilize

An interoperable Web services catalog management tool for the publishing, discovery, accessing, and exploiting of data and services. Supports the OGC Catalog Services Specification 2.0.2

A comprehensive, standards-based service registry and catalog management tool providing data and service discovery, publishing, access and maintenance.

Overview

WES Catalog now makes it easy to publish, organize, discover and exploit geospatial and non-geospatial data. It implements a catalog, repository, and standard interface to publish and search for any type of geospatial product or service including the auto registering of real time sensors.

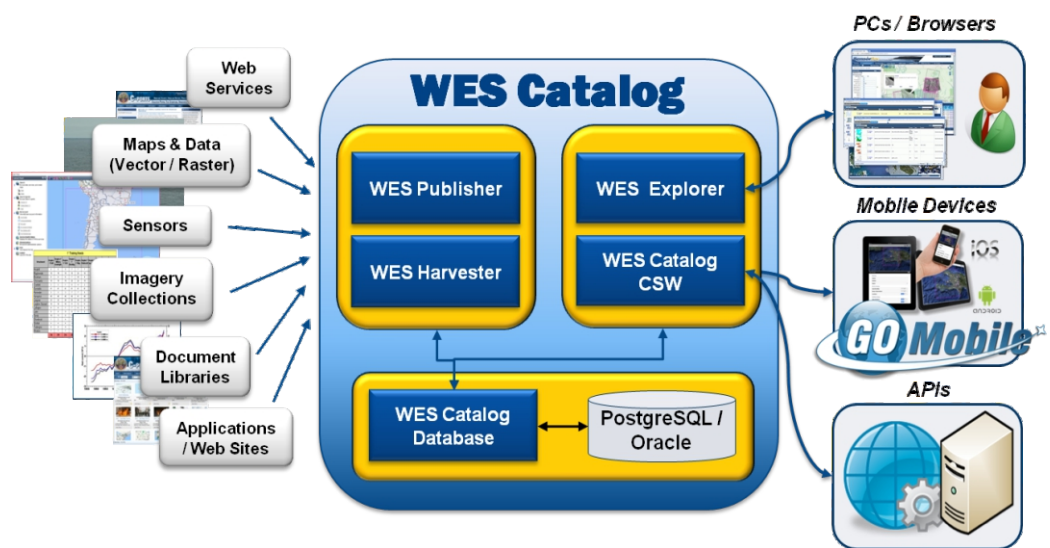
Whether integrating with existing spatial data infrastructures, searching for data, or building metadata-driven user interfaces, **WES Catalog** makes it easier to manage and advertise data in a machine-readable way using an open standard defined by the Open Geospatial Consortium (OGC).

WES Catalog has been implemented using the latest OGC standard, Catalog Service for the Web (CSW) 2.0.2 and is certified by the OGC.

The application has a configurable metadata harvest process that will automatically ingest service metadata from Web-services servers and clients.

Included with a WES Catalog distribution is GeoNetwork. An open source application used as a metadata entry tool when augmenting/editing metadata being published into the WES Catalog database.

Client applications are able to query the Application Services metadata database to determine the services that are available for search and discovery, data selection and extraction and analysis.



Benefits

- Creates and manages a catalog of *all* geospatial (and non-geospatial) resources that can be quickly searched through a variety of interfaces
- Can automatically harvest metadata from multiple services and metadata formats
- Automatically registers real-time sensors into the catalog and monitors and notifies when data is available
- Provides visualization of real-time sensor data
- Integrates seamlessly into a Service Oriented Architecture (SOA) through a standards-based Web interface
- Saves time for implementing Web-enabled, distributed spatial data infrastructures

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WES catalog

Interoperability Through Standards

Key Components:

WES Explorer

An intuitive easy to use Web-based interface for browsing, viewing and accessing services and content maintained in **WES Catalog**. Organizations can easily connect **WES Explorer** into existing GEO Portals and geospatial mapping clients including Google Earth.

Catalog WMS

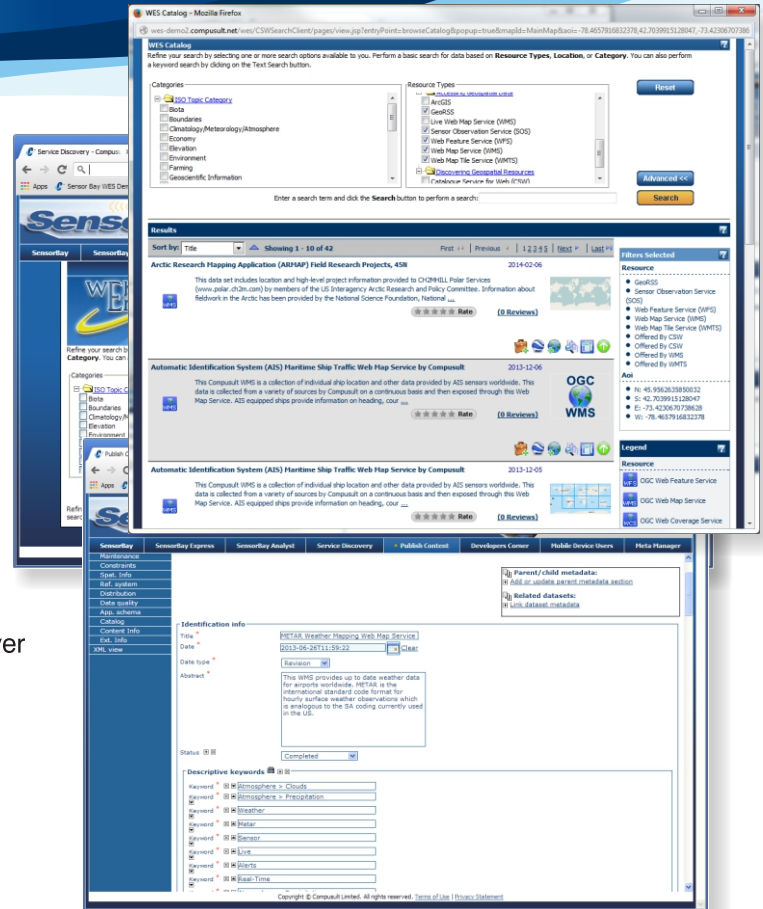
Provides visualization of all sensor data available from both OGC SOS and SensorThings services. The user can hover over a the sensor symbol to see the current values.

WES Catalog Harvester

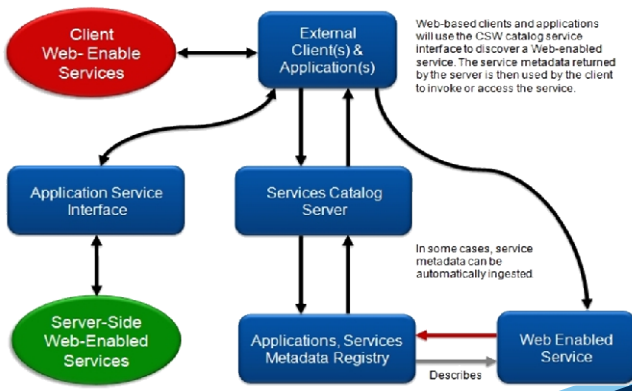
The configurable harvester component of WES Catalog will connect to OGC-compliant Web Services, ISO 19115 xml and NAP xml documents and automatically extract metadata for inclusion in the **WES Catalog**.

WES Publisher

Allows users to publish and register geospatial applications, services, styles, data and data products into the catalog. **WES Publisher** is tightly integrated into GEO Network for metadata edits and entries. Also included is the **Catalog Publishing WPS**. A simpler way for real-time sensors to register their services.



WES Catalog has been implemented using a multi-tiered architecture as illustrated below:



WES Catalog Multi-Tiered Architecture

WES Catalog is a component of:

CompuSult's Web Enterprise Suite (WES); a suite of SOA-based applications and toolkits that support Web mapping, sensor integration, information cataloging, discovery, retrieval and delivery services. WES is used by many organizations to support situational awareness and real-time operations.

Licensing and pricing information for WES Catalog and various options are available upon request.

Visit our Web Site at webenterprisesuite.com



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