GeoPDF® Publisher for ArcGIS

GeoPDF® Publisher for ArcGIS Server

Version 7.8.1, May 2021

What is GeoPDF Publisher for ArcGIS?

GeoPDF® Publisher for ArcGIS, formerly known as TerraGo Publisher for ArcGIS®, is an extension to Esri ArcGIS® that allows you to produce and consume GeoPDF® documents with ArcMap™. GeoPDF documents can be shared with the broadest possible audience to extend the reach and value of your investment in ArcGIS. GeoPDF Publisher for ArcGIS gives you unmatched capabilities for configuring and optimizing the PDF documents you create with ArcGIS. Additionally, the GeoPDF documents made with GeoPDF Publisher for ArcGIS are enabled for use with GeoPDF® Toolbar, and extension to Adobe Acrobat Reader to provide a host of geospatial collaboration capabilities, including an Identify Tool similar to the one provided by ArcMap for inspecting feature attributes, simultaneous display of multiple geographic coordinates, measurement, and geospatial markup.

Most of the functionality of GeoPDF Publisher for ArcGIS is available to implementations of ArcGIS for Server through GeoPDF Publisher for ArcGIS Server.

What's new in this release?

Restore Page Insert Operations
Version 7.8.1 restores functionality of the Append and Prepend page operations for geospatial and non-geospatial PDF files within all supported version of ArcGIS.

New online Help Topics
GeoPDF Publisher for ArcGIS version 7.8.1 introduces online help. Help topics are located here: https://www.terragotech.com/guide/geopdf/publisher/arcgis/

For GeoPDF Publisher for ArcGIS Server, the Help topics are located here: https://www.terragotech.com/guide/geopdf/publisher/arcgisserver/

What's new in 7.8.0?

Support for ArcGIS 10.8.0
Version 7.8.0 supports ArcGIS versions 10.5 to 10.8.

Publisher has a new look and a new name
GeoPDF® Publisher for ArcGIS returns our product brand name to the GeoPDF invented by TerraGo, along with a fresh, new color palette. To enable the GeoPDF Toolbar, open Customize, select Toolbars and select GeoPDF® Publisher for ArcGIS.

What's new in 7.7.0?

Support for ArcGIS 10.7.1
Version 7.7.0 supports ArcGIS versions 10.4 to 10.7.1.

Page Insert
Version 7.7.0 is enhanced with a page insert feature. Geospatial or non-geospatial PDF files can be prepended or appended to the exported GeoPDF.

NetCDF
Version 7.7.0 adds support for NetCDF (Network Common Data Form) data formats.

Publisher for Server Toolbox
Version 7.7.0 adds Python tools for creating and working with GeoPDFs. The tools are in the Publisher for ArcGIS toolbox which can be found in the Catalog window under System Tools. The tools include:

Batch Export MXD To GeoPDF - Exports MXDs to GeoPDFs. Output PDFs have the same names as the exported MXDs.

Merge GeoPDFs - Merge GeoPDFs into a new multi-page GeoPDF. Order of PDFs and pages in the PDFs is preserved.

Spatial Query of GeoPDFs - Search for GeoPDF maps that match the specified extent and relationship.

Non-Roman characters in GeoPackage table names
Version 7.7.0 now handles non-Roman characters in GeoPackage table names rather than replacing the characters with underscores.

What's new in 7.6.1?

Added the ability to Select All and Unselect All in the Export Configuration
Version 7.6.1 contains updated controls to Select All and Unselect All in the Attributes tab and the Hyperlinks tab within the GeoPDF Export Configuration.

What's new in 7.6.0?

Support for ArcGIS version 10.7
Version 7.6.0 supports ArcGIS versions 10.4 to 10.7. ArcGIS version 10.3 and earlier are not supported.

Removal of TerraGo Arc2Edge
Version 7.6.0 no longer includes the TerraGo Edge Import and Edge Export extensions.

Support for Web Map Tile Service layers
Version 7.6.0 adds support for Web Map Tile Service (WMTS) layers.

Check attributes on second monitor when using dual monitors
Version 7.6.0 resolved the issue which prevented checking attributes on second monitor when using dual monitors. Issue 15014.

Resolved error using slashes in the mapframe name
Version 7.6.0 resolved the error - CopyFromTempToUser - using backslash or forward slash in the mapframe name.

Added PubPy methods for processing GeoPDF files
In version 7.6.0 a new pubpy module, geopdf_proc, was added for processing GeoPDF files and geospatial PDFs. See 'return mapframe information' for usage.

Resolved GeoPackage export issue with non-ASCII characters
Version 7.6.0 resolved an issue with certain international character sets exporting GeoPackage attributes. Issue 10519.

New Installer Auto-Activation
The installer for version 7.6.0 includes a new feature to set the Concurrent License Server Name (CLSN) or automatically activate with an Auth-Code (AC) using the silent installation option.

Command to set the Concurrent License Server Name:
Publisher_for_ArcGIS.exe /S /v"/qn CLSN=tlm"

Command to auto-activate using the Auth-Code:
Publisher_for_ArcGIS.exe /S /v"/qn AC=1exxxx1f-cxx8-4xx3-bxx9-8xxx7xx1xxx4".

Usability improvements to advanced PDF layering
Version 7.6.0 includes usability improvements to the advanced PDF layering configuration user interface.

What's new in 7.5.1?

Certain locales caused bad ISO georegistration
Version 7.5.1 resolved an issue with certain international locales generated incorrect ISO georegistration.

Non-rectangular world maps generate errors, bad geo-registration and/or incorrect neatlines

Version 7.5.1 correctly calculates georegistration points and neatlines when the map coordinate system's horizon is non-rectangular.

Georegistration now uses four points
Version 7.5.1 now generates four registration points instead of three. Certain maps require three geo-registration points for correct coordinate transformation. However, some mapframe readers do not correctly handle three registration points but work correctly with four.

PubPy func.py no longer uses a hardcoded value
The PubPy method, ExportMXDToPDF(), in version 7.5.1 now uses the DPI value stored in the MXD instead of using a hard-coded value.

PubPy extended
In version 7.5.1 new methods, readFromMxd(), writeToMxd() and configureMxd(), are added to the ExportGeoPDFConfig class. Also a new test suite, funcTestSuite.py, is added.

What's new in 7.5.0?

Support for ArcGIS version 10.6.1
Version 7.5.0 supports ArcGIS versions 10.3 to 10.6.1. ArcGIS version 10.2 and earlier are not supported.

Resolved issue with page element referencing cartographic representation
Version 7.5.0 resolved an issue with page element referencing cartographic representation. Bug 10491.

Support for time-enabled raster mosaics and catalogs
Version 7.5.0 added support for Temporal PDF export for raster mosaics and catalogs.

Restored access to Help Documentation
Version 7.5.0 restored the functionality of launching the Help Documentation from the TerraGo Publisher Toolbar.

Improved Layer support with GeoPDF View
Version 7.5.0 adds GeoPDF View support for layers in more PDFs. GeoPDF View now displays as many layers as possible instead of none if a PDF has any invalid layers. Bug 10496.

What's new in 7.4.1?

Resolved an issue with DWG layer
Version 7.4.1 resolved an issue in DWG layer support that prevented GeoPDF export.

What's new in 7.4.0?

Support for ArcGIS version 10.6.0
Version 7.4.0 supports ArcGIS versions 10.3 to 10.6.0. ArcGIS version 10.2 and earlier are not supported.

Support for time-enabled maps in ArcMap
Version 7.4.0 now supports time-enabled maps in ArcMap. A bug was fixed which did not export the correct data for the active time stamp of a time-enabled map. Additionally, a new GeoPDF export mode has been introduced the results in a GeoPDF document that contains all the time stamps for all the time-enabled maps on the page. GeoPDF layers are created that allow viewing time stamps in much same way they can be viewed in ArcMap, with access to map layers, feature attributes and feature hyperlinks, and even animation of the time stamps.

Issue with GeoPackage exports with certain Layer name characters

Version 7.4.0 resolved an issue with GeoPackage exports when the first character of the layer name is illegal as the first character of an SQLite table name.

Replacement of Installation Engine
The Version 7.4.0 utilizes a more robust installation engine.

What's new in 7.3.1?

Encoded URLs in hyperlinks
Version 7.3.1 resolved an issue with encoded URLs in hyperlinks not exporting correctly.

Support for annotation layer rendering order
Version 7.3.1 adds an enhancement to GeoPDF layering by supporting the annotation layers draw order option.

Support for table frame elements
Version 7.3.1 supports exporting table frame elements.

Improved export of transparent features
Version 7.3.1 improves feature transparency speed and generates smaller GeoPDF files.

Issue with excluding layers from map clip
Version 7.3.1 adds support for excluding layers when using the data frame Clip to Shape option.

Issue using GeoPDF View with Edge basemap exports
Version 7.3.1 resolved rendering issues when exporting GeoPDF View layers to Edge basemaps.

Expanded Edge basemap zoom level range
Version 7.3.1 is no longer limited to four or fewer basemap zoom levels in Edge export. Also, a tile count was added to provide a better estimate of export time.

Hyperlinks from data view
Version 7.3.1 resolved an issue when exporting hyperlinks from data view.

Issue with saving a PubPy GeoPDF layering scheme
Version 7.3.1 fixed some cases where COM pointers were being released prematurely when calling GeoPDFLayerSchemeHelper.saveAs().

Issue with layer transparency and raster tiling artifacts
Version 7.3.1 resolved an issue of visible tile boundaries when applying layer transparency to a raster layer.

What's new in 7.3.0?

Support for ArcGIS version 10.5.1
Version 7.3.0 supports ArcGIS versions 10.3 to 10.5.1. ArcGIS version 10.2 and earlier are not supported.

Transparency for GeoPDF layers
Version 7.3.0 enables layers created by a viewed GeoPDF to have transparency applied to them.

Fixed embedded scale settings
Version 7.3.0 correctly honors embedded scale settings when set in MPK.

Improper rendering of labels when variable scale range support is disabled

Version 7.3.0 supports the proper rendering of labels when variable scale range dependency is disabled.

Labels on layers with features drawn with null symbology not rendered
Version 7.3.0 renders labels on layers with features drawn with null symbology.

Hyperlinks active when all layers turned off
Older versions of Adobe Reader and Acrobat would detect hyperlinks placed by Publisher in GeoPDF documents when the layer was turned off. Adobe Reader DC does not display this behavior.

What's new in 7.2.2?

Insert objects from clipboard
Version 7.2.2 supports insertion of objects, such as tables, from the clipboard.

Layer masking
Version 7.2.2 supports layer-prescribed masks.

Support of raster transparency
Version 7.2.2 upgrades supports of maps made from raster data with transparency.

More robust support of GeoPackage feature attributes
Version 7.2.2 corrects handling of feature attributes from grouped layers written to GeoPackage.

Object data feature attributes supported for layers with cartographic representation
Version 7.2.2 corrects handling of object data feature attributes from layers drawn with cartographic representation.

Suppression of creation of invalid hyperlinks
Version 7.2.2 corrects handling of hyperlinks that no longer point to valid destinations.

What's new in 7.2.1?

Installation failure fix
Version 7.2.1 packages post-installation fixes for installation failures to problems with registering DLLs. The instructions are given in a section under "Known issues".

Hyperlink handling improvements
Version 7.2.1 does not create hyperlinks to documents not embedded in a GeoPDF map.

Feature data export from grouped basemap layer to GeoPackage and Edge Server
Version 7.2.1 enables export of feature data from grouped basemap layers to GeoPackage and to Edge Server via Arc2Edge.

What's new in 7.2.0?

ArcGIS 10.5 support
Version 7.2.0 introduces support for installation and use of all extensions in ArcGIS 10.5 environments.

What's new in 7.1.0?

New TerraGo Arc2Edge extension
The Version 7.1.0 introduces the Arc2Edge integration with TerraGo Edge workflows by connecting directly to TerraGo Edge servers.

Export Configuration dialog fix
The Export Configuration dialog was modified to resize properly when ArcMap is resized.

Duplicate layer name preventing export fix
The problem of duplicate file names preventing export of GeoPDF map with GeoPackage feature attributes was resolved.

What's new in 7.0.3?

Compatibility with legacy operating systems
The Version 7.0.2 release provides minor compatibility enhancements for legacy operating systems.

More robust license activation
The license activation mechanism has been enhanced

What's new in 7.0.2?

Multiple instances of Publisher can be run with a single concurrent license
The previous version of Publisher would check out a license for every instance of Publisher that was running for the same user on the same computer. Now a single user can run as many instances of Publisher as they like on the same computer with a single concurrent license. TerraGo issues 8141 and 10432.

Export Configuration dialog resize based upon ArcMap window size
The Export Configuration dialog of the previous version of Publisher could under certain combinations of screen resolution and application state draw the Export Configuration dialog such that it could not be resized and make certain user interface elements inaccessible. The Export Configuration dialog now bases its default size based on the state of the ArcMap window. TerraGo issue 10427 and 10434.

What's new in 7.0?

GeoPackage Feature Attributes and Identify Tool
GeoPDF documents created with TerraGo Publisher for ArcGIS may optionally store feature attributes in an Open Geospatial Consortium (OGC) GeoPackage attached as a PDF file attachment. As such, it may be saved separately from the PDF for use with other systems and workflows. TerraGo Toolbar provides an Identify Tool similar to that found in Esri ArcGIS ArcMap which can search, display, and edit the embedded feature attributes.

PubPy – ArcPy Python programming language extensions
PubPy is an extension of Esri's ArcPy Python programming language interface which exposes various TerraGo Publisher for ArcGIS functionality. PubPy functions enable the easy creation and deployment of Publisher-powered geoprocessing toolboxes to ArcGIS. PubPy is suitable for automating many Publisher tasks or implementing Web services for ArcGIS for Server applications. Version 7 further extends and expands the coverage of Publisher functionality.

Custom to-WGS84 datum shift embedding
Support for embedding custom to-WGS84 datum shifts using the seven-parameter Position Vector method (EPSG method 9606) for ISO style map frames in GeoPDF documents to display WGS84-based coordinate systems with TerraGo Toolbar.

Advanced layer configuration options
TerraGo Publisher for ArcGIS provides superior configuration of how layers are presented in the layer pane of Adobe Reader, allowing simplification and rearrangement of layers without having

to change the ArcMap Table of Contents. Version 7 has added user interface enhancements to make this job easier.

TerraGo Edge integration with Edge Notebooks and MBTiles Tile caches

TerraGo Publisher for ArcGIS provides for the creation of Edge Notebooks and MBTiles tile caches from its new TerraGo Edge dialog. Edge Notebooks and MBTiles tile caches are used to provide base maps for applications delivered to TerraGo Edge mobile clients. Edge Notebooks are used to organize applications deployed on TerraGo Edge and use MBTiles tile caches to store the base map information. MBTiles tile caches are a popular, published file-based Web mapping standard used by a variety of applications including TerraGo Edge.

Remote desktop access to application

Version 7 provides application access via remote desktop by default.

Known issues

Extensions do not appear in ArcMap because of DLL registration failure

Occasionally product installations will not successfully complete due to an intermittent failure to register its DLLs. As of version 7.2.1, scripts have been added to the installer to register the DLLs separate from the installation process. To implement the fix (administrator privileges are required):

1. Open the installation folder, usually "C:\Program Files (x86)\TerraGo Technologies\TerraGo Publisher for ArcGIS"
2. Right click `reg_desktop.bat` and select "Run as administrator"
3. If necessary, click "Yes" to allow changes to the system.

If the product still fails to appear, please contact support via the information contained in the "How do I obtain more information" section.

What are the installation requirements?
Software
Operating systems such as Windows 8.1, Microsoft Windows 10 (versions 1709,1803, 1809, 1903, 1909), Microsoft Windows Server™ 2008 R2 or Microsoft Windows Server 2012 and 2012 R2 and 2016 and 2019.

The last version to support Windows 7 SP1 was 7.6.1.29, released August 2019.

GeoPDF Publisher for ArcGIS requires Esri ArcGIS 10.5 through 10.8.x.

The last version to support ArcGIS 10.4.x was 7.7.0.20, released February 2020.
The last version to support ArcGIS 10.3.x was 7.5.1.32, released March 2019.
The last version to support ArcGIS 10.2.x was 7.2.2.15, released July 2017.
Please contact TerraGo Support to obtain a copy.

Software is tested and officially supported on an English (US) operating system.

Installation
The installer includes a feature to set the Concurrent License Server Name (CLSN) or automatically activate with an Auth-Code (AC) using the silent installation option.

Command to set the Concurrent License Server Name:
 GeoPDF_Publisher_for_ArcGIS.exe /S /v"/qn CLSN=tlm"

Command to auto-activate using the Auth-Code:
 GeoPDF_Publisher_for_ArcGIS.exe /S /v"/qn AC=1exxxx1f-cxx8-4xx3-bxx9-8xxx7xx1xxx4"

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How do I obtain more information?
 TerraGo Technologies Technical Support support@terragotech.com
 + 1.678.391.9666
 + 1.866.453.1609 Option 2 (U.S. Toll Free)
 + 1.678.391.9701 (FAX)

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