



# RELEASE GUIDE

## IMAGE SCOUT 2018

Version 16.5  
February 13, 2018



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## ABOUT THIS RELEASE

This document describes the enhancements for Image Scout. 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 fixes that were made to Image Scout for this release, see the Issues Resolved section. For information on enhancements, see the New Technology section.

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 Image Scout for more information.

## IMAGE SCOUT

As a viewing and analysis tool, Image Scout allows you to combine multiple images into a virtual mosaic for seamless smooth roam over a vast and complex area. Using Image Scout, you can perform complex queries on spatial and attribute data from various sources and produce numerous views of highly sophisticated maps in a single GeoWorkspace. Furthermore, Image Scout lets you print those map views on a single sheet and add borders, marginalia, and other finishing touches.

Image Scout is composed of three different Hexagon Geospatial products:

- **GeoMedia Professional:** An enterprise GIS that is the perfect tool for collecting and analyzing GIS data, populating an enterprise database, and turning information into precise finished maps for distribution and presentation. Includes a complete Grid tool kit for spatial and distributional analysis of any kind of gridded data, including raster, elevation, LiDAR and others. Extensive Help examples direct the user to many different types of analyses such as: hot spot analysis, least cost routing, contour generations and many more.
- **GeoMedia Image Professional:** Provides image light table capabilities for creating virtual mosaics, image enhancements, image comparison, image annotation, research and negation, directed search over linear and area features, and much more: based on Overwatch Systems' Image Light Table Plus (ILT) product.
- **GeoMedia GeoDEX:** A viewing and analysis tool for geographic information providing the capability for the user to create MGRS grids and work with specialized image data sets such as CADRG, CIB, and others.

Image Scout 3D also includes the following product:

- **GeoMedia 3D:** Provides an integrated 3D visualization and analysis environment. You can visualize, navigate, analyse, and interact with 3D data natively in GeoMedia. In addition, you can dynamically integrate surfaces, imagery, feature data, and vector data to provide a 3D view of all data sources in a GeoMedia 3D map window.



## NEW PLATFORMS

### LICENSING

Starting with the Power Portfolio 2018 release, licenses are no longer be based on Certificate-file based technology. Instead, licenses are based on Activation IDs, allowing you to activate products without providing Host IDs or other hardware-related parameters. You can also re-host without emailing the licensing team for assistance. The Power Portfolio 2018 release also includes improved tools that make it easier to install licenses, set up license servers, and provide more professional error handling. Finally, the Power Portfolio 2018 release includes improved customer notification in the products, such as an “end of subscription” message in the Start-up screen. These more secure and automated processes, along with a new licensing portal, provide you with a better overall user experience.

### IMPACTS

### GEOWORKSPACES

GeoWorkspace files from GeoMedia 2016 and previous may be opened in GeoMedia 2018. GeoWorkspace files saved with GeoMedia 2018 cannot be opened in GeoMedia 2016 and previous.

## NEW TECHNOLOGY

### GEOMEDIA PROFESSIONAL

### NEW TECHNOLOGY (16.1)

### DATA ACCESS

#### POSTGIS DATA SERVER

The PostGIS data server now better supports multi-table read-write views of various kinds, and supports queries against the picklist table.

The PostGIS data server now filters out feature classes which have table and field names containing uppercase characters. Such characters require special syntax in SQL and are not supported within GeoMedia.

#### WMS DATA SERVER

The WMS data server now automatically recognizes and handles certain Coordinate Reference Systems as being defined with swapped axes (e.g. Y-X rather than X-Y). It is no longer necessary to add an .ini file entry to convey



the need to swap axes, in most such cases. The .ini file entry is still available for cases in which the software misinterprets the CRS, or in which the WMS site results don't match the CRS.

### WMTS DATA SERVER

The WMTS data server now automatically recognizes and handles certain Coordinate Reference Systems as being defined with swapped axes (e.g. Y-X rather than X-Y). In addition, an .ini file entry is now available for cases in which the software misinterprets the CRS, or in which the WMTS site results don't match the CRS.

### ORACLE LTT DATA SERVER

Further changes to optimize LTT-specific queries for Oracle 12c have been made to resolve performance issues. These are beyond the changes in GeoMedia 16.1 for CR# 1-S0AO0B.

### DATABASE UTILITIES

We've improved the PostGIS capabilities within Database Utilities, as well as changed the definition of the GFeatures view to filter out feature classes which have table and field names containing uppercase characters. Such characters require special syntax in SQL and are not supported within GeoMedia.

## FEATURE CACHING

### LOGGING

An optional log file may be created, and if present the feature caching system will provide diagnostic information about whether and how caches are being used at runtime.

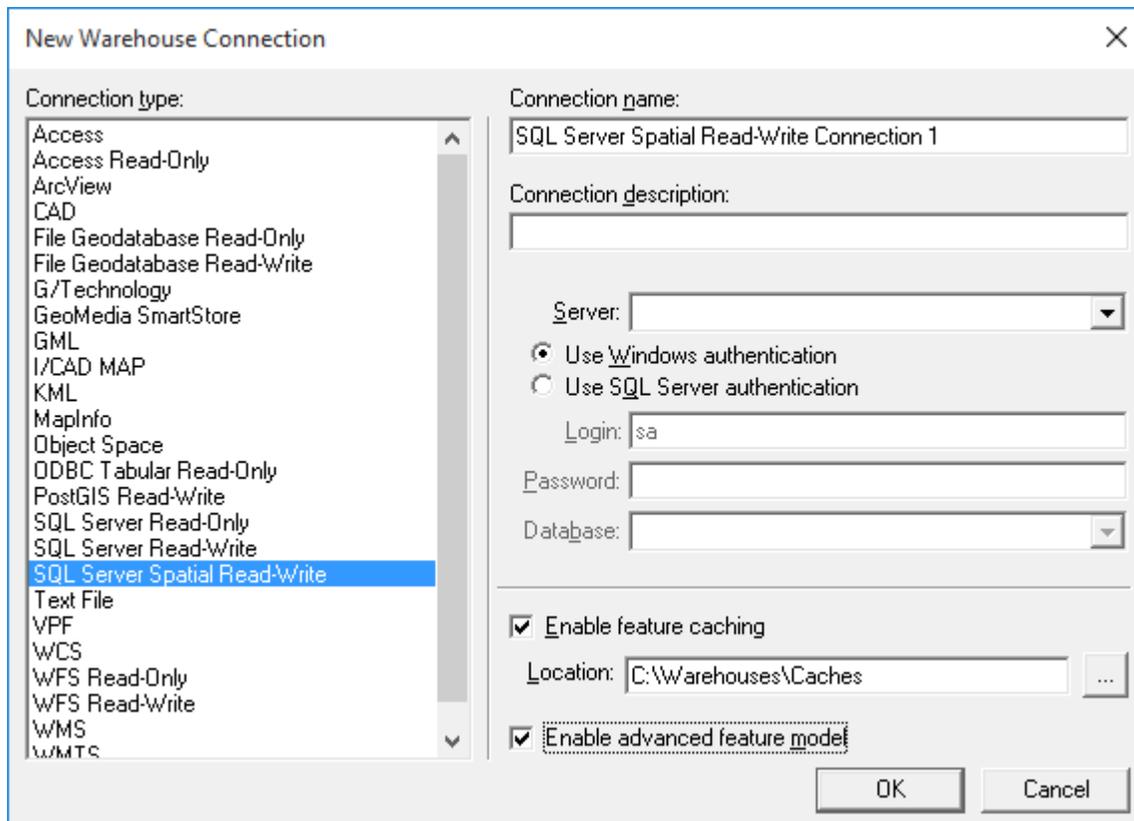
### IMPROVED PERFORMANCE

IFC files that are created with GeoMedia Desktop 16.1 are organized for even better performance, especially for cases of very large files accessed over a network share. Previously published feature cache files remain compatible, but performance will improve if the files are newly published.

### COMPATIBILITY WITH ADVANCED FEATURE MODEL

On the New Warehouse Connection command as well as the Properties dialog of the Warehouse Connections command, the "Enable advanced feature model" and "Enable feature caching" checkboxes are no longer mutually exclusive. The performance improvements that come with feature caching are now available for AFM-configured warehouses as well.





## DATA OUTPUT

### OUTPUTTABLESERVICE

OutputToTableService now provides a .DisableTransactions property which, when set to True, causes the object to avoid all BeginTrans, CommitTrans, and Rollback operations. Control of transactions is left completely to the calling application.

## ANALYSIS

### SPATIAL INTERSECTION COMMAND AND SPATIALINTERSECTIONPIPE

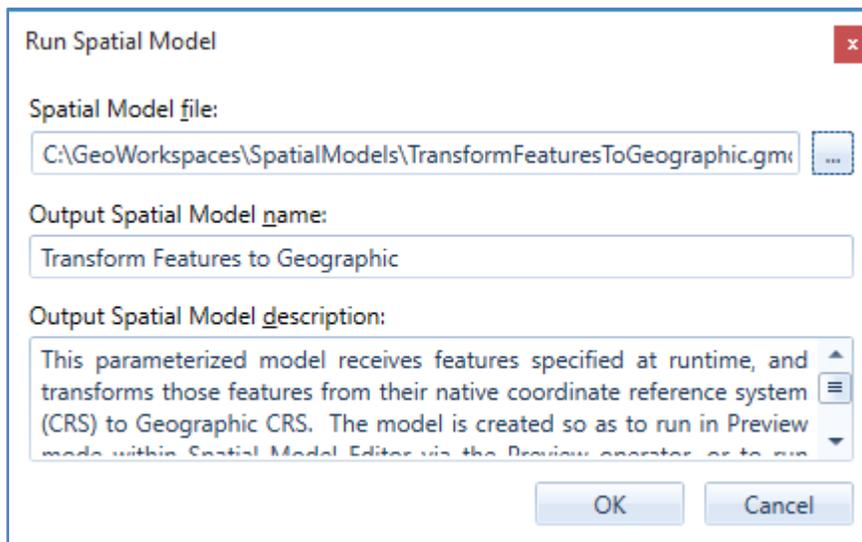
SpatialIntersectionPipe and the Spatial Intersection command that uses it, now transmit the individual key definitions of the incoming recordsets into the output query as a composite key.



## SPATIAL MODELING

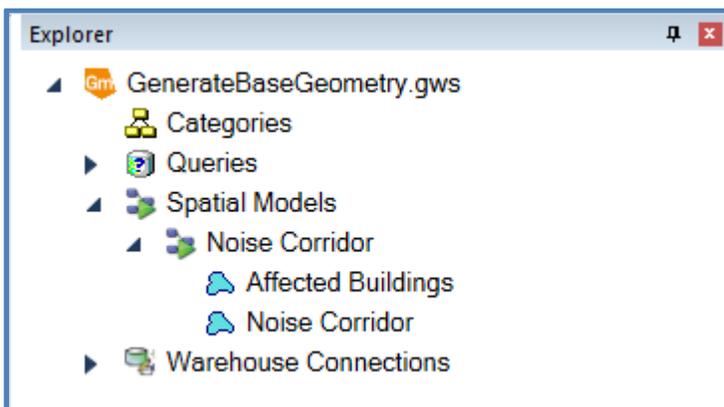
### RUN SPATIAL MODEL COMMAND

This new command integrates spatial models into GeoMedia. It allows the user to select a model (.gmdx file) created through the Spatial Model Editor utility; fill in any parameters in the model dynamically, especially features input to the model from the GeoWorkspace; and then see the various results from the model added to the map within the GeoWorkspace.



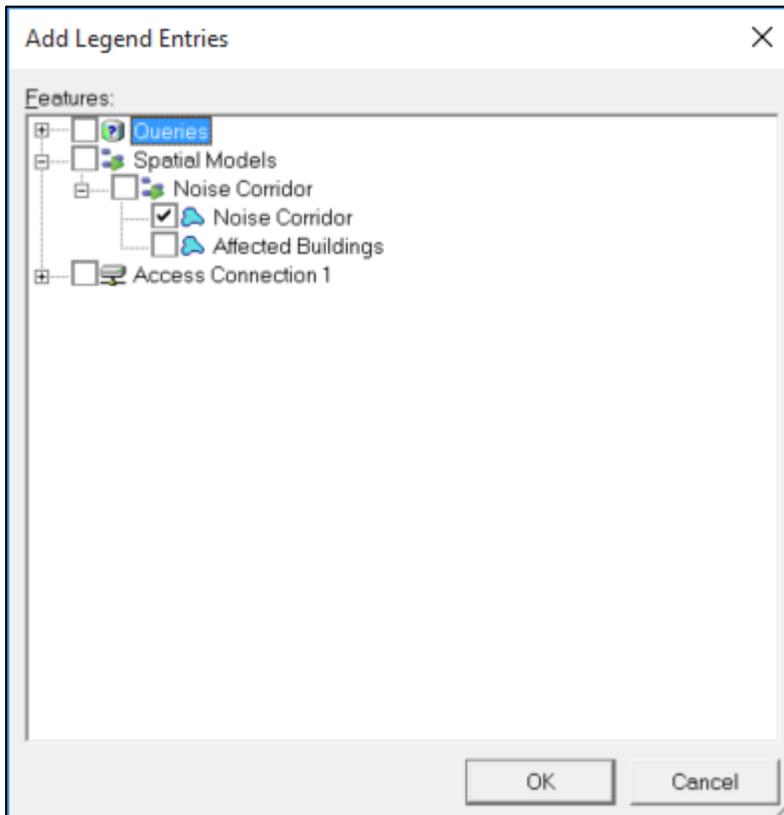
### EXPLORER WINDOW

A new “Spatial Models” entry in the Explorer window lets you easily see what spatial models have been run within the GeoWorkspace, and to manage them by rerunning them, changing their names and other properties, and deleting them. You can also see the various results of the run, and display them in a map or data window.



## SUPPORT FOR SPATIAL MODEL RESULTS IN COMMANDS

Many commands in GeoMedia which present features for selection through a feature treeview control, now support the selection of spatial model results in addition to feature classes, queries, categories, and the like. In such cases, a new “Spatial Models” branch appears in the tree, with each spatial model in the GeoWorkspace visible beneath it. Expand a model and then select the various results for processing.



Commands which support selection of spatial model results include: Add Legend Entries, Add Thematic Legend Entry, New Data Window, Change Data Window Contents, Output to Feature Classes, Attribute Query, Attribute Selection, Join, Union, Spatial Query, Spatial Intersection, Spatial Difference, Buffer Zone, Analytical Merge, Aggregation, and Functional Attributes.

To use spatial model results within commands that do not yet support them directly, output the results to a feature class via Output to Feature Classes, or build a query on the results via Attribute Query that passes through all of the features.

## SAMPLE SPATIAL MODELS

The default spatial models folder (C:\GeoWorkspaces\SpatialModels) now contains sample models that demonstrate use of certain operators and demonstrate how to construct a model properly for use with the Run Spatial Model command.

## SPATIAL MODEL EDITOR

This utility has been upgraded to the latest version released with ERDAS IMAGINE 16.1.

## ADVANCED FEATURE MODEL

### AFMCONVERTSERVICE

AFMConvertService is a new component that provides the ability through API to convert a standard non-AFM warehouse to a warehouse configured for the Advanced Feature Model. This capability was previously available only through GUI.

### COMPATIBILITY WITH FEATURE CACHING

On the New Warehouse Connection command as well as the Properties dialog of the Warehouse Connections command, the “Enable advanced feature model” and “Enable feature caching” checkboxes are no longer mutually exclusive. The performance improvements that come with feature caching are now available for AFM-configured warehouses as well.

## NEW TECHNOLOGY (16.2)

### GENERAL

#### APPLICATION WINDOW

The name of the active GeoWorkspace is now displayed in the caption of the application window at all times, whether the active map, data, or layout window is maximized or not. Previously the GeoWorkspace name was shown only when a child window was not maximized.

#### INVOKECOMMAND METHOD

The method InvokeCommand on the Application object now supports invocation of the Select Tool command.

### COORDINATE SYSTEMS

#### GEODETTIC DATUMS

Support for the following datums has now been added:



- Oman National Geodetic Datum 2014. This addition includes support for use of ONGD14 with UTM zones 39-41 North. It also includes autodt.ini support for 7-parameter datum transformation between ONGD14 and WGS84 (ITRF89).
- Geocentric Datum of Australia 2020. This addition includes support for use of GDA2020 with MGA (UTM) zones 46-59 South. It also includes autodt.ini support for 7-parameter datum transformation between GDA1994 and GDA2020.
- Ross Sea Region Geodetic Datum 2000.
- NAD83(NSRS 2011) and associated PA11 and MA11. This addition includes support for use of NAD83(NSRS PA11) with Hawaiian State Plane 1983 zones and NAD83(NSRS 2011) with other State Plane 1983 zones, as well as use with various UTM zones.
- Rauenberg Datum/83 and Potsdam Datum/83. Standardizes support for Gauss-Kruger (3 degree) zones and 7-parameter datum transformations to ETRS89 that were previously emulated.

## EPSG CODES

EPSG support has now been updated from version 8.8 to version 9.0 of the geodesy dataset. EPSG added 139 new Coordinate Reference System codes; this release adds support for 110 of them (those unsupported are CRS types not intrinsically supported in GeoMedia, such as Engineering or Vertical-only CRS).

## DATUM TRANSFORMATIONS

A new transformation is now introduced which streamlines the number of steps needed in a transformation path involving one of the example Named Datum entries associated with the NAD83 geodetic datum in the United States. This improves performance for large datasets.

## DATA OUTPUT

### OUTPUTTOTABLESERVICE

For the Access data server only, as a consequence of Create Table committing any open transaction in Access, the new transaction-disabling logic will now begin a new transaction after the Create Table. For this scenario, the calling application must delete the created table itself, when performing rollback logic.

## MAP DISPLAY

### THEMATIC LEGEND ENTRIES

On the Legend Entry Properties dialog for Unique Value and Range thematic legend entries, the column header over the on/off checkboxes in the thematic class grid can now be used to turn on and off the entire set of checkboxes together. Click on the column header to toggle the checkbox for the topmost row, and to set all other checkboxes to the same value. Click again to reverse the settings for all classes.



If a Unique Value or Range legend entry is not displayed in the map window, and the legend window is used to display one of its child legend entries representing a thematic class, the parent legend entry will now automatically have its display turned on so that the thematic class is displayed in the map.

## SPATIAL MODELING

### SAMPLE SPATIAL MODELS

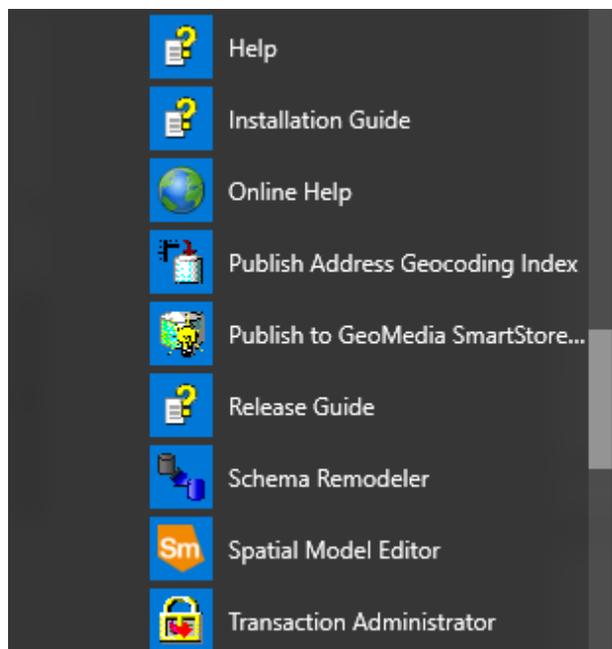
Additional sample models for raster data have been introduced.

## NEW TECHNOLOGY (16.5)

### GENERAL

#### SETUP

This Release Guide is now available directly from the Start menu.



#### SAMPLE DATA

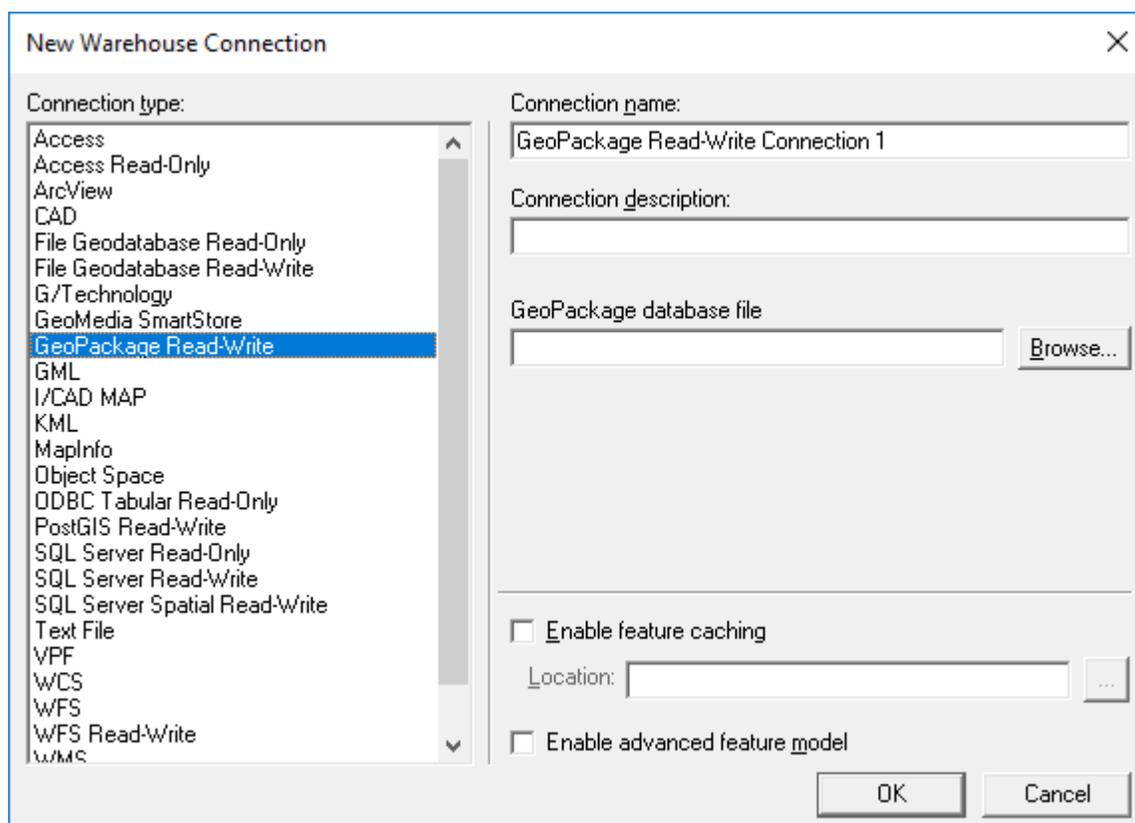
Some obsolete sample data has now been eliminated from the delivery. This includes both GeoWorkspaces and Access warehouses.

All remaining sample GeoWorkspaces have been upgraded to GeoMedia Desktop 16.5 format.

## DATA ACCESS

### GEOPACKAGE DATA SERVER

A new read-write GeoPackage data server has been introduced with GeoMedia 16.5. It supports the OGC GeoPackage 1.2 Encoding Standard, which includes geospatial extensions to SQLite. Like the Access data server, it provides a personal, portable, free, file-based warehouse type which requires no separate software installation or licensing.

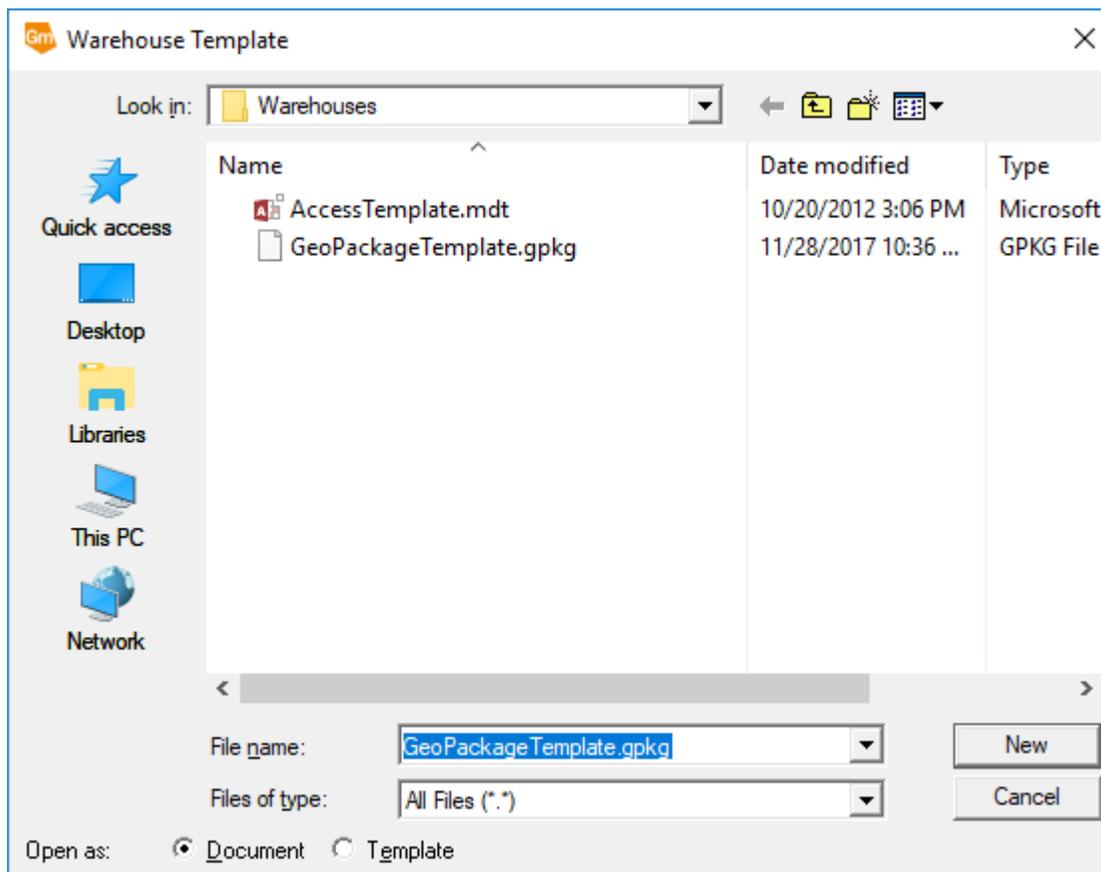


The GeoPackage data server is supported in most parts of all three tiers of the GeoMedia Desktop, with the exception of the following:

- The library system
- The catalog system
- The grid system
- The PublishIFC utility
- Output of static labels

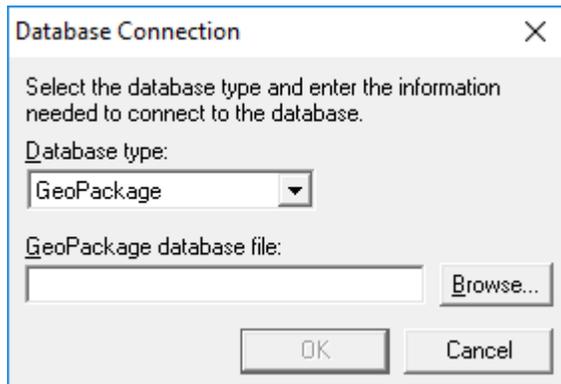
### NEW WAREHOUSE COMMAND

This command now supports GeoPackage warehouses in addition to Access warehouses, and provides a warehouse template for both. The default new warehouse type is now GeoPackage.



## DATABASE UTILITIES

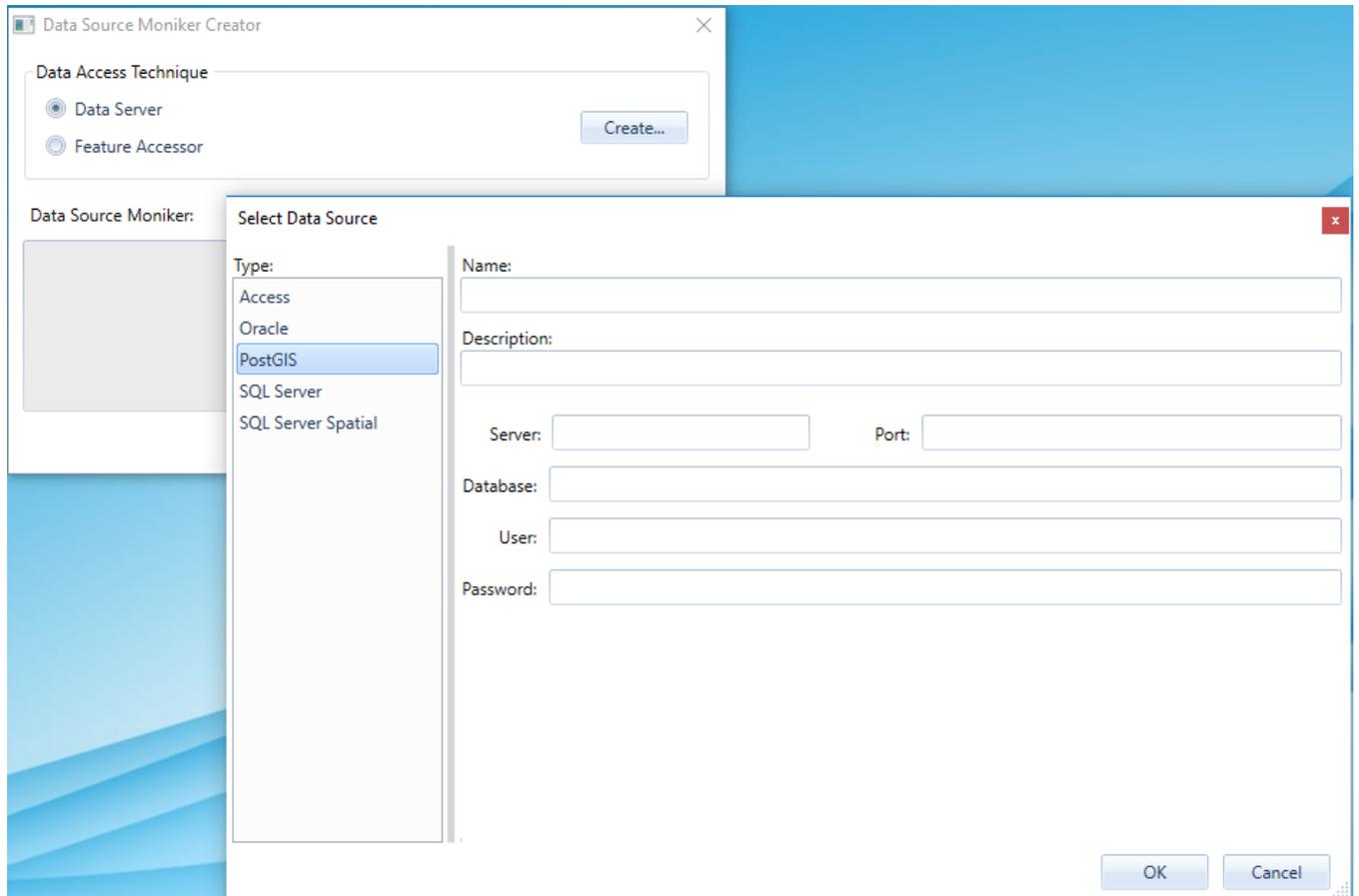
Support has been added for GeoPackage warehouses.



## BATCH PUBLISHING FOR POSTGIS

PostGIS warehouses are now supported for batch feature cache publishing through the DataSourceMonikerCreator.exe and PublishIFC.exe utilities. This also means that PostGIS warehouses are available for shared/enterprise cache configurations.

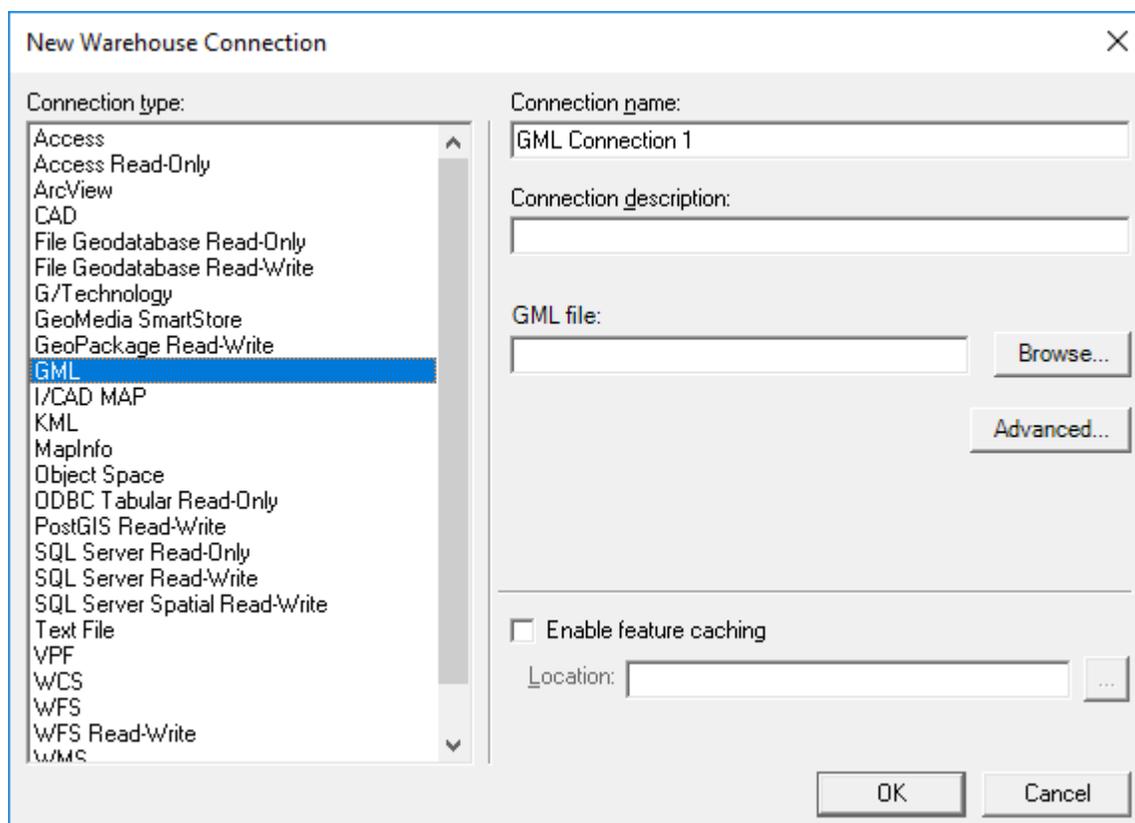




### GML DATA SERVER

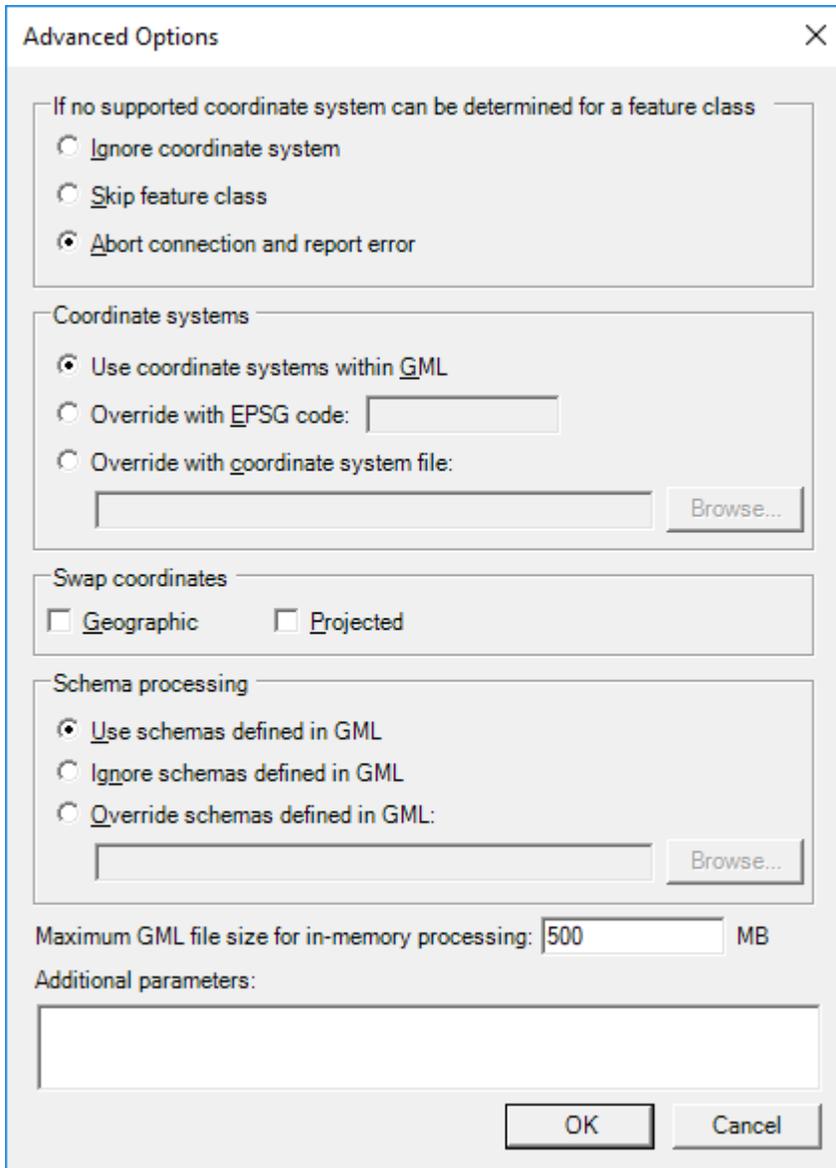
A new read-only GML data server has been introduced with GeoMedia 16.5, replacing the previous GML data server. It supports data conforming to the OGC Geography Markup Language (GML) specification.





Several new connection options are provided on the Advanced button.





Key features of this new GML data server:

- Improvements in the logic of parsing and translating GML structure into GeoMedia feature classes, resulting in broader compatibility and significantly-reduced connection time. The default strategy is to use the schema from the GML header to compose most of the feature classes definitions needed for GeoMedia at connection time. But in cases in which the schema is not available, not useful, or incorrect, the data server can be set to ignore the schema and try to compose the feature classes definitions directly from the GML structure.
- The NO\_GEOM\_CSFFOUND option available for the previous GML data server (corresponding to the “If no matching coordinate system is found for a feature instance” group of the “Advanced Options” dialog

box) has been retired and is ignored if passed to the ConnectInfo parameter through API. The GeoMedia feature model does not support GML files with features of the same feature class having different coordinate systems. The new GML data server assumes that the first feature found within a feature class sets the coordinate system for the whole class. The benefit of this assumption is a much shorter connection time, especially with GML having multiple feature classes.

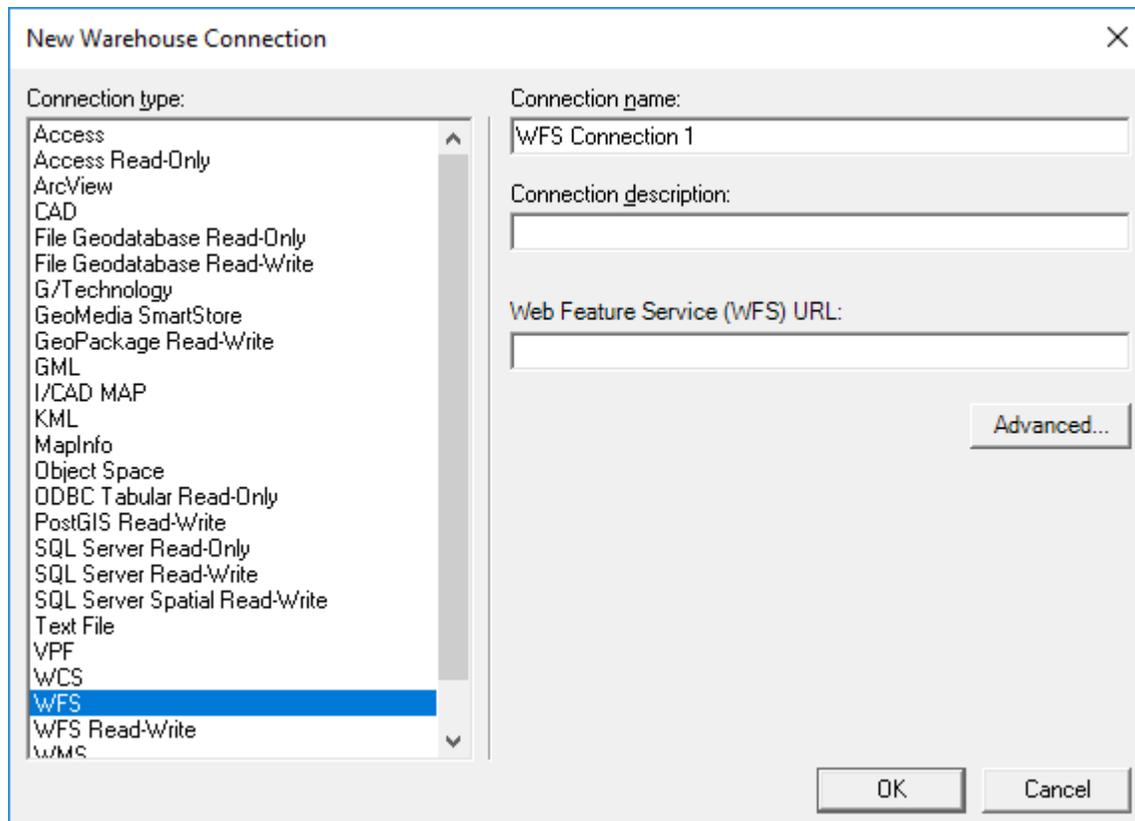
- Overriding the coordinate system is possible for incorrectly-defined GML files. The user can input a valid EPSG code or a CSF file, and the new coordinate system definition is applied to all feature classes from the GML file.
- The data server will respect the axis order according to the standard EPSG or CSF definition. If the GML file does not respect the axis order (for example files with the EPSG:4326 coordinate system in which latitude-longitude is expected but longitude-latitude is what is provided), options for swapping the coordinates are available.
- In cases when the schema associated with a GML file is not available, not useful (i.e. does not completely describe the GML structure), or incorrect, the user has options for identifying a different schema file or ignoring the schema. When ignoring the schema, the connection time increases because the data server must read most of the GML file to discover its structure.

The data server better handles very large GML files that have produced many “out of memory” errors in the past. When dealing with large files (greater than a default threshold), a disk cache is created and the memory footprint of GeoMedia is considerably reduced. The default value for this file size limit is set at 500MB. Because performance degrades when using a disk cache instead of memory, this setting can be increased by the user if the computer has enough RAM to accommodate the data.

### WFS DATA SERVER

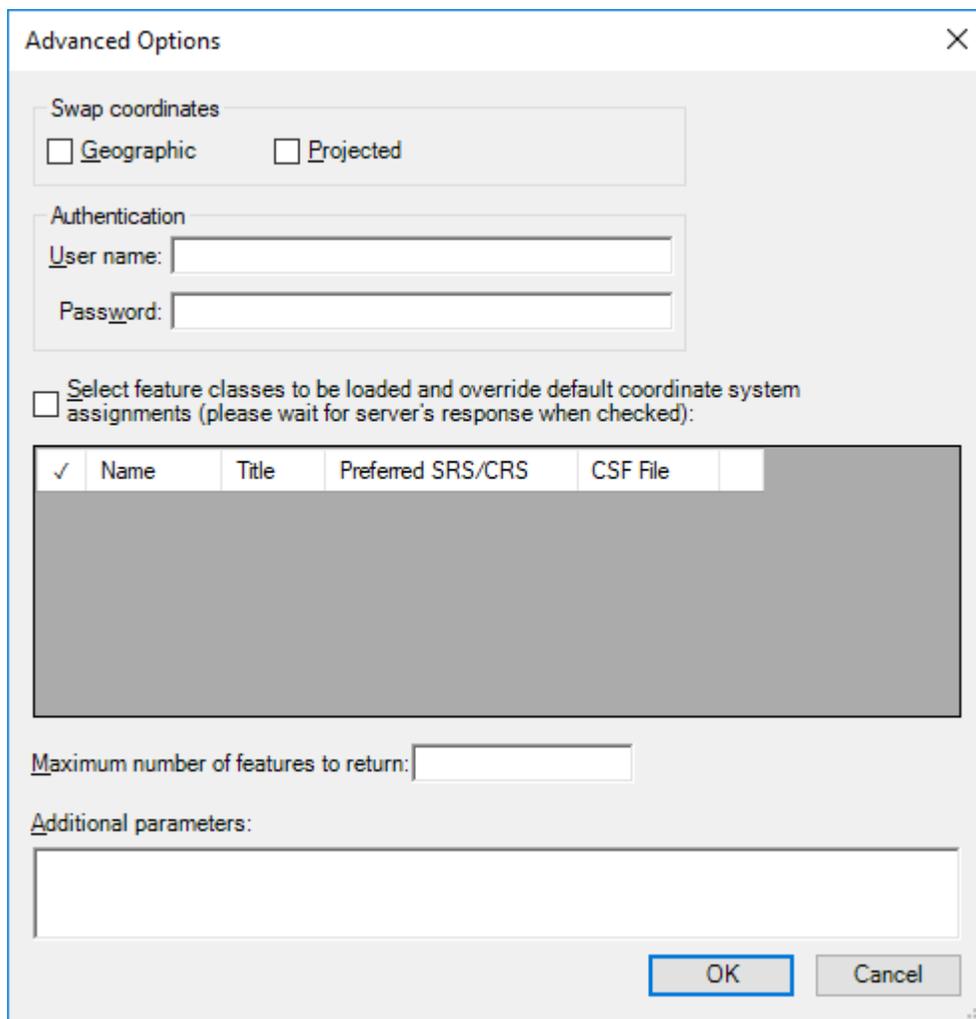
A new read-only WFS data server has been introduced with GeoMedia 16.5, replacing the previous WFS Read-Only data server. It supports data conforming to the OGC Web Feature Service (WFS) specification.





Several new connection options are provided on the Advanced button.





Advanced Options

Swap coordinates

Geographic     Projected

Authentication

User name:

Password:

Select feature classes to be loaded and override default coordinate system assignments (please wait for server's response when checked):

✓	Name	Title	Preferred SRS/CRS	CSF File

Maximum number of features to return:

Additional parameters:

OK    Cancel

Key features of this new WFS data server:

- It provides the same advanced GML parsing and translation logic as the GML data server, for extensive compatibility with different WFS services.
- It includes a new connection dialog for setting the coordinate systems associated with feature classes, so INI files and the NOCSFFOUND connection option of the previous WFS Read-Only data server (corresponding to the “If no matching coordinate system is found for a feature class” group of the “Advanced Options” dialog box) are no longer necessary.
- The user can select which feature classes are visible in GeoMedia. This is useful when only certain classes are needed from a WFS service, and it results in shorter connection times. This also can be used to filter incorrectly-defined feature classes that could cause errors in operation.
- The HTTP request timeout can be increased for slower internet connections or for older WFS services not supporting paging operations for transferring data.



### DEFINE WAREHOUSE CONFIGURATION FILE UTILITY

This utility no longer offers the ability to define or edit INI files for the WFS Read-Only data server. The new WFS data server offers the convenience of connection parameters provided exclusively within the connection syntax, with no external file required.

## DATA CAPTURE

### SELECT SET PROPERTIES

The Select Set Properties command now remembers the position, size, and column widths of the dialog across sessions.

### OFFLINE EDITING

The commands Output to Offline and Post from Offline now support GeoPackage warehouses as the offline connection.

## SPATIAL MODELING

### SPATIAL MODEL EDITOR

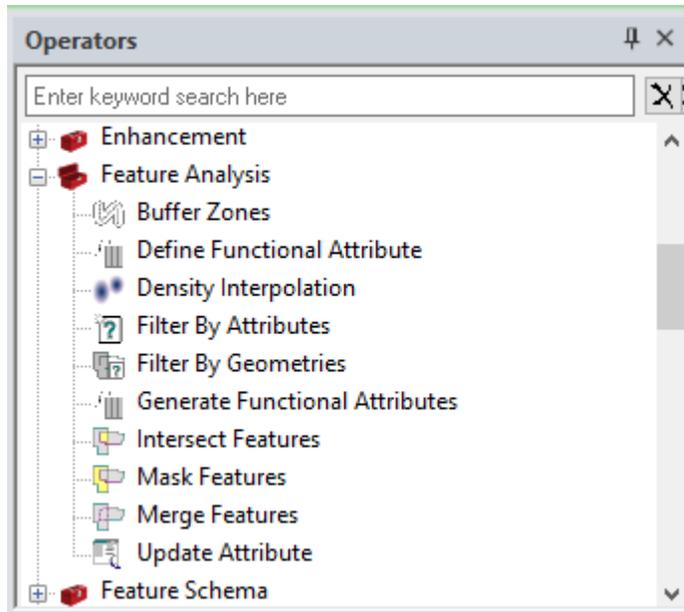
This utility has been upgraded to the latest version released with ERDAS IMAGINE 16.5.

### NEW OPERATORS

New operators have been introduced for performing geoprocessing on feature data, which are borne out of certain GeoMedia capabilities. These are found in the new Feature Analysis and Geometry Creation operator categories, and include:

- Generate Functional Attributes and Define Functional Attribute operators, analogous to the Functional Attributes command and corresponding pipe.
- Intersect Features operator, analogous to the Spatial Intersection command and corresponding pipe.
- Mask Features operator, analogous to the Spatial Difference command and corresponding pipe.
- Merge Features operator, analogous to the Analytical Merge command and corresponding pipe. This operator replaces an earlier operator implementation by the same name, which had limited capabilities.
- Create Centroid and Create Centerpoint operators, providing efficient access to these capabilities also provided through the Generate Functional Attributes operator.





### EXPRESSIONS WITHIN OPERATORS

For those operators which use functional attributes (Generate Functional Attributes and Merge Features), there are additional expression functions beyond those available in GeoMedia. Those operators, listed by function category, are:

- Geometry
  - BUFFERRING – returns a buffer ring from and to certain distances from the given geometry
  - BUFFERZONE – returns a buffer zone at a certain distance from the given geometry
  - CONVEXHULL – returns the convex hull of the given geometry
  - FITTEDBOUNDINGBOX – like the MBR function, but with the box oriented to optimally fit the data
  - STROKE – returns a polyline geometry with any input arcs stroked at 5-degree intervals
- Math & Trig – these are the hyperbolic equivalents to existing trigonometry functions
  - ACOSH
  - ASINH
  - ATANH
  - COSH
  - SINH
  - TANH
- Misc
  - CHOOSE – provides a more compact and easily used alternative to nested IF functions
  - DECODE – evaluates a set of conditions and returns the first condition evaluated to true
  - SPLIT – splits a text string into multiple text strings using a given delimiter
  - TOP – returns the top (highest) *n* values from a set of values



**Functional Attribute** ✕

Field name:       Output type:

Expression:

---

Categories:	Functions:	Attributes:
<ul style="list-style-type: none"> <li>All Functions</li> <li>Most Recently Used Function</li> <li>Operators</li> <li>Constants</li> <li>Date &amp; Time</li> <li style="background-color: #e0e0e0;">Geometry</li> <li>Logical</li> </ul>	<ul style="list-style-type: none"> <li>ANGLE</li> <li>AREA</li> <li>BUFFERRING</li> <li>BUFFERZONE</li> <li>CENTERPOINT</li> <li style="border: 2px dashed blue;">CENTROID</li> <li>COMPRESS</li> <li>CONVEXHULL</li> </ul>	<ul style="list-style-type: none"> <li>EDGRAD</li> <li>EDHS</li> <li>EDSOMCOL</li> <li>FIPS</li> <li style="background-color: #e0e0e0;">Geometry</li> <li>HISPPOP</li> <li>ID</li> <li>MEDAGEFEM</li> </ul>

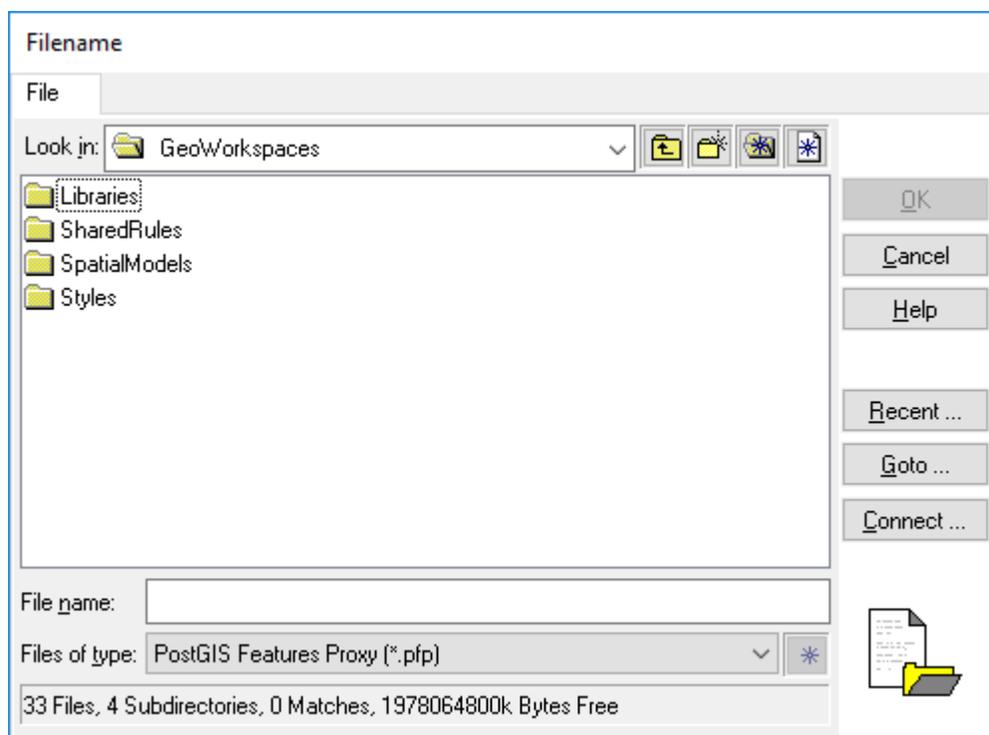
**Centroid (Geometry)**  
 Returns point geometry that represent the centroid of the given geometry.

For the most part, the expression syntax used in these new Feature Analysis operators matches that of GeoMedia, which permits direct use in Spatial Modeler of expressions from GeoMedia functional attribute definitions. However there is not 100% compatibility, so be aware of these differences:

- It is necessary to explicitly cast content instead of counting on an implicit cast, because of internal technology changes and because of the possibility of data loss occurring without user awareness when an implicit cast is performed.
- The STATUS function is not provided, it has no role to play in the spatial modeling context.
- The FORMATATTRIBUTE function is not provided, attributes do not have metadata for display formatting in the spatial modeling context.
- The LOOKUP function has moved from the Statistical function category to Misc.

### ENHANCEMENTS TO EXISTING OPERATORS

Features Input operator is enhanced to support PostGIS databases.



Features Database Output operator is enhanced to support PostGIS databases.

Preview operator is enhanced to support Vector geometry fields (called Compound geometry fields in GeoMedia).

### OTHER NEW OPERATORS

Numerous other new operators have been introduced beyond those mentioned above that are analogous to GeoMedia functionality. Many come from an ERDAS IMAGINE heritage, and include operators for processing many types of data – raster, feature, point cloud, and more. For more information see Spatial Modeler help.

### SAMPLE SPATIAL MODELS

The model "BufferAndMerge" has been altered to employ the new Merge Features operator.



## GEOMEDIA IMAGE PROFESSIONAL

### IMAGE LIGHT TABLE PLUS 2018

Image Light Table Plus 2018 has been integrated with this release of GeoMedia Image Professional. Image Light Table Plus 2018 includes the following new and enhanced features:

#### **New Radar/SAR Improvements**

- Logarithmic display option for DRA/Histogram tool window
- Persist SAR metadata when saving to NITF
- Sentinel-1 support

#### **New Geo Accuracy Improvements**

- Common Sensor Model (CSM) support
- Geography Markup Language (GML) support
- NITF-embedded elevation data support

#### **Display and Performance Improvements**

- Softcopy Image Processing Standard (SIPS) support
- Enhanced platform/context-specific default display settings
- Optional antialiasing during reduced resolution creation
- Support for new Sharpen and TTC families and members
- High resolution display improvements

#### **New and Improved Data Formats**

- DIMAP V2 image tiling support
- KOMPSAT-3 support
- KOMPSAT-3A support
- Sentinel-1 support

#### **Usability**

- Apply DRA based on Regions of Interest
- Ability to reset Don't Show Again warning dialogs
- Expanded File Open Preview dialog image metadata
- Optionally create reduced resolutions during save
- NITF File and Image subheader metadata display

## GEOMEDIA GEODEX

None



## GEOMEDIA 3D

### SAVE AND LOAD IMPORT 3D OBJECTS SETTINGS

The ability has been added in the **Import 3D Objects** command to persist (in user-definable XML files) the settings used for the command.

### PREDEFINED STYLES

GeoMedia 3D now delivers a set of predefined styles.

### FIRST PERSON VIEW

The **First Person View** enables a navigation mode that simulates a walk through the 3D scene. It displays what a person would see when turning around, looking up or down, or walking straight ahead. A new slider is also provided to allow dynamic adjustment of the field of view value.

### LATIN-1 (ISO-8859-1) CHARACTER ENCODING

The ability has been added in the **Import 3D Objects** command to use alternate Latin-1 (ISO-8859-1) character encoding during model file parsing rather than the default UTF-8 encoding.

### LOCAL ORIGIN DEFINITION FOR TRIMBLE SKETCHUP FILES

The ability has been added in the **Import 3D Objects** command to define the local origin latitude and longitude values when the embedded origin is missing from a Trimble SketchUp Model file (1-K1PFTD).

### DEFINE COORDINATE SYSTEM FOR HEXAGON POINT CLOUDS

Hexagon Point Cloud (HPC) files should be encoded with proper coordinate system metadata. However, in cases where such files do not contain this metadata, the **Insert HPC Footprints** command now allows the user to define a coordinate system (1-XNRVQ6).

## SYSTEM REQUIREMENTS

Computer/ Processor	Minimum 4 core Intel 64 or equivalent, 8 core or more recommended
Memory (RAM)	4 GB (dual channel systems) or 6 GB (triple channel systems) minimum, 8 GB (dual channel systems) or 12 GB (triple channel systems) or more recommended
Disk Space	<ul style="list-style-type: none"> <li>● 4 GB for software</li> <li>● Data storage requirements vary by mapping project<sup>1</sup></li> </ul>

Graphics Boards	<p>Minimum display resolution 1600 x 1200. 4K Ultra HD monitors are not currently supported.</p> <p>LCD &lt;= 5 ms, higher refresh rate recommended</p> <p>Dual monitors recommended</p> <p>Graphics cards with 1 or 2 GB dedicated video memory, NVIDIA recommended</p> <p>Graphics cards for stereo mode – Stereo capable NVIDIA™ Quadro</p>
Peripherals	<p>Software security (Hexagon Geospatial Licensing) requires one of the following:</p> <ul style="list-style-type: none"> <li>● Internet connection for online license activation</li> <li>● Ethernet card for offline license activation</li> <li>● One USB port for hardware key for offline license activation</li> </ul> <p>Optional Installation:</p> <ul style="list-style-type: none"> <li>● Logitech® Dual-Action® Controller for GeoMedia 3D component of Image Scout 3D</li> </ul>
Operating Systems <sup>2</sup>	<ul style="list-style-type: none"> <li>● Windows® 7 SP1 or higher, Professional and Ultimate (64-bit)</li> <li>● Windows® 10, Professional and Enterprise (64-bit)</li> </ul>
System Dependencies	<ul style="list-style-type: none"> <li>● Microsoft® .NET Framework 4.5</li> <li>● Microsoft® .NET Framework 3.5<sup>3</sup></li> <li>● Microsoft Primary Interoperability Assemblies 2005<sup>4</sup></li> </ul>
Database Server Engines	<ul style="list-style-type: none"> <li>● Oracle® Server 11g, 32-bit and 64-bit, at least version 11.2.0.4</li> <li>● Oracle Express 11g, at least version 11.2.0.4</li> <li>● Oracle® Server 12.1</li> <li>● Oracle® Server 12.2</li> <li>● SQL Server® 2012, 64-bit</li> <li>● SQL Server® Express 2012</li> <li>● SQL Server® 2014, 64-bit</li> <li>● SQL Server® 2014 Express</li> <li>● SQL Server® 2016, 64-bit</li> <li>● SQL Server® 2016 Express</li> <li>● SQL Server® 2017, 64-bit</li> </ul>



	<ul style="list-style-type: none"> <li>● SQL Server® 2017 Express</li> <li>● PostgreSQL 9.3 with PostGIS 2.1</li> <li>● PostgreSQL 9.4 with PostGIS 2.2</li> <li>● PostgreSQL 9.6 with PostGIS 2.3</li> </ul>
Database Client Engines	<ul style="list-style-type: none"> <li>● Oracle Client 11g, 32-bit<sup>5</sup></li> <li>● Oracle Client 12.1, 32-bit<sup>5</sup></li> <li>● Oracle Client 12.2, 32-bit<sup>5</sup></li> <li>● SQL Server Native Client 10.0 or higher<sup>6</sup></li> </ul>

## SYSTEM REQUIREMENTS NOTES

<sup>1</sup> 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.

<sup>2</sup> 32-bit versions of the Windows operating systems are not supported. Image Scout runs on 64-bit systems in 32-bit emulation mode.

<sup>3</sup> Required for GeoMedia 3D only. For information on installing .NET Framework 3.5 for Windows 10, see the *Installing .NET Framework 3.5 (Windows 10 only)* section in the *GeoMedia 3D Installation Guide*.

<sup>4</sup> To install, right-click on <root-media>\Repository\Image Scout\GM 3D\Prerequisites\vs\_piaredist.exe and select **Run as administrator**.

<sup>5</sup> 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 normally 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.

<sup>6</sup> The SQL Server Native Client 10.0 or higher is needed in order 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

### GEOMEDIA PROFESSIONAL

#### ISSUES RESOLVED (GEOMEDIA 16.1)

CR #	SUMMARY	Description / How to Reproduce
86726 _GM	Intersection does not work with offset temporary construction lines.	<p>Using offset when digitizing with the Intersection snap enabled does not work with the construction lines displayed for the offset.</p> <p>Steps to reproduce.</p> <ol style="list-style-type: none"> <li>1. Open the IntersectionSnap.gws and correct the path to the City.mdb.</li> <li>2. Insert a county_street feature using an offset of 500 and select multiple creek features to display the construction lines.</li> </ol> <p>Start digitizing and select an intersection of the construction lines and see how the Intersection snap glyph does not appear or work.</p>
1- LJ3K3 P	Error in GWM CreateLegendEntry Graphic due to an issue in the Oracle Dataserver.	With further investigation, this is caused by an issue in the Oracle Dataserver.
1- LI3G2 M	GeoMedia application may hang when using Properties on Windows 8.1 or Windows 10.	<p>The properties control may hang GeoMedia on certain operating systems. It has been observed that on Windows 8.1 and Windows 10, that when interacting with other applications, if the user clicks on the Cancel option on the Properties dialog then the application may hang. Specifically, the application hangs if the control does not have focus (top highlighted in blue) when the Cancel option is selected.</p> <p>Workflow (Windows 10):</p> <ol style="list-style-type: none"> <li>1. Start the GeoMedia application, with features displayed in map window (USSampledData.gws for example).</li> <li>2. Start a secondary application such as Process Monitor.</li> <li>3. In GeoMedia Map Window, double-click graphic feature to invoke Properties dialog.</li> <li>4. Click on the secondary application to make it active (leaving Properties dialog open in GM).</li> </ol> <p>Click the Close option on the Properties control (without giving focus to control).</p>
1- QNNZ K5	For GM Map Publisher, the queued edit Map Window is not displaying	<p>GeoMedia Desktop 16.00.0000.01405 and GeoMedia Map Publisher 16.00.0000.00012</p> <p>There is an issue with the displayed results appearing in the Queued Edit Map Window, specifically:</p> <ol style="list-style-type: none"> <li>1. The original geometry is not displaying in the Queued Edit Map Window.</li> </ol>



	Generalize Results correctly.	<p>2. The CDRGeometry (conflict reference geometry) is not displayed in the Queued Edit Map Window.</p> <p>The conflict geometry and original geometry are not appearing as dashes.</p>
1- QRXT 3F	CAD data server fails to serve TextPointGeometry for AutoCAD TAGs (block attributes).	<p>An SR was filed asking for assistance in serving the Text geometry that is associated with TAGs from an AutoCAD Block (as is displayed in AutoCAD itself). However based on testing thus far this doesn't appear to be possible despite the fact that the 'AutoCAD Scanner Design Specification' document indicates that the TAG type should be mapped to TextPointGeometry.</p> <p>Specifically the Native-to-GDO Geometry Type Mapping table in the 'AutoCAD Scanner Design Specification' document shows the Native Geometry Type of 'TAG' (described as "Attributes that are attached to block entities in the drawing file.") mapped to the GDO Geometry Type of 'TextPointGeometry'. However attempts to serve the TAG attributes from the customer provided dwg file as text results in 0 geometries for the TextGeometry legend entry.</p>
1- JP60JI	Copy Parallel > Snap to point doesn't place line on point.	<p>Copy Parallel &gt; Snap to point doesn't place line on point.</p> <p>Try to copy an Interstate through a city out of USSample Data set.</p> <ol style="list-style-type: none"> <li>1. Start Copy Parallel</li> <li>2. Identify Interstate for Copy Parallel</li> <li>3. Snap on City point to copy parallel</li> </ol> <p>The snap won't be accepted. The Interstate is not copied parallel through the citypoint, instead it is copied in the vicinity.</p>
1- MJA88 J	OpenRecordset with gdbOpenSnapshot and spatial filter results in an empty recordset for PostGIS GDO.	Opening a recordset with a combination of gdbOpenSnapshot type and any valid spatial filter results in an empty recordset being returned. Attached is a sample .NET application demonstrating the issue.
1- D0B8 O8	Select set problems when join displayed.	<p>When a Join is displayed, the user may notice incorrect select set display in the map window while interacting with corresponding data view. The problem seems to be display only but can be confusing. It does not occur in version 6.1 but is latent to 2014.</p> <p>For example, the user might have the following entries on the legend:</p> <ul style="list-style-type: none"> <li>• States</li> <li>• Join of States and Counties</li> </ul> <p>The user may select the record for Arizona in a States data table, but both Arizona and Utah will be selected in the map view.</p>
1- L7FF1 D	Shared cache appears to be slower than Exclusive cache	Customer has created Oracle trace files that they believe indicates that the Net (Shared) caching is slower than Local (Exclusive) caching due to parsing of query statements for indexes, views, and tables. The trace files created by the customer are included in the attached zip file and TKPROF file. The problem description provided by the region as taken from the SR is shown below.

	<p>due to query parsing.</p>	<p>We have received a TKPROF file (GM_startup_prod.tkp) from the customer made for the startup of a workspace (which looks directly in Oracle view), where they note that a lot of time is spent on parsing statements that query for indexes for the various views and tables.</p> <p>It accounts for a significant amount of the total startup time. If you look at the summary for non-recursive statement at the bottom of the TKPROF file you can see that almost 24 seconds are spent parsing.</p> <p>Would it be possible to reduce time spent parsing by using bind variables?</p>
<p>1- QJA89 D</p>	<p>Reverse Direction does not work on a secondary geometry, it reverses the unselected primary geometry.</p>	<p>Secondary geometries are not reversed when using the Reverse Direction command from the Vector tab or when using the Reverse command from the Geometry Information context menu. Here is the workflow to reproduce the problem:</p> <ol style="list-style-type: none"> <li>1. Extract the attached ReverseGeometry.zip file and then open the ReverseGeometry.gws that has an Access connection to the ReverseGeometry.mdb file.       <ol style="list-style-type: none"> <li>a. When the .gws is opened, note that the legend contains two entries for the feature class named LineFeature and its associated secondary geometry named 'Geometry2 of LineFeature'. The primary geometry for the feature class is displayed in red and the secondary geometry in blue. Additionally a style is applied with an arrow symbol indicating the direction of each geometry.</li> </ol> </li> <li>2. Use the cursor to click on one of the secondary geometries in the map window (i.e. the red geometry). Note that only the secondary geometry is shown in the select color (e.g. green highlight).</li> <li>3. Now choose the Reverse Direction command from Vector &gt; Edit on the ribbon bar. This will result in the reversal of the primary geometry even though it was not selected, while the secondary geometry which was selected remains unchanged. This is apparent because the arrows for the blue primary geometry style are reversed, but the arrows for the red secondary geometry are still pointing in the original direction.</li> </ol> <p>This same behavior is observed with the Reverse command when accessed via Geometry Information. For instance select the red secondary geometry, then choose the Geometry Information command and right click on the 'PolylineGeometry' node, then choose Reverse from the displayed context menu. As before, the primary geometry will be reversed, but the selected secondary geometry will remain "as is".</p>
<p>1- LRSM RH</p>	<p>Ghost circles rendered in display when create thematic of polygons containing arcs (Regression).</p>	<p>Creation of a thematic mapping with color fill of polygon geometries containing small arc geometry components may result in color filled circles appearing in both map and layout window displays; the circles change in distribution and size depending on zoom scale. The problem is not seen in version 2015.</p> <p>See attachments for screen shot showing comparison between version 2015 and 2016. If the arcs are removed from the polygon geometries, the problem does not occur in version 2016.</p> <p>Workflow using data provided in Attachments:</p> <ol style="list-style-type: none"> <li>1. Extract contents of .zip</li> <li>2. Use GeoMedia 2016 to open Version2016_Access.gws, correcting path to source warehouse.</li> <li>3. Observe small circles in the map display that change with changes in the display scale.</li> </ol> <p>If review Geometry Information for some of the polygons, you can see that the geometry has arc components; The geometry seems to pass standard Toolbox &gt; Validate Geometry checks (no problems are found).</p>



		If the arcs are removed the problem does not occur.
1- M17EF A	Unable to display (.ecw) WMTS layers that can be displayed successfully in other applications.	<p>Unable to display (.ecw) layers from ERDAS Apollo WMTS service that can be displayed successfully in other applications.</p> <p>The GeoMedia WMTS data server is unable to display certain layers from the ERDAS Apollo Essentials WMTS service. The same layers can be displayed successfully in other clients using the same coordinate system (either EPSG:4326 or EPSG:3857).</p> <p>The layers from the service that fail to display in GeoMedia (but display in the other clients) are 'sandiego3i_ecw' and 'bucuresti_ecw'.</p> <p>To reproduce the problem, use the steps below.</p> <ol style="list-style-type: none"> <li>1. Start GeoMedia and make a new WMTS connection.:</li> <li>2. Use Add Legend Entries to add 'sandiego3i_ecw' to the legend. A legend entry will be created with geometry statistics showing one instance.</li> <li>3. If you fit the view and click the map window you can see the layer footprint highlighted, but there is no image/tiles displayed within the footprint.</li> </ol> <p>The coordinate system used in all of the clients was the same (EPSG:4326).</p> <p>* Note that the 'sandiego3i_jp2' and "sandiego3i_otdf" layers from the same service can be displayed successfully in GeoMedia . These layers appear to be the same as the 'sandiego3i_ecw' with presumably a different format for the source imagery (i.e. JPEG 2000 and OTDF respectively). This means that the problem appears to be specific the ECW format.</p>
1- M8DCI D	WMTS data server requests/displays data in wrong coordinate system (other clients work correctly).	<p>The GeoMedia WMTS data server serves the 'MAPA TOPOGRAFICZNA' feature class from the WMTS service with the wrong coordinate system. Specifically the GetTile requests uses the EPSG:4326 TileMatrixSet instead of the default EPSG:2180 TileMatrixSet.</p> <p>The EPSG:2180 TileMatrixSet appears to be the default since it is the first listed in the GetCapabilities document and GeoMedia will even show that the coordinate system assigned to the 'MAPA TOPOGRAFICZNA' feature class is EPSG:2180 after it is served using the WMTS data server.</p> <p>There appears to be a disconnect between the metadata in that Feature Class Definition indicates that the coordinate system is EPSG:2180 and the actual feature class served which seems to be EPSG:4326. This problem results in an incomplete display of 'MAPA TOPOGRAFICZNA' feature class in the Map Window and the portion of the data that is visible is warped presumably due to the coordinate system transformation from EPSG:4326 to EPSG:2180.</p> <p>The same problem exists even if you use a Warehouse Configuration File (.ini) for the WMTS connection with the following entry defining the default TileMatrixSet as EPSG:2180.</p> <p>[TileMatrixSet for Feature Classes]</p> <p>Default=EPSG:2180</p>
1- ANAB 3S	Layout > Print/Plot > Background image prints black (Images with more than 3 bands).	Customer has 6" resolution imagery. These are uncompressed 4 band (32bit) untiled TIFF (tested with and without overviews) for their service area. They report that the images appear solid black when trying to output a layout to .pdf or other printing device.



		<p>Open GWS, connect to USSampleData or a blank Access connection. Insert the two Geotiffs. Print to PDF (Used PDF995 locally) and outputs are black for the images. Also tested with Adobe Acrobat 10 and the local hard copy devices.</p> <p>Workaround is to give the image feature class (or any feature class displayed on legend) a 1% translucency. The image plots, looks great.</p> <p>This is not specific to TIFF images, seen with JFIF and other formats as well.</p> <p>This is apparently a problem common to all 4-sample-per-pixel data.</p>
1- M2V06 J	<p>Errors occur with multiple commands when using PostGIS table names containing uppercase characters.</p>	<p>The PostGIS data server in GeoMedia 2016 does not correctly handle feature class/table names that contain uppercase letters, resulting in errors. This issue was reported by a customer who states that the open source PostGIS data server that could be used with GeoMedia 2015 did not have this problem.</p>
1- 95FG MS	<p>Layout - Text Placement and Text Properties &gt; Support for OpenType (.otf) fonts is missing.</p>	<p>There is a failure when displaying OpenType fonts in GeoMedia 2013. Support replicated failure on both GeoMedia 6.2 and Geomedia 2014.</p> <p>In versions of GeoMedia prior to 6.1 (5.2, 6.0), this .otf font was available in the drop- down list for text placement in the Layout Window, and the text was displayed with the proper font. But starting in the 6.1 version, the fonts does not show up in the drop- down list - they are not available for placing new text in the layout window.</p> <p>In versions since 5.2 (5.2, 6.0, 6.1, 2013, 2014) right click on selected layout text and then 'Properties' shows the text properties dialog. In the sample .gws, note that the customer's font is the StencilStd.otf, and that it displays with bright green color, indicating a non-supported font.. Also note that newly placed text in a new, blank .gws can also be given the StencilStd.otf font, but that the layout window does not display the text with this font properly - text appears bright green.</p> <p>Thus there are two parts to this issue. One is a regression from 6.0 GeoMedia to later versions – you can no longer place or display layout text with .otf fonts. The second part is that if the regression was an intentional change in the product, one should not be able to select .otf font from the layout Text Properties dialog.</p> <p>Both parts are resolved if we restore the previous functionality, placement and display of layout text with OpenType fonts.</p>
1- SMHS UB	<p>Originating Pipe recordset open/reopen spams registry for GDO configuration.</p>	<p>Opening a recordset through an originating pipe will cause it to check the registry for CacheEnabled setting for the specific connection type. However, this is accomplished by instantiating a whole new GDOServerRegEntries object that enumerates the whole HKLM\Software\Wow6432Node\GDO registry subkey and parses values therein.</p> <p>The function using the GDOServerRegEntries is: GMConnection::GetCacheFileName, which it does even if the given connection is created without explicitly enabling caching.</p> <p>This causes a registry contention in an environment when multiple concurrent GDO requests are being served, like in a WebMap installation.</p>
1- LUTZ6 G	<p>Using WMTS data server hangs GeoMedia forcing the GeoMedia</p>	<p>Use of the WMTS data server results in GeoMedia hanging (where there is no response to any mouse click), thus forcing the GeoMedia process to be killed via Task Manager. This problem seems to occur</p>



	<p>process to be killed with Task Manager.</p>	<p>most often when using the Zoom In command or the Pan command while WMTS layers are displayed in the Map Window while already zoomed into the data set.</p> <ol style="list-style-type: none"> <li>1. Open the provided 'WMTS_Kademo2.gws' which has a single WMTS connection to the service used.</li> </ol> <p>There are six layers present in this WMTS and all of the layers are added to the legend and displayed in the Map Window. The Display Scale for the Map Window is set to 1:2500.</p> <ol style="list-style-type: none"> <li>2. Select the 'Zoom In' command and at the prompt "Click to zoom or press and drag", place a single data point in the center of Map Window to perform a zoom.</li> </ol> <p>After the data point is placed, the Map Window display starts to update and the 'Processing window update...' message is displayed in the message strip. If you click the ESC key to cancel the update the wait cursor will disappear and the 'Processing window update...' message will be removed, but GeoMedia is now in a completely unresponsive state, so the only recourse is to kill the GeoMedia process.</p> <p>* To reproduce this issue a second time you may need to remove the temp files from your user temp folder (i.e. %TEMP%).</p>
<p>1- LTZTT N</p>	<p>Some WMTS services are not displayed.</p>	<p>The WMTS services of our customer published by ERDAS APOLLO Ess+SDI are not displayed correctly in the GM. The capabilities document is loaded, but no other picture ("data") is loaded into the map window. Only blank frame is displayed in the GM. It should use EPSG:5514. The capabilities document contains czech diacritic letters and more tilematrixset.</p>
<p>1- LR7ZL A</p>	<p>Update Attributes - geometry functions fail to update.</p>	<p>Any functional expression that updates geometry fails with errors.</p> <p>Example workflow: Attempting to use Update Attributes to compress a geometry fails in version 2016.</p> <p>Using a standard COMPRESS(Input.Geometry) to update an area geometry field in 2016 fails with the following message:</p> <p>-----</p> <p>GeoMedia Desktop</p> <p>Update Attributes was unable to update all features. Please refer to log file C:\Warehouses\States.txt for details.</p> <p>-----</p> <p>Review of the text file shows the following error for each record processed:</p> <p>"could not be updated. Data type conversion error"</p> <p>Workflow:</p> <ol style="list-style-type: none"> <li>1. Open USSampleData.gws</li> <li>2. Vector &gt; Update &gt; Update Attributes</li> <li>3. Select States, click in Geometry field and select Expression.</li> <li>4. Build expression for COMPRESS(Input.Geometry) then add the expression.</li> <li>5. Click OK to run the update.</li> </ol>

		Observe the error messages.
1-SD94 Q1	GeometryStorageService fails to transform PolygonGeometry when run inprocess from .NET.	A working sample of PolygonGeometry construction and transforming to storage blob by the means of GeometryStorageService usage was working up to the newest 15.0 release of GeoMedia. When the same application is recompiled in a 16.0 environment it fails when all the objects (PolygonGeometry, point and GeometryStorageService) are created inprocess of a .NET application. It does not fail when run from inside a native COM process like the MapSvr.exe of GeoMedia WebMap.
1-TEDR 0Q	Attribute Based Style not correctly evaluated/displayed in GeoMedia 2016.	<p>A customer has a data set that makes extensive use of Attribute Based Styles that displays correctly (i.e. as expected based on the ABS expressions) in GeoMedia 2015, but when the same .gws is opened in GeoMedia 2016 the styles rendered are incorrect. In other words the styles do not appear the same in GeoMedia 2016 as they do in GeoMedia 2015.</p> <p>One of the issues involves the use of a nested IF expression to assign Color or Override Color based on the values of One (or Two) attributes.</p>
1-THBC C0	Attribute Based Style is incorrectly displayed in GeoMedia 2016.	A customer that uses ABS extensively filed a SR stating that the display of the styles in their GeoWorkspace was significantly different when the .gws was opened in GeoMedia 2016 as compared to the same .gws in GeoMedia 2015. This CR is filed for an issue with the expressions used by the customer on the CharacterString property as a means to specify which of several available Font Styles from a Point Style Collection should be displayed for a particular feature instance.
1-LRSQ EP	Functional nested IF statement returns incorrect results when evaluating null values.	<p>User-provided functional expression that works to return valid values for all records in 2015, fails to return valid values for some records in 2016.</p> <p>The user is using a nested IF statement.</p>
1-SLIP4 P	Memory leak apparent in the PostGIS GDO.	There seems to be a memory leak caused by the PostGISRW.GDatabase object while opening consecutive recordsets from the same connection.
1-SBLPA 3	GeoMedia / Webmap memory error in GML dataserer.	<p>There is a memory problem in GeoMedia Pro / WebMap Pro when using GML dataserer. Workflow in GMPPro:</p> <ol style="list-style-type: none"> <li>1. Open GMPPro. The GeoMedia application process memory usage is ~ 50.MB.</li> <li>2. Create new warehouse connection –using a GML type The GeoMedia application process memory usage is ~ 250.MB</li> <li>3. Add EGB_PktGraniczny_copy feature class to the map window. The GeoMedia application process memory usage is ~ 265.MB</li> <li>4. Remove legend entries from the legend.</li> <li>5. Close and delete the GML connection.</li> </ol> <p>GeoMedia application process memory usage remains the same ~ 250.MB.</p>



		<p>When using Webmap on our Customers production system we do have a lot of big GMLs that need to be imported to continuous Oracle database. We suffer OutOfMemory exceptions and HRESULT exceptions because of this error described above.</p> <p>To compare, do the same workflow with Access warehouse type using USSampleData. You will notice that the memory is being released after closing and deleting connection.</p>
1- L4T7S Q	Features from spatially filtered GML connection fail to display when GeoWorkspace is re-opened.	When a GeoWorkspace with a connection to the customer provided GML file has a spatial filter applied, the features from GML connection will be filtered as expected and the legend statistics will be displayed appropriately. However if that GeoWorkspace is then saved with the spatial filter in place and then reopened the features from the GML connection that were filtered will be missing from the Map Window and the legend statistics will show a value of '0' for the corresponding legend entries.
1- S0AO0 B	GeoMedia performance problem: Oracle LTT 12c fails to use bind variables for select from all_indexes.	User testing of GeoMedia version 2015, has noted a potential performance issue while working with Oracle 12c using GeoMedia Oracle LTT data server. It has been proposed that the performance is due to GeoMedia's failure to use bind variables when the GeoMedia Oracle LTT data server issues queries such as SELECT FROM ALL_INDEXES.
1- CAJX WS	Event AfterUpdate(vbCanceled, objGFeature) - objGFeature is not initialized after first insert.	<p>This code in VB .NET (AfterUpdate Event):</p> <pre>Private Sub Fnc_AfterUpdate(ByVal vbCanceled As Boolean, ByVal objFeature As PAFM.GFeature) Handles currentFeatureClassEvent.AfterUpdateHandler  Try  MsgBox("State: " + objFeature.State.ToString())  Catch ex As Exception  MsgBox(ex.Message)  End Try  End Sub  Return exception after insert first feature in GM2015:  Feature must by initialized with either Bookmark or KeyAttributeValues  Notes - GM 2015:  objFeature is not filled with right attributes of new added Feature, witch exist in this moment in DB  next insert of the same feature is OK</pre>
1- QR3T9 3	After upgrade to GeoMedia 2016 cannot open a number of Geomedia 2014	A customer filed a SR reporting that several of their GeoWorkspaces that were created with GeoMedia 2014 cannot be opened successfully in GeoMedia 2016 (i.e. a 'Failed to open document' message is displayed when an attempt is made to open the .gws in 2016.)



	created GeoWorkspaces.	<p>When attempting to open the .gws in GeoMedia 2016 a number of the map windows are loaded prior to the 'Failed to open document' message, but as soon as the message dialog is dismissed with the OK button the .gws is closed.</p> <p>The issue appears to be caused by one specific legend entry. Specifically a unique value thematic entry named 'Route Shield County Scale' in the Map Window named 'ESZs'. If the 'Route Shield County Scale' legend entry from this map window is deleted from the .gws while it is open in GeoMedia 2014 and then the .gws is saved without that legend entry, the .gws can then be opened successfully in GeoMedia 2016.</p>
1-T4DN WD	Desktop 2015 GeoWorkspace cannot be opened on Desktop 2016.	<p>Customer reports, support duplicates a problem where a .gws created with vanilla GMDesktop 2015 cannot be opened in vanilla GMDesktop 2016. Workflow to reproduce:</p> <ul style="list-style-type: none"> <li>• Copy attachment 'Tom.gwt' to GMDesktop 2015 templates folder "C:\Program Files (x86)\Hexagon\GeoMedia Professional\Templates\GeoWorkspaces". Start GMDesktop, new .gws, select 'tom.gwt' as the template. At this point I made an Access connection to USSampleData.mdb and added a few legend entries. Exit and save the .gws.</li> <li>• On a GMDesktop 2016 system, open the saved .gws. Error appears.</li> <li>• Attachment 'joe_15.gws' was created using this workflow and will not open on my GMDesktop 2016 system.</li> </ul> <p>Creating a new .gws on 2016 using this same template doesn't cause a problem.</p>
1-S3NV RQ	2016 G/Tech Interface features not loading Style Index. Regression from G/Tech Interface 2015.	<p>Using GeoMedia 2016 the StyleIndex for some Features imported with the G/Techinterface are not generated. This results in the displayed Style in the Map to be incorrect. GeoMedia 2015 generates the StyleIndex.</p>
1-SDCP 7C	New GeoWorkSpaces NOT saved after selecting yes to save.	<p>Users who use GeoWorkSpace template (.gwt) files other than Normal.gwt may encounter problems saving GeoWorkSpaces upon exiting.</p> <p>Example workflow using supplied GeoWorkSpace template (.gwt) file:</p> <ol style="list-style-type: none"> <li>1. Create new GeoWorkSpace using the template option.</li> <li>2. Use a template other than Normal.gwt.</li> <li>3. Optionally do queries etc in the GeoWorkSpace.</li> <li>4. Select File &gt; Exit, select Yes to save.</li> </ol> <p>Observation: The Save GeoWorkSpace As dialog does NOT appear. GeoMedia simply exits and none of the work performed in step 3 is saved. The GeoWorkSpace does not seem to be saved anywhere.</p>
1-F5HZ7 Q	GeoMedia Professional 2015 does not honor long-press gesture for "right-click" on touch screen.	<p>GeoMedia Professional 2015 does not respond to typical "right-click" replacement on tablet touch screen devices (long press).</p> <p>We are unable to "right click" using the touch screen functionality on our tablet. "right-click" is typically replaced by a long press and hold on touch/tablet devices using a long press. GeoMedia responds to double-tap (double-click) and single tap (single-click), but does not react to the right-click/long press action.</p>



<p>1- 7ZHF QL</p>	<p>Right click doesn't work on touchscreen under Windows 8.</p>	<p>On customer's laptop with touchscreen and Windows 8, the right click doesn't work with GeoMedia.</p> <ol style="list-style-type: none"> <li>1) When using a mouse, right-click in GeoMedia works fine.</li> <li>2) When using touch screen, right-click in GeoMedia is not working.</li> </ol> <p>Right-click using touch screen in Windows itself (not GeoMedia), is:</p> <ul style="list-style-type: none"> <li>• press the fingertip and hold for a while - first I see a little circle around the place where I touch, then for a little while it changes into a square and then a dialog appears as expected</li> </ul> <p>When customer tries the same in GeoMedia, they only get the circle around the place where they touch, but no square, nor any dialog.</p> <p>Tested this in GeoMedia 13.00.0000.00242.</p>
<p>1- U5ND KZ</p>	<p>Animated styles not updating/shown with map extent change.</p>	<p>Animated styles not updating/shown with map extent change.</p> <p>To reproduce:</p> <ul style="list-style-type: none"> <li>-New GeoWorkspace with USSampleData access connection</li> <li>-Add HighwayInterchange feature class</li> <li>-Zoom in so that roughly 1/4 of the features are visible in the map</li> <li>-Edit the style for HighwayInterchange so that it is animated. Changing the size between 2 frames is sufficient. Animate upon display with unlimited repetitions.</li> <li>-After applying the style, note that the features in the map display are animated.</li> <li>-Zoom out, pan, etc. and note that none of the features outside the initial map extent are displayed until the style is applied again.</li> </ul> <p>Initially discovered in 16.1..10195 using Oracle RW.</p>
<p>1- SD9H9 8</p>	<p>Selecting Attribute Properties dialog crashes GM on German vm w/German language package.</p>	<p>Selecting Attribute Properties dialog crashes or hangs GM on German vm w/German language package.</p> <p>This hang/crash occurs on German WINDOWS 8 or WINDOWS 12 with the GM German language package installed. The crash happens if GM is configured as English also.</p> <ol style="list-style-type: none"> <li>1. Open USExample.gws</li> <li>2. Double click on State feature to bring up the Select Set Properties dialog.</li> <li>3. Don't close the Select Set Properties Dialog</li> <li>4. Click on Windows Start and GM geoworkspace hangs/crashes.</li> </ol>
<p>1- LR3G AX</p>	<p>Attribute Properties dialog as well as other dialogs fall behind other applications.</p>	<p>User has noted that dialogs upgrade from VB6 do not pop to the top when the GeoMedia application is selected. This can give users the illusion that the application has hung and/or forces users to collapse all applications in effort to "search" for the hidden GeoMedia dialog.</p> <p>Problem occurs in both 2015 and 2016 for Attribute Properties.</p>



		<p>Example Workflow:</p> <ol style="list-style-type: none"> <li>1. Open USSampledData.gws</li> <li>2. Double-click on graphic feature.</li> <li>3. The Properties dialog will appear showing attributes for the feature.</li> <li>4. Drag the dialog outside of the GeoWorkSpace document container.</li> <li>5. Activate some other application(s) such as MS Word or Notepad, placing the application over the Attribute Properties dialog. Observe the dialog is hidden (this is expected).</li> <li>6. Now click inside of GeoMedia document giving focus to the GeoMedia application. Notice that GeoMedia is NOT responsive until you search, find and dismiss the hidden properties dialog.</li> </ol> <p>Problem also noted for other dialogs such as Map Window Properties.</p> <p>The user may be able to click on the application in the task bar or possibly use &lt;Alt&gt; &lt;Tab&gt; keys to force dialog and application back to the top.</p>
<p>1- LRSQ UG</p>	<p>Release Guide missing configuration dependencies for certain utilities.</p>	<p>The GeoMedia Desktop Release Guide fails to include configuration dependencies for the following:</p> <p>Database Utilities requires that MS SQL Native Client 10.0 or higher be installed when working with MS SQL Spatial warehouses. The MS SQL Native Client is normally delivered as part of MS SQL Management Studio or can be installed as a standalone product.</p> <p>Oracle Data Access Components (ODAC) is required if using the Feature Accessor option in PublishIFC Utility. ODAC is normally delivered by Oracle Client Administrative install but not for Oracle Instant Client.</p>
<p>1- AFI8V A</p>	<p>Tooltips in the map window only display while using the select command (clarify in documentation).</p>	<p>When turning on tooltips for legend entries, they only display when the select tool is selected. All other commands cause the pointer to change (from an arrow to whatever glyph the command uses) and disables the tooltip display. This causes issues while trying to figure out what event you're looking at on the map while using a command such as Interactive Calibration or Move.</p> <p>Steps to reproduce</p> <ul style="list-style-type: none"> <li>• Open a GeoWorkspace and display a feature in the map window</li> <li>• Turn on map window tooltips for that feature. Ensure that the select tool is selected and hover over a feature in the map window to verify that it is displayed.</li> <li>• Switch to a command which changes the glyph (e.g. from the ribbon, Vector &gt; Move). You'll notice that the glyph is changed to a crosshair.</li> </ul> <p>Hover over a feature and notice that the tooltip does not display.</p>
<p>1- VUIM MI</p>	<p>Grant Statements need to be modified to be correct.</p>	<p>GRANT SELECT ON SYS.GV_\$SESSION TO SYSTEM WITH GRANT OPTION;        should be modified to the following:        GRANT SELECT ON SYS.GV_\$SESSION TO PUBLIC WITH GRANT OPTION;</p>



		<p>GRANT INHERIT PRIVILEGES ON SYSTEM TO GDOSYS;</p> <p>should be modified to the following 2 lines:</p> <p>GRANT SELECT ON SYS.V_\$SESSION TO PUBLIC WITH GRANT OPTION;</p> <p>GRANT SELECT ANY SEQUENCE TO WMSYS; -- allows use of identity based primary keys in version enabled tables - new in Oracle 12c</p>
1-LJFRUY	<p><b>WMTS: Support sites with swapped coordinate systems, via the INI setting.</b></p>	<p>WMTS implementation does not currently support the case of a CRS with swapped coordinates. The INI entry is present (as with WMS) but there is no implementation present.</p>
1-LQ38PC	<p><b>ECW images that displayed properly in GM2015 have their display corrupted.</b></p>	<p>Customer supplies several ECW images that do not display properly. Images display as basically a black and grey block, and you must zoom way in to see the rough outline of a feature. This problem relates to both the CS of the geoworkspace and the size of the image. When in Geographic LL, the image displays fine. It also displays fine in the Albers custom CS from USSampleData.gws. Image displays incorrectly in customer's standard NAD83 for S. Louisiana (EPSG3452) To recreate:</p> <ul style="list-style-type: none"> <li>• Open GeoMedia Desktop,</li> <li>• Create a new .gws and create a new warehouse.</li> <li>• Insert one or both of the customer's .ecw files. The files display fine, since the default CS for a new .gws/.mdb is Geographic.</li> <li>• Load the customer's NAD83 Louisiana SP CS and the image display is corrupted.</li> </ul>
1-QKE51A	<p><b>PostGIS GDO ModificationLog is not properly updated after insert / edit in join view.</b></p>	<p>If you have a join view defined with an INSTEAD of trigger/function in place, the GDO ModificationLog table is not properly updated for inserts, edits and deleting. It may be that there is some mistake but GeoMedia offers no example steps for an INSTEAD of trigger workflow. The trigger works outside of GeoMedia.</p>
1-R2G9D9	<p><b>Raster performance degradation with GM 2015 versus earlier versions.</b></p>	<p><b>User reports and support duplicates a performance degradation when displaying raster feature classes in GMDesktop 2015, compared to previous versions of the product. Images that formerly took about 20 seconds to display now take almost 8 minutes.</b></p>
1-WHKTNF	<p><b>Help Document &gt; Batch Plotting &gt; Variable Text String Substitution: Help is unclear</b></p>	<p>The Help for Batch Plotting does not explicitly state that Variable Text String Substitution is only available via the Sheet Composition workflow. Customer attempted to use the Sheet Selection workflow with a .gws containing [GM-Date] and [GM-Time] in a template used w/ a layout sheet and filed an SR when this failed to work properly.</p>
1-UR4591	<p><b>Insert Feature fails with cannot insert record if</b></p>	<p>User has MS SQL Spatial warehouse where one or more fields have default values defined in the database using the Default Value or Binding property in the design view of the table (MS SQL Management Studio). These default values are properly populated by Insert Feature command in 2015 but Insert Feature in 2016 fails with an error:</p>

	<b>have database Default Value defined (Regression)</b>	<p>"Could not insert a record in the database."</p> <p>Example:        User has defined default values using functions such as:        (getdate()) : returns the current date for a date field.        (suser_sname()) : returns the MS SQL user name inserting the record for a text field.</p> <p><b>These functions work when using Insert Feature in 2015 but fail in 2016. Records CAN however be inserted into the data grid of the Data Window in 2016 thus the problem may be related to the Properties control. Additionally records can be inserted with proper default values when using Interactive Insert Area by Face. Insert Area by Face however fails to properly populate default values.</b></p>
1-VSDFXJ	<b>GeoMedia hangs using Geometry Information on Windows 8.1 or 10 if focus changes to another app</b>	<p>A SR was filed reporting that when running GeoMedia Desktop 2015 on Windows 8.1 or Windows 10 the 'Geometry Information' dialog falls behind the GeoMedia map window if focus switches to another application while the 'Geometry Information' dialog is displayed. This results in a hang of GeoMedia that requires the GeoMedia.exe process to be killed via Task Manager.</p> <p>The customer that reported the issue with the Geometry Information command was using Geomedia 2015 with the German Language pack configured. Reproduced the problem with version 16.00.0000.01405 using the German Language Pack configured as German or as English.</p> <ol style="list-style-type: none"> <li>1. On a Windows 8.1 or Windows 10 machine use Geomedia to open USSampleData.gws.</li> <li>2. Click on a States feature class in the Map Window to select it and then right-click and choose the 'Geometry Information' command from the menu.</li> <li>3. Now that the 'Geometry Information' dialog is displayed, switch to another application (the SR recommended the PDF Reader application which is what I used). If using the PDF Reader application you can collapse the application window using the minimize button (-) in the upper right corner.</li> <li>4. Now that the GeoMedia application is visible again, note that the Geometry Information dialog is no longer visible (it has presumably been hidden behind the map window).</li> </ol> <p><b>5. At this point you will be unable to perform any further actions in GeoMedia, thus the GeoMedia process will have to be killed via Task Manager.</b></p>
1-CF3XHZ	<b>Documentation typo - Oracle NUMBER(1,0) maps to BOOLEAN.</b>	<p>In the documentation (Using Oracle Connections-&gt; Datatype matching - Oracle to GeoMedia ) we have:</p> <p>-----        Oracle Datatype   GeoMedia Data Type        NUMBER (p,s)   Long (p&lt;10,s=0)        -----</p> <p>When creating table like</p> <pre>CREATE TABLE N ( GM_BOOL NUMBER(1,0) );</pre> <p>GM_BOOL is mapped to GeoMedia Boolean.</p> <p>Should be:</p> <p>-----        Oracle Datatype   GeoMedia Data Type        NUMBER (p,s)   Long (p&lt;10&gt;1, s=0)        -----</p>
1-KXGPVS	<b>Documentation &gt; Help &gt; Feature Caching</b>	<p><b>While it is true that large volumes of data (raster, point clouds, etc.) are used in GeoMedia, it is not relevant to Feature Caching. The document needs to be corrected.</b></p>



1- LWVZPB	<b>Changes to Help concerning use of Hypertext fields</b>	<p>Users can right-click in data window or properties dialog to insert a file/path into a field defined as Hypertext. While this can be useful for stored files, it does NOT allow users to actually edit or define URL values.</p> <p><b>Users can however, press and hold the &lt;Ctrl&gt; key when clicking into a Hypertext field to edit a URL. This information should be added to GeoMedia Help in the section titled: "Using Hypertext"</b></p>
1- QKAWM1	<b>GeoMedia 2016 Language Pack always installs on Drive C: (Hardcoded)</b>	<b>GeoMedia 2016 Language Pack installs on Drive C: (Hardcoded), even if GeoMedia has been installed on drive D:\ This causes the GeoMedia Menu to remain in English language after configuring GeoMedia to German.</b>
1- SCRY2U	<b>Properties-Window of a feature disappears when using an attribute-hyperlink.</b>	<b>Properties-Window of a feature disappears when using an attribute-hyperlink. After clicking on the hyperlink, the window disappears in the back.</b>

## ISSUES RESOLVED (GEOMEDIA 16.2)

CR #	SUMMARY	Description / How to Reproduce
1- XJZBT U	Very slow connection to Oracle 12C databases	Problems with poor connection performance for Oracle and Oracle LTT connections when working with Oracle 12c databases. Patches to address Oracle 12c performance issues were provided for GeoMedia 2015 and was presumed to be available in GeoMedia 2015 builds 10254 and higher.
1- YDZQ D5	Delivery issue with AppDotNETSupport DLL	<p>Problem is reflected in below stack trace:</p> <pre> Message: System.MissingMethodException: Method not found: 'Void Intergraph.GeoMedia.GeoMedia.GMApplicationEventPackage..ctor(Intergraph.GeoMedia.GeoMedia.Application)'.     at Intergraph.EGIS.GeoMediaDesktop.CommandTracking.GeoMediaEditCommandListener.Initialize(Application geoMediaApplication)     at Intergraph.EGIS.GeoMediaDesktop.StartupCommand.StartupCommand.Initialize(Application application, Object viewListeners) Code of Intergraph.EGIS.GeoMediaDesktop.CommandTracking.GeoMediaEditCommandListener.Initialize does only one thing before exception is raised: var gmApplicationEventPackage = new GMApplicationEventPackage(geoMediaApplication);           </pre>



		<p>After investigation we found that on failing machine (it has recent webmap installed) dll did not change with update to 10267 GM and is the one attached with 1 in extension. On machines where it works, the one with 2 is present both in:</p> <p>C:\Program Files (x86)\Common Files\Intergraph\GeoMedia\Program\        and        c:\Windows\Microsoft.NET\assembly\GAC_32\AppDotNETSupport\v4.0_6.1.1.0__9ed92a685a4e3166\        Some clever tools suggest that difference for this method is that type of parameter is coming from different places.        What is interesting in 10157 setup 30KB dll was delivered, in 10267 – 44KB one. Both share same version number.</p>
<p>1- Y72FG N</p>	<p>Use of GeometryStorageService.GeometryToStorage method crashes in version 16.1</p>	<p>A lot of custom application errors appeared after upgrading to latest version. We managed to isolate the problem with this simple VB classic code:</p> <pre> Dim g As Object Dim objPol As Object Dim objP As Object Dim objGSS As Object Dim objBLOB As Variant \ Set g = GetObject(, "GeoMedia.Application") Set objP = g.CreateService("GeoMedia.Point") Set objPol = g.CreateService("GeoMedia.PolygonGeometry") With objPol   objP.X = 500000   objP.Y = 500000   objPol.Points.Add objP   objP.X = 550000   objP.Y = 500000   objPol.Points.Add objP   objP.X = 550000   objP.Y = 550000   objPol.Points.Add objP   objP.X = 500000 </pre>

		<pre>objP.Y = 550000  objPol.Points.Add objP  objP.X = 500000  objP.Y = 500000  objPol.Points.Add objP  End With  Set objGSS = g.CreateService("GeoMedia.GeometryStorageService")  objGSS.GeometryToStorage objPol, objBLOB</pre> <p>If you run it (having GeoMedia opened) it will give error at the last line (invalid geometry object). Previous versions worked fine.</p> <p>If you replace g.CreateService with CreateObject it will work but we need to run inside GeoMedia's environment.</p> <p>Analyst Description of Problem:</p> <p>Using the basic VB6 code, I created a VB.NET project on version 16.1 and duplicated the problem. Since the customer is within the GM Application environment, they want to use the CreateService method to avoid crossing process spaces. When you use the CreateService method, the GSS object is of type Intergraph.GeoMedia.PClient.GeometryStorageService. When you use the CreateObject method, the GSS object is of type Intergraph.GeoMedia.PClient.GeometryStorageServiceClass. For me, neither way of creating the GeometryStorageService object then worked successfully on the GeometryToStorage method call.</p>
1- XNK5 OL	SRS - Symbols - Edit Point Symbol brings up error "Invalid Symbol Type"	<p>In SRS Points Symbols display error "Invalid Symbol Type" when edited in SRS File - Tab SymbolSets.</p> <p>After opening the SymbolSets tab dialog and clicking on Edit the error "Invalid Symbol Type" appears mainly for FSM-symbols.</p> <p>If I click OK on the "Invalid Symbol Type" dialog 4 to 5 times the dialog comes up sometimes.</p>
1- ZU4C9 8	Selecting 'Validate Areas' closes Oracle LTT connection used as Cadastral Connection (Regression)	<p>A customer has been using a configuration (in GeoMedia 2015) whereby they have chosen their 'Oracle Object LTT Read-Write' as the Cadastral Connection via the Set Cadastral Connection command. However after upgrading to GeoMedia 2016 they now find that selecting the Validate Areas command (from the Cadastral tab) results in the closure of the 'Oracle Object LTT Read-Write' in the GeoWorkspace, thus invalidating any legend entries based on that connection.</p> <p>Additionally I have verified that in 16.1 if using a standard Oracle Object Model Read-Write connection to the database and making that connection the Cadastral Connection the Oracle Object Model Read-Write connection will remain open when Validate Areas is selected. So this appears to be a regression in 16.1 specifically for the case where an Oracle Object LTT connection is set as the Cadastral Connection.</p>
1- 10A4D FM	Cadastral Validate Areas cmd causes Oracle LTT	Cadastral Validate Areas cmd causes Oracle LTT connection to close. This is a regression from GM 2015.

	connection to close.	<p>Cadastral_Oracle_LTT.gws attached to CR.</p> <ol style="list-style-type: none"> <li>1. Open Cadastral_Oracle_LTT.gws</li> <li>2. Select Cadastral&gt;Validate Areas cmd and Validate Areas dialog comes up, but there are no features listed to validate because the Oracle LTT connection has been closed.</li> </ol>
1- TT66Z K	GeoMedia fails to connect to WMTS that other clients can use successfully	<p>When attempting to connect to a WMTS URL ...with the GeoMedia WMTS data server the connection fails with the message:</p> <p>"Unable to connect to the database. Please verify that your warehouse-connection parameters are correct and try again."</p> <p>Other clients including Geospatial Portal and QGIS are able to successfully connect to the same WMTS and to successfully display the tiles from the DOP layer from the WMTS.</p>
1- YZSX U0	Multiple symbol file (fsm) locations and missing symbol files	<p>Customer asks: "Are there any symbols for airports that are available for GeoMedia?"</p> <p>The GISsym.fsm file contains the airport symbol the customer was looking for. However, it appears that GeoMedia Desktop 2015 and 2016 (others?) are not delivering this file in the default symbol file location (C:\Program Files (x86)\Hexagon\GeoMedia Professional\Symbols). Looks like there are other files missing as well:</p> <p>codis.fsm</p> <p>geomorphologie.fsm</p> <p>radio.fsm</p> <p>(one or more of these may be customer supplied and not delivered with the product (support machine!))</p> <p>This issue is specifically requesting that GISsym.fsm be included with the symbol files currently delivered with GeoMedia Desktop 2016 and later, in the default symbol file location.</p>
1- KOTX DZ	Contours are incorrectly attributed as depressions after running Generate Terrain Contours.	<p>[Note: This defect is reported against GeoMedia Feature Cartographer, which is part of the GeoMedia Mapping Manager product. The complete fix is in two parts, requiring a change in GMFC as well as this delivery of the GeoMedia Desktop.]</p> <p>Contours are incorrectly attributed as depressions after running Generate Terrain Contours. Several contours are being attributed as depressions when they should not be.</p> <ol style="list-style-type: none"> <li>1. Open FCWorkspace.gws and correct path to the FCElevationWarehouse.mdb warehouse.</li> <li>2. Run Import Elevation Source Data using the Import cmd in GM Grid and the Prepare Elevation Data Result Layer.mfm as input or you can use the square.tiff file.</li> <li>3. Run the Apply Geomorphic Features using the Prepare Elevation Data Result Layer result from step 2. See the Apply Geomorphic Dialog and Contour Generation.png for dialog settings.</li> <li>4. Run the Generate Contours cmd using the Geomorphic Feature grid layer created in Step 3.</li> <li>5. Compare contour output to the Problem Depression Features.pdf to see where the problem contours are.</li> </ol>



<p>1- RHRQ XX</p>	<p>GeoMedia spatial filter fails to correctly filter if PostGIS user has only SELECT privilege on table</p>	<p>User desires to apply SELECT only privilege to one or more tables but has found that the spatial filter command returns an empty record set. If however the user adds INSERT a table privilege to the group/user, then the spatial filter returns records/graphics as expected.</p> <p>Customer states:</p> <p>"We need to use a spatial filter for some of our datasets as they are over 25 million polygons. We don't really want users to have insert privileges for these tables however."</p>
<p>1-YVSJJZ</p>	<p><b>2015 GeoWorkspace fails to open in 2016 (v 16.1) with 'Failed to open document' error</b></p>	<p>A customer has a number of GeoWorkspaces that were created with GeoMedia 2015 that cannot be opened in GeoMedia 2016 v16.1. When attempting to open the .gws file the message "Failed to open document." is displayed.</p> <p>This problem appears to be related to the 'Oracle Object Model LTT Read-Write' connection and is a regression from 16.0.</p>
<p>1-YIJDVX</p>	<p><b>Problem with PatternedLineStyle object in custom code</b></p>	<p>I have legacy custom commands written in vb6. One of them uses the object PatternedLineStyle. The following line used to work in Geomedia 2015 but now gives an error when compiled against, and run in Geomedia 2016.</p> <p>Set objStyle = CreateObject("Geomedia.PatternedLineStyle")</p> <p>The error recieved is        Run-time error '-2147467259 (80004005)        Automation error        Unspecified error</p>
<p>1- RRNGPW</p>	<p><b>Pre '1900' attribute values of type 'Date' are invalid in SQL Server when AFM enabled (regression)</b></p>	<p>An SR was filed reporting that when using Output To Feature Classes to output a feature class from an AFM enabled SQL Server Read-Write connection to a new SQL Server Read-Write feature class, certain records from the source feature class fail to be output. The error written to the GMOTTS.log file for these failed records is like the following:</p> <p>"Error: Unable to update the record. (Error: Invalid character value for cast specification.Could not insert a record in the database.Invalid character value for cast specification. Could not insert a record in the database. ) where ID = 1        Error: Unable to update the record. (Error: Invalid character"</p> <p>Upon investigation it was discovered that the records that fail during the OTFC process are those where the 'Date' attribute has a value earlier than '1/1/1900' (e.g. 1/1/1899 12:00:00 AM).</p> <p>To reproduce the problem, use the steps below:</p> <ol style="list-style-type: none"> <li>1. Open the provided TestAFMGDO_2016.gws with GeoMedia 2016. This .gws contains a AFM enabled SQL Server Read-Write connection. The 'FtrDatesPre1900' feature class displayed on the legend contains an attribute of type Date with the name 'Datefield'. Each of the 7 feature instances has a pre-1900 date value assigned for Datefield. As you can see in the displayed Data Window for the 'FtrDatesPre1900' feature class the Datefield value is shown as 'Invalid DateTime Invalid DateTime' for each of the features.</li> <li>2. Now double click on one of the red 'FtrDatesPre1900' features displayed in the map window to open the Select Set Properties dialog and note that the Datefield contains a valid pre-1900 date (e.g. the feature with ID=1 has a DateField of '1/1/1882 12:00:00 AM' which is shown correctly in the Select Set Properties dialog'.</li> <li>3. Dismiss the Select Set Properties dialog and select the Output To Feature Classes command. Choose the 'FtrDatesPre1900' as the Source feature to output. A default Target Feature Class with output mode New will be defined for the same SQL Server connection, so you can click OK to begin the output process. After the process completes an error message is displayed with the message "Unable to create table or output all features for one or more feature classes. Refer to log file C:\Warehouses\GMOTTS.log for details." The GMOTTS.log will include the errors noted previously.</li> </ol>

		<p>4. Next use the Warehouse Connection &gt; Properties dialog to uncheck the 'Enable advanced feature model' option. The click OK and Close on the dialogs.</p> <p>5. Now if you review the Datefield values in the Data Window for the 'FtrDatesPre1900' feature class you will see the correct values instead of the 'Invalid DateTime Invalid DateTime' text.</p> <p>6. Likewise if you run Output To Feature Classes again using the same workflow from step 3, the process will complete without error.</p>
1- M3S31 H	Properties dialog Cannot Edit Hypertext field value if defined as URL	<p>Properties dialog:</p> <p>Use of &lt;Ctrl&gt; key to edit a URL based hypertext value no longer works. Problem is a regression from version 6.1</p> <p>Editing of hypertext URL values has always been problematic because:</p> <p>a) If you click into the field, the hypertext link/object fires instead of allowing the edit.</p> <p>b) If you right-click and select Edit, the Browse for FILE dialog appears but it does NOT allow the user to insert or edit a URL value.</p> <p>Users should be able to use the &lt;Ctrl&gt; key when clicking into the field to edit the data value (without the hypertext firing to the associated application). In version 6.1, the user can use the &lt;CTRL&gt; key but testing in version 2015 and 2016 shows that use of the &lt;CTRL&gt; still fires the associated application.</p> <p>The use of &lt;Ctrl&gt; key works in data window to edit values but fails in 2015 and 2016 Properties dialog. The &lt;Ctrl&gt; key method works for version 6.1 Properties dialog.</p> <p>Resolution: The help topic has been altered to indicate how editing is done by clicking within the cell but away from the URL text (after, before, above, or below it) when the cursor is not changed to indicate hyperlink invocation.</p>
1- M8ALZ 1	Layout Insert Scale Bar dialog default Unit Label does not match the default Unit (Regression)	<p>Layout &gt; Insert Scale Bar dialog default unit does not match the default Unit Label. Problem is present in 2015 and 2016 but is a regression from version 2014.</p> <p>Example:</p> <p>The default Unit is shown as "km", yet at the same time, the default Unit Label shows "Miles"; it is expected that the default Unit and Unit Label should be of equivalent units of measure.</p>
1- M1BN 5A	Query Connectivity should not require a read write connection (Regression)	<p>Query Connectivity command (previously called Validate Connectivity in version 6.1) is unavailable (command is grayed out) if all connections are read-only. A read-write connection should NOT be required to generate a connectivity query.</p>
1- XJVP0 X	Major performance degradation utilizing GM 16.0 as compared to GM 15.0	<p>Internally, while testing, we have workspace that is loaded both on a GM 16 and a GM 15 machine. When attempting to open the Queries command, it takes GM 3 minutes, 35 seconds to open the dialog on a GM 16.00.0000.10267 machine and it takes the Queries command only 4 seconds to open the Queries dialog on the machine running GM 15.00.0000.10203, over a 50 fold drop in performance. Once the dialog is up, if any changes are made to a query, a similar performance hit is being seen when the changes are being executed, all Queries operations are terribly slow with GM 16.</p>
1- TPHA CS	Open/closing Queries dialog causes memory to	<p>Open/closing Queries dialog causes memory to increase every time.</p> <p>Using customer's dataset if the Analysis&gt;Queries dialog is opened, but no action taken and then closes the Queries dialog the CPU memory on the machine increases approximately 150,000 K. This happens</p>

	increase every time.	every time the Queries dialog is opened and closed even without doing any action on the Queries dialog. Once the Queries dialog is opened the user clicks on the Close button.
1- VJT8C 7	Undesired X and Y shift when transforming between NAD83.NAV88 and WGS84.EGM96	<p>User has reported and provided example data that shows an unexpected X and Y shift when transforming between NAD83/NAVD88 and WGS84/EGM96. The problem occurs when NGS GEOID .bin files have been loaded and configured for proper Z height transformations.</p> <ol style="list-style-type: none"> <li>1. Place GEOID files and area.ini in C:\Program Files (x86)\Common Files\Intergraph\Coordinate Systems\3.0\Config\NGSGEOID folder.</li> <li>2. Create New GeoWorkSpace and establish connection to Test_Sanborn_Points.mdb.</li> <li>3. Add the two Point features to the map.</li> </ol> <p>Observation: Notice how the points do NOT align. It is expected that these points should be at or near coincident. Problem does not occur if the binary NGS GEOID files are not used however then the Z height values are not properly transformed.</p>
1- JJGD4 7	Labeling> Expression Builder: Some informational strings are English. Need to be localizable.	i18n: Labeling> Expression Builder: Some informational strings are English. Need to be localizable.
1- U66Z0 O	Static Label text geometry fails to transform with coordinate system changes	<p>Static label text added to the map legend fails to transform if the GeoWorkSpace Coordinate System is changed. If however, the same label text is added to the map using Legend &gt; Add Legend Entries command, the text geometry transforms as expected with changes to the GeoWorkSpace Coordinate System.</p> <p>Steps using example data:</p> <ol style="list-style-type: none"> <li>1. Open GeoWorkSpace correcting path to .mdb warehouses as needed.</li> <li>2. Save the .gws file.</li> <li>3. Use Labeling &gt; Display Labels to display STATE_NAMES from the Static_Labels warehouse connection.</li> <li>4. Change the coordinate system (for example to Geographic)</li> </ol> <p>Observation: The labels are NOT properly transformed at all and data is totally misaligned.</p> <ol style="list-style-type: none"> <li>5. Exit without saving.</li> <li>6. Open .gws file again.</li> <li>7. Use Home tab, Legends &gt; Add Legend Entries to add Static_Labels_txt feature to the map.</li> <li>8. Change the coordinate system.</li> </ol> <p>Observation: The labels ARE transformed as expected.</p>

<p>1- YSZJ6 B</p>	<p>Silent Install of German Language Pack fails using instructions from GeoMedia_Installation_Guide.pdf</p>	<p>When the German Language Pack for 16.1 (v16.00.0000.10023) is installed in Silent Mode using the command line "setup.exe /s GermanGM /ni ACCEPT_EULA=1" the installation will complete without any obvious errors.</p> <p>In fact after the setup.exe completes if you check the Control Panel &gt; Programs and Features you will see an entry for 'Hexagon GeoMedia Desktop 2016 German Language Pack' indicating that it was installed successfully.</p> <p>However after running the configure command line of "setup.exe /s GeoMedia /c GeoMedia" (with the appropriate edit to the Intergraph.GeoMedia.ConfigurationWizard.exe.config to modify the RuntimeLCID value to 7 for German) the configuration does not change to German. In other words when you start GeoMedia the user interface is still shown in English, despite installation of the German language pack and configuration to German from the command line.</p>
<p>00020 653</p>	<p>GeoMedia Essentials - Error Unique Value Thematic</p>	<p>When the client wants to classify the shapefile by using the option 'Unique Value Thematic' and they do not use the option Classify, but want to generate own values, they receive the following error code: GMLgdCtlObject variable or With block variable not set. I tested this on GM Essentials and GM Professional. GM Professional gives no error, but you can only fill in numerical values. GM Essentials gives the error all the time.</p>
<p>00020 624</p>	<p>Pictometry and Bing Maps fail to work in GeoMedia SP3 (Build 10290) Regression</p>	<p>Customer with pictometry data has noted that the Manage Data, External Maps commands no longer work in Geomedia Desktop 2016 SP3 (Build 10290). The buttons for Manage tab, Bing Maps and Pictometry are grayed out and cannot be accessed. There does not appear to be a work-around.</p> <p>Issue is a regression from GeoMedia 16.1 (build 10267).</p>
<p>00020 653</p>	<p>Cannot enter thematic Unique Value classes manually</p>	<p>When the client wants to classify the shapefile by using the option 'Unique Value Themic' and they do not use the option Classify, but want to generate own values, they receive the following error code: GMLgdCtlObject variable or With block variable not set.</p>
<p>00020 728</p>	<p>Ghost circles or arcs displayed in map view depending on display scale (Regression)</p>	<p>User has area geometry feature class where the geometry contains many composite polyline geometries with arcs. Many have holes. Displaying this data, you will see what appear to be circles or arcs (ghost type elements) in the map display. The number of ghost elements will vary according the display scale where zooming out (Smaller Display Scale), you will see more and zooming in you will see fewer of the problematic elements. Problem is a regression from version 2015 (tested build 10258). Problem observed in version 16.1 and 16.2.</p>
<p>00020 746</p>	<p>Geomedia .gws crashes when deleting legend entry subtitle</p>	<p>If a user removes a subtitle from a legend entry, and then clicks on the legend entry name in question after backspacing all characters, the GM .gws will crash.</p> <p>Using GM 2016 build 10290</p>
<p>00020 778</p>	<p>Dialog hangs GeoMedia after using context sensitive Help or switching to another application</p>	<p>When running on a Windows 10 operating system, after using F1 to get the context Help for 'Map Window Properties' and closing the Help Window with the Cancel (X) button, GeoMedia hangs forcing the GeoMedia process to be killed via Task Manager.</p> <p>The steps to reproduce the problem are as follows:</p> <ol style="list-style-type: none"> <li>1. Start GeoMedia and open any GeoWorkspace (e.g. USSampleData.gws) or create a new GeoWorkspace.</li> </ol>

		<p>2. Right-click in the Map Window and choose 'Map Window Properties' from the context menu or choose Map Window Properties from the Home tab of the ribbon bar.</p> <p>3. Press F1 to enable the context Help for the 'Map Window Properties' command.</p> <p>4. Close the GeoMedia Help dialog for Map Window Properties by clicking the (X) button in the title bar.</p> <p>Observations:</p> <p>After dismissing the Help dialog, note that the 'Map Window Properties' dialog is no longer visible.</p> <p>This will result in GeoMedia hanging, so that Task Manager must be used to kill the process.</p>
00013 164	<p>Displaying a single legend thematic legend entry doesn't display the theme in the Map Window</p>	<p>Displaying a single legend thematic legend entry doesn't display the theme in the Map Window</p> <p>To reproduce:</p> <p>Start USSampleData.gws. Select the thematic legend "Rivers" in the active legend. Right click and select Display Off.</p> <p>Select "Perennial – Single Line" in the thematic legend entry "Rivers" and right click Display On.</p> <p>In the legend "Perennial – Single Line" is now set to Display On, but this legend entry is not displayed in the Map Window.</p>
00020 749	<p>Crash occurs in GeoMedia 16.1 with Select Set Properties when AFM is Enabled for SQL Server (Regression)</p>	<p>When AFM is enabled for a SQL Server connection a crash occurs after performing several zooms and pans, then double-clicking a feature to display Select Set Properties. This problem does not seem to occur with 16.0, so this seems to be a regression from that version.</p>
00020 569	<p>Temporal Query problem with dates when regional Short date = dd- MMM-yy</p>	<p>The Queries command displays the 'As of date' from a Temporal Query with the day and month swapped if the 'Short date' setting for the PC is 'dd- MMM-yy' and the day value (i.e. dd) falls between 1 and 12. For instance when those two conditions are met a Temporal Query that was created with the 'As of date' = '11- Apr-17' will be displayed via the Queries command with the 'As of date' = '04- Nov-17'.</p>
1- JME12 8	<p>German Language Pack "Invalid linear pattern with name: Volllinie."Error in layout window"</p>	<p>German Language Pack "Invalid linear pattern with name: Volllinie."Error in layout window"</p> <p>A problem with the GeoMedia Desktop SP1 German Language Pack produces an error when right clicking on a map/picture in the layout window and selecting the properties. The error message reads: "Invalid linear pattern with name: Volllinie."</p> <p>This mainly caused due to the fact that the style names in the tab general (right click on map in layout window &gt; properties) stay in English.</p>
00020 713	<p>Delete of multiple point features from Access connection</p>	<p>A customer has an Access warehouse containing a point feature class that has a primary key consisting of two attributes (MOFILE which is of type Text and CHAINAGE which is of type Long Integer). When the point feature class is added to the legend and the user selects and then deletes 50 to 100 of the point features the legend entry is set to a disabled state (so that the legend entry icon is shown with the diamond containing a red exclamation point and there are no features displayed in the</p>

	invalidates the legend entry	<p>map window). If you right click on the legend entry and select Load Data the remaining point features are re-displayed in the map window and the legend entry returns to a valid state. If you only delete a few of the points at one time (fewer than 20 for instance) the legend remains in a valid state and is updated as expected with the new legend statistics reflecting the deleted points.</p> <p>This issue seems to be related to the primary key definition, since if you use Output To Feature Classes to generate a new feature class with a new primary key (e.g. ID1 of type AutoNumber) deletes of multiple features from that feature class can be performed without any type of error.</p> <p>Additional observations:</p> <p>Validate Geometry reports no anomalies for the COE_STN_RR feature class.</p> <p>Turning off the 'Undo' option does not change the behavior.</p>
00020 725	Update Attributes throws Object is invalid for operation error when input record set has multiple keys	<p>When using Update Attributes command to update features with multiple primary keys, the following error may occur when the "Enable undo and logging" option is enabled (checked):</p> <p>GeoMedia Desktop</p> <p>Object is invalid for operation.</p> <p>OK</p> <p>The error occurs multiple times upon completion of the update to the point that the user may need to use the option to get rid of the repeating message, after which the recordset is unloaded by the application. The input record set is left in an unloaded state however once re-loaded the user should find all attributes have been correctly updated. The user can forcefully reload the record set using a right-click on the legend entry for Load Data or Refresh of the Warehouse Connection.</p>

### ISSUES RESOLVED (GEOMEDIA 16.5)

CR #	SUMMARY	Description / How to Reproduce
1- FFI1K 1	Problem importing GTech legend and then saving .gws on German machine with German GM configured	<p>Issue/error occurs when saving workspace because imported GTech legends Style Properties with advanced tab attribute based expressions. The problem is in the style rules list separator "In (...)" function which should be a semi-colon ";" but is a comma ",".</p> <p>German machine configuration. Still get error when saving with Style properties "Character string".</p> <p>Windows 2012 R2 Standard German, GeoMedia 2015 SP1 German Language Pack</p> <p>Regional and language setting: Format German (Germany), Location Germany, Administrative-&gt;System locale German(Germany)</p> <p>Does not occur on English machine configuration.</p> <p>Same machine Windows 2012 R2 Standard German, GeoMedia 2015 SP1 German Language Pack</p>



		<p>Regional and language setting: Format English (United States), Location United States, Administrative-&gt;System locale English(United States)</p> <p>In the style properties dialog if the list separator "In (...)" function expression is changed from "," to ";" the error will not occur and the .gws can be saved without an error</p>
00021 133	GWS opening time - regression	<p>The performance of loading Dynamic Segmentation queries has dropped significantly in version 16.2 as compared to version 16.1. The time required to load is so slow that the command is essentially unusable. The problem reported using Oracle data however the issue persist when using Access data. This represents a regression from 16.1 and would prevent users who use Dynamic Segmentation from upgrading to 16.2.</p>
00021 255	Unable to connect to MS SQL Library (Regression from 16.1)	<p>When attempt to connect to GeoMedia Library stored in MS SQL the following error occurs:</p> <p>*****</p> <p>GeoMedia Desktop</p> <p>Unable to create library database objects. Standard metadata tables may be missing.</p> <p>*****</p> <p>This is regression from GeoMedia Desktop 16.1. Error in 16.2 prevents use of MS SQL Libraries and occurs despite connecting using the same user credentials as used in the successful 16.1 connection.</p>
1- 1060N SY	GSB grid file calculation incorrect	<p>A G/Technology customer is using a grid file that is very large and dense. According to CCS there is an index calculation using variables that are too small and thus overflow.</p>
1- 9BGB SD	Button labels on German 'Export to GML' dialog misspelled (i.e. Durchuchen instead of Durchsuchen)	<p>A SR was filed noting that there is a typo in the German GUI for the Export to GML dialog. Specifically the Browse buttons for the GML schema file and the Base GML Schema are labeled as 'Durchuchen' instead of the correct spelling of 'Durchsuchen'. The Browse button for the GML data file on the same dialog has the correct label of 'Durchsuchen' already.</p>
1- 53ENV Q	Publish to Map command outputs areas with holes to KML incorrectly	<p>The 'Publish to Map' command publishes an area with holes to KML as MultiGeometry (so that each hole becomes a polygon with an outerBoundary). The expected result is for the main polygon to have an outerBoundary with the each hole represented as an innerBoundary.</p> <p>This problem can be observed by serving a KML file that contains an area with holes into GeoMedia then publishing that feature to a new KML file and serving the new KML file into GeoMedia as well.</p> <p>This difference in the geometry also affects the display of the KML file in Google Earth.</p>
1- ML83P S	Icons too small and dialogs partially displayed on Microsoft Surface Pro 4 running Windows 10	<p>Customer has found that the icons within GeoMedia command dialogs are too small when GeoMedia 2016 is installed on Microsoft Surface Pro 4 tablet running Windows 10.</p> <p>Specific examples cited by the customer are the GPS Tracking command where the command icons on the dialog for Settings, 'Stop tracking', 'Turn on skyplot', etc are approximately a quarter of their normal size and the Tracking dialog itself appears to be only partially displayed.</p> <p>A second example cited by the customer is the Add Legend Entries command. It appears that the customer is concerned about the size of the icons to the right of the checkboxes that indicate the object</p>

		<p>type. For instance there is a “?” mark symbol to the right of the Queries checkboxes and a geometry type icon (for Areas, Point, Lines, Text, etc.) to the right of feature classes to indicate their type.</p>
1- D0AR TU	<p>Customer has 3200X1800 display - reports toolbars, dockable controls, WMS text unusable</p>	<p>On a full resolution 3200X1800 display, the customer complains that:</p> <ol style="list-style-type: none"> <li>1) The dockable control for spatial filter is unusable.</li> <li>2) The WMS service -&gt; legend entries are too small.</li> </ol> <p>Not corrected by changing resolution to 1600X900.</p>
1- LQH5 RZ	<p>The message displayed on Labeling is partially English but the string has been localized.</p>	<p>i18n: The message displayed on Labeling is partially English but the string has been localized.</p> <p>Labeling &gt; Preferences</p> <p>When the specified folder is not valid, then the message is displayed. (See attached image)</p> <p>The corresponding strings has been translated but not used in this message box.</p>
1- YG822 N	<p>Spatial Model Editor 'Oracle Features Proxy' fails (Feature accessor error)</p>	<p>When attempting to make an Oracle Features Proxy connection to an Oracle database an error message is displayed with the text...</p> <p>“Feature accessor is not on a row.”</p> <p>Since the 'Database Connection' row cannot be selected on the Connection Manager dialog without error, the 'Features Tables' grid is never populated thereby preventing selection of a desired 'Features Table' row and creation of the .opf file.</p> <p>This problem was reproduced on four different machines using GeoMedia Desktop version 16.00.0000.10267. However the same workflow is successful when using version 16.00.0000.01415 so this is a regression from the previous release.</p> <p>Additional Observations: It is possible to successfully create a SQL Server Feature Proxy (*.sfp) file using the same workflow, so the problem seems to related to the Oracle connection rather than the grid control.</p>
1- YG3B W6	<p>Spatial Model Editor 'Oracle Features Proxy' creation fails for Read-Only Oracle user</p>	<p>When attempting to make an Oracle Features Proxy connection to an Oracle database via a 'Read-Only' Oracle user an error message is displayed with a message like the following...</p> <p>“Custom type mapping for 'dataSource='TSDB64' schemaName='MDSYS' typeName='MBCOORDLIST' is not specified or is invalid”</p> <p>The values in the error message for dataSource, schemaName, and typeName will reflect the particular Oracle database to which you are attempting to connect.</p>
1- UDPB Y5	<p>Spatial Modeler 'Preview' operator fails with errors if input feature uses EPSG:2056 coordinate system</p>	<p>When a spatial model is created where the input features to the Preview operator have the EPSG:2056 coordinate system assigned an error will occur when the Preview button is invoked for the model within the Spatial Model Editor utility delivered with GeoMedia 16.00.0000.1405. There are actually two error messages displayed in succession. The first error message states “No translation for spheroid/datum”. When the OK button is used to dismiss the first message, a second message is displayed stating “Failed to open Preview layer.: : Unsupported moniker”. When these errors occur, there are no features displayed in the resulting Preview window.</p>

		<p>If you add a 'Coordinate Transformation' operator prior to the 'Preview' and set the TargetCRS for the CoordinateReferenceID port to "Authority: EPSG; Code: 32632" for instance, the Preview will then complete successfully without error messages and display features in the preview window. However if you double-click the 'Coordinate Transformation' operator to review to open the Properties dialog for that operator you will then see the same "No translation for spheroid/datum" that was previously displayed for the Preview operator. If you click OK to dismiss the first message a second message stating "Unsupported moniker" is displayed. The customer notes that the Preview works if the same spatial model is run in IMAGINE.</p>
1- TCP6F O	<p>Spatial Modeler crashes when choosing a Swiss Coordinate System</p>	<p>Reproduction:</p> <ol style="list-style-type: none"> <li>1) Open Spatial Modeler</li> <li>2) Insert Coordinate Transformation</li> <li>3) Double Click on TargetCRS</li> <li>4) Click on "Set"</li> <li>5) Change to Standard</li> <li>6) Categories: Switzerland</li> <li>7) Ok to the Error message</li> <li>8) Click on CH1903*/LV95 (EPSG 2056), Oblique Mercator for SOCET SET, or Swiss LV03(EPSG 21781) results in Direct Crash</li> <li>9) Click on Oblique Mercator (Bessel) or ch1903 --&gt; Crash after confirmation.</li> </ol>
1- TY55Q J	<p>Security vulnerability with xerces-c_2_8.dll - Version 2.8.0 delivered with Spatial Modeler</p>	<p>The software installs Xerces 2.8.0. Please be advised that Xerces 2.8.0 and all earlier releases are 100% unsupported and should no longer be used by applications.</p> <p>The current version is Xerces 3.1.4.</p>
1- VEFB E3	<p>Removal of ERDAS IMAGINE 2016 renders GeoMedia Desktop 2016 corrupt</p>	<p>Customer reports and support duplicates a problem with removal of ERDAS IMAGINE 2016 from system with GeoMedia Desktop 2016. GeoMedia is left inoperable. Running GeoMedia Desktop 2016 repair restores functionality.</p> <p>Problem appears to be related to the Spatial Modeler installation? After removing IMAGINE, the Spatial Modeler installed by GeoMedia Desktop is missing several files.</p>
1- L1FH3 2	<p>Spatial Intersection is returning incorrect results for query between two area feature classes</p>	<p>Spatial Intersection is returning invalid results (i.e. an incorrect geometry with zingers) for a query between two area feature classes when using the 'overlap' or 'touch' operator. Validate Geometry does not indicate that there are any geometry errors that would account for the error in the results, but the geometry is unusual in that it appears that all of the vertices are rounded to whole numbers (as if they were integer).</p>
00021 356	<p>Contour generation model fails from the</p>	<p>Contour generation Spatial model fails on GeoMedia Desktop 16.2 but works perfectly on IMAGINE.</p>



	Run Spatial Model command	
00022 045	Cannot create more than one gws from a read-only template	When a gwt template file has a read-only flag set, a new gws based on this template can only be created once. Each successive attempt to open this template will result in an error. This is most likely caused by the fact, that a copy of the gwt file is created in the %TEMP% folder and is not deleted upon GM exit when the template file is read only. This worked fine in GM 2015.
00022 149	Drawing Toolbar is partially displayed on High DPI monitor preventing access to multiple commands	When running GeoMedia on a High DPI display device the Drawing toolbar in the layout window is clipped both vertically and horizontally, so that it is only partially visible. The horizontal clipping results in the loss of a number of commands on the right side of the toolbar making them inaccessible. Thus far, no workaround has been identified for this issue.
00022 182	Spatial Model Editor does not run with borrowed license	If a user borrows a GeoMedia Desktop license it is expected that the user can also run either a Spatial Model (spatial model engine) or Spatial Model Editor (GeoMedia Professional tier only). This is not the case however as Spatial Modeler will NOT start after a GeoMedia Professional license has been successfully borrowed. The Spatial Model Editor utility for example will continue to look for the license server when offline even when GeoMedia Professional will run offline (in a borrowed state).
1- WVZ G2	The certificate of the digital signature of version 2016 GM Desktop, Setup.exe is expired	<p>The certificate of the digital signature of version 2016 GM Desktop, Setup.exe is expired. Here are the steps to reproduce the problem. Once you download GeoMedia Objects 2016:</p> <ul style="list-style-type: none"> <li>• unzip</li> <li>• click to get the file properties of Setup.exe</li> <li>• go to the Digital signature tab and click Details</li> <li>• click on view the certificate</li> </ul> <p>The certificate is valid until May 14th 2016.</p>
00022897 00022 767	Picklists defined for a PostGIS Read-Write connection are not displayed in the product	When using a PostGIS Read-Write connection the Select Set Properties command fails to display the picklist values for an attribute field for which a valid picklist has been defined.
00020 667	Non-loaded legend entries show record number (0)	Starting with GM 2016, the non-loaded legend entries show the record number. They used to show no number until loaded in 2015 and before.
00023 104	Legend Statistics Count Properties show zero records	<p>2016 Legend Statistics Count Properties show zero records while in prior versions zero count was not displayed if</p> <p>A bug in the map window legend properties count has been introduced with GeoMedia 2016. (at least in V2)</p>

		<p>Previous versions legend entries that were not loaded did not display any information on how many features are loaded from the database. Now these legend entries shows (0), as if they were loaded and in fact has zero features in the record set. This causes confusion.</p>
<p>00020 764</p>	<p>'Unhandled Exception' error occurs when reviewing Rules properties with German regional settings</p>	<p>When using German regional settings, an 'Unhandled Exception' error occurs with Label Manager, upon click of the Rules button to review the properties of a previously created rule where the 'Allow Use of Leader Lines' option was enabled with the Leader Line Width set to 0,1. This problem does not occur with English regional settings.</p>
<p>1-4VHJJB  00014 324</p>	<p>Select Set Properties grid not remembering column widths (minor regression from version 6.0)</p>	<p>Client has just completed a roll-out from 6.0 to 6.1 and has noticed that in 6.1 the columns widths of the Select Set dialog grid are not being saved after the dialog has closed, whereas they were in 6.0. The dialog dimensions however are being saved. A lot of their tables have long field names, so they are having to resize the column on a regular basis.</p> <p>In the Feature Attribute Form the attributes of the Feature are displayed in two columns, one for the name and other for the value. If you try to change the width of the columns, it is impossible if you don't select previously one value (one row).</p>
<p>1-K7G7IU  00006 913</p>	<p>Moving Labels created by Label Manager</p>	<p>After using the Edit Geometry command to move the position of a label created with the Generate Static Labels command a Zoom or Fit was required to refresh the screen in order to see the correct display of the moved label. Upon researching the issue it was determined that the labels were generated with the Output set to GeoWorkspace, so the labels being edited are from a query.</p>
<p>1-E3E83J  00018102  00014780  00009619  00006075  00005116  00018899  00013065  00009679  00009320  00009973  00003841  00021140  00022669</p>	<p>Toggle Dynamic results in error Unable to get GDatabase property</p>	<p>Users are reporting that when attempting to select the Labeling, Toggle Dynamic option, the following error occurs:</p> <p>Unable to get the GDatabase property if the connection was never opened. Please connect and try again.</p> <p>Failed to dynamically label the map.</p> <p>At this point the user cannot display dynamic labels. If the user can successfully remove all invalid queries (those that do not show an icon after reviewing within Analysis &gt; Queries &gt; Properties) AND remove all invalid connections, then it may be possible to once again display labels. The Display Labels command appears to be unable to gracefully handle certain invalid references. Need better handling of closed connections to avoid this problem.</p>



<p>00021 166</p>	<p>Add Legend Entries (from Legend right-click menu) incorrectly loads legend entries that are set to 'Display Off'</p>	<p>When the 'Add Legend Entries' command is invoked from the Legend right click-menu and a new legend entry is added, the data for any existing legend entries that were set to Display Off (that were in an unloaded state because the 'Do not load data when opening GeoWorkspace' option was enabled on the General tab of the Options dialog when the GeoWorkspace was opened) will be loaded.</p> <p>This behavior occurs only if the right-click menu from the Legend was used to select the Add Legend Entries command. The existing legend entries that are in a Display Off state remain unloaded if the new legend entry is added using other methods including...</p> <ul style="list-style-type: none"> <li>• The Home &gt; Legends &gt; Add Legend Entries command from the ribbon bar</li> <li>• The 'Add to Map Window' right click option from the Explorer command</li> <li>• The Home &gt; Legends &gt; Add Thematics Legend Entry</li> </ul> <p>'Insert Feature' automatically adding the legend entry after digitizing a new feature instance for a feature class not currently on the legend</p>
<p>00021 719</p>	<p>Installation of GeoMedia 16.0 or 16.1 on Windows Server 2012 R2 results in SideBySide errors</p>	<p>When GeoMedia Desktop 16.00.0000.01405 or 16.00.0000.10267 is installed on new Windows Server 2012 R2 operating system where no GeoMedia software has been previously installed there will be multiple entries written to the Event Viewer (Windows &gt; Application) log reporting SideBySide errors.</p> <p>The SideBySide errors occur during the installation (rather than when running the product) and the errors all seem to be associated with the various Intergraph.CoordSystem components (e.g. Intergraph.CoordSystems.IgdsUtil, Intergraph.CoordSystems.Cgnl, Intergraph.CoordSystems.Services, and Intergraph.CoordSystems.MiniPSupt).</p> <p>The errors are reported for each of the executables delivered with GeoMedia (i.e. GeoMedia.exe and the executables for the various utilities such as CCSDDefCSF.exe, SchemaRemodeler.exe, etc.).</p>
<p>00021 722</p>	<p>Database Utilities – Coordinate System creation fails on German system for Oracle connection with ORA-01722 error</p>	<p>Database Utilities – Coordinate System creation fails on German system for Oracle connection with ORA-01722 error.</p> <p>On a machine with a German operating system (e.g. running Windows 7 Professional German) install GeoMedia Desktop 16.00.0000.20059. The customer reported this problem with the German Language Pack installed, but I was able to reproduce the error without the language pack.</p>
<p>1- 9CQ4F V</p>	<p>Label Manager settings and resulting Dynamic labels overlap</p>	<p>Label Manager settings and resulting Dynamic labels overlap. Workflow to reproduce:</p> <ol style="list-style-type: none"> <li>1. Create a new blank gws or open CR 1-9CQ4FV.gws</li> <li>2. Connect to the USSampleData (Access) warehouse</li> <li>3. Display only the feature class 'Cities'</li> <li>4. Run Label Manager and create a label on the Cities legend entry containing the ID and the CITY_NAME (Expression : ID &amp;&amp; CITY_NAME).</li> <li>5. Add a symbol to this label with the 'Scale to text' option activated.</li> <li>6. Create a rule for this label with just create leader lines selected.</li> <li>7. Display the labels using Toggle dynamic.</li> </ol>

		<p>8. The result is OK (no overlap).</p> <p>9. Modify the label properties by splitting the labels on 2 separated lines (Expression : ID\nCITY_NAME).</p> <p>10. The resulting Labels display overlapped labels.</p> <p>This bug appears when the following conditions are active :</p> <ul style="list-style-type: none"> <li>• A multiline label</li> <li>• A symbol on the label</li> <li>• Leader lines activated</li> </ul>
<p>00022 046</p>	<p>Output to Feature Classes to Oracle fails to add legend entry when spatial filter is applied</p>	<p>Oracle users using spatial filtering with features created by Output to Features Classes command will encounter errors when attempting to add features to the map legend.</p> <ol style="list-style-type: none"> <li>1. Apply spatial filter</li> <li>2. Use GeoMedia 2016 Output to Feature Classes to copy features from Access to Oracle.</li> </ol> <p>Observe following message:</p> <p>Error creating a legend entry for OM_ALABAMA.STUDY_AREA</p> <p>Source: GeoMedia</p> <p>Description:The input recordset is invalid.</p> <p>Continue with operation?</p> <p>Selecting More option on the error dialog displays the following message:</p> <p>ORA-00904: "A"."GEOMETRY"."SPATIALEXTENT": invalid identifier</p> <p>An error occurred in the underlying database</p> <p>The "error occurred in the underlying database" occurs once for every record.</p> <p>Spatially indexing the data seems to correct the problem so the errors can be avoided when using spatial filtering.</p>
<p>00022 161</p>	<p>Split by Existing Features can hang or crash GeoMedia</p>	<p>User has reported problem where GeoMedia Professional hangs or crashes when using the Split command with the Split by Existing Features option. Issue can prevent user from saving any changes to the GeoWorkSpace (.gws) document. Problem is a regression from behavior observed in 2014 and 2015.</p>

		<p>In the data provided the goal is to split the large area (hydroarea) using the boundary line (hydroline) with the Split by Existing Features option.</p> <p>General Workflow (see also Attachments for data and example video)</p> <ol style="list-style-type: none"> <li>1. Select the HydroArea.</li> <li>2. Select the Split by Existing Features option.</li> <li>3. Select the HydroLine</li> <li>4. Double-Click to perform the split.</li> </ol> <p>Observation: The application hangs with continual on screen wait cursor. No CPU activity for GeoMedia.exe. Split by line works even when splitting along the entire length of the linear feature (HydroLine).</p>
00022 491	ExportToGMLService does not escape special characters	<p>When exporting to GML, labels of text geometries containing special characters such as &lt; or &gt;, are exported as is, thus not escaped correctly. It results in an invalid GML file.</p>
1- 8XQG DP	Break all feature classes not honored against categories	<p>What is happening is that when collecting features (whether it's a point, line or area feature) a node is not being placed on the feature that is being intersected. The results are that the feature being collected contains the vertex at the point of intersection of the underlying feature, but the underlying feature does not have the vertex. The 'break all feature classes' option is active for Placement and Editing.</p> <p>After conducting several tests we found that this only happens if all of the following conditions exist:</p> <ul style="list-style-type: none"> <li>• The GeoWorkspace contains more than one warehouse connection where at least one of the connections is closed</li> </ul> <p>When selecting the a feature to be inserted, the feature is selected from a previously created Category</p>
00022 469	In DefCSF, a user-defined name is always overwritten with EPSG Code	<p>User has Coordinate System (.csf) files created with user defined names (as seen on the dialog after opening in the Name property field). If we open these coordinate systems in 16.2 the name is immediately over-written with a string representing the EPSG code in the form of: EPSGnnnn</p> <p>Problem is a regression from version 16.0 build 1415 (16.0 patch 1). Problem began in 16.1, build 10267.</p> <p>We expected that the user defined Name property would preserved and not be over-written as it is not null.</p>
00022 846	Database Utilities - GDOSYS Oracle GFEATURES-View is not being created	<p>Database Utilities doesn't work correct for GDOSYS creation and metadata table creation on Oracle on Germany Operating systems.</p> <p>GDOSYS is created by using Database Utilities. But the view GFEATURES is not created and missing afterwards in the GDOSYS Metadata Schema. Same behavior with script CreateGDOSYS.sql</p> <p>Running the database utilities a second time GFEATURES was created. But not running the Script a time. And it seems to depend on German operating system.</p>
00021 879	Layout Print or Plot to PDF of WMTS	<p>Users may experience problems when printing or plotting WMTS data to PDF using GeoMedia Layout Window, File Print command. When printing a large sheet (A0, A1, A2, A3 sizes for example), the output PDF may be blank, incomplete (partial), corrupted or not created at all. It is believed that</p>



	data fails for large sheets	GeoMedia may be submitting unnecessary WMTS layers to print rather than only the appropriate tile layer for plot scale.
00021 543	Table's owner unable to secure table in GTM in 12c R2	GeoMedia documentation fails to indicate that for Oracle 12c, a normal DBA cannot write to MDSYS.SDO_GEOM_METADATA_TABLE unless explicitly granted the right.
1- KPQC X4	WFS connection with Username/Password fails when .gws is reopened even though password is provided	<p>When a GeoWorkspace with a WFS connection that requires a Username/Password is saved and then that GeoWorkspace is reopened it is not possible to open the existing WFS connection even though the appropriate password for the WFS is provided on the Advanced Options dialog. The error displayed to the user is the generic "Version negotiation failed. The WFS does not support the version supported by the data server (2.0.0/1.1.0/1.0.0/0.0.14/0.0.13)."</p> <p>This problem occurs when the default StorePassword value of 0 is used for the WFS data server. If the StorePassword value is set to 1 then there is no need to reenter the password for the WFS when the GeoWorkspace is reopened, thus the problem does not occur. Setting the StorePassword value to 1 is not an option for customers working in a secure environment however.</p>
00021 607	WFS attribute queries on values containing umlaut characters fail to return expected results	It seems that attribute queries on text fields containing values with umlaut characters fail to return the correct and expected result.
00022 446	Delete of Rule Classes results in automation error and crash of GeoMedia	When using an AFM model enabled connection, if attempt to delete rule classes from the Feature model, then GeoMedia Professional application will crash. Problem does not occur in 16.00.000, build 1415 (problem is specific to 16.1 (build 10267+).
1- 619NS D	GML connection error 'out of stack space' in GeoMedia Pro	<p>A GML connection with a lot of xsd files (including gml3.1.1 and citygml) an error when making the connection in GeoMedia Professional. There are two errors that showed up</p> <ul style="list-style-type: none"> <li>- 'Out of stack space'</li> <li>- 'Out of memory'</li> </ul> <p>There is very few data in the GML, but the structure is complex. Every feature is composed of an area, all points of the area and some attributes.</p> <p>It looks like that GeoMedia cannot handle the structure of the GML and corresponding xsd files. Customer claims that the gml and xsd's are valid with OGC.</p>
1- 8VBY7 F	GeoMedia fails to connect/display layer from WFS URL that works with Geospatial Portal 2013	<p>I have tried to connect this service in GeoMedia Professional 13. The service is not connected, it return an error. This service was developed by the customer with other software. I can't say that the service was 100% correct, but I have checked the service in Geospatial Portal 13 and it can be connected without any error and display data.</p> <p>URL service <a href="http://www.ign.es/wfs-inspire/ngbe">http://www.ign.es/wfs-inspire/ngbe</a></p>

		<p>The GetCapabilities URL is <a href="http://www.ign.es/wfs-inspire/ngbe?Request=GetCapabilities&amp;Service=WFS">http://www.ign.es/wfs-inspire/ngbe?Request=GetCapabilities&amp;Service=WFS</a>.</p> <p>I've verified that GeoSpatial Portal 2013 can connect to this URL and successfully display features in the map view for the NamedPlace layer.</p>
00020 964	A GML data connection only shows one feature (terrain), others exist but the legend only shows terrain feature	<p>A GML data connection only shows one feature (terrain) Other's exist but the legend only shows terrain feature.</p> <p>After making a GML warehouse connection to "TOP10NL_02O.gml" only one feature(relief/terrain) displays in the map window. The other features do not display even though records are available for them. These layers can be seen if the "TOP10NL_02O.gml" is displayed using QGIS viewer.</p>
00022 783	GML data server fails to connect to GML file with "Access is denied." Message	A customer provided a sample GML file from the Dutch Kadaster in the Netherlands named 'kadastralekaartv3_kadastralegrens.gml' that can be opened successfully using QGIS. However when attempting to server the GML file with the GeoMedia GML data server the connection fails with the familiar 'Unable to connect to the database' message and the More button reveals the additional message "Access is denied."
00008 010	Customer believes WFS filter request should not return an error when GET fails, but POST succeeds	<p>An SR was filed by a customer noting that they have a WFS that prohibits filtered GET requests (either spatial or attribute filters), but the WFS will accept POST filter requests.</p> <p>Using this WFS the customer has noticed (via the use of Fiddler and the GDOWFS.log file) that when they submit a filter request via the Attribute Query command or by applying a Spatial Filter that the GET request fails because the service returns a HTML page with a "error 403 Forbidden" message. However the WFS data server then submits a POST request with the same filter information and the service will accept the POST request. However no results from the POST request are returned to the user in GeoMedia. Thus the customer states...</p> <p>"GM should not stop working when receiving a html page but should continue with processing the requests it creates after receiving the error html page."</p>
00020 254	Connection fails when URL contains a ';' character, but other clients can connect successfully	<p>The OGC services offered by Land Information New Zealand (LINZ), a government agency, require an API key for access. That API key is included within the URL in the format shown below... When attempting to connect to this WFS URL from GeoMedia with the WFS Read-Only data server the connection fails with the ubiquitous message 'Version negotiation failed. The WFS does not support the version supported by the data server (2.0.0/1.1.0/1.0.0/0.0.14/0.0.13)'. Using the Fiddler Web Debugger utility you can see that the URL submitted via GeoMedia for the WFS data server connection was actually... <a href="https://data.linz.govt.nz/services?request=GetCapabilities&amp;SERVICE=WFS">https://data.linz.govt.nz/services?request=GetCapabilities&amp;SERVICE=WFS</a> As you can see the URL was truncated at the position of the semi-colon ";", so that it is no longer a valid URL for accessing the customer WFS. The WFS data server automatically adds the request=GetCapabilities&amp;SERVICE=WFS parameters to the URL which accounts for the complete URL shown in Fiddler. However if the URL is modified to encode the ";" character so that it appears as... <a href="https://data.linz.govt.nz/services%3Bkey=d011d2eda3b649fc8af142e308046611/wfs/layer-772?service=WFS&amp;request=GetCapabilities">https://data.linz.govt.nz/services%3Bkey=d011d2eda3b649fc8af142e308046611/wfs/layer-772?service=WFS&amp;request=GetCapabilities</a> ... this URL can be used to connect to the WFS successfully using the GeoMedia WFS Read-Only data server. The only difference in the URL for the successful connection is that the semi-colon ( was replaced with the %3B characters. The semi-colon character is a reserved 'delimiter' character for a URL and it appears that its usage in the URL in this context is valid. Therefore it seems that the WFS data server as well as the other GeoMedia OGC data servers should be able accept the presence of the semi-colon character in the URL by either parsing it "as is" or encoding it if necessary.</p>
00018 063	WFS services with https configured cannot be	We are installing 2015 products on the client's server. We create several WFS services. We follow the instruction in the web.config to enable https protocol. The WFS services are consumed fine in



	consumed in GeoMedia 2015	Geospatial Portal instances, but they cannot be consumed by GeoMedia, showing the error below: "Schema declaration for namespace 'http://www.intergraph.com/geomedia/gml' is not found."
00022705  00018 303	Data server adds attributes that cause failure when using Output To Feature Classes	When the WFS data server in GeoMedia is used to connect to the customer provided WFS at... <a href="https://data.canterburymaps.govt.nz/services%3Bkey%3D2452782855cd4b9bb7ad10c65876bc99/wfs/layer-7494?service=WFS&amp;request=GetCapabilities">https://data.canterburymaps.govt.nz/services%3Bkey%3D2452782855cd4b9bb7ad10c65876bc99/wfs/layer-7494?service=WFS&amp;request=GetCapabilities</a> ... if you review the attributes associated with the Clean_Air_Zones feature class (via Feature Class Definition) you will see that there are five attributes listed for the feature class that are not listed for the data.canterburymaps.govt.nz:layer-7494 layer name in the DescribeFeatureType response. This (layer-7494) layer name corresponds to the Clean_Air_Zones title and thus the Clean_Air_Zones feature class served in GeoMedia. The five attribute names and corresponding type that seem to have been added by the data server are... gml_description Memo gml_name Memo location_nilReason Memo Shape_nilReason Memo Shape_owns Boolean If you request the DescribeFeatureType document using the URL below and review the element-name list you will see that the attributes listed are not present for 'layer-7494'. <a href="https://data.canterburymaps.govt.nz/services%3Bkey%3D2452782855cd4b9bb7ad10c65876bc99/wfs/layer-7494?service=WFS&amp;request=DescribeFeatureType&amp;Typename=layer-7494">https://data.canterburymaps.govt.nz/services%3Bkey%3D2452782855cd4b9bb7ad10c65876bc99/wfs/layer-7494?service=WFS&amp;request=DescribeFeatureType&amp;Typename=layer-7494</a> If you attempt to use Output To Feature Classes to output Clean_Air_Zones to a new feature class in SQL Server Read-Write or Access connection the OTFC will fail with an entry written to GMOTTS.log for each of the 8 records in the feature class with a message like the following... Error: Unable to get the value of location_nilReason ( Error message: ) where rid = layer-7494.42 Similar errors occur for Shape_nilReason, and Shape_owns. Therefore the only way to successfully output the Clean_Air_Zones feature class is to exclude the attributes location_nilReason, Shape_nilReason, and Shape_owns use the 'Select Source Attributes' dialog from the Advanced tab of Output To Feature Classes.
00021 292	Example for Functional REPLACE function links to incorrect webpage	Customer has pointed out that example link for the REPLACE function incorrectly links to an example for FORMATATTRIBUTE function.
00013 855	ProgID for SQL Server Native Spatial RW data server is not listed	In the GeoMedia Object reference.chm guide there is not ProgID for SQL Server Native Spatial RW data server listed in the GDatabase list of Type property for the Connection object. Please update the documentation to include this as it is now coming in the installed Desktop product and is no longer an add on install.
00012 194	GeoMedia fails to serve GML file that can be opened successfully with other GML clients	A customer provided an INSPIRE compliant GML file that cannot be served with the GeoMedia Desktop 2015 GML data server. When a GML connection is attempted the connection fails with the error message:  "Error loading schema. Could not find file at the schema location : <a href="http://inspire.ec.europa.eu/schemas/base/3.2/BaseTypes.xsd">http://inspire.ec.europa.eu/schemas/base/3.2/BaseTypes.xsd</a> urn:x-inspire:specification:gmlas:HydroPhysicalWaters:3.0"
00022 125	GeoMedia fails to connect to GML file that other clients can serve successfully	When attempting to connect to the customer provided 'Geometry_CaseID100093802_med_xsd.gml' using the GML data server the connection fails with the error message:  "Reference to undeclared namespace prefix: 'gml'."
00020 104	GML Connections Consume Unreasonable	Creating a simple GML connection consumes so much memory that the usefulness of GML data server to serve large GML files and/or serve data from multiple GML connections is severely limited. Connecting to a 500mb gml file (containing a single feature class) causes the GeoMedia.exe to increase by approximately 1 GB. The memory use occurs after selecting OK on the connection dialog (no record sets have been requested) which is highly unusual when compared to other data servers.

	Amounts of Memory	The memory use nearly doubles again if the user then attempts to display the feature class from the GML connection!
00014233  00010 083	Can't open a WFS service (geoservice.plansystem.dk)	This service  <a href="http://geoservice.plansystem.dk/wfs?service=WFS&amp;Request=GetCapabilities">http://geoservice.plansystem.dk/wfs?service=WFS&amp;Request=GetCapabilities</a>  ..can't be opened in GeoMedia via WFS read-only connection. Attempting to connect in GeoMedia results in the following error:  Schema declaration for namespace 'http://geoservice.plansystemdk.dk/lpd' is not found.
00006 141	Unable to display features (geometry) from WFS from Norwegian mapping authority	Several WFS 2.0 services set up by the Norwegian mapping Authority will not display the geometries in GeoMedia. The log file gdowfs.log does not report any problems. And we can display the attribute data in the data window.

## GEOMEDIA IMAGE PROFESSIONAL

CR #	Summary	Description / How to Reproduce
IG-6561	Image Enhancement toolbar does not function on images added to map window using GeoMedia > Manage Data > APOLLO Explorer > right-click > Add Image to Map	Image Enhancement toolbar does not function on images added to map window using GeoMedia > Manage Data > APOLLO Explorer > right-click > Add Image to Map
IG-4532	ILTP > Products > Import Copy of Template crashes with template containing Lookup Labels and/or Geographic Grids	If you want to create a report using the Import copy of Template functions ILT crashes. If you just open the template or create a new one it's ok.
IG-6154	Image Light Table Plus 2016 is not supporting ECW Version 3 16-bit imagery	Customer reports that when opening any ECW V3 16-bit image in ILTP 2016, it is showing only 8-bit and is not showing the proper image parameters. The image display is hazy with different colors than original image (corrupt display).
IG-6119	Image Enhancement toolbar disabled when an ECW Version 3 image is selected in GMIP map window	For any image 8-bit or 16-bit ECW Version 3, the Image Enhancement toolbar is disabled in GMIP map window.  Workflow > Select image > ImagePro > Image Enhancement toolbar > all options are disabled by default when any ECW v3 image is selected.  Image Enhancement toolbar is working fine for ECW V2 images.

## GEOMEDIA GEODEX

CR #	Summary	Description / How to Reproduce
None		

## GEOMEDIA 3D

CR #	Summary	Description / How to Reproduce
1-KHTL8G	Insert 3D Mesh Layer fails to display in 3D map window	The customer is not able to Construct 3D Mesh. Memory management was enhanced to address the problem.
1-B6UKYA	GML import results in Import Aborted message	Large GML files were causing the process to run out of memory and crash.
1-K8OA1D	Import of GML file never completes	GeoMedia 3D Import of GML file never completes. Problem is due to a combination of large size and data containing umlauts.
1-U5ALTF	Import of KML/KMZ file fails due to umlauts	The customer is not able to import the KMZ data. Umlauts are causing the issue.
1-M0IY6U	CityGML building entrances display abnormally in GM3D map window	<p>3D CityGML building entrances display abnormally in GM3D map window. The CityGML model is created using Tridicon's utilities.</p> <p>The customer generates CityGML building models in the format of *.tdc using Tridicon's "tdc2CityGML" tool with Input is a *.tdc file and Output is a CityGML model.</p> <p>Then, import the CityGML file to GeoMedia 3D by using "Import 3D Objects" tool.</p> <p>Then, load the 3D model in the GeoMedia 3D map window which results in the entrances of buildings displaying in Red-colored textures using GM 3D 2015, and in GM 3D 2016 most all the Red-colored textures are gone, but a couple of building entrances have a grey color displayed.</p>
1-K1PFTD	Import 3D Objects using SketchUp file successfully imports but does not display in 3D map window	<p>Import 3D Objects using SketchUp file successfully imports but does not display in 3D map window.</p> <ol style="list-style-type: none"> <li>1) SketchUp files were imported successfully using Import 3D Objects utility.</li> <li>2) A new table was created in the corresponding warehouse.</li> <li>3) Table contains only 1 record, but no geometries.</li> <li>4) No obvious problem listed in the log file.</li> </ol> <p>SketchUp file displays fine in SketchUp Viewer.</p>
1-8WOUF3	Transformation Failure of ECW when Toggle 3D - custom named datum	<p>Customer uses custom coordinate system based on custom named. When toggling to 3d, there is a shift between the vector and the Raster (tried only ECW data). The .ecw file does not respect the named datum, while the vector does.</p> <p>Customized datum and coordinate system are used. Copy provided autodt.ini and NamedHDatum.ini to the correct folder. Open provided .gws, restore connection to provided shapefile data (edit the Test3D -ITM_DATUM.ini appropriately). Restore</p>



		<p>connection to provided .mdb file. Use Manage Data &gt; Images to correct path to provided .ecw image.</p> <p>Two 2D views are displayed. Toggle 3D for right view. Notice image registration is lost - image moves ~100meters WSW.</p>
1-KUYAQL	Import 3D Objects fails using Tridicon City GML model with "System.Out Of Memory Exception"	Import 3D Objects fails using Tridicon City Discover Light City GML model with "System Out Of Memory Exception" in log file. The raw 3D model originally in 3DS format was converted to City GML data format using Tridicon software.
1-JF09SZ	3D Import locks up when importing large GML file	The import utility locks up when importing City GML files bigger than 100 MB. The process works fine for some minutes (FME.exe and Import Utility are both using RAM and CPU). After some time, the FME process no longer uses CPU and nothing happens anymore. When closing the Import Utility dialog by clicking on the "X" button to exit the utility, the FME process in the task manager is still there and starts working again until FME process is finished. It appears in the export folder. Files are missing, and the export is not complete.
1-K1PFVC	Import of KML files fails	The input files indicated that they are UTF-8 character encoded when in fact they are Latin-1 encoded. An option has been added to the Import 3D Objects command to allow the importation of Latin-1 (ISO-8859-1) character encoded input.
1-9NZG2G	Import of KML files fails to display textures in 3D window	There was a problem with donut face conversions. This issue has been fixed.
1-B5TFZ1	Import of KMZ files fails	The input files indicated that they are UTF-8 character encoded when in fact they are Latin-1 encoded. An option has been added to the Import 3D Objects command to allow the importation of Latin-1 (ISO-8859-1) character encoded input.
1-M2R33J	Import from Tridicon random features are missing textures	Features with donut faces sometimes fail to import. This has been fixed.
1-KR01JN	Errors importing large data set from Fort Saskatchewan	The Import 3D Objects command runs to completion, but with errors. When viewing the data in the 3D view, there are no textures on the buildings/structures.
1-XPV9KV	Error Importing 3D Objects with Collada data	Customer is trying to ingest 3D KML/Collada Objects into GeoMedia 3D using the Import 3D Objects Utility. Even if the customer can successful import the KML data, all the 3D objects are discarded.
1-U2T1VD	3D Installs incorrect version of Define Coordinate System	<p>The 2016 version of this utility has a key-in field displayed on the General tab labeled "Coordinate reference system authority" which allows the user to key in an EPSG code to define a CSF.</p> <p>At this point, a look in the c:\program files\common files folder shows no sub-folder labeled 'Intergraph'.</p> <p>If GeoMedia 3D is then installed, there is a new folder: c:\program files\common files\Intergraph. In one of the sub-folders is a new, 64-bit version of the Define Coordinate System File utility. This version of Define CSF is incorrect/out of date. It also changes the default association for .csf files, such that double clicking on a .csf now brings up the 64-bit version.</p> <p>The 64-bit version delivered with GM3D does not have the "Coordinate reference system authority" key-in field.</p> <p>Removing GeoMedia 3D from the system removes the 64-bit executable, but it also removes the application association of .csf files. Double-clicking on .csf file now brings up Windows dialog asking the user what application should be used to open the file.</p>



1-K1N0SA	3D - City GML file displays spatially incorrectly based on EPSG 31467	<p>City GML file displays spatially incorrect based on EPSG 31467 or without EPSG code.</p> <p>City GML data set is attached.</p> <ol style="list-style-type: none"> <li>1) City GML were imported successfully.</li> <li>2) A new table was created in the corresponding warehouse.</li> <li>3) Table contained a meaningful number of records.</li> <li>4) But, the objects are not shown in the correct position (shift of more than 1000km).</li> </ol> <p>The data should be somewhere in southwest Germany. After the import, the data are somewhere near Kazakhstan.</p>
1-LG90HN	Insert Hexagon Point Clouds command Search option fails on some files	<p>To reproduce this problem:</p> <ol style="list-style-type: none"> <li>1) Start GeoMedia in a workspace with at least one read-write warehouse connection.</li> <li>2) From the 3D ribbon bar, run Hexagon Point Clouds-&gt;Insert command.</li> <li>3) Click the Search button.</li> <li>4) Enter "\\hgdfiler\server\serenity\Products\GeoMedia3D\Data" as the search folder.</li> <li>5) Click the Start Search button.</li> <li>6) After the search is completed, notice that four of the files found have the following message in the Projection field: "Unable to create the coordinate system object."</li> </ol> <p>Note: using the Add button to select these HPC files works correctly and retrieves the coordinate system.</p>
1-TCMCIX	Default_Internet.fly can be overwritten	<p>Initially, user has a Geoworkspace with Default_Internet.fly set as base content file. After using Default_Local.fly due to lack of internet connectivity, the Default_Internet.fly file is changed/overwritten in some way - the file gets the current date and does not work anymore. It does not fetch the globe from the Terragate Server. Although internet connectivity is given, it behaves like the Default_Local.fly.</p> <p>To reproduce or see attached document results:</p> <ol style="list-style-type: none"> <li>1) Open a GeoWorkspace with Default_Internet.fly as base content file and internet connectivity (license server).</li> <li>2) Close the GeoWorkspace.</li> <li>3) Disable internet connectivity (need node lock license) and open the GeoWorkspace again.</li> <li>4) Toggle to 3D map window without internet connectivity and Default_Internet.fly set as base content file. The Default_Internet.fly file becomes overwritten.</li> <li>5) Choose Default_Local.fly file as base content file, save, and close the GeoWorkspace.</li> </ol> <p>Reconnect machine internet connectivity again and open the GeoWorkspace. Change the base content file from Default_Local.fly to the overwritten Default_Internet.fly file. See the display result in the attached document.</p>
IG-3200	Problem trying to use Motion Video Analyst while GeoMedia 3D is installed	<p>To reproduce this problem:</p> <p>Start GeoMedia in a workspace with multiple map windows. Click on the title bars of different map windows to change the active map window. Display the Video Center dialog and change the video map window setting.</p> <p>An error message will be displayed indicating that a COM object has been separated from its underlying RCW.</p>



		If GM3D is uninstalled (or its startup command is disabled in the registry), then the workflow steps above will work correctly.
IG-5897	Grid > Calculator does not process 'byte' data type correctly.	Customer provides .mdb file (attached) with a single area feature. Feature attribute 'Is_geo_strength' has 2 possible values (32 & 35) stored as 'byte'. Customer wishes to create a grid with grid cell values equal to this attribute. After displaying customer data, a Grid study area was created around the data. The 'Rasterize Legend Entry' was run on the area feature. Then, the Calculator was used, selecting the 'Geomaterials_Mapunits' feature, the 'Is_geo_strength' attribute, multiplied by 1. The output grid contained only null (fill area) 32 and 35 as the values, but the output was identical to the input grid. Testing with a simplified data set (byte value attributes) that is processed in a similar manner shows the same error occurs, but if the attribute is of type integer, the output reflects the desired attribute values. Also, creating a functional attribute query of the customer's data where the attribute is cast to integer and the same workflow applied to the result produces the desired output. This workaround (using integer type instead of byte) was provided to the customer. The customer changed the attribute to integer in SQL and found the command worked without error.

## DEPRECATED

### WINDOWS 8

The Windows 8.0 and 8.1 operating systems are no longer supported.

## ABOUT US

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