

## Store, Manage and Deliver Enterprise Data including Camera/Mobile Device/Satellite/UAV Imagery and Video

### Overview

**WES Vault** is the data warehouse component of Web Enterprise Suite (WES) that acts as a library for the storage of geospatial/non-geospatial imagery, data and data products. This sub-system is being used by some of the largest image archives in the world, supports the "big data" concepts, and is cloud ready. **WES Vault** uses the WES Database and the WES Discovery Metadata Catalog (DMC) to contain metadata about content stored in **WES Vault**. It is tightly linked to the WES User Authentication and role-based access models that provides flexible end-user licensing for access to content in the repository(s). The on-line order and delivery modules provide shopping cart-like access to content and is integrated into the e-commerce WES sub-system for organizations that sell data to end user communities.



### Features

**WES Vault** can be thought of as a multidimensional database/data library system that was designed to support archiving and storage of large volumes of data and data products. It accommodates historical and transactional data derived from multiple source and enables an organization to consolidate data from several sources.

Some of the key features of **WES Vault** are as follows:

- **Cloud Ready**
- **Advanced Administrative Interface**
- **Role and User Based Access Controls**
- **Advanced Data Licensing**
- **Advanced Data Ingestion Module**
- **Advanced Data Delivery Module**
- **Systems Agnostic**
- **Dynamic Systems Approach**
- **Data Mart Processing Capabilities**



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# Multidimensional Database/Data Library System That is Cloud Ready

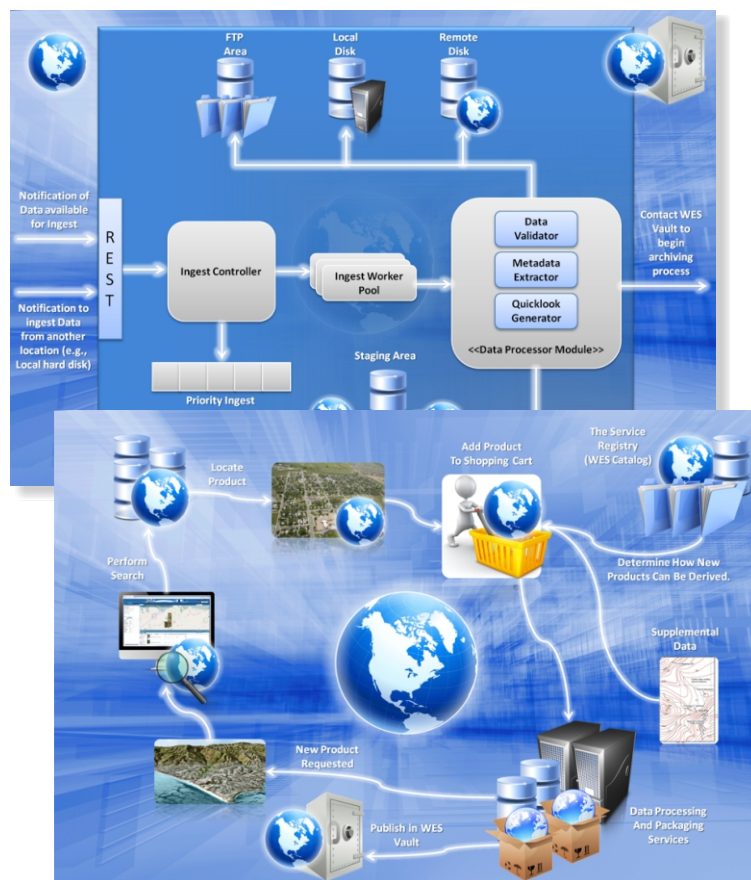
## Benefits

**WES Vault** provides organizations with the ability to create a central location for the storage of data and data products it wants to make available to the organization's users, user communities and stakeholders.

**WES Vault** provides all of the checks and balances to ensure users get access to the right information, when necessary.

Some of the benefits of **WES Vault** are as follows:

- Support for Big Data
- Cost Effective
- Body Worn Camera Ready
- Protection Level 3 (PL3) Compliant
- Priority Processing
- Ensures Data Integrity
- Support for Multiple Archive Storage Areas
- Secure Inter-Subsystem Communications



## Components of WES Vault

### WES Ingest

**WES Ingest** is the data ingestion component of WES. The primary responsibilities of this module are to:

- receive notifications when incoming data is available for processing;
- validate the incoming data to ensure that all required files and metadata attributes are available;
- extract metadata from the data/data product into a common metadata format;
- create QuickLook images; and,
- utilize the **WES Vault** module to archive the data once processing is complete.

Like all WES service interfaces, **WES Ingest** functionality is exposed via a Representational State Transfer (REST) API that provides external programs and third parties with the ability to invoke the ingestion process simply by calling the methods available in the REST API.

### deliverD

The WES Data Preparation and Processing (**deliverD**) is a vital sub-system within WES that provides users with options for instructing WES how data is handled and translated during the data access and delivery actions. This modular infrastructure provides an efficient framework for existing and emerging services that enable efficient and effective retrieval of data, data preparation, validation, transformation, publishing and delivery services for end users. **WES deliverD** acts as a middleware component and converts that sometimes difficult to handle data to a format which can then be used by traditional and non-traditional users. The **WES deliverD** sub-component GeoPackager is based upon a new emerging OGC standard GeoPackage that enables the consolidation of data into a new standards-based secure package for use on mobile computing platforms.

**WES deliverD** is fully integrated with the WES online order and shopping basket modules to provide end-to-end data selection, processing and delivery.

**WES VAULT** is a component of:

