



Release guide

Release guide

ERDAS APOLLO 2022 Update 3

Version 16.7.3

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About this release

Enhancements to ERDAS APOLLO 2022 are described in this document.

This document is an overview and does not provide all details about the product's capabilities. See the [product description](#), [online help](#) and other documents provided with ERDAS APOLLO for more information.

Note: APOLLO Core/Essentials is not included in this Update 3 release.

ERDAS APOLLO 2022

ERDAS APOLLO provides a comprehensive data management and delivery server solution to address the challenges of identifying, locating, securing and organizing your geospatial and business data into a searchable repository and enabling simple distribution of that data. Complete with a variety of delivery options, ERDAS APOLLO consistently delivers geospatial data faster and with less hardware than competing server-based products. With an out-of-the-box, service-oriented architecture, ERDAS APOLLO can be customized and extended to satisfy both your geospatial and business process requirements.

New platforms

Miscellaneous

ERDAS APOLLO 2022 Update 3 has no updates to underlying platforms.

New technology

Bug fixes

The ERDAS APOLLO 2022 Update 3 release contains no major enhancements to the product. Instead, it contains various bug fixes for APOLLO Server, Studio, Catalog Explorer and metadata parsers. See [Issues resolved](#) for a list of the issues fixed.

System requirements

ERDAS APOLLO

	ERDAS APOLLO Essentials	ERDAS APOLLO
Computer/processor	Intel or AMD x86 four-core processor with a clock speed of 2.0 GHz or higher	
Memory (RAM)	8 GB or higher (16 GB recommended)	
Server disk space	4 GB for application footprint	
Spatial data storage	High speed disk storage, >15,000 RPM, SSD, RAID Arrays or External SAN/NAS	
Server operating systems	<ul style="list-style-type: none"> Windows Server 2016 (viable) Windows Server 2019 Windows Server 2022 Red Hat Enterprise Linux 7.x, 8.x (and compatible systems) 	<ul style="list-style-type: none"> Windows Server 2016 (viable) Windows Server 2019 Windows Server 2022
Cloud environments	Amazon Elastic Cloud Compute (EC2), Microsoft Azure Virtual Machines	
Supplementary operating systems for testing and development	<p>Windows 10 or higher can be used for development purposes, but deployments must be on the supported server operating systems listed above.</p> <p>Microsoft SQL Server Express Edition should be used for testing and development purposes only.</p>	
Software	<ul style="list-style-type: none"> Microsoft .NET Framework 4.7 or higher (Windows) Latest Java 11 LTS versions 	
Licensing	Geospatial Licensing Administrator 2022 with 16.7 feature code versions configured	
Application servers	<ul style="list-style-type: none"> Microsoft IIS 10 or higher (Windows) Apache 2.4 or higher (Linux) 	<ul style="list-style-type: none"> Microsoft IIS 10 or higher (Windows) Tomcat 9.0.52 (embedded in installer)

Databases	<ul style="list-style-type: none"> • Oracle Database 19c, Standard or Enterprise Edition • Using Service Name or SID connection • Microsoft SQL Server 2017 or 2019, Express, Standard or Enterprise Edition 	
	<ul style="list-style-type: none"> • PostgreSQL version 10.8 or higher • SQLite (Essentials only) 	<ul style="list-style-type: none"> • PostgreSQL version 10.8 or higher • With PostGIS spatial extension 2.4 or 3.0 or higher installed
Admin tools	<ul style="list-style-type: none"> • ERDAS APOLLO Core Console 	<ul style="list-style-type: none"> • ERDAS APOLLO Studio • ERDAS APOLLO Data Manager
Compatible client applications	<ul style="list-style-type: none"> • Catalog Explorer Version 4.0 • Geospatial Portal 2022 • GeoMedia 2022 • GeoMedia Viewer 2022 • GeoMedia Professional 2022 • ERDAS IMAGINE 2022 • GeoCompressor Viewer 2022 • Esri ArcGIS for Desktop plugin • ECWP-enabled applications • OGC-compliant WMS, WMTS, WCS, OGC API – Processes client applications 	
Admin tools operating systems	<ul style="list-style-type: none"> • Windows 10 • Windows Server 2016 (viable) • Windows Server 2019 • Windows Server 2022 • Red Hat Enterprise Linux v7.x, v8.x and compatible systems (Essentials only) 	

Issues resolved

ERDAS APOLLO Adv/Pro product tier

Issue/support ticket	Summary
AP-12277 00185080	Backport the fix to the shopping cart table from v2023 to v2022U1
AP-12274 00189021	ADS40 metadata parser – set the acquisition date from the recording session value
AP-12272 00181843	AOI Notification stops triggering after certain time (de-serialization issue)
AP-12261 00180693 00193766	Studio - GEOPROCESSING tab shows invalid license if permanent license (aprof) is used
AP-11835 00030484	Studio does not display all aggregates in Folder view
AP-12278 00201293	APOLLO cannot crawl file with “empty” string in the filename

Install and configure the update

Understanding the ERDAS APOLLO Server Update procedure

Explanation of the process and workflow to update your ERDAS APOLLO instance is below. You will find specific installation instructions later in this document under [Install the server update](#).

The ERDAS APOLLO Update installation is accomplished in four general steps:

1. Stop the ERDAS APOLLO services
2. Install the Update
3. Modify TEMPLATE files delivered with the update to include any customization from your previous configuration
4. Run the ERDAS APOLLO Configuration Wizard

When the ERDAS APOLLO Update is installed, new configuration TEMPLATE files will be written to [APOLLO_HOME]/storage/config_ap_clean. Any existing TEMPLATE files from previous server patches will be overwritten to ensure you have the latest versions of these files. At this point, you should modify the newly written TEMPLATE files to include any customizations you wish to retain from your current configuration.

IMPORTANT: Only the configuration files listed below under [Install the server update](#) will be impacted. Any other existing configuration files will be untouched. If you have not customized these files there is no action required on your part regarding these specific files.

After you have installed the Update and modified the TEMPLATE files as needed, you must run the Configuration Wizard to complete the Update implementation. The Configuration Wizard will first make a backup of existing product configuration files to [APOLLO_HOME]\config.backup. Next, it will overwrite the existing TEMPLATE files throughout the product with the updated TEMPLATE files from ...\\config_ap_clean. These TEMPLATE files will in turn be used by the Configuration Wizard to update the product's configuration files.

.....

For example, when the Configuration Wizard is run

* [APOLLO_HOME]/config/erdas-apollo/metadata/metadata.yaml is copied to APOLLO_HOME/config.backup

* [APOLLO_HOME]/storage/config_ap_clean/metadata.yaml.TEMPLATE overwrites [APOLLO_HOME]/config/erdas-apollo/metadata/metadata.yaml.TEMPLATE

* [APOLLO_HOME]/config/erdas-apollo/metadata/metadata.yaml.TEMPLATE overwrites [APOLLO_HOME]/config/erdas-apollo/metadata/metadata.yaml

.....

When the Configuration Wizard is finished, your APOLLO installation will be updated and will include your custom configurations from previous versions.

Updating ERDAS APOLLO server

Preparing your server for the Update

Before you install and configure the patch, you should stop the ERDAS APOLLO Application Server and related services.

1. Open the Windows Server Services tool
2. Stop the APOLLOTOMCAT service, "ERDAS APOLLO Tomcat Application Server"
3. Stop the APOLLOSmartSync service, "ERDAS APOLLO Drop Box"
4. Stop the APOLLOActiveMQ service, "ERDAS APOLLO ActiveMQ Broker Service," if it exists
5. Stop the Geospatial Server Administration Console Service, "Geospatial Server Administration Console Service"
6. Stop and restart the IISADMIN service, "IIS Admin Service"
7. Stop and restart the W3SVC service, "World Wide Web Publishing Service"

RECOMMENDED: Before proceeding with the installation, KILL any remaining w3wp.exe processes via Task Manager.

Install the server update

The ERDAS APOLLO Update does NOT require you to uninstall any previous patch version.

WARNING: If ERDAS APOLLO was previously installed to a custom location (anywhere but the default), then the patch installation must be run from a command line with administrative privileges, using the command shown below.

The following example assumes APOLLO has previously been installed to D:\ERDAS APOLLO.

```
APOLLO-AdvPro-2022-Update-3.exe /s /v"/qn INSTALLDIR="D:\ERDAS APOLLO\ ""
```

1. Unzip the downloaded zip file containing the Update release.
2. Run **APOLLOAdvPro-Update3.exe**. When prompted, select the Update button.
3. The install will update all required files.

NOTE: After installing the Update, APOLLO services will not be restarted. This will occur automatically after running the Configuration Wizard described below.

IMPORTANT: If your installation process requires a system reboot, once that reboot has completed you will need to stop the APOLLO Application Server and related services again before continuing with the configuration Wizard. Follow the steps described earlier to stop APOLLO services.

Modify configuration template files

Configuration files that are overwritten and/or updated by Update 2:

- [APOLLO HOME]\config\erdas-apollo\queryables.xml
- [APOLLO HOME]\config\erdas-apollo\providers\coverage\decoder.yaml
- [APOLLO HOME]\config\erdas-apollo\metadata\metadata.yaml

IMPORTANT: Address the following files AFTER you install the Update, but BEFORE you run the Configuration Wizard.

queryables.xml

If your APOLLO Catalog is configured with queryables, replace the template file at [APOLLO HOME]\storage\config_ap_clean\erdas-apollo\queryables.xml with your existing file at [APOLLO HOME]\config\erdas-apollo\queryables.xml. It is also good practice to keep a backup of the file as well.

decoder.yaml

If you use custom decoders defined in [APOLLO HOME]\config\erdas-apollo\providers\coverage\decoder.yaml, add your customizations to the template file at [APOLLO HOME]\storage\config_ap_clean\erdas-apollo\providers\coverage\decoder.yaml.TEMPLATE.

metadata.yaml

If you use custom metadata parsers defined in [APOLLO HOME]\config\erdas-apollo\metadata\metadata.yaml, add your customizations to the template file at [APOLLO HOME]\storage\config_ap_clean\erdas-apollo\metadata\metadata.yaml.TEMPLATE.

Other config files

If you are aware of other customized configuration files, follow the same pattern as shown in the previous items and simply modify the relative template file(s) found in [APOLLO HOME]\storage\config_ap_clean\ with your customizations prior to running the APOLLO Configuration Wizard.

IMPORTANT: Check timestamps of the template configuration files listed above. Depending on when you have installed the current ERDAS APOLLO, the timestamps of the configuration files above may be more recent than the timestamps of their equivalent template files in the Update. If the target file is newer than the template file, the Configuration Wizard will NOT update the configuration file. This scenario may happen if you are installing ERDAS APOLLO for the first time, and then you install an Update patch on the same day. Modify the timestamp of a template file or configuration file using a powershell command from an Administrator command prompt as follows:

```
powershell (Get-Item .\<filename>.<ext>).LastWriteTime = (Get-Date)
```

Configuring for Oauth2 authorization

For customers wishing to use Oauth2 for authentication and authorization, APOLLO now supports OAuth2 using Keycloak as the Authorization Server. The Authorization Server must define the required APOLLO user roles such as 'esp_administrator', 'esp_data_manager', 'esp_consumer' and 'esp_clip_zip_ship' as described in the ERDAS APOLLO Administrator Guide.

The following files should be copied before running the ERDAS APOLLO Configuration Wizard. If this is done afterward, you need to reset IIS services to complete the configuration.

Source files are found in C:\Program Files\Common Files\Hexagon\Services\Templates\WMS\Files\bin

Copy these files:

- Intergraph.Geospatial.Server.Apollo.ApolloCatalogConfigurationProvider.dll
- Microsoft.IdentityModel.JsonWebTokens.dll
- Microsoft.IdentityModel.Logging.dll
- Microsoft.IdentityModel.Tokens.dll
- System.IdentityModel.Tokens.Jwt.dll

Paste the files above into these two locations and overwrite any existing files:

- C:\Program Files\Common Files\Hexagon\Services\Instances\ApolloCatalogWMS\bin
- C:\Program Files\Common Files\Hexagon\Services\Instances\ApolloCatalogWMSPublic\bin

Run the Configuration Wizard

Once you have installed the Update and merged any customized files into the TEMPLATE files, you must run the Configuration Wizard to complete the update.

WARNING: Check to be sure the Geospatial Server Administration Console Service is running before proceeding with the Configuration Wizard.

1. Run the ERDAS APOLLO Configuration Wizard
[APOLLO_HOME]\configwizard\ConfigurationWizard.exe or run from the Start menu.

2. Once the Configuration Wizard is finished, APOLLO services will restart.

IMPORTANT: Clear the web browser cache

Periodically clearing your web browser cache helps improve the loading time of web pages and increases your computer's performance. Sometimes data that is stored in the cache prohibits the loading of up-to-date contents. For these, and other reasons, it is recommended that you clear your web browser cache to ensure you are using the latest ERDAS APOLLO Studio fixes and enhancements delivered with this update.

Updating Catalog Explorer

The Catalog Explorer Update is a full release build. You have the option to replace your existing Catalog Explorer implementation, or you may stand up an entirely new instance while keeping your current implementation. For this document it is assumed you are replacing your current implementation.

Prepare a new *.war file

Begin by making a backup copy of your current *.war file. You can find the deployed copy of it in [APOLLO HOME]\tomcat\webapps\catalogexplorer.war.

Stop the ERDAS APOLLO Tomcat service using the Windows Services command dialog.

Once the service is stopped and you have a backup of your war file, you may safely delete or remove the war file and the corresponding folder from the webapps folder.

The Catalog Explorer Update was included in the zip file containing your ERDAS APOLLO Update. Open an administrator command prompt and navigate to that folder, then run launcher.bat.

You can refer to the Catalog Explorer documentation for more details about configuring your war file using the launcher.bat utility. Use the launcher.bat tool to point to your existing Catalog Explorer database or to a new database, if you prefer not to retain any information from the previous database.

NOTE: You should never use the H2 database in a production environment. Postgres, Oracle or MSSQL are recommended for production.

Complete your configuration and save your war file.

Deploy the new war file

Copy the war file to [APOLLO HOME]\tomcat\webapps.

Open the file [APOLLO HOME]\tomcat\conf\server.xml using a text editor. Verify that the unpackWARs and autoDeploy properties are set to "true"

```
<Host name="localhost"  appBase="webapps"  unpackWARs="true"
autoDeploy="true"  deployXML="false">
```

Restart the ERDAS APOLLO Tomcat service. After a moment, verify that the war file is deployed successfully in the [APOLLO HOME]\tomcat\webapps folder.

You may now test the updated Catalog Explorer by connecting from your web browser.

NOTE: If you wish to keep your existing Catalog Explorer implementation operating side by side with your new one, you will need to give your war file a unique name and you will need to specify a unique database for your new implementation via the launcher.bat utility.

Contact us



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Hexagon's Safety, Infrastructure & Geospatial division improves the resilience and sustainability of the world's critical services and infrastructure. Our solutions turn complex data about people, places and assets into meaningful information and capabilities for better, faster decision-making in public safety, utilities, defense, transportation and government.

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