Release Guide

GeoMedia GI Toolkit 2020

Version 16.6
15 October 2019

Contents

About This Release

This document describes the enhancements for GeoMedia GI Toolkit 2020. Although the information in this document is current as of the product release, see the Hexagon Geospatial Support website for the most current version.

This release includes both enhancements and fixes. For information on new features, see the New Technology section. For information on fixes, see the Issues Resolved section.

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 GeoMedia GI Toolkit for more information.

GeoMedia GI Toolkit is a general-purpose set of productivity tools designed to extend the capabilities of GeoMedia Desktop in data capture, data management, and cartographic product generation. It provides capabilities to manipulate features and attributes; provides rule-based validation; controls graphical displays, views, windows, and legends; generates reports; manages data exports; populates attributes and metadata; and clips and merges features.

New Platforms

GeoMedia Desktop
GeoMedia Desktop 2020 is required for this release.

Oracle
Oracle 18c is now supported.

SQL Server
SQL Server 2017 is now supported.

New Technology

General

Licensing
A new product license is required for the 2020 release. The latest Geospatial License Administration tool should be downloaded and used for this release.

System Requirements

Computer/ Processor	• 64-bit: Intel 64 (EM64T), AMD 64, or equivalent
Memory (RAM)	• 4 GB minimum, 8 GB recommended
Disk Space	• 10 GB for software • Data storage requirements vary by mapping project[1]
Peripherals	Software security (Hexagon Geospatial Licensing 11.14.0) requires the following: • Ethernet card
Operating Systems[2]	• Windows® 10.0 Professional (64-bit) • Windows Server® 2016 (64-bit)[2] • Windows Server® 2019 (64-bit)[2]
Virtual Server and Virtual App Technology	• VMware ESX 5.1 • Oracle VM Virtual Box • XenApp 7.6
Database Server Engines	• Oracle® Server 11g, 32-bit and 64-bit, at least version 11.2.0.4 • Oracle Express 11g, at least version 11.2.0.4 • Oracle® Server 12.1 • Oracle® Server 12.2 • SQL Server® 2012, 64-bit • SQL Server® Express 2012 • SQL Server® 2014, 64-bit • SQL Server® 2014 Express • SQL Server® 2016, 64-bit • SQL Server® 2016 Express • SQL Server® 2017, 64-bit • SQL Server® 2017 Express

	Oracle Client 11g, 32-bit[3]
Database Client Engines	• Oracle Client 11g, 32-bit[3]
	• Oracle Client 12.1, 32-bit[3]
	• Oracle Client 12.2, 32-bit[3]
	• SQL Server Native Client 10.0 or higher[4]

System Requirements Notes

[1] Disk I/O is usually the slowest task in geospatial data processing. Faster hard disks improve productivity. Reading data from one disk, writing temporary data to a second disk, and writing data to a third disk improves performance. Disk arrays improve productivity but some RAID options slow performance. Network disk drives are subject to network limitations.

[2] GeoMedia runs on 64-bit systems in 32-bit emulation mode.

[3] Oracle Data Access Components (ODAC) is required if using the Feature Accessor option for Oracle in the PublishIFC utility, or if using the Database Utilities utility to manage an Oracle warehouse. ODAC is typically delivered by the Oracle Client Administrator installer, but not by the Oracle InstantClient installer. ODAC contains many components, of which PublishIFC requires the Oracle Data Provider for .NET, and Database Utilities requires the Oracle Provider for OLEDB.

[4] The SQL Server Native Client 10.0 or higher is needed for the Database Utilities utility to automatically create the correct GeoMedia metadata for date, time, and datetime2 data types when using a SQL Server or SQL Server Spatial warehouse. You may get SQL Server Native Client 10.0 or higher from the corresponding Microsoft websites. If the SQL Server Native Client is not installed on the system, you will need to manually choose Date as the data type from the dropdown combo box for these data types in the Feature Class Properties dialog and set the format properly.

Issues Resolved (16.5 Update 1)

CR #	Summary	Description / How to Reproduce
00024923	Edit Metadata results in "Out of Memory Error"	GI Toolkit Edit Metadata results in "Out of Memory Error". This issue also appears when using version 14 and 16. Running 'Edit Metadata' on a large set of data using an Oracle connection produces an 'Out of Memory' error message part way through the process. Error is produced at approximately 3.4 GB of memory. Consequently, not all the features in the connection receive the metadata, a PMBR is not then created and GeoMedia must be restarted. Typically, the Edit Metadata has no issues but for large numbers of features this issue appears. An approximate threshold for the error when processing around 120,000+ features in the entire connection at once.
00027319	Legend Preferences displays "Invalid procedure call or argument" error and Change	GI Toolkit Legend Preferences displays "Invalid procedure call or argument" error and Change Attribute Value displays "OpenLogFile: Exception has been thrown by the target of an invocation" error

CR #	Summary	Description / How to Reproduce
	Attribute Value displays "OpenLogFile: Exception" error	
00004147	Data Clip errors out with "OpenLogFile:Exception"	Data Clip errors out with Oracle or FGDB data if ISSG is on the machine. When trying to use the data clip from GIToolkit with an Oracle or FGDB source, it results in an error. Dataclip command errors on the Oracle feature names with the period in them.
00029498	GI Toolkit Preferences results in "Invalid procedure call or argument"	GM GIToolkit Preferences cmd results in "Invalid procedure call or argument".
00029640	Export Features to Shapefile fail to honor settings from Advanced Collection Set MGCP Defaults tool utility	Shape files created by GI Toolkit, Export Features command ignore MGCP Defaults settings and do not create required fields for FCODE and UID. User has used the GeoMedia Advanced Collection, Set MGCP Defaults tool / utility to set the Settings Type to the "MGCP Defaults" option. Using the MGCP Defaults type option automatically sets various output attribute field options needed for MGCP format. The user notes that the expected FCODE and UID attribute fields are not exported and populated to output shapefiles produced by the GI Toolkit tab, Export Features command. The FCODE and UID fields do not appear at all in the exported data despite the settings used in the Set MGCP Defaults tool in GeoMedia Advanced Collection.
00029545	Export to Shapefile dialog clicking on the Browse button doesn't display a dialog to choose the export folder	Using GIToolkit Export Features command if Shapefile is selected the user is unable to browse for an Export folder. On the Export to Shapefile dialog clicking on the Browse button doesn't display a dialog to choose the export folder.
00005194	GITK Feature merger dialog defaults to *.ini file for Attribute Exclusion Definition file	Feature merger dialog defaults to *.ini file for Attribute Exclusion Definition file and the delivered files with GIPSDataPack 2014 are *.txt.
00018683	SRS Manager, can't delete Symbol Set in SRS even after deleting the rules	Unable to delete Symbol sets out of SRS. Customer first deletes the rules for a particular Symbol set. But delete of Symbol set brings up message "Unexpected ...". Every single Symbol must be deleted first out of the Symbol Set. Then the Symbol Set can be deleted.
00016318 00014360	Modify Area By Face results in errors	Modify Area By Face command results in several errors: "GetConnectionFromDBPath: -2147467259, Unable to get the GDatabase property if the connection was never opened. Please connect and try again." "UpdateFaces:91, Object variable or With block variable not set."
00014956	Modify Area by Face command does not work with legend entries from a closed connection	GeoMedia GI Toolkit Modify Area by Face command does not work when there are legend entries from a closed connection (even if those features are set to locatable off).
00014932	Select Cancel on second Data Clip dialog doesn't redisplay	I brought up the Data Clip dialog and filled out the "main" dialog using the Active Legend, Retain Original Primary Key as ...., Clip and Copy Inside Area, Select Feature Class (tileref_tileref, tile_name, etc.) and Output Mode = Create New Feature. I selected the OK button and a secondary dialog was displayed with 2 check box options (1) Adjust primary keys sequentially (modifies schema of Source Connection) and (2) Detect and remove duplicate features. I selected the Cancel button to go back to the previous dialog, however it didn't dismiss the

CR #	Summary	Description / How to Reproduce
		dialog and return to the previous but instead proceeded to perform the data clip as if I had selected the OK button.
00010874	Customize Ribbon dialog does not display GI Toolkit Data Clip cmd when adding new tab/group	The Data Clip cmd is not available in the GI ToolKit list of commands when trying to create a new Tab/Group in the Customize Ribbon dialog. It is available in the GI Toolkit tab list of commands in the in the Customize Ribbon dialog.
00027745	Data Clip fails to output records with different coordinate system	When clipping features, if the feature being used as the clipping feature is in a different coordinate system than the features being clipped, the tool does not clip the features and it results in a blank GM Access Warehouse. For example, the coordinate system of clipping feature is in the Mercator projection and the Coordinate System of the features being clipped are in the WGS84 Geographic non projected coordinate system. The clipping process runs without an error being generated, but the results is an empty GM Access Warehouse.
00029312	Schema Rules Symbols – Symbols – Missing Color Table	In the GIToolkit SRS SchemaRulesSymbols tab and editing a feature symbology the color table is not attached/loaded if running on a German operating system. The user then has to load/attach the color table to the feature manually. This doesn't occur on an English system.
00031681	Schema Rules Symbols does not import XML file exported from SRS on German system	GM GIToolkit Schema Rules Symbols utility does not import XML file exported from SRS on German system. Export the delivered MGCP4x.srs into XML. Then Import the exported *.xml data into a new SRS file. None of the SRS is imported if on German system. No Schema entries are Input into new SRS. It's not possible to Import SRS-XML back to SRS.

Issues Resolved (16.6)

CR #	Summary	Description / How to Reproduce
00048598	Data Clip active legend option does not reflect selected features in active map window	GI Toolkit Data Clip cmd active legend option does not reflect selected features in active map window. This is a regression from GM Toolkit 2014. Customer is using Oracle 11c Spatial Data, but can be reproduced using Access db also.

Deprecated

The Windows 7.0, Windows 8.1, and Windows Server 2012 operating systems are no longer supported.

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