

# ArcGIS Engine Runtime: End-Of-Life

Following Esri's decision to retire their ArcGIS Engine Runtime, we are transitioning all affected workflows in GeoGraphix to other compatible technologies.

**Most GeoGraphix layers ARE NOT affected by this change.**

Only layers created or imported using ArcGIS Engine Runtime are incompatible with GeoGraphix 2024.2 and must be converted to a compatible format.

## Area of Impact

One notable impact of the ArcGIS Engine Runtime deprecation is that Esri no longer provides a mechanism to read and write LYR files outside the ArcGIS Pro environment. This affects GeoGraphix ESRI ArcGIS LYR layers and other layers that rely on LYR files, including:

- ESRI ArcGIS CAD
- ESRI ArcGIS GIS
- ESRI ArcGIS Image
- ESRI ArcGIS IMS
- ESRI ArcGIS LYR
- ESRI ArcGIS SDE
- Field Planning
- Field Planning Tracts
- Fishbone
- Surface Hazard
- Subsurface Hazard

**These layer types must be converted to a compatible format to be usable in GeoGraphix.**

**Please note that most GeoGraphix layer types ARE NOT affected by these changes. LAYER NOT LISTED HERE WILL CONTINUE TO FUNCTION AS NORMAL** including WellBase, IsoMap, ESRI Shapefile, LandNet, GeoAtlas and other layers not listed above.

## Background

GeoGraphix 2024.2 replaces all ArcGIS Engine Runtime based workflows in three ways:

### 1. Rewriting Workflows

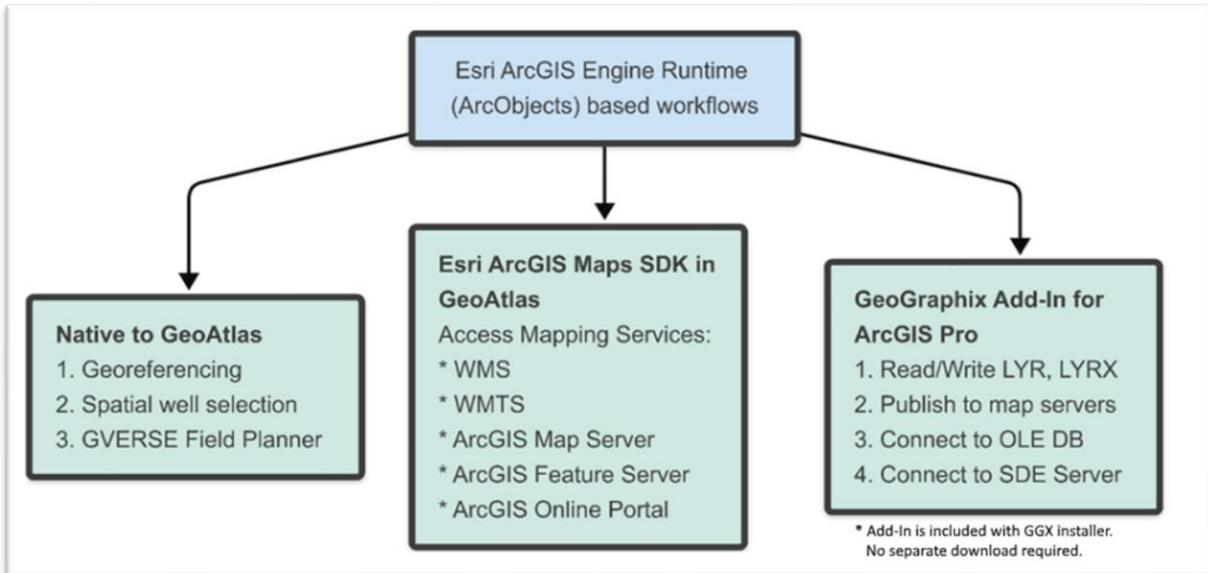
Some workflows have been rewritten within GeoAtlas to not require the Esri ArcGIS Engine Runtime at all. These workflows will continue to work as expected in 2024.2. See diagram below for a list of these workflows.

### 2. Transitioning to Esri ArcGIS Maps SDK

Connectivity to WMS, WMTS, ArcGIS Map and Feature Servers, and ArcGIS Online now uses the new Esri ArcGIS Maps SDK. The new SDK is shipped as part of GeoGraphix. Users are no longer required to install additional tools to access these features.

### 3. GeoGraphix Add-In for ArcGIS Pro

Workflows that were available via ArcGIS Engine Runtime but are no longer supported by Esri outside the Esri ArcGIS Pro environment can be accessed with the new GeoGraphix Add-In for ArcGIS Pro. See the diagram below for a list of these workflows.



## Converting Deprecated Layers

Layers based on the LYR format cannot be used with GeoGraphix version 2024.2 because they depend on the deprecated ArcGIS Engine Runtime. For a complete list of affected layers, please see the **Area of Impact** section.

The GeoGraphix Add-In for ArcGIS Pro is the easiest way to convert all deprecated layers to a compatible format. The add-in ships with the GeoGraphix installation and does not require a separate download. Please see the **Installation** section below for instructions on where to find and install the add-in.

## Known Layer Compatibility Issue

Esri ArcGIS Georeferenced Image layers are not supported by version 2024.2. **We are working on a fix for these layers, which will be available by the end of April 2025.** If these layers have an associated world file, you can reimport them into your 2024.2 projects using the “File > Import > Georeferenced Image Import” option.

## GeoGraphix Add-In for ArcGIS Pro

The GeoGraphix Add-In for ArcGIS Pro is designed to facilitate seamless integration between GeoGraphix and ArcGIS Pro. Built using Esri ArcGIS Pro SDK, its main purpose is

to enable bidirectional data exchange between the two platforms. The add-in requires GVERSE GeoGraphix 2024.2 and ArcGIS Pro version 3.4 or higher.

The add-in also provides a utility to convert all deprecated layers to a compatible format. This utility converts layers in bulk by AOI and automatically updates all saved maps.

## Installation

1. Download and install GeoGraphix 2024.2 from [www.gverse.com/downloads](http://www.gverse.com/downloads).
2. Open ArcGIS Pro and navigate to *Project > Add-In Manager*.
3. Click “*Add Folder...*” and add *C:\Program Files (x86)\GeoGraphix\Plugins\*.
4. Restart ArcGIS Pro.
5. A “*GVERSE GeoGraphix*” tab in the ArcGIS Pro ribbon indicates successful installation.

## Access Batch Conversion Utility

Use the “LYR Batch Converter” option in the GVERSE GeoGraphix tab in ArcGIS Pro.



## Convert Layers to Compatible Format

1. Activate the GeoGraphix project with unsupported layers in ProjectExplorer.
2. Launch the LYR Batch Converter utility from the GeoGraphix ribbon in ArcGIS Pro.



3. Select one or more AOIs. The tool will convert all incompatible layers in selected AOIs.
4. Press OK to start conversion process.
5. All saved maps automatically updated with the new layers.
6. A log file is generated in the User Files folder in the active GeoGraphix project. The log contains all conversion details like selected AOIs, backup directory, date and time etc.
7. Original layers are backed up in a folder called “LYRBackup” in the active project. You can delete these backups after verifying a successful conversion.