



RELEASE GUIDE

ERDAS APOLLO 2018 UPDATE 3

September 06, 2018



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ABOUT THIS RELEASE

Enhancements for ERDAS APOLLO 2018 Update 3 are described in this document. Update 3 is delivered as a full installation package only and is a cumulative update containing all fixes from previous releases.

This document is only an overview and does not provide all the details about the product's capabilities.

See the online help and other documents provided with ERDAS APOLLO for more information.

IMPORTANT

READ CAREFULLY BEFORE YOU START INSTALLING THIS RELEASE

If multiple Hexagon Geospatial products are installed on the same server, it is required that every Platform Suite and Provider Suite product that is installed on the server must have the same release and patch version. Before you start installation, follow these steps to facilitate the server update process:

- 1) Verify the versions of the products installed on the server
- 2) Check if the product installation/upgrade concerns two or more of the following products:
 - Platform Suite: GeoMedia WebMap, Geospatial SDI, or Geospatial Portal
 - Provider Suite: ERDAS APOLLO
- 3) Make sure that for the products detected in point (2), there are compatible versions available.

Make sure all products detected in step (2) that are not compatible are upgraded to a compatible version before you initiate the ERDAS APOLLO instance upgrade procedure. Do not proceed with the installation if any of the products installed on the server do not provide a compatible patch.

Please contact Support in case of any questions regarding compatibility of products and patches.

The APOLLO Server Configuration Wizard may detect that you are missing some required features that were not required previously. It is possible that you already have these features installed and enabled. If not, you may use the Windows Server Manager to add them as needed.

IIS - DefaultDocument

Add feature Web Server (IIS) > Web Server > Common HTTP Features > Default Document

IIS - HttpCompressionStatic

Add feature Web Server (IIS) > Web Server > Performance > Static Content Compression

IIS - HttpCompressionDynamic

Add feature Web Server (IIS) > Web Server > Performance > Dynamic Content Compression

IIS - URL Authorization

Add feature Web Server (IIS) > Web Server > Security > URL Authorization



NEW TECHNOLOGY

AWS S3 STORAGE SUPPORT

With the proliferation of raster data archives, many customers are relying on cloud infrastructures to seek greater cost optimization and performance over more traditional network/local storage based technology. ERDAS APOLLO now provides a capability to catalog, deliver and manage raster data insitu from AWS S3 bucket locations.

ERDAS APOLLO can traverse the S3 "file system" to locate supported raster datasets to be decoded and crawled without duplicating data locally.

As the initial release, some limitations do apply. The current support allows:

- A catalog item is created for each file that meets the crawl criteria defined in the decoder.yaml file
- Datasets to be accessible via most Apollo "CRUD" Rest APIs
- A thumbnail attachment
- A file Uri of the catalog item to be the AWS S3 path to the data
- The region of the S3 bucket will be stored as part of the catalog item
- Each dataset will be registered with the Essentials catalog
- Datasets stored on S3 can be served over the OGC WMS and WMTS protocols, requires APOLLO Core WMS to be enabled.
- Datasets can be styled with the APOLLO Core Advanced Styling engine

Some notable limitations include:

- Catalog information that requires file-based processing such as ISO Metadata and Pyramids will not be available
- Dropbox cannot be configured against an S3 bucket
- S3 datasets will not support:
 - Clip/Zip/Ship
 - Styling via the ImageChain styling engine
 - Web Processing Service support of S3 inputs or outputs.
 - ECWP or JPIP protocols

The product team welcomes any feedback in this area, including prioritization of other data types or adding support for additional cloud providers.



SUPPORT FOR WEB COVERAGE SERVICE 2.0.1

ERDAS APOLLO has added raster support for version 2.0.1 of the OGC Web Coverage Service (WCS) standard. Several customers have requested support for this version in order to interoperate with other services and clients within the Defense and NATO environments.

Support for WCS 1.0 will also remain, but any requests will be required to include the version=1.0.0 parameter.



OTHER UPDATES

In the ERDAS APOLLO 2018 Update 3 release, additional updates include:

- Open JDK support
- Updated GDAL and other platform libraries
- Updated support for Tomcat 8.5.33
- Fixes to allow installation on a drive other than C:\



SYSTEM REQUIREMENTS

ERDAS APOLLO

	ERDAS APOLLO Essentials	ERDAS APOLLO Advantage & Professional
Computer/ Processor	Intel® or AMD quad-core processor with a clock speed of 2.0 GHz or higher	
Memory (RAM)	8 GB or higher	8 GB or higher (16 GB recommended)
Server Disk Space	2GB for application footprint	4 GB for application footprint
Spatial Data Storage	Minimum: 7200 RPM speed disk storage Recommended: High Speed Disk Storage, >15000 RPM, SSD, RAID Arrays, or External SAN/NAS ¹	
Network Backbone	100 MB or higher. 1 GB recommended	
Server Operating Systems	<ul style="list-style-type: none"> Windows Server 2012 R2 Standard and Enterprise Edition (64-bit) Windows Server 2016 Red Hat® Enterprise Linux® 6.x,7.x (64-bit) CentOS 6.x, 7.x (64-bit) 	<ul style="list-style-type: none"> Windows Server 2012 R2 Standard and Enterprise Edition (64-bit) Windows Server 2016
Cloud Environments	Amazon Elastic Cloud Compute (EC2)	
Supplementary Operating Systems for Testing & Development	Windows 7 can be used for development purposes, but deployments must be done on supported Server Operating Systems listed above.	
Software	N/A	<ul style="list-style-type: none"> Microsoft® .NET Framework 4.5 Latest Oracle or Open JRE or JDK 1.8 (external dependency)
Minimum Client Software	<ul style="list-style-type: none"> Internet Explorer® versions 9.0 or higher Firefox® 14.0.1 or higher Google Chrome™ 21.0.1180.79 m or higher Safari® 5.1.7 or higher Java JRE v1.6 or higher (for administration console use) 	
Licensing	Geospatial Licensing Administrator 2018	

Application Servers	<ul style="list-style-type: none"> ● Microsoft® IIS 8.5 or higher (Windows) ● Apache 2.2 or higher (Linux) 	<ul style="list-style-type: none"> ● Microsoft IIS 8.5 or higher ● Tomcat 8.5 (embedded in installer)
Databases	N/A	<ul style="list-style-type: none"> ● Oracle Database 12c (12.1.0.1), Standard or Enterprise Edition ● Microsoft SQL Server® 2014 Express or Standard or Enterprise Edition (Express Edition should be used for testing & development purposes only) ● Microsoft SQL Server® 2016 Express or Standard or Enterprise Edition (Express Edition should be used for testing & development purposes only) ● PostgreSQL version 9.4 or higher (with PostGIS 2.0 extension)
Admin Tools	ERDAS APOLLO Essentials Administration Console	<ul style="list-style-type: none"> ● ERDAS APOLLO Data Manager ● ERDAS APOLLO Style Editor (embedded in installer)
Compatible Client Applications	<ul style="list-style-type: none"> ● Geospatial Portal 2018 (embedded in installer) ● ERDAS APOLLO 2018 Catalog Web Client (embedded in installer) ● GeoMedia® 2018 ● GeoMedia Viewer 2018 ● GeoMedia Professional 2018 ● ERDAS IMAGINE® 2018 ● Esri® ArcGIS® for Desktop plugin ● ECWP-enabled applications ● OGC-compliant WMS, WMTS, WCS, WPS client applications 	
Admin Tools Operating Systems	<ul style="list-style-type: none"> ● Windows 7 (32-bit and 64-bit) ● Windows Server 2012 & 2012 R2 Standard and Enterprise Edition (64-bit) ● Windows 8 (64-bit), Windows 10 (64-bit) ● Windows Server 2016 (64-bit) ● RHEL / CentOS v5.x, v6.x (Essentials only) 	



ISSUES RESOLVED

ERDAS APOLLO CORE 2018 UPDATE 3

Issue #	Summary
IW-5947	Crash on initialising a service 0xC0000005: Access violation
IW-5943	Crash on Linux when adding perth_ap2.img file
IW-5941	Deleting a watch folder's physical folder will crash the server
IW-5935	Document how to increase the default mod_proxy timeout period
IW-5932	Incorrect WMS error for invalid style when requesting a virtual mosaic
IW-5929	Crash in WMS GetCapabilities introduced with change for IW-5618
IW-5928	GeoTiff crash (via GDAL) with 14SEP09105708-S2AS_R1C1-053962728010_01_P001.TIF dataset
IW-5925	Extents of cloud based JP2 are offset by 1/2 pixel
IW-5921 00032507	Error adding a subfolder to an existing folder
IW-5920	Customizing or deleting name template causes error when adding items to folders
IW-5914	Unable to add GPKG datasets on Linux
IW-5913	SQL Server credentials incorrectly encoded
IW-5906	Watch folders are broken with error "Unable to initialize a folder with Name"
IW-5905	WMTS errors are incorrectly logged in the format: com.erdas.iws.protocol.ogcwmts
IW-5898	Disable "Upgrade" option in installer
IW-5897	Error "FATAL: sorry, too many clients already" when registering datasets on Postgres
IW-5895	GDAL vsis3 doesn't encode spaces in URL file paths
IW-5892	Folder set operations incorrectly now require the <service></service> element.
IW-5889	When folder operations fail the database can become out of sync with the server
IW-5888	Encode the AWS secret key in the configuration file
IW-5887	Add console UI to configure AWS configuration values
IW-5885	Make AWS config configurable
IW-5883	Generate better error messages when serving from S3/HTTP
IW-5881 00031703	Oracle using service name connections are broken
IW-5871	Deprecate Java WebStart JNLP link to Core console

IW-5868	Linux binaries will unpack with build variable on its rpm name
IW-5867	Unable to copy/move/rename a watch folder
IW-5865	ImageX errors for certain tiles from ecw/jp2 when using /vsi/
IW-5864 00031401	Add config.xml option to disable "Enable Feature Info for this layer" by default
IW-5860	Allow the console to use versions of JRE greater than 1.8
IW-5856	Disabling a file unloads it instead of disabling it
IW-5847	Validate Administration Console with OpenJDK
IW-5845	Service can be moved into folder/service
IW-5840	Fix various file/folder operations
IW-5837 00030413	Virtual Mosaics with subfolders should not be listed separately in the WMTS capabilities
IW-5836	Implement add directory from S3
IW-5821 00029779	Open images via ImageChain when they contain complex geometry
IW-5820	The default <FoldersAreVirtualMosaic/> setting don't work with PostgreSQL
IW-5817	Replace IISRESET with appcmd function in installer
IW-5804	Benchmark ECW and CoG on real EC2 and S3
IW-5776	Update GUI design when adding datasets from remote servers
IW-5775	Startup ERROR logged with SQLite
IW-5742	Creation of a Custom ImageChain Plugin
IW-5600	Linux - postinstall.sh and iwscctl generates error when ifconfig is not installed
IW-5488	Don't ever allow root folder to be a virtual mosaic
IW-5309	Document Linux configuration scripts
IW-5084 00031877	Add the ability to disable watch on a watch folder
IW-5063	Unable to cut-paste folder between services
IW-4970	Console does not return an error when applying a capabilities name that is not unique within the service
	IW-4882 Add support for reading datasets directly from S3 via GDAL VSI



IW-4360	Unable to request imagery from specified NTF files
IW-4158	Consoles allows re-naming a dataset to one that already exists
IW-3523	Implement CORS headers

ERDAS APOLLO ADVANTAGE/PROFESSIONAL 2018 UPDATE 3

Issue #	Summary
AP-3090 00009273	Cannot generate thumbnails for aggregate that is direct child of ROOT
AP-3957 00014821	Need to remove decoder.txt @ C:\Intergraph\ERDAS APOLLO\config\erdas-apollo\providers\coverage\
AP-4703 00015666	Partial white results from WMS (ECW aggregate) requests
AP-5260 00019232	Unable to access imagery via ecwp that exists in another folder with same name.
AP-5408 00021741 00006624	Add resource doesn't recognize Upper case .TIF as extension
AP-9844 00021510 00020968	Switch between legacy and core @ configuration wizard doesn't work at the second time
AP-9897 00021134	Unable to use IWSUpdateUtil.jar @ https port 443
AP-10051 00021759	WMS requests use statistics for the request extents instead of the entire image
AP-10167	"Layer not found" error from WMS during thumbnail generation
AP-10259	Support setting the metadata property in all catalog APIs
AP-10279 00029390	No rendering for External WMS and WFS services registered by Apollo catalog web interface
AP-10346 00022928	Add API for managing raster styles
AP-10467	APOLLO creates circular reference with FgdbService cpbin symlink
AP-10528 00029914	Investigate whether we need to include tomcat native/APR
AP-10548	Some ECW files created by Clip Zip and Ship crawl to the Wrong Location
AP-10558 00026360	Could not create style to render polygon attribute on top of polygon features

AP-10561 00026395	Issues with a particular dem file not working as wms services
AP-10588 00027160	Publishing external OGC WFS using web catalog interface breaking Browse Apollo Catalog for vector data in Geoportal
AP-10635	Add support for crawling S3 buckets/partial paths (directories)
AP-10666	Add S3 crawl wizard to Data Manager
AP-10681 00029972	APOLLO should allow anonymous HTTP OPTIONS requests for CORS support
AP-10684	Add MRF support to decoder.yaml
AP-10692 00029489	Data Manager shall support tokenized OSM/tile server URLs
AP-10696	Need to add s3 directory and file browsing to select cloud directories or resources to crawl
AP-10745 00031491	WMS does not work in Portal after change of Title in ISO Metadata for SQL Server dataset
AP-10747 00031450	APOLLO WebAPI doesn't allow the removal of item rights for principals when the principal name contains domain name
AP-10761 00032123	Update Footprints using REST API is not working.
AP-10775	Upgrade our WCS to version 2.0.1 for raster only
AP-10789	Support for ERDAS APOLLO running in an Open JDK environment
AP-10807	Update to the latest Tomcat 8.5.x
AP-10779	Allow deletion of metadata properties in the catalog API



ABOUT US

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