Preface

This document provides important information about ERDAS APOLLO Essentials Image Web Server 2011.

• High-level requirements (software and hardware) for installation.
• Summary of new features and improvements.
• Resolutions to Customer issues.
• Facts to know, workarounds, helpful hints, and last-minute information we could not include in the documentation.

See the ERDAS APOLLO Image Web Sever User Guide for complete installation and configuration instructions. Do NOT attempt to install ERDAS software without reading the section on Known Installation Issues. You can find configuration information specific to ERDAS APOLLO Essentials Image Web Server 2010 in the Configuration chapter.

For more information regarding ERDAS products, visit our web site at http://erdas.com.
## Specifications

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1. Image Web Server
2. Advantage
3. Collaboration Module
4. High Speed Disk Storage, >15000 RPM, RAID Arrays or External SAN/NAS
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<tr>
<th>Server Operating Systems</th>
<th>ERDAS APOLLO Essentials – Image Web Server&lt;sup&gt;1&lt;/sup&gt;</th>
<th>ERDAS APOLLO Essentials – SDI</th>
<th>ERDAS APOLLO Advantage&lt;sup&gt;2&lt;/sup&gt; &amp; Professional</th>
<th>ERDAS APOLLO Advantage (Collaboration Module)</th>
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<td>Windows XP Professional SP2 or higher (32-bit)</td>
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<th>JDK 1.6.0 (-20 or higher, 32-bit and 64-bit) and Java Advanced Imaging 1.1.3 (both embedded in installer)</th>
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<td>APOLLO Catalog Web Client</td>
<td>ECWP enabled Applications</td>
<td>OGC Client Applications</td>
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Specifications
These requirements are subject to change. Please visit our web site at http://www.erdas.com for the latest specifications.
ERDAS APOLLO 2011

December 2010

ERDAS APOLLO is an enterprise-class data management system enabling an organization to describe, catalog, search, discover and securely disseminate massive volumes of geospatial data as well as virtually any digital object in your enterprise. Available in three tiers, this interoperable OGC/ISO based solution seamlessly integrates with existing GIS environments, leveraging business systems and supporting almost any kind of data input. From low-cost, fast image delivery to a comprehensive system with the ability to dynamically edit data, perform analytics and extract information products, ERDAS APOLLO is scalable to meet your organization’s specific needs and ensures unprecedented performance even when handling the largest data archives.

*Higher level product tiers are inclusive and contain all features and functionality of lower level product tiers.

ERDAS APOLLO – All Products

Opacity support

- 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 - IWS

Web Map Tiling Service (WMTS) support
Optimized Tile Delivery Format (OTDF) technology is now available through an OGC compliant Web Map Tiling Service (WMTS) interface:
• Allow third-party applications to 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
• New coordinate reference system library in Essentials IWS server, tools and utilities:
  • Uses the ERDAS IMAGINE projection toolkit
  • Reprojection is now up to 20% faster
  • New options allow for setting re-projection quality/speed

Improved performances
• Accelerated speed and performance optimizations:
  • Faster decoding of GeoTIFF and other GDAL formats (up to 15% faster)
  • Faster generation of WMS capabilities documents
  • Bug fixes and enhancements to the ECW JPEG2000 SDK.

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

ERDAS APOLLO Essentials - SDI

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

Bing Maps basemaps
• Direct access to Internet-based Microsoft Bing Maps
  • Available in both APOLLO Web Client and TITAN Client
  • Providing a premium map experience in the user interface
  • Three map sources available from Bing Maps Platform:
    • Bing Maps Roads - Map with labels and roads
Geometry selection tools

The APOLO 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

Client-side Spatial Reference System (SRS) management

The APOLO 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.

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

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

Fully internationalized solution

New OS and browser support

- Bing Maps Aerial - Aerial Imagery map
- Bing Maps Hybrid - Aerial map with labels and roads
Bug fixes and improvements

• More than 350 bug fixes and small improvements

ERDAS APOLLO Advantage

Improved graphical management for remote server configuration

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

• Centralize configuration:
  • Improved UI for managing most frequently used configuration parameters on the server, including CZS parameters, RDS tuning and many others.
  • In cluster environment: all updates are replicated across all nodes
  • Improved user-role management
  • New UI to add/delete/update security user and roles
  • In a cluster environment: automatically update any new security configurations across nodes

Batch metadata editing

Data Manager users may bulk edit metadata for multiple datasets at once

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

LIDAR data crawling

Crawl, catalog and deliver LIDAR (LAS) files

• 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 Apollo via WMS
• LAS file can be served to a remote client as a WCS via the “Clip, Zip, Ship” capability into APOLLO Web Client and TITAN Client
Extended catalog support for raster formats

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

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

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

Performance improvements

- Improved ECW-JP2 decoding capabilities
- Enhanced support using ImageX decoder

Search, select and download options

- Select multiple results for download as a bundle
- Multiple download options:
  - Clip, zip and ship data
  - Download original files
  - Download KML to view in Google Earth
  - Download Shoebox to work in ERDAS IMAGINE
- For downloading multiple datasets at once, choose parameters that will be applied across all images including:
  - Globally define the SRS
  - Use pre-defined geometry
ERDAS APOLLO Professional

European HMA project support

Legacy product RedSpider Catalog incorporated as component of ERDAS A POLLO Professional and renamed “HMA Component”. Aims to satisfy the European HMA project requirements, including:

- Catalog and search on compliant metadata (ISO 19115/19139, OGC Earth Observation GML, OGC SensorML)
- Expose compliant metadata through fully OGC compliant CS-W ebRIM interface that match European HMA project requirements
- 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 though the catalog service interface (CS-W ebRIM) and providing pre-defined search queries (ad-hoc queries)

ERDAS A POLLO Solution Toolkit

IIF/EAST reconciliation

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

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

ERDAS A POLLO Feature Interoperability

Upload vector data in Oracle and serve

The A POLLO Feature Interoperability add-on module has been upgraded to Safe Software’s FME 2010:

- The bundled FME Workbench tool now enables uploading vector data into an Oracle Spatial database, to be served via ERDAS A POLLO
• Additional format support in FME Workbench

**Technology Preview!**

**Vector data management**

Provides advanced vector data management, extending the same imagery management workflows already available in APOLLO Advantage to vector data.

• Supports file-based data
• Hierarchically aggregate disparate vector data sources into homogenous layers
• With crawlers, catalog hierarchy, metadata, styling and security management, and publishing through a single unified access-point (WFS/WCS/WMS).
• Provides one secured, hierarchical data model for imagery, terrain, and vectors
Customer Resolutions

Image Web Server

Console

- Image Web Server now supports UTF-8 encoding, allowing it to support files with non-ASCII characters. [IWS-2361]
- It is now possible to configure the resampling method used for JPEG 2000 images. Users can choose between the faster nearest neighbour or the more accurate bi-linear interpolation. [IWS-2810]
- Under certain environments, the Image Web Server Management Console will not launch using Java Web Start. This issue has been resolved. [IWS-2862]

Discovery Service

- It is now possible to configure security for the Discovery Service. [IWS-2950]

Installation

- On systems with multiple websites configured, the Image Web Server installer would sometimes crash during the installation process. This issue has been resolved. [IWS-2972]

JPEG 2000

- JPEG 2000 images that are greater than 8-bits per channel are now automatically scaled to 8-bits when viewed using the JavaScript map control (including the console viewer). To scale these images using the web plug-in, set the "downscaleenabled", "downscalemin" and "downscalemax" parameters on the layer. [IWS-2553]

JPIP

- It is now possible to configure the virtual directory that the JPIP service uses. [IWS-2615]

Miscellaneous

- The "Copy to Clipboard" feature of the web plug-in now works in Internet Explorer 8. [IWS-2853]
- Image Web Server is now able to reproject imagery to the MGI Austrian Gaus-Kruger projection. [IWS-2879]
- It is now possible to configure security for the DSInfo (ImageX) request. [IWS-2949]
- After installing Image Web Server on a Windows Server 2003 R2 (32-bit) system, the initial IISRESET may cause Image Web Server to become unstable. Run the console after installation (before performing an IISRESET) to verify that the installation was successful. [IWS-3132]
- ERS files that simply reference an image are no longer loaded into Image Web Server. These files are ignored even if they contain modified metadata for the referenced image. The metadata contained within the ERS files should integrated into the image file itself using the ECW JPEG 2000 Header Editor. [IWS-3139]
Native plug-in

- The method GetLayerParameter on the web plug-in will return an empty string if called with the "bands" parameter, before the parameter has been set, even though the control has rendered an image. This represents the default "bands=1,2,3" and can be safely assumed to be that value. [IWS-1868]

- In some browsers, when specifying a zoom area via the zoom box, the zoom box itself might be drawn with an offset. The web plug-in has been updated to correct this. [IWS-2931]

- The ECWP URL of a layer can now be set/reset using the web plug-in’s SetLayerParameter method. A layer that was once handling ECWP streams should not be changed to handle JPIP streams and vice versa. [IWS-2956]

- The compatibility of the web plug-in with OpenLayers has been enhanced, allowing for smooth and responsive roam and zoom operations. [IWS-3078]

OTDF

- The OTDF Builder now supports TIFF as an input source file, allowing TIFF images (or a mosaic of TIFF images via an algorithm) to be converted into the high speed OTDF tiling format. [IWS-2523]

- It is now possible to configure security for OTDF files, enabling Image Web Server to serve tiles that are both fast and secure. [IWS-3085]

Projection

- If a reprojection requires a grid file, and that grid file is missing, Image Web Server no longer generates any errors. It will instead try to perform the reprojection without the use of the grid files. Make sure that all the files needed for the required reprojection are present to eliminate inaccuracy in the reprojection. [IWS-2763]

- Previously, the reprojection from EPSG:26911 to EPSG:4326 used EPSG:1251 (NAD83 Aleutian Island) as its default datum shift. This is no longer the case. To re-enable this datum shift, add the following configuration parameter to the EPrjDatumChanges.xml file, "<Shift CoordSys1="EPSG:26911" CoordSys2="EPSG:4326" Datum1="NAD83 (Aleutian Islands)" Datum2="" Notes=""/>". [IWS-3016]

- The Spanish NTv2 grid files (R2009V9.gsb and BALR2009.gsb) are now shipped with Image Web Server. Their use can be configured via the EPrjDatumChanges.xml configuration file by setting the datum to either "European 1950 (Spain Iberian Peninsula) (NTv2)" or "European 1950 (Spain Balearic Islands) (NTv2)". [IWS-3025]

- Image Web Server now correctly handle JPEG 2000 images that are geo-referenced in US survey feet. [IWS-3107]

Security

- It is now possible to configure Image Web Server to enforce requests made to the Web Map Service use https. [IWS-2613]

- It is now possible to configure security for the Web Map Service. [IWS-2843]
WMS

- Image Web Server now has the ability to reproject between EPSG:28354 and EPSG:3107. [IWS-2663]
- Configuration changes made to the WMS service would sometimes not persist after an IISRESET. This issue has been resolved, and WMS configuration changes now persist. [IWS-3007]
Known Issues

Image Web Server

**ArcGIS Server Integration**
- The `SetLayerParameter` method does nothing if it is called before the `addLayer` method. Add the layer first before setting any parameters on it. [IWS-2256]
- The ArcGIS Server ECW Connector cannot be installed if ArcGIS Server is running. Stop ArcGIS Server before installing Image Web Server and the ArcGIS Server ECW Connector. [IWS-2593]

**ArcXML**
- Algorithms are not checked for correctness when they are loaded into Image Web Server. Image Web Server only knows if an algorithm is valid or not when it processes it. Invalid algorithms can therefore be published as valid imagery, but will fail when a request is made to them. When adding algorithms to Image Web Server, users should use the console viewer to verify that the algorithms can be rendered. [IWS-1836]
- The ArcXML service does not support HTTP port numbers. When setting up the ArcXML service, Image Web Server must be running on the default HTTP port (i.e. 80). [IWS-2874]

**Console**
- Under some circumstances, changes made to the configuration of Image Web Server may not be persisted immediately to disk. If you perform an IIS reset as soon as changes are made, those changes may not be available on next restart of IIS. Wait one minute or so after changing the settings before performing an IIS reset to ensure the changes are saved. [IWS-1911]
- Images that have been configured to require ssl are not viewable in the console. To view the image in the console, disable the requirement for ssl when viewing the image. The image can also be viewed via the ecwps and https (WMS, ImageX, and ArcXML) protocol if they have been enabled for the image. [IWS-1914]
- If a WMS layer is given a custom title or name, there is no way to return it to the default inherited value using the console. You must manually edit the filelist.xml configuration file and remove the tag. [IWS-2317]

**DHTML Control**
- The quality of the JPEG tiles cannot be set via the `SetLayerParameter` method. It is defined when the layer is constructed and can be customized by redefining the `nNonProgressiveQuality` member variable. [IWS-1736]
**ECWP**

- If an ECW file has an associated ERS header, and the registration information differs from the ECW file, the information in the ERS file will not be picked up when served over ECWP (but will via ImageX, WMS and ArcXML). To work around this, edit the header for the file with the ECW Header Editor to reflect the updated values. [IWS-1613]

- The ECWP and JPIP services are only capable of reading metadata from within the ECW or JPEG 2000 file. If there is an associated file (e.g. ers, prj, aux, etc) that contains the metadata, the spatial reference information contained within them will not be read. To work around this, use the ECW JP2 Header Editor utility to embed the spatial reference information into the image. [IWS-2148]

**ImageX**

- When using multiple web gardens with Image Web Server and IIS (as documented in the "Advanced Configuration" section of the User Guide), the console may not work as expected, as it will only attach to one instance of a web garden. All configuration management options will work as expected, however the "Activity" tab will only reflect the statistics for the current worker process. [IWS-2274]

- When using the ImageX tiling interface, tiles on the edge of the image are clipped. The fillcolor parameter only sets the fill color. If tiles are required to be padded beyond the image bounding box to the tile size, the world extents interface should be used. [IWS-2823]

**Installation**

- Image Web Server cannot be installed into a directory that contains extended characters. Only install Image Web Server into a directory that contains only ASCII characters. [IWS-3158]

**JPIP**

- Some types of JPEG 2000 images may not be viewable in the IAS client viewer via JPIP. To be viewable, these images must contain the correct meta data required by the IAS software. [IWS-1946]

- JPEG 2000 images whose filename contain characters that are not part of the Latin character set are not serviceable via JPIP. These files should be renamed if they are to be served via JPIP. [IWS-2995]

**Logging/Statistics**

- When using some database managers to view the Image Web Server statistics, it should be done on a copy of the database. This is because the program may lock the database, and prevent Image Web Server from updating the statistics while the database is open. [IWS-2614]

**Miscellaneous**

- Image Web Server will not read projection and datum information stored in an auxiliary files (.aux). To update the projection information for an ECW or JP2 image, use the ECW JP2 Header editor, or use an ER Mapper Pro ERS header file (.ers). [IWS-1958]
Native plug-in

- The standard parameter names for the web control (e.g. "onmousedown", "onmouseup", and "onmousemove") are also used by the DOM. In FireFox, you may experience multiple events being sent. This is not an issue if the web control is created using the NCSCreateView JavaScript function. [IWS-1783]

- Setting the bands parameter for an RGB ECW file to a value other than "1,2,3" has no effect, due to the way the image is encoded. You can work around this by creating an algorithm containing the ECW file displaying the bands in a different order, and serving it via one of the other protocols (ImageX, WMS, ArcXML). [IWS-1869]

- If an image is viewed via the web plug-in and that image contains white spaces in its filename, an ECW exception might be raised during an IISRESET. It is recommended that if a user experience this behaviour that they remove all white spaces in the filenames of the files they are serving. [IWS-2587]

- The Google Chrome web plug-in draws a black background in areas that contains no image data. It should however render the underlying HTML page. This appears to be an issue with how Google Chrome handles transparent windowless plug-ins. [IWS-2833]

OTDF

- The argument "-imageSize" in the command line OTDF builder only applies to WMS input. [IWS-2636]

- The OTDF Builder does not support files whose filename contain characters that are not part of the Latin character set. Rename these file before processing them with the OTDF Builder. [IWS-3035]

Samples

- Windows Server 2008 does not enable ".asp" processing by default. This option will need to be added to run the "advanced security" demonstration in the sample pages. [IWS-1358]

WMS

- Setting the ImageX scale hints in the console, will not affect the WMS service for that image. To set scale hints for the WMS service, you must edit the custom WMS configuration XML file. [IWS-2103]

- Invalid ERS and ALG files that have been configured for the Web Map Service will appear in the capability document, even though they are unserviceable. Remove these images for the Web Map Service to remove them from the capability document. [IWS-3097]

WMTS

- When defining a custom tile matrix set for the WMTS service, specifying a tile width and height less than 128 may cause invalid tile rows and columns to appear in the WMTS capability document. When customizing a tile matrix set, specify a tile width and height that is equal to or greater than 128. [IWS-3121]