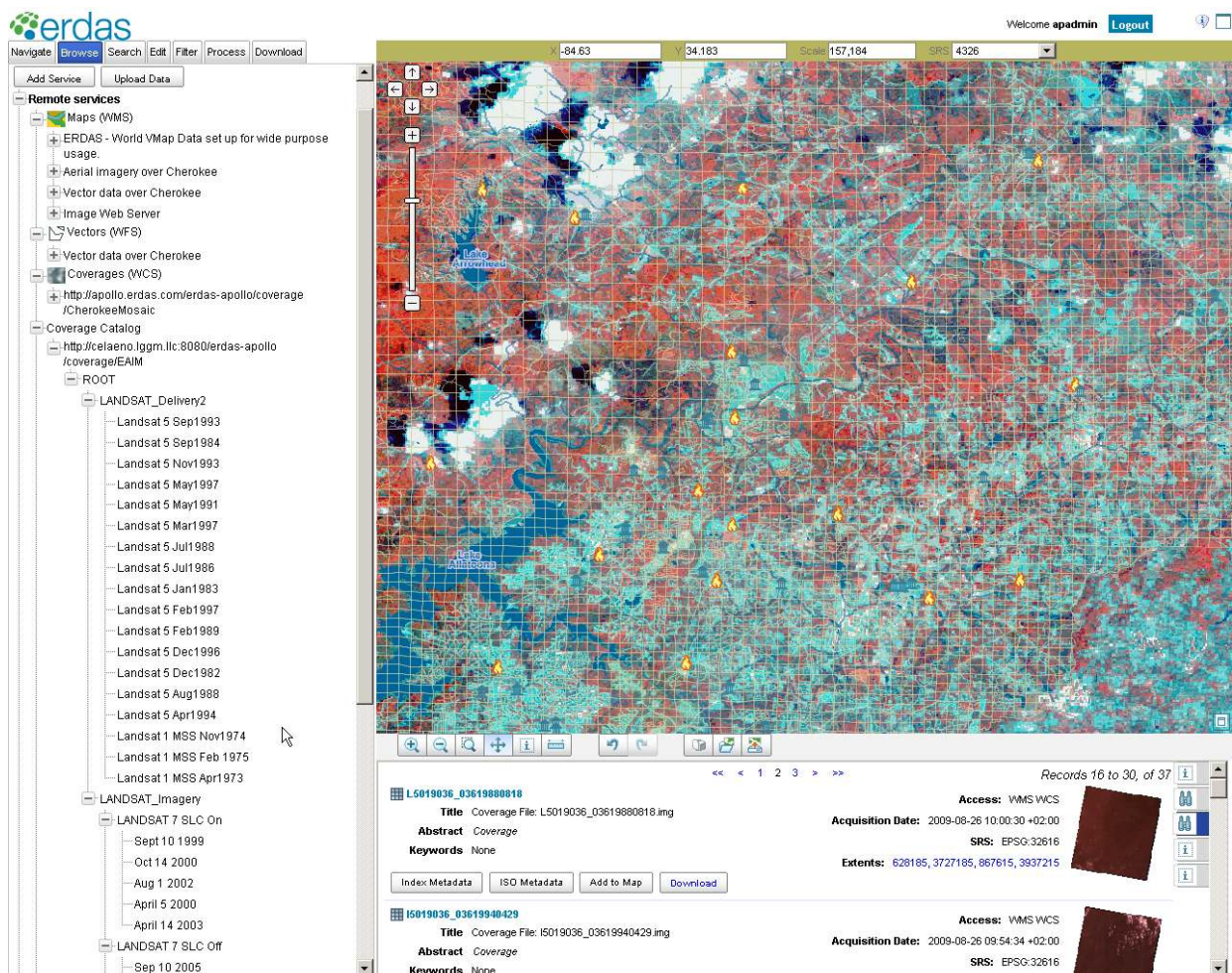


What's New?

ERDAS APOLLO 2011

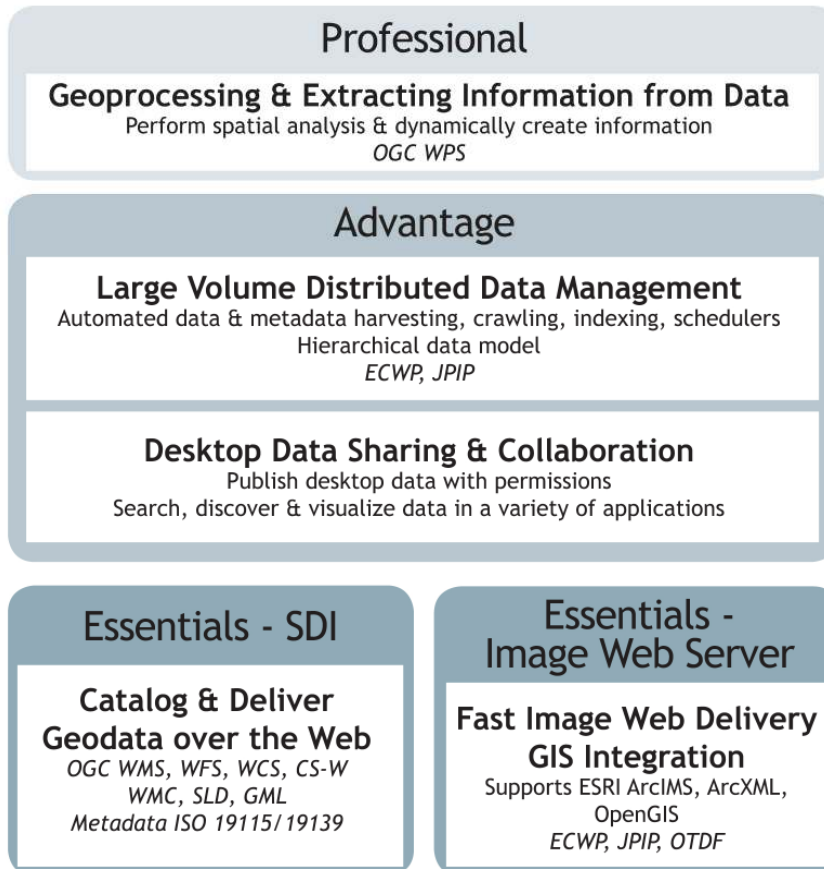
ERDAS APOLLO is an enterprise-class data management, delivery and collaboration solution providing remarkable business value. ERDAS APOLLO is scalable to meet your organization's specific needs. From a low-cost, remarkably fast image server to a comprehensive system with the ability to dynamically edit data, perform analytics and extract information products, ERDAS APOLLO the most advanced geospatial enterprise solution, ensuring unprecedented performance even when handling the largest data archives.

ERDAS APOLLO is customizable, equipped to fully understand, competently manage and rapidly serve your organization's large volumes of geospatial data. ERDAS APOLLO seamlessly integrates with GIS environments. In addition, ERDAS APOLLO leverages existing business systems, such as the Oracle database for persisting intelligent metadata and application specific information. Proven IT standards such as JavaEE and REST integrate ERDAS APOLLO into existing business environments, also meeting an organization's security requirements.



Available in three product tiers, ERDAS APOLLO suits a wide spectrum of organizations – from those needing a very low-cost, remarkably fast image server to organizations requiring a comprehensive data management system.

ERDAS APOLLO Suite



All product tiers of ERDAS APOLLO now feature the following:

Opacity Support [better data presentation]

Serve full transparent areas with input format containing an opacity channel or supporting NULL (no data) values.

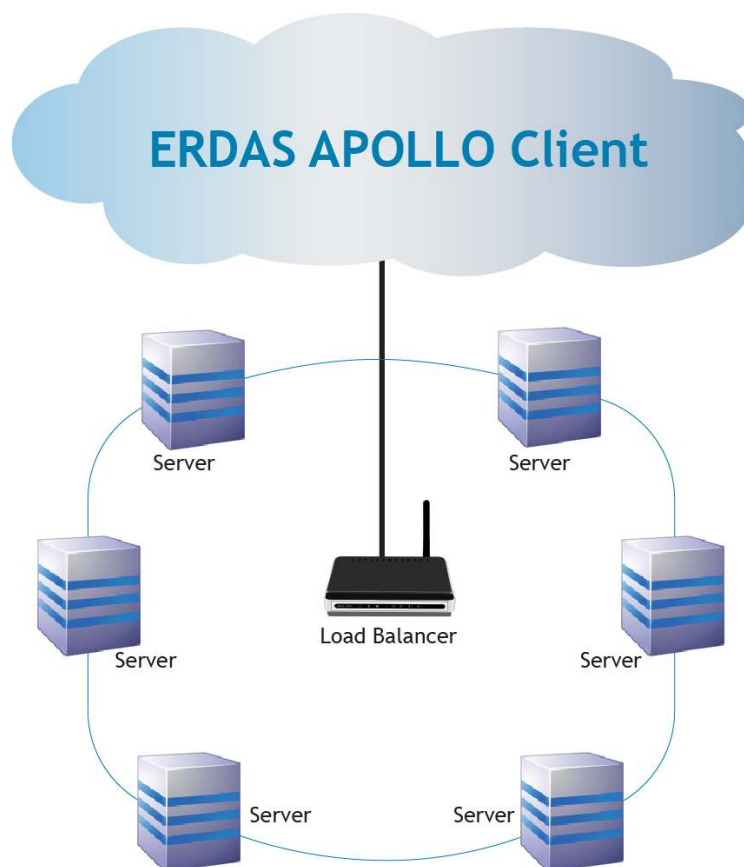
- Serve PNG tiles that have correct opacity via ImageX / WMS / ArcXML, or serve via ECWP (Note: only WMS support in Essentials SDI)
- Supported source data includes ECW, JP2K, OTDF, ERS, ALG

ERDAS APOLLO Essentials - SDI 2011

ERDAS APOLLO Essentials – SDI 2011 is an interoperable and scalable spatial data infrastructure (SDI) to catalog and deliver enterprise geospatial data over the web. ERDAS APOLLO Essentials – SDI allows you to style, secure, publish, and catalog vector, raster and terrain data via data services that are fully compliant with the standards of the Open Geospatial Consortium (OGC). ERDAS APOLLO Essentials – SDI is the core module of any ERDAS APOLLO solution; it is all you need for meeting common use cases, and can work seamlessly with the other modules of the ERDAS APOLLO suite to fulfill the most advanced business workflows.

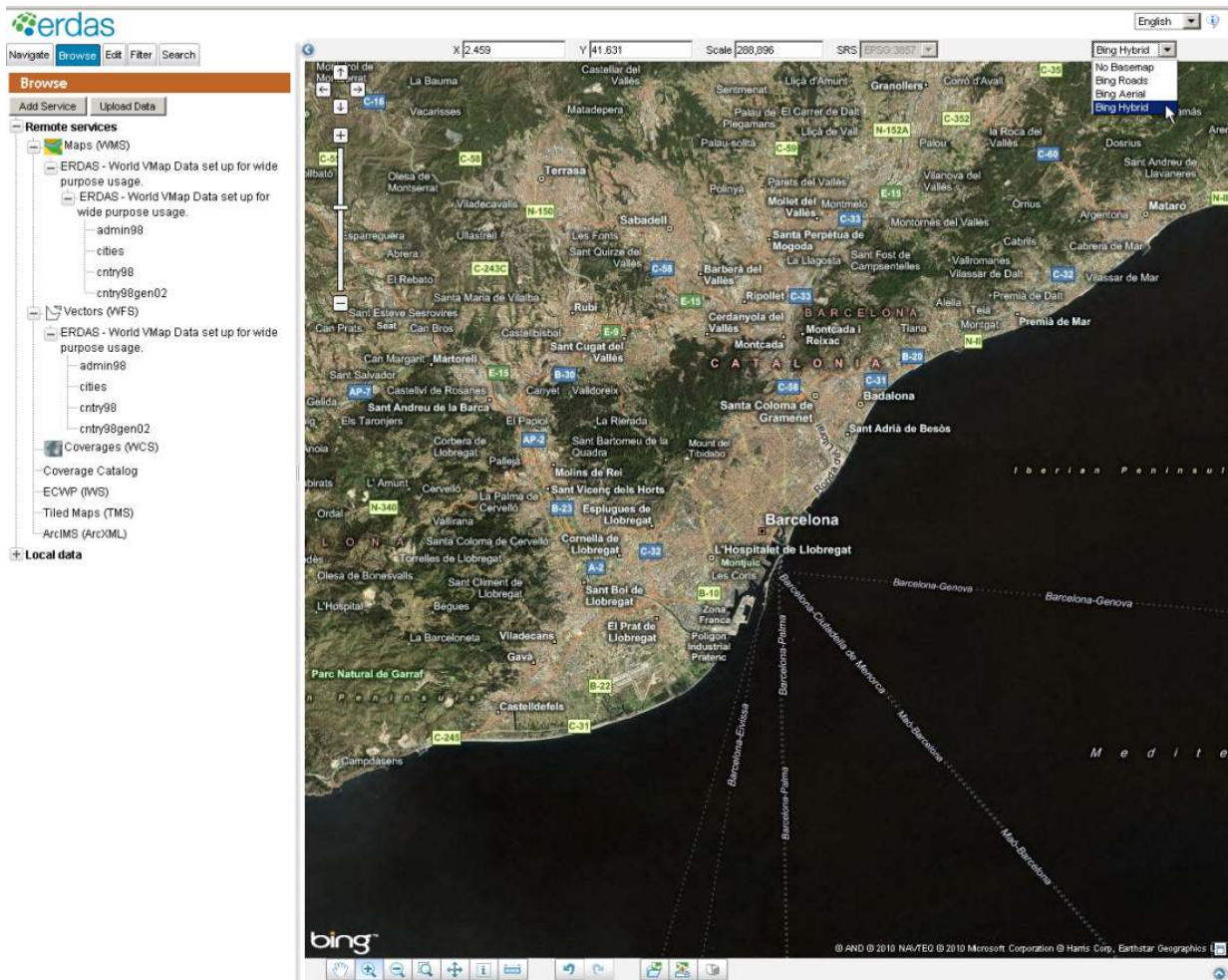
Clustering [scalability]

Multiple servers are used to increase scalability, while appearing to be a single ERDAS APOLLO server to the administrator. The clustered environment creates support for more concurrent users.



Bing™ Maps Base Maps [better basemap options]


- Direct access to Internet-based Microsoft Bing Maps
 - Available in both ERDAS APOLLO Web Client and ERDAS TITAN Client
 - Provides a premium map experience in the user interface
- Three map sources available from Bing Maps Platform:
 - Bing Maps Roads - Map with labels and roads
 - Bing Maps Aerial - Aerial Imagery map
 - Bing Maps Hybrid - Aerial map with labels and roads



Geometry Selection Tools [enhanced workflow with more options]

The ERDAS APOLLO Web Client now provides an enhanced workflow to search, select and download imagery datasets:

- New geometry selection tool for searching, filtering and clipping. Define a working geometry by:
 - Drawing on map
 - Selecting a geometry on the map
 - Uploading a shapefile or accessing an online WFS
 - Selecting a geometry by value (for example: select state geometry by state name)
- Apply buffer to selected geometry



The screenshot shows the ERDAS APOLLO Web Client interface. On the left is a search panel with fields for Type, Keywords, Geometry, and Date. The main map area displays an aerial view with yellow buildings and a red buffer around a specific building. A 'Configure Buffer' dialog box is open, showing a Value of 150 and Unit of Feet. Below the map is a data table with columns for Feature, GEOMETRY, ID, Description, Name, MAPNO, MAPNOSUFFI, BLOCKNO, PARCELNO, PARCELNOSU, ADDRESS, LOT_NUMBER, and SUBDIVISIC. The table contains 9 records of parcel data.

| Feature | GEOMETRY | ID | Description | Name | MAPNO | MAPNOSUFFI | BLOCKNO | PARCELNO | PARCELNOSU | ADDRESS | LOT_NUMBER | SUBDIVISIC |
|------------------|------------|------------------|-------------|------|-------|------------|---------|----------|------------|-------------------------|------------|-------------------|
| View Edit Delete | Fit Select | TAXPARCELS.52693 | | | 1423 | | | 006 | | | | CANTON-CHEROKEE O |
| View Edit Delete | Fit Select | TAXPARCELS.29173 | | | 1423 | | | 007 | | 000500 BROWN INDUSTRIAL | PW | CANTON-CHEROKEE O |
| View Edit Delete | Fit Select | TAXPARCELS.23016 | | | 1423 | | | 009 | | 000495 BROWN INDUSTRIAL | PW | CANTON-CHEROKEE O |
| View Edit Delete | Fit Select | TAXPARCELS.47568 | | | 1423 | | | 005 | D | LAMAR HALEY | PW | CANTON-CHEROKEE O |
| View Edit Delete | Fit Select | TAXPARCELS.73605 | | | 1423 | | | 003 | | 000193 LAMAR HALEY | PW | CANTON-CHEROKEE O |
| View Edit Delete | Fit Select | TAXPARCELS.80076 | | | 1423 | | | 004 | | 000191 LAMAR HALEY | PW | CANTON-CHEROKEE O |
| View Edit Delete | Fit Select | TAXPARCELS.80068 | | | 1423 | | | 005 | A | 000221 LAMAR HALEY | DIV | CANTON-CHEROKEE O |

Client-side Spatial Reference System (SRS) Management [enhanced user experience]

The ERDAS APOLLO Web Client Spatial Reference System (SRS) management has been improved:

- Complete SRS support : Extended to support non-EPSG projections
- Client-side reprojection: Reproject data client-side using Proj4js to transform coordinates to other projections than the ones offered by the source data services.

Fully Internationalized Solution [product globalization]

- Internationalization/Localization support for the ERDAS APOLLO Data Manager and ERDAS TITAN Client
- ERDAS APOLLO Web Client localization now includes French, Polish, German, Dutch, Japanese and Chinese
- i18n support

New Operating System and Browser Support [more options]

- Operating systems:
 - Windows Server 2008 R2 64 bit
 - Windows 7 32-bit and 64-bit (Data Manager only)
- Google Chrome 4 support for the ERDAS APOLLO Web Client and the ECWP plugin

Bug Fixes and Improvements [quality and performance]

- More than 350 bug fixes and small improvements

ERDAS APOLLO Essentials - Image Web Server 2011

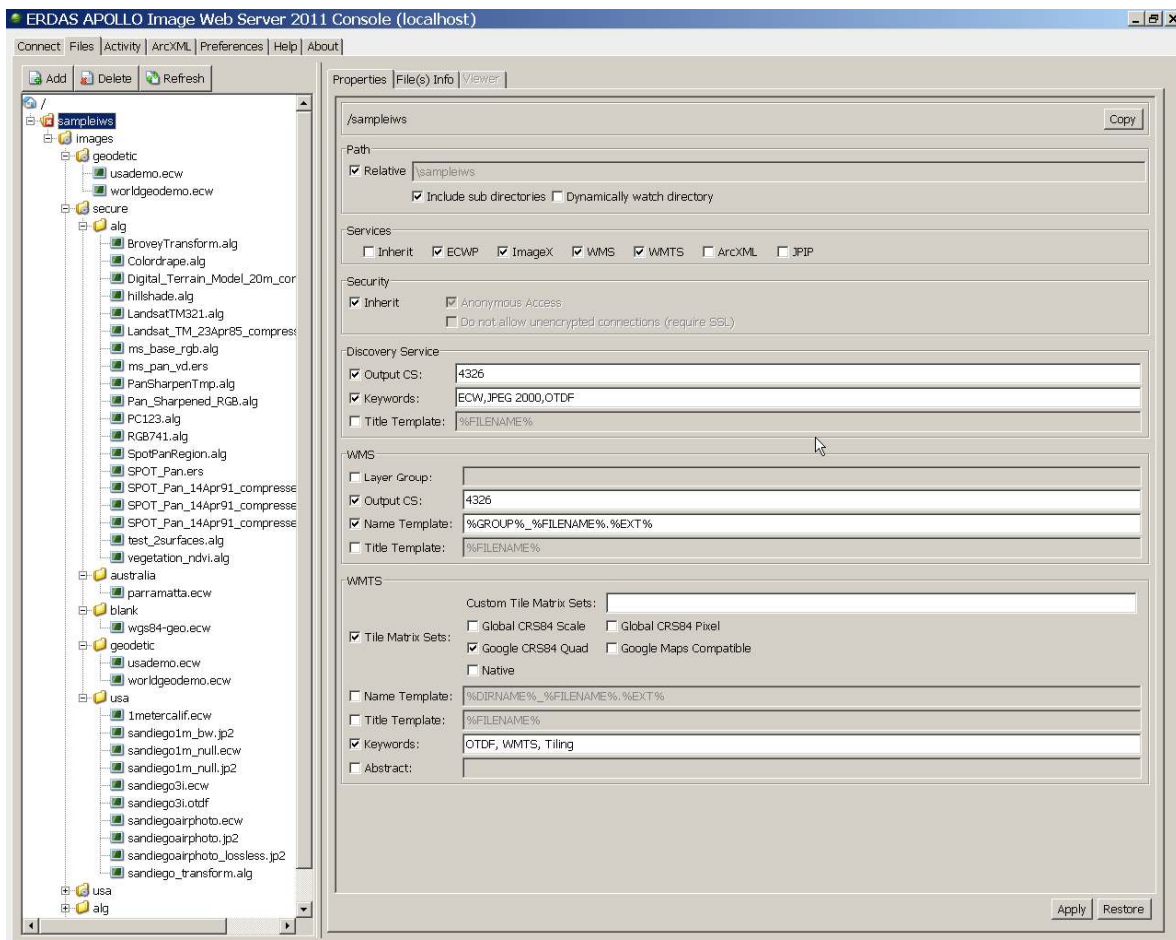
ERDAS APOLLO Essentials - Image Web Server speeds up your GIS by working with your existing GIS infrastructure and alleviating the heavy load of image serving.

ERDAS APOLLO Essentials - Image Web Server is a high-speed, specialized application that efficiently distributes massive amounts of geospatial imagery to thousands of users, all on a single server. Solving the infrastructure congestion problems traditionally associated with deploying large amounts of image data, users quickly access the information they need. Imagery served with ERDAS APOLLO Essentials - Image Web Server is accessible from various third-party CAD, GIS, mobile, web and desktop applications.

Web Map Tiling Service (WMTS) Support [standard delivery interface]

Optimized Tile Delivery Format (OTDF) technology is now available through an OGC-compliant Web Map Tiling Service (WMTS) interface

- Third-party applications can consume OTDF, ECW and many other formats through WMTS
- No client-side plug-in is required
- Easily create mashups with OpenLayers and Google Maps



New Reprojection Engine [enhanced user experience]

New coordinate reference system library in Essentials IWS server, tools and utilities:

- Uses the ERDAS IMAGINE projection toolkit
- New options allow for setting re-projection quality/speed

Improved Performance [enhanced user experience]

Accelerated speed and performance optimizations:

- Faster decoding of GeoTIFF and other GDAL formats (up to 15% faster)
- Faster generation of the WMS capabilities documents
- Bug fixes and enhancements to the ERDAS ECW JPEG2000 SDK

Miscellaneous Improvements [enhanced user experience]

- Enhanced security options for WMS, ImageX, and discovery services
- Improved handling of extended character sets in filenames

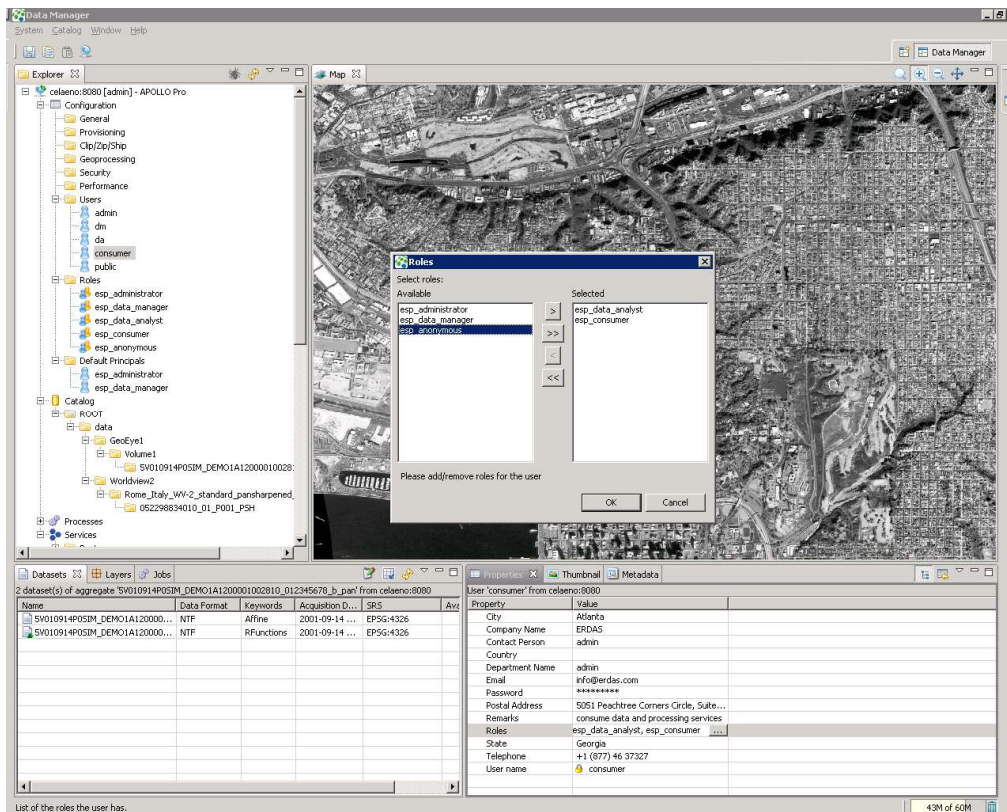
ERDAS APOLLO Advantage 2011

ERDAS APOLLO Advantage is an interoperable SDI that can handle a massive volume of images and terrain. The end-user is given a huge archive of data anyway they want, catering to their delivery preferences. With ERDAS APOLLO Advantage, users can manage massive amounts of data, as well as share this data and collaborate with others. This dynamic solution comprehensively addresses problems universal to governments, businesses and other organizations that often work with large amounts of geospatial data, including data that lives on the desktop. ERDAS APOLLO Advantage fully integrates ERDAS APOLLO Essentials.

Improved Graphical Management for Remote Server Configuration [save management time]

The Data Manager user interface (UI) has been improved to add graphical management support for the following:

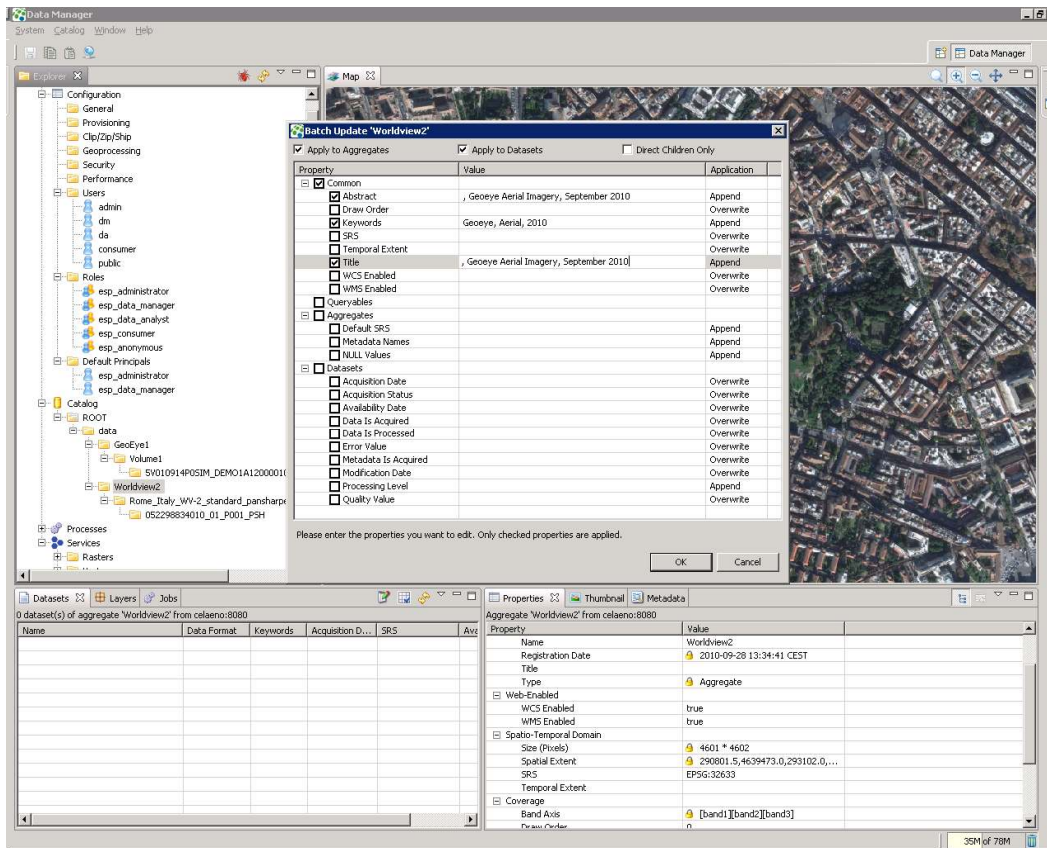
- Centralized configuration:
 - Improved UI for managing the most frequently used configuration parameters on the server, including Clip, Zip and Ship parameters, raster data server tuning, and many others
 - In clustered environment, all updates are replicated across all nodes
- Improved management of users and roles
 - New UI to add/delete/update security user and roles
 - In a clustered environment, any new security configurations are updated automatically across nodes



Batch Metadata Editing [increase productivity and save time]

Data Manager users may edit metadata for multiple datasets at once

- Changes to metadata can be propagated down the aggregate hierarchy
- Includes advanced functions for manual editing of individual dataset metadata
- Simple and efficient table cell editing now includes the ability to copy/paste attributes, and a column view to select which metadata fields are visible



LiDAR Data Crawling [native data support]

Crawl, catalog and deliver LIDAR (LAS) files

- ERDAS APOLLO extracts pertinent metadata from the LAS file and generates a complimentary surface file (GeoTIFF or IMG) for each LAS file
 - Surface file is stylized as a hillshade for visualization and is portrayed by ERDAS APOLLO via WMS
- Download a grid representation via a WCS interface and Clip, Zip and Ship workflow

Extended Catalog Support for Raster Formats [native data support]

Support for crawling, cataloging and delivering raster data formats has been extended to include:

- OTDF: available for delivery via WMTS, WMS and ImageX
- ERS and ALG: available for delivery via WMS, WCS and ImageX

Fully Integrated IWS Capabilities [integrated functionality]

A fully capable, fully integrated ERDAS APOLLO Essentials - Image Web Server is deployed in concert with ERDAS APOLLO Advantage. The Image Web Server runs alongside ERDAS APOLLO Server, and replaces the separately-integrated “Image Web Server Module” that enabled only partial functionality in previous versions. Full support includes the same performance, all of the supported protocols, ECWP discovery service, and more:

- Support for thousands of users streaming ECW, JPIP
- Support for ImageX, WMTS protocol and OTDF format
- SSL support for ECWP and ImageX
- Spatial and scale security support via the Image Web Server advanced security model

Performance Improvements [enhanced performance]

- Improved ECW-JP2 decoding capabilities.

Search, Select and Download Options [increase productivity]

- Select multiple results for download as a bundle
- Choose between multiple download options:
 - Clip, Zip and Ship data
 - Download original files
 - Download KML files to view in Google Earth
 - Download Shoebox files to work in ERDAS IMAGINE
- Set parameters that will be applied across all images when downloading multiple datasets at once
 - Globally define the SRS
 - Use pre-defined geometry
 - Define a new geometry

ERDAS APOLLO Professional 2011

ERDAS APOLLO Professional is an interoperable SDI that can handle a massive volume of geospatial data. With ERDAS APOLLO Professional, users can perform analytics, extract information products and dynamically edit this data. ERDAS APOLLO Professional provides interoperable geoprocessing of geospatial data contained in Spatial Data Infrastructures. ERDAS APOLLO Professional fully integrates ERDAS APOLLO Advantage and Essentials.

European HMA Project Support [harmonization]

The former RedSpider Catalog incorporated as component of ERDAS APOLLO Professional and renamed “HMA Component.” Meets European HMA project requirements by including the ability to:

- Catalog and search on standards-compliant metadata (ISO 19115/19139, OGC Earth Observation GML, OGC SensorML)
- Expose compliant metadata through fully OGC-compliant CS-W ebRIM interface that matches European HMA project specifications
- Build a proxy on top of a legacy catalog to provide an OGC-compliant catalog service interface matching European HMA project requirements
- Develop support for cataloging any custom metadata format, defining the way it is exposed through the catalog service interface (CS-W ebRIM) and providing pre-defined search queries (ad-hoc queries)

ERDAS APOLLO Solution Toolkit 2011

The ERDAS APOLLO Solution Toolkit 2011 ensures 100% compatibility between the ERDAS APOLLO solution and the needs of your business. It allows you to expand the power of the existing ERDAS APOLLO Web Client, create your own customized web clients, enhance the ERDAS APOLLO web services by adding support for new data or metadata types, and add OGC services discovery and visualization in a custom GIS application. With extensive documentation, samples, and application skeletons to guide you, ERDAS APOLLO Solution Toolkit makes it quick and easy to customize your ERDAS APOLLO products.

IIF/EAST Reconciliation [harmonization]

The capabilities of ERDAS Image Integration Framework (IIF) have been integrated into the ERDAS APOLLO Solution Toolkit (EAST). IIF enables simultaneous access to many disparate Web GIS and image services in the same application view. Other improvements include:

- Layer groups and nested layer: Add a WMS service as one single hierarchical layer group
- OTDF/ECW support via ImageX tiled API

ERDAS APOLLO Feature Interoperability 2011

ERDAS APOLLO Feature Interoperability 2011 is an add-on utility that will allow you to create a vector service provider (which includes WFS and WMS interfaces) that is attached to data in the V7 DGN and V8 DGN data formats.

ERDAS Feature Interoperability includes the FME® Universal Viewer and FME Workbench, which can be used to view and edit data that you are going to serve through ERDAS APOLLO. FME Universal Viewer allows you to view ERDAS APOLLO data in any of the formats supported by FME. FME Workbench allows you to perform data translations on ERDAS APOLLO data.

Convert Vector Data and Serve [extended formats]

The ERDAS APOLLO Feature Interoperability add-on module has been upgraded to Safe Software's FME 2010, providing additional format support in FME Workbench.