HEXAGON
GEOSPATIAL

RELEASE GUIDE

ERDAS APOLLO EP01

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Contents

About This Release **3**
What's New in ERDAS APOLLO 16.0 EPO1? **4**
Full Motion Video Support 4
Square Buffer in Clip-Zip-Ship 5
Aggregate Download with Filter 6
WMTS Improvements 6
New Data Formats 7
ISO Metadata Update 7
Other Updates 7

ABOUT THIS RELEASE

This document describes the enhancements for **ERDAS APOLLO 16.0 EP01.**

This document is only an overview and does not provide all of the details about the product's capabilities. See the online help and other documents provided with ERDAS APOLLO for more information.

IMPORTANT NOTICE

READ CAREFULLY BEFORE YOU START INSTALLATION OF THIS PATCH

If you have multiple Hexagon Geospatial products installed on the same server, it is required that both the Platform Suite and Provider Suite products installed on the server have the same release and patch version. Before you start installation, please go through the following steps to facilitate the server update process:

1) Verify 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, Geospatial Portal
   - Provider Suite: ERDAS APOLLO
3) Make sure that for the products detected in point (2) there are compatible patches available.

Make sure all products detected in point (2) are upgraded to the compatible patch before you initiate instance upgrade procedure. In case some of the products do not provide a compatible patch do not proceed with the installation.

Additionally **IIS URL authentication** system feature is required to be installed before installing the Geospatial Portal EP01 patch or later.

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

WHAT'S NEW IN ERDAS APOLLO 16.0 EPO1?

FULL MOTION VIDEO SUPPORT

ERDAS APOLLO introduces the ability to catalog and distribute Full Motion Video (FMV) support within patch EP01. Those videos supported are those that meet Motion Imagery Standards Board (MISB) formatting to include MPEG Transport Streams (TS) with either MPEG-2 or H.264 embedded video CODECs and MISB 0601.x and MISLB 014.x metadata in Key Length Value (KLV).

KLV metadata comes in self-contained binary units where the Key describes the metadata element, the Length defines the data in number of bytes and the Value contains the actual data. The FMV metadata items cataloged by ERDAS APOLLO include:

- Start Time
- End Time
- Video MBR (minimum bounding rectangle)
- Flight ID
- Aircraft ID
- Aircraft Type
- Image Sensor

Review the Installation and Configuration Guide for the pre-requisites needed to use the FMV cataloging capability with ERDAS APOLLO.

This new ERDAS APOLLO feature requires changes be made with regards to the ERDAS APOLLO Geospatial Portal 16 EP01 if that portal is to be used to access older versions of the ERDAS APOLLO Catalog.

In order to maintain backward compatibility with ERDAS APOLLO Catalogs prior to 16.01 the **apolloFullMotionVideoSupport** flag with **false** value must be added into portal's configuration. This setting disables the Full Motion Video Support (enabled by default).

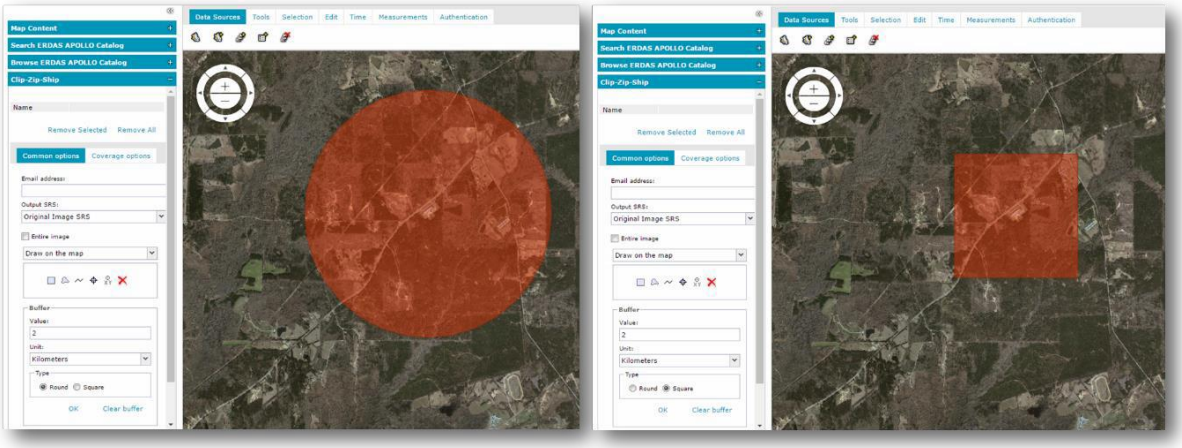
In order to disable the Full Motion Video Support ERDAS APOLLO feature in portal:

1. Edit `Web.config` file for portal.
2. Add the `apolloFullMotionVideoBSupport="false"` entry in `<webclient>` section.
3. Save `Web.config` file.

SQUARE BUFFER IN CLIP-ZIP-SHIP

During Clip-Zip-Ship using the Geospatial Portal, you can specify the part of the image to be processed with either drawn geometry or other features selected on the map. For those two methods - Draw on the map and Select feature from the map - the buffer can be set for point geometry.

Now it can be either a **Circle** or **Square** buffer around the selected point. The Value field defines a radius for a circle buffer or a width/height value for a square buffer, For example, a buffer value of 2km for a selected point location will result in either a 4km diameter circle or a 2x2km square, depending on the buffer type selected.



While a user can choose which buffer they want to use during the Clip-Zip-Ship process the default type of buffer for point geometries is **Circle** (round) but this default can be changed in the portal Web.config file.

1. Edit `Web.config` file for Geospatial Portal.
2. Go to the `<webclient>` section.
3. Type the "**square**" value for the parameter **bufferType** to set the square buffer as a default buffer type in portal.
4. `<clipZipShip bufferType="square" />`
5.

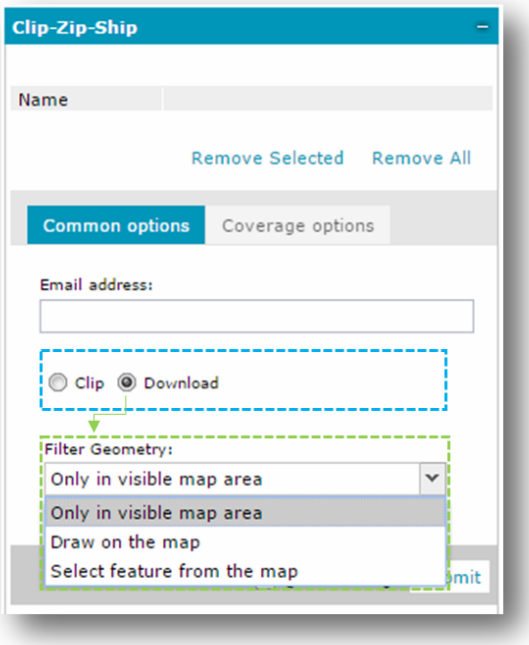
   OR
6.
7. Type the "**round**" value for the parameter **bufferType** to set the circle buffer as a default buffer type.
8. `<clipZipShip bufferType="round" />`
9. Save changes in `Web.config` file and reload the Geospatial Portal. The Clip-Zip-Ship functionality is only available in Apollo.aspx and ApolloPro.aspx layouts.

AGGREGATE DOWNLOAD WITH FILTER

With the release of the Geospatial Portal 16 EP01, users can perform Clip-Zip-Ship operation on an aggregate(s) of datasets as before this patch or use a simplified procedure called **Download with Filter**. Two new radio buttons – **Clip** and **Download** – are available on the Clip-Zip-Ship **Common options** tab. **Clip** option enables controls on **Common options** and **Coverage options** tabs that are used to perform Clip-Zip-Ship operation for the aggregate. If **Download** option is selected only controls for download with filter operation are available (on **Common options** tab). The **Coverage options** tab is disabled then. Possible geometry filters are: **Only in visible map area, Draw on the map** and **Select feature from the map**.

With the **Download with Filter** option enabled, users will be able to download all datasets contained in the aggregates selected where the filter boundary (line) touches.

Clip and **Download** controls are available out of the box and do not require any additional configuration on the server side. The Clip-Zip-Ship functionality is only available in Apollo.aspx and ApolloPro.aspx layouts.



WMTS IMPROVEMENTS

With the release of ERDAS APOLLO 16 EP01, RESTful support has been added alongside the existing KVP request schemes. This gives users and developers an alternative way to interact with ERDAS APOLLO WMTS services. It is not possible to disable the RESTful service and users can request the WMS service via either method.

A new service level option to disable TileMatrixSetLimits has also been implemented. While ERDAS APOLLO implemented and used this specification from its inception, advertising the limits per tilematrixset unfortunately vastly increased the size of the GetCapabiliites responses from ERDAS APOLLO which caused some customers

with thousands of layers in one service to experience performance or general usability issues. With this new service level option selected, customers can choose to hide this contextual information while continuing to serve out the WMTS service; third-party clients will also continue to work if this option is chosen.

WellKnownScaleSet identifiers are now returned in the GetCapabilities document with ERDAS APOLLO 16.0 EP01. These identifiers are used to delineate between which tile matrices are defined by the OGC Specification versus custom user created tile matrix sets. This makes identifying the compliant sets far easier, and removes any ambiguity when clients connect to ERDAS APOLLO Services, especially for interoperability with other WMTS Servers.

NEW DATA FORMATS

Additional format support has been added for the following data types:

- Airbus Defense & Space DIMAP2
- OGC GeoPackage (Raster)

ISO METADATA UPDATE

With the ERDAS APOLLO 16 EP01 release, the migration of ISO metadata to the latest standards has begun. Now when data is crawled, along with the information needed for the ERDAS APOLLO Catalog, other information is written to the database specifically for metadata. Metadata generated by ERDAS APOLLO will adhere to ISO standards and moving forward additional ISO profiles will be available for output.

Also now with this release, any changes to the properties in the ERDAS APOLLO Catalog will be reflected in the metadata and any changes made to the metadata in the ERDAS APOLLO Metadata Editor will also be reflected back to relevant sections of the Catalog.

For Datasets:

- Raster data metadata generated will be in the ISO 19115-2:2009 standard.
- Vector data metadata generated will be in the ISO 19115:2003 Cor.1:2006 standard.
- Point Cloud data metadata generated will be the ISO 19115:2003 Cor.1:2006 standard.

For Aggregates - ISO metadata for aggregates, will be in the ISO 19115:2003 Cor.1:2006 standard.

Subsequent updates will include migration to the ISO 19115-1:2014 standard, followed by migration of metadata to the recently released ISO 19115-3:2016 standard for Vector and Point Cloud. An updated editor will also be integrated.

OTHER UPDATES

Additional updates have been included as well with the ERDAS APOLLO 16 EP01 release, to include:

- Java JDK update (1.8.0_102)
- Projection library updated to latest EPSG revision
- Reported server stability issues

- More than 30 customer-reported issues
- Variety of ERDAS APOLLO Utilities fixes