GEOMEDIA WEBMAP

INSTALLATION GUIDE

January 2018
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TECHNOLOGY. Our priority is to deliver products, platforms and solutions that make our customers successful. Hexagon Geospatial is focused on developing technology that displays and interprets information in a personalized, meaningful way. We enable you to transform location-based content into dynamic and useable business information that creatively conveys the answers you need.

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Overview

The GeoMedia WebMap Installation Guide provides information for installing the product: GeoMedia WebMap Professional, GeoMedia WebMap Advantage, or GeoMedia WebMap Essentials.

The diagram below shows the GeoMedia WebMap installation process.

误：The instructions and pictures in this document may appear slightly different from the software depending on your operating system and on which tier of GeoMedia WebMap you are installing (GeoMedia WebMap Professional, GeoMedia WebMap Advantage, or GeoMedia WebMap Essentials).

What is GeoMedia WebMap

GeoMedia WebMap is a web-based map visualization and analysis product that enables you to build a geospatial interactive web site or web service. The GeoMedia WebMap Publisher tool that is a part of GeoMedia WebMap provides a means for you to build such a web site or web service without doing any web programming. Alternatively, all of the programmable objects are available to you in GeoMedia WebMap to build your own site or to add geospatial capabilities to an existing site.

GeoMedia WebMap provides direct, real-time access to geospatial data warehouses of all the geospatial formats supported by GeoMedia. It also provides all of the spatial analysis functionality of GeoMedia. This means that you can use it to build a web site that gives thin clients with nothing more than a web browser; a powerful, dynamic, and open geospatial application previously available only in a desktop application.

Further, it provides a web presentation technology and a fully scalable web architecture. The web presentation technology allows you to generate your maps in either a raster or vector format, suitable for transport and rendering over the web. The scalable web architecture provides a server-side technology for ensuring that your web application will scale to meet the needs of web clients as usage demands increase.
What is GeoMedia WebMap Publisher

GeoMedia WebMap Publisher is a tool that allows users to set up a GeoMedia WebMap web site using GeoMedia, enabling users to publish maps on the web without having to write a single line of code.

The GeoMedia WebMap Publisher Administrator is a custom command that runs in GeoMedia and exports the contents of a GeoWorkspace, including connections and map windows, from GeoMedia to the Publisher server source (database). This service source, which contains data that describes the geographical data, is then read and interpreted by the GeoMedia WebMap Publisher Portal, which presents the maps (and other data).

GeoMedia WebMap Publisher Administrator

The GeoMedia WebMap Publisher Administrator is a GeoMedia custom command that is used to create and configure service that allow the export of data from a GeoWorkspace to a GeoMedia WebMap Publisher Portal, WMS (Map) / INSPIRE View Service, or WFS (Feature) Service.

You can use the WebMap Publisher Administrator to quickly build a GeoMedia WebMap Publisher Portal, WMS (Map) / INSPIRE View Service, or WFS (Feature) Service from your GeoWorkspace through the Publish GeoWorkspace to the Web command. When publishing to a GeoMedia WebMap Publisher Portal, this command automatically creates maps for each of your map windows, displaying your GeoWorkspace on the web just as it is viewed in in GeoMedia. You can also set up parameterized queries, and you can customize legend entries with hotspot actions. When publishing to a WMS (Map) / INSPIRE View Service, or WFS (Feature) Service, this command publishes the active map window in GeoMedia as your web service data.

All of the setup for your application's data is performed directly inside of GeoMedia. With GeoMedia WebMap Publisher, you can work with your web application or service right alongside your GIS data in GeoMedia.

Service Source

The content of a GeoWorkspace, including connections and map windows, is exported to the Service Source. The Service Source acts as data source to the service instances for:

- GeoMedia WebMap Publisher Portal
- WMS
- WFS

The Service Source is defined by using GeoMedia WebMap Publisher Administrator. The GeoWorkspace is defined in the GeoMedia Desktop application. (The GeoMedia Desktop application is not provided with GeoMedia WebMap).
The Service Source uses one of three types of data stores: Microsoft Access, SQL Server, or Oracle. Once the map content is configured in the GeoWorkspace, it can be published to the Service Source; next the Service Source is registered as the source of GeoMedia WebMap services. The service instances instantiated with GeoMedia WebMap read information from the service source and present this information accordingly in the instance.

<table>
<thead>
<tr>
<th>Service Source Type</th>
<th>Used by</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebMap Publisher Portal</td>
<td>WebMap Publisher Portal</td>
</tr>
<tr>
<td>WFS (Feature)</td>
<td>WFS (Feature) Service</td>
</tr>
<tr>
<td>WMS (Map)</td>
<td>WMS (Map) / INSPIRE View Service</td>
</tr>
</tbody>
</table>
Prerequisites for a New Installation

WebGIS eTraining Links

Would you prefer to watch a video? Many of our workflows are showcased in short, to-the-point eTraining modules on the Hexagon Geospatial Community http://community.hexagongeospatial.com. We add new videos regularly, so check back often.

Visit our Community and check out the videos http://community.hexagongeospatial.com/t5/WebGIS/tkb-p/eTWebGIS for our WebGIS products.

Also on our Community, check out our Licensing videos http://community.hexagongeospatial.com/t5/Licensing/ct-p/KS_Licensing.

Raw videos not yet converted to eTraining modules are on the eTraining Incubator https://www.youtube.com/playlist?list=PL3cpeZTQSQxeBFvr1nD8Z4tSCH13lADiw.

Prerequisites for a New Installation

Before you install GeoMedia WebMap:

- Verify that your system meets or exceeds the requirements for GeoMedia WebMap 2018 listed in the System Requirements section of the Release Guide document. This document is available from the Hexagon Geospatial Setup Manager (see: Hexagon Geospatial Setup Manager) or GeoMedia WebMap Welcome Page (see: Welcome Page).

- Verify that you have Microsoft® .NET Framework 4.5.2 Full Package or higher installed on your system. In case version 4.5.2 or higher of Microsoft .NET Framework is not installed yet on the server, it will be installed automatically by product setup prior to WebMap installation. See Microsoft documentation for more information on installing and using .NET.

- If you expect to use GeoMedia WebMap with MGE, MGDM, or ODBC Tabular projects, or with CAD data that has database attribute linkages, install the Open Database Connectivity (ODBC) drivers that are appropriate for the database-management systems you use with your data. You can get the appropriate ODBC drivers from your database system vendor.

- Verify whether Internet Information Services (IIS) 7.x or 8.0 and the following features are installed:
  - IIS-StaticContent
Prerequisites for a New Installation

- IIS-WebServerRole
- IIS-Metabase
- IIS-WindowsAuthentication
- IIS-ASPNET
- IIS-URLAuthorization
- IIS-ISAPIExtensions
- IIS-ISAPIFilter
- WCF-HTTP-Activation
- MSMQ-Server

To use the Oracle® Object Model data server, you must load the Oracle client software before installing GeoMedia WebMap.

- Verify that you have administrator privileges on the system where you want to install GeoMedia WebMap.

Notice that previous versions of GeoMedia WebMap are not uninstalled automatically from the server once you run setup of current product version. You are not be able to install this version over a previous version, thus, make sure that all previous versions of WebMap product are already uninstalled from the server.

To check the version of GeoMedia WebMap currently installed, go to Control Panel and use standard procedures to view the version number.

GeoMedia WebMap 16.5 (including GeoMedia WebMap Publisher) is compatible with GeoMedia desktop version 16.5

IIS 7 Windows Authentication role needs to be installed before configuring the product.

Windows® Identity Foundation (WIF) is a framework for building identity-aware applications and is a required prerequisite for Geospatial Portal and for GeoMedia WebMap Publisher Portal. WIF may be downloaded from http://www.microsoft.com/en-us/download/details.aspx?id=17331. For Windows Server 2008 R2, select Windows6.1-KB974405-x64.msu for download. Downloading WIF is not necessary if you are using Windows Server 2012 or later as it is included with .NET 4.5.
Windows Server 2012 Additional Requirements

The "Server with a GUI" installation option is required. Specifically, the Windows Server 2012 "Server GUI Management Infrastructure" component *MUST* be installed (this provides MSVBVM60.dll and DAO which are required by GeoMedia WebMap).

The Windows Server 2012 "Server GUI Shell" sub-component is optional (this provides "Explorer.exe").

Also, if down-grading Windows Server 2012 from GUI to no-GUI, you should uninstall only the "Server GUI Shell" component. Uninstalling "Server GUI Mgmt Infra" also removes DAO.

⚠️ It is highly recommended not to install the GeoMedia WebMap on a system where Domain Controller (DC) is installed. Installing GeoMedia WebMap on DC carries the risk of unknown vulnerabilities.
Prerequisites for Upgrade from Previous Version

If GeoMedia WebMap is the only Hexagon Geospatial server product[*] installed, then uninstall the old version before you install the 2018 version.

If you have any other Hexagon Geospatial server products[*] installed on the same machine, you must uninstall those products before installing GeoMedia WebMap 2018. After installing the GeoMedia WebMap 2018, install the other 2018 server products.

[*] Hexagon Geospatial server products are: ERDAS APOLLO Essentials/Advantage/Professional, GeoMedia WebMap Essentials/Advantage/Professional, Geospatial SDI, Geospatial Portal.

Be aware that some of the configuration elements prepared in the Administration Console, specifically “Maps & Workspaces” and “Search Configuration” may be lost when removing the Hexagon Geospatial 2015 (prior to EP06) products containing the Geospatial Portal component. Therefore before uninstalling the GeoMedia WebMap 2015 run the Administration Console 2015 Configuration Update executable and follow the instructions on the screen in order to preserve the configuration elements when upgrading to version 2016. After running the tool, you can proceed with the uninstallation the 2015 versions of software and install the 2016 release. The configuration elements will be preserved in the 2016 installation.

To download the Administration Console 2015 Configuration Update tool click here.

The products that require the use of Administration Console 2015 Configuration Update tool include the ones from 2015 release with patch number prior to EP06 that are on the following list:

- Geospatial Portal
- GeoMedia WebMap (all tiers)
- ERDAS APOLLO (all tiers)

WMS, WFS, WFSG and WMPS service instances prior to 16.5 version must be upgraded in order to work.
Installing GeoMedia WebMap

1. From your delivery media, right click Setup.exe and select Run as administrator.
2. In the Software list box, click the plus sign (+) to the left of GeoMedia WebMap to expand the product list.
As you hover your cursor over an entry in the **Software** list, you see a descriptive tooltip.
To install GeoMedia WebMap Essentials, GeoMedia WebMap Advantage, or GeoMedia WebMap Professional, select **GeoMedia WebMap** from the list.

![Hexagon Geospatial Setup Manager Image]

<table>
<thead>
<tr>
<th>Version</th>
<th>Status</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.5.0000.00021</td>
<td>![Install Icon]</td>
<td>Install</td>
</tr>
</tbody>
</table>

**Release Guide**
**EULA**
**Installation Guide**
**Support**
**Patent** [www.intergraph.com/patents](http://www.intergraph.com/patents)
3. *Optional:* Click a link to the right of the **Software** list box to open and review documentation as required for the selected product.

4. In the **New Software** box, click **Install** under **Action**.
   The installation process begins for the selected software by displaying the splash screen and by starting the InstallShield Wizard.

   Once software is installed, you can also **Modify**, **Repair**, or **Remove** the selected software.

5. Click **Next** on the InstallShield Wizard Welcome screen.
6. Read and accept the terms in the license agreement, and then click **Next** to display the **Custom Setup** dialog box.
7. Select the appropriate product mode from the list. By default, **GeoMedia WebMap Essentials** is selected. If you want to install a different product mode, click the down arrow beside the product you want to install, and then select the **This feature will be installed on local hard drive** option.

The icon changes to show that the product was selected.

Some common components of GeoMedia WebMap such as the Administration Console are always installed to the C:\ drive, even if you select another drive for the installation directory.
8. *Optional:* Click **Change** to change the installation folder on the **Change Current Destination Folder** dialog box, and then click **OK**.

OR

Continue to the next step without changing the destination folder.

9. Click **Next** to continue with the installation.
10. Click **Install**.

![Image of the GeoMedia WebMap installation prompt]

*Ready to Install the Program*

The wizard is ready to begin installation.

Click Install to begin the installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
11. When the product is installed, click **Finish**.
12. Configure the newly installed product by using the GeoMedia WebMap Configuration Wizard as described in the next section: *Configuring the GeoMedia WebMap*

![GeoMedia WebMap Configuration Wizard]

*Welcome to the GeoMedia WebMap Configuration Wizard*

This wizard configures important information required by GeoMedia WebMap. Click Next to begin.

- If you do not configure the product, you will be prompted to do so before you can start the product. For more information about Configuring GeoMedia WebMap, see the *Configuring the GeoMedia WebMap* topic.
Configuring the GeoMedia WebMap

After installation is complete, if the product needs to be configured then the GeoMedia WebMap Configuration Wizard automatically starts. The Wizard allows you to configure more than one application at the same time. Alternatively, you can configure the product from Hexagon Geospatial Setup Manager by selecting Configure, or you can run the GeoMedia WebMap Configuration Wizard at any time from the Start menu.

- IIS 7 Windows Authentication role needs to be installed before configuring the product.

- If you do not configure the product, you will be prompted to do so before you can start the product.
1. Click **Next** on the Configuration Wizard Welcome screen.
A list of features is displayed. If any of the features are shown as missing or not enabled, click **Configure features**.

If you clicked **Configure features**, select the features that are missing from the dialog box that is displayed, and click **OK**.
2. Wizard checks if the license for GeoMedia WebMap is available. If a valid license was not found click **Configure License** to activate your license. See *Licensing GeoMedia WebMap (and Publisher Administrator)* (on page 41) for more information.
3. The **DCOM configuration information** screen allows you to set the DCOM settings. You take or change the default values for the **Web Site for DCOM Configuration** and **WebMap Log Directory** fields. Then, select the values that you want for the **WebMap Publisher Projects Directory** and **WebMap Publisher Data Directory**, and click **Next**.

You can change these values later by running the Administration Console.

The GeoMedia WebMap Configuration Wizard automatically sets the DCOM settings but if you want can set the DCOM settings manually. To learn more see: *Setting Default COM Security* (on page 55)
4. Click **Next**, and then specify the **Cache Virtual Directory Settings** for GeoMedia WebMap. If you want to skip these settings for now and define them later by using the Administration Console, check the **Skip Cache Virtual Directory Settings** option.
5. If you want to add a virtual directory, click **Add**.

![Add Virtual Directory](image)

Type the **Name**, and type or browse for the **Path** of the virtual directory. Click **OK**.

6. If you want to edit an existing virtual directory, click **Edit**, and the following dialog box is displayed:

![Add Virtual Directory](image)

You can edit the **Name** or **Path** of the virtual directory.
7. Click Next, and specify the **GWMShare Virtual Directory Settings**. GWMshare is a share you can use for general purposes for your web sites. For SVG and GWM Vector output, it is used as the default location for client (and some server) source files.

If you want to skip these settings for now and define them later by using the Administration Console, check the **Skip GWMShare Virtual Directory Settings** option.
8. Click **Next**, and then specify the **Mime types** that are required for GeoMedia WebMap. You will need to add the MIME types for the various file types (xmlz (text/xml), svg (image/svg+xml), cgm (image/cgm), xsd, wsdl, and so forth) you plan on serving your clients using GeoMedia WebMap.

![GeoMedia WebMap Configuration Wizard](image)

The following mime types were added in the IIS:

- svg (image/svg+xml)
- svgz (image/svg+xml)

Select the mime types required for WebMap that need to be added to IIS

- [x] xmlz (image=text/xml)
- [x] cgm (image/cgm)
9. Click **Next**. Specify the **Application Name** for the **Administration Console**, or take the default name.

10. When you have specified the **Application Name**, click **Next**.

Decide whether you want to enable OpenStreetMap as your default map tile source. If you select **Yes**, all Geospatial Portal instances will be enabled to use **OSM map tiles** [http://tile.openstreetmap.org](http://tile.openstreetmap.org).
By selecting **Yes**, you confirm that your use of OSM map tiles will strictly conform to the Tile Usage Policy described at http://wiki.openstreetmaps.org/wiki/Tile_usage_policy. If you will not or cannot strictly conform to the Tile Usage Policy, do not select **Yes**.

The names and terms of use for other map tile providers are listed in the configuration file of this software for your reference. OpenStreetMap is open data, licensed under the Open Data Commons Open Database License (ODbL) (http://opendatacommons.org/licenses/odbl) (http://www.openstreetmap.org/copyright).
1. A **Summary** displays, as shown in the example below.

![GeoMedia WebMap Configuration Wizard](image)

2. If you want to change any of your settings, click **Back**. Otherwise, click **Finish**.
Click **Close**.
You can re-run the **Configuration Wizard** at any time by selecting **GeoMedia WebMap Configuration Wizard** from the **GeoMedia WebMap** product folder on the **Start** menu.
If the Administration Console is already installed in the system, you can leave an existing Administration Console or recreate it by selecting an appropriate option as shown in the picture below. If you choose the **Recreate** option, the previous version will be removed before the new version is installed.

**Info:** Administration Console GUI Instance will not be changed.
Registering the Publisher Administrator in GeoMedia

GeoMedia WebMap setup also installs GeoMedia WebMap Publisher, which allows you to set up a GeoMedia WebMap web site using GeoMedia WebMap and to publish maps on the Web without having to write a single line of code. You can alternatively install GeoMedia WebMap Publisher separately on a computer that does not have GeoMedia WebMap installed on it, but does have a GeoMedia desktop product installed on it.

If you install GeoMedia WebMap after installing a GeoMedia desktop product, registration should be done automatically and you would not need to select this command.

The Register Administrator in GeoMedia command registers the Publisher Administrator in the GeoMedia applications that are installed on the system. From the Publisher folder, select the Register Administrator in GeoMedia command.

The list displays all of the GeoMedia applications on the system. You can check an application to register the Administrator in that application, or you can uncheck an application to unregister the Administrator from that application. After you have made your selections, click OK to register and/or unregister the Administrator according to your selections.

You can run this utility at any time to register or unregister the Administrator in your GeoMedia applications. You do not need to run this utility to unregister the Administrator in your applications before uninstalling GeoMedia WebMap as this is done automatically.

Publisher Administrator users are required to launch GeoMedia by using “Run as Administrator.”
Licensing GeoMedia WebMap (and Publisher Administrator)

Every time you start GeoMedia WebMap, it searches for a license. If it does not find a license, the application cannot be run. It is necessary to activate a license for GeoMedia WebMap in order to run the application. The license activation is carried out in the GeoMedia WebMap Configuration Wizard step.

1. If a valid license was not found, click the **Configure License** button
2. Provide an Activation ID

Welcome to the Hexagon Geospatial licensing wizard.

This wizard will help you to install license keys on your computer. Please enter the required information below to license this software.

Activation ID:

Click the link below to get an Activation ID:
https://hexagongeospatial.force.com/licensingportal
3. Click **Next**. Your license will be activated and you can continue to configure GeoMedia WebMap.

License can be also activated with **Hexagon Geospatial License Administration**. The **Hexagon Geospatial License Administration** utility lets you manage all of the software licenses that are available for your machine to review in order to run the GeoMedia WebMap application that is installed on your machine.

**Activating License(s) with Hexagon Geospatial License Administration**

1. Run **Hexagon Geospatial License Administration** utility.
2. Select the **License > Activate License(s)** menu command to open the **Activation Licenses** window.

3. Click **Add** button to enter Activation ID. Click **OK** and make sure the box next to the activation key you just pasted is checked.

4. Click **Activate** button.

5. GeoMedia WebMap should now run because you have an activated license.

- Visit our **Licensing Portal** [https://www.hexagongeospatial.com/resources/support/licensing](https://www.hexagongeospatial.com/resources/support/licensing) Web site to generate or to view your licenses. There are help topics on the **Licensing Community** [https://community.hexagongeospatial.com/t5/Licensing-Knowledge-Base/tkb-p/KS_Licensing](https://community.hexagongeospatial.com/t5/Licensing-Knowledge-Base/tkb-p/KS_Licensing) page to assist you if you have difficulty in generating or managing your license.

- For more information and help topics on the **Hexagon Geospatial License Administration** utility, refer to the **Geospatial Licensing Help**.
Verification of Installation of GeoMedia WebMap and Publisher Administrator

After installing and configuring GeoMedia WebMap, it is strongly recommended to create and verify the installation and configuration process.

Welcome Page Overview

Hexagon Geospatial Portfolio Welcome Page

After successful product installation you can see a Geospatial Product Portfolio welcome page using your web browser. With the Geospatial Portfolio welcome page you can:

- View the list of Hexagon Geospatial Portfolio products installed on your machine. You can open a particular product’s welcome page by clicking its links under Installed products.

- Access the additional tools, demos, and applications such as Administration Console or plugins that are included with a release. These hyperlinks are grouped under the Tools & Applications section.

- Access to the related miscellaneous sites through the provided hyperlinks.

- Open and read documentation included with a release.

To open a Geospatial Product Portfolio welcome page:

1. Open your favorite web browser
2. In the web browser address field type: http://<server_name>/geospatial, and then press ENTER.

The Hexagon Geospatial Portfolio welcome page is displayed automatically after successful GeoMedia WebMap installation and configuration.

GeoMedia WebMap Welcome Page

In addition to the Hexagon Geospatial Portfolio welcome page (welcome page for the entire Geospatial Server) the separate welcome page for installed GeoMedia WebMap only is available.
Tools, demo applications, GeoMedia WebMap documentation included with this release and miscellaneous extensive documentation and web sites are accessible through the hyperlinks in particular sections of GeoMedia WebMap Welcome Page.

**To open a GeoMedia WebMap Welcome Page:**

1. Open your favorite web browser.
2. Display the **Hexagon Geospatial Portfolio Welcome Page.**
   a. In the web browser address field type: `http://<server_name>/geospatial`, and then press ENTER.
3. Click the link for GeoMedia WebMap under the Installed products section.

   If the Hexagon Geospatial welcome page has been displayed automatically after installation process, go to step 3.

**OR**

1. Open your preferred web browser.
2. In the web browser address field type: `http://<server_name>/GeoMediaWebMap/

**Running Administration Console**

**Administration Console** is a web-based application used to manage the Geospatial Server products including GeoMedia WebMap. It provides a single, unified, consistent tool for configuring the instantiated services and portals and to manage GeoMedia WebMap settings.

**In order to run Administration Console:**

1. Open your web browser.
2. In the Web browser address field provide the http administration address (for example, `http://<server_name>/AdminConsole`).
3. Press ENTER.
4. Provide the server credentials in case the authentication dialog box appears.
5. The **Administration Console** will be run in the web browser window.

**OR**

1. Click **Administration Console** link provided on the Geospatial Server product welcome page.
The Administration Console will be run in new web browser tab.

Test Configuration

The Administration Console allows you to test your GeoMedia WebMap configuration settings. The configuration test gives you the ability to run some basic tests in order to determine if the WebMap Service and System Security Settings are configured properly.

To run the configuration test:

1. Go to the Engines Management > GeoMedia WebMap > Configuration Test section of Administration Console.
2. Click Confirm Settings to have the software check to see that the Cache directory is properly configured. If errors are encountered, they are displayed. If the cache setting is valid, a confirmation message is displayed.
3. Click Start Service to start/restart the WebMap service. If any errors occur when restarting the service, they are displayed. If no errors are encountered, a success message is displayed and the Generate the test map button is enabled.
   Optionally: Select a website in case the GeoMedia WebMap configuration does not use default web site.
4. Click Generate Map to generate a test map in a new Web browser tab. You can select the image (map) format from the Output type drop-down list.
5. Click Cleanup if the map was generated successfully. The temporary files will be deleted.

If errors occur while running the test, error messages and troubleshooting tips, as applicable, are displayed.

The configuration test processing is based on the security settings (system permissions) of the currently logged-in user (the system INTERACTIVE user), if running IIS, the IUSR account, and the GeoMedia WebMap Service Log On account.
Modifying Repairing or Removing GeoMedia WebMap

Verifying the Installation of Publisher Administrator

GeoMedia WebMap setup also installs GeoMedia WebMap Publisher Administrator. In order to check whether GeoMedia WebMap Publisher Administrator has been installed and registered (registration process is described in the Registering the Publisher Administrator in GeoMedia topic) do the following:

1. Run GeoMedia.
2. Select the Blank GeoWorkspace option, and click OK (or open an existing GeoWorkspace).
3. Go to the WebMap tab.
4. Click the Administrator command.
5. Click Create and then create a testing service source of any type (WebMap Publisher Portal; WFS (Feature); WMS (Map)). Follow the wizard instructions on screen to create a service source.
6. Select an already created service source from the list and click Open. Verify whether the GeoMedia WebMap Publisher Administrator opens.
7. Close the GeoMedia WebMap Publisher Administrator.

Modifying Repairing or Removing GeoMedia WebMap

Changing or Removing a GeoMedia WebMap Configuration

The GeoMedia WebMap Configuration Wizard lets you change a configuration or remove a configuration. If you uninstall GeoMedia WebMap, the configuration is removed automatically. You can also manually rerun the configuration wizard for that application and remove the configuration. If multiple applications are configured, you can remove the configurations in any order. And, you can start the removal of an application's configuration before the previous configuration removal is complete.

Note that you cannot change your licensing configuration from here. To change your licensing, you need to run the Intergraph License Administrator.

To change or remove a GeoMedia WebMap configuration using Setup Manager:

1. From the delivery media, run Hexagon Geospatial Setup Manager (Setup.exe). If you are running Vista or Windows 2008 systems, right-click and select Run as administrator.
2. Select GeoMedia WebMap from the Software list box.
3. In the Configuration box Action list, click Modify, Repair, or Remove.
Modifying
Repairing or Removing GeoMedia WebMap

4. Follow the prompts, and then click Finish.

   The status of the configuration is indicated by one of the status icons.

To change or remove a GeoMedia WebMap configuration using the Configuration Wizard:
1. From the Start menu, navigate to the configuration wizard for the application you want to remove.
2. Run the wizard and follow the prompts to edit or remove the configuration.
3. Click Finish.

Removing GeoMedia WebMap

You can remove GeoMedia WebMap with either Hexagon Geospatial Setup Manager or Windows Control Panel; however, Hexagon Geospatial Setup Manager is the recommended method.

To remove GeoMedia WebMap with Hexagon Geospatial Setup Manager:
1. From your delivery media, right click Setup.exe and select Run as administrator.
2. In the Hexagon Geospatial Setup Manager Software list box, select the product you want to remove.
3. In the Installed Software box Action list, click Modify, repair, or remove.
4. Follow the prompts to remove the product or bundle.

To remove GeoMedia WebMap with Control Panel:
1. From the Start menu, navigate to Control Panel.
2. Select Programs > Uninstall a program.
3. On the Uninstall or change a program dialog box, select the product to remove, and then click Uninstall.

Removing Previous Versions of Products

You can remove previous versions of GeoMedia WebMap with the Windows Control Panel.

To remove previous versions of GeoMedia WebMap with Control Panel:
1. From the Start menu, navigate to Control Panel.
2. Select Programs > Uninstall a program.
3. To remove a major release version of a product, on the Uninstall or change a program dialog box, select the product to remove, and then click Uninstall.
Modifying Repairing or Removing GeoMedia WebMap

OR

To remove a minor release version of a product, on the Uninstall or change a program dialog box, select View installed updates, select the product to remove, and then click Uninstall.

If your software is not listed, you have a major release only. If your software is listed, you have a minor release.

Modifying GeoMedia WebMap

To modify GeoMedia WebMap using Hexagon Geospatial Setup Manager:

1. From the delivery media, run Setup.exe.
2. In the Action column of the Installed Software dialog box, click the Modify, repair, or remove link.
3. Click Next on the GeoMedia WebMap installation wizard Welcome page.
4. On the Program Maintenance screen of the GeoMedia WebMap installation wizard, select the Modify option; then press Next and follow the prompts.

Repairing GeoMedia WebMap

To repair GeoMedia WebMap using Hexagon Geospatial Setup Manager:

1. From the delivery media, run Setup.exe.
2. In the Action column of the Installed Software dialog box, click the Modify, Repair, or Remove link.
3. Click Next on the GeoMedia WebMap installation wizard Welcome page.
4. On the Program Maintenance screen of the GeoMedia WebMap installation wizard, select the Repair option; then press Next and follow the prompts.
Getting the Installation Status

You get the installation status of your software from the Hexagon Geospatial Setup Manager (Setup.exe).

From your delivery media, run the Hexagon Geospatial Setup Manager (Setup.exe). Hexagon Geospatial Setup Manager displays the status of the applications you have installed.
Hexagon Geospatial Setup Manager – Overview

**Hexagon Geospatial Setup Manager** (Setup.exe) is a tool that you use to install and maintain Hexagon Geospatial software. Once the software is installed, you can also use the tool to perform the following software maintenance tasks:

- Configure and Modify (re-configure)
- Repair
- Remove

If the following options are available for your site, you can also use Hexagon Geospatial Setup Manager to do the following:

- Run configuration processes
- Install complementary software

The Hexagon Geospatial Setup Manager dialog box opens when you double click Setup.exe to start the installation process.

**Hexagon Geospatial User Manager User Interface**

**Dialog Box Options**

**Software**

The **Software** box displays the list of products and product bundles that you can install. Select these one at a time to install or update software. When you make a selection, the user interface updates to display the current status of the software installation, which is reflected in the **New Software** or **Installed Software** list.

**Version**

To the right of the **Software** box is the **Version** number of the selected product.

**Documentation Links**

Listed under the **Version** number are links that provide access to information about the selected software. The **Support** link takes you directly to the SG&I Support Portal (https://support.hexagonsafetyinfrastructure.com/infocenter/index?page=home). If a document is not available for the selected software, the corresponding link is disabled.
New Software or Installed Software

If no software products have been installed, the **New Software** box is displayed so you can install new software. Once software is installed, the label of this box changes to **Installed Software**. The **Version**, **Status**, and **Action** columns are explained below:

<table>
<thead>
<tr>
<th>Version</th>
<th>Status</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>If you are installing software, this field displays the version available for installation. If you are modifying, repairing, or removing software, this field displays the version currently installed on your computer. This is a read-only field.</td>
<td>Displays an icon reflecting the status of the software you selected. See the <strong>Icons</strong> section below for more information.</td>
<td>The links displayed under <strong>Action</strong> change to reflect what actions you can perform during the installation or update process.</td>
</tr>
</tbody>
</table>

Configuration

![Lightbulb](image)

This box may not be implemented for all product installations.

If additional configuration steps are required for your software, the **Configuration** box might open after installation is complete. Or, you can **Select** the application from the list and click **Configure**.

Complementary Software

Complementary software is software that is useful for or needed to run with your Hexagon Geospatial software.

**Complementary Software** is available for your site only if an application developer creates it.

Icons

The following icons appear in the **Status** list. These icons and their corresponding tooltips change to reflect the current status of the installation or update process.
<table>
<thead>
<tr>
<th>Icon</th>
<th>New or Installed Software</th>
<th>Configuration</th>
<th>Complementary Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Blue Circle]</td>
<td>Indicates the selected software is not installed. Or Indicates an installation failure. Check the Event Log for information.</td>
<td>Indicates the installed application of the selected software is not configured. Or Indicates a configuration failure. Check the Event Log for information.</td>
<td>Indicates the complementary software is available but is not installed. Or Indicates an installation failure. Check the Event Log for information.</td>
</tr>
<tr>
<td>![Gray Square]</td>
<td>Installation is in progress.</td>
<td>Configuration is in progress.</td>
<td>Installation is in progress.</td>
</tr>
<tr>
<td>![Green Checkmark]</td>
<td>Installation is successful.</td>
<td>Configuration is successful.</td>
<td>Installation is successful.</td>
</tr>
</tbody>
</table>
Setting Default COM Security

The GeoMedia WebMap Configuration Wizard automatically sets the DCOM settings. You can follow the steps below if you want to set the DCOM settings manually:

1. Select **Control Panel > System & Security > Administrative Tools > Component Services**.
2. From the **Component Service** dialog box, use the tree view to select **Console Root > Component Services > Computers > My Computer**.
3. With **My Computer** selected and highlighted, select **Action > Properties** from the menu.
4. Select the **COM Security** tab. In the **Access Permissions** group box, select the **Edit Default** button.
5. As applicable to your system, verify or add the following user names/accounts to the list for **Access Permissions**:
   - ASP.Net Machine Account `<Computer_name>\ASPNET`<br>
   - **INTERACTIVE**
   - Internet Guest Account **IUSR** or **IUSR_<Computer_name>**
   - Network (Note: Some versions may instead have an IIS_WPG or Network Service(s) account)<br>
   - **SYSTEM**
   - Administrators

Make sure **Permissions** for each account are set to **Allow Local Activation**.

To add these users to the list, do the following:
   - Select the **Add** button to display the **Select Users, Computers or Groups** dialog box.<br>
   - From this dialog box, select the **Locations** button.<br>
   - On the **Locations** tree view, select your computer's name and then select OK to dismiss the dialog box.<br>

To multi-select these accounts, do the following:
   - Select the **Advanced…** button.<br>
   - Confirm that your local computer is shown in the **From this location**: field
Troubleshooting Installation Using Logs - WebMap

- Select the Find Now… button
- Select the account Name(s) listed in step 5 above

To add these accounts individually, do the following:
- In the Enter the object names to select (examples) field, enter the account name, such as INTERACTIVE.
- Select the Check Names button to verify that you’ve entered a valid user name.
- If the user name is valid, select OK to dismiss the dialog box.

Note regarding the IUSR account: If applicable (the Local and Remote options are displayed), when viewing the list of accounts in the Access Permissions group box, Permissions for the Internet Guest Account should be set to Allow both Local and Remote Access.

6. Next, on the COM Security tab, select the Edit Default button in the Launch (and Activation) Permissions group box.

As applicable to your system, the following accounts should be added to the list for Launch Permissions using the procedures outlined in the previous step:
- ASP.Net Machine Account <Computer_name>\ASPNET>
- INTERACTIVE
- Internet Guest Account IUSR or IUSR_<Computer_name>
- Network (Note: Some versions may instead have an IIS_WPG or Network Service(s) account)
- SYSTEM
- Administrators

Make sure Permissions for each account are set to Allow Local Launch and Local Activation. For the IUSR account (and if applicable, the IWAM account), Permissions should also be set to Allow Remote Launch and Activation.

Troubleshooting Installation Using Logs - WebMap

When an installation fails, there are a few options to get more information:
- Create a Log file for the installation -- This can be requested by using a registry key or by specifying command-line parameters.
Examine (and possibly Export) the Application Event Log -- This gives you access to OS events generated during installation and configuration of a product.

You can generate MSI (Windows Installer) and Application Event Logs.

Turning on MSI Logging from the registry, rather than from the command line, is recommended.

Enabling Microsoft Windows Installer (MSI) Logging

You can enable MSI logging for every installation action that happens on your system.
1. From the Microsoft Windows Start menu, click Run, and type regedit to open the Registry Editor.
2. Find or add the following subkey Installer in the Windows registry: HKEY_LOCAL_MACHINE > Software > Policies > Microsoft > Windows > Installer.
   a. Insert Debug as a REG_DWORD, and set its value to 7.
   b. Insert Logging as a REG_SZ, and set its value to voicewarmup.

Once the registry strings above have been created, every time you install, repair, modify, or remove, a log file will be created in the directory identified by your TEMP environment variable.

Creating an MSI Log for one specific installation

Turning on MSI Logging from the command line is a last choice effort.

It is highly preferred to use the registry key above to enable MSI logging because it allows you to use your standard install, uninstall, and repair workflows. The workflow below should only be used in special circumstances, for example, if you are not allowed to update the system registry, or you really only want to create the one MSI log, and you are confident you can reproduce your exact problem on the command line.

You can request a log for one specific installation if you know the specific command-line parameters that are required to reproduce your problem. You must be quite careful because entering wrong parameters (like omitting the ACCEPT_EULA switch required by Install in Silent Mode process) can cause your command-line installation to fail for reasons unrelated to the problem you are investigating.
Troubleshooting Installation Using Logs - WebMap

Logging the Installation of Product XYZ

```cmd
msiexec /I "C:\msi\XYZ.MSI" /A "C:\LogInstallation\logs\InstallationXYZ.log" /i "C:\msi\XYZ.MSI ACCEPT_EULA=1" /v "C:\LogInstallation\logs\InstallationXYZ.log" /i "C:\msi\XYZ.MSI ACCEPT_EULA=1"
```

Logging the Patching of a Product that already Has Been Installed

It is also possible to log the installation of an MSP (a patch or hot-fix).

```cmd
msiexec /l*v MyProdMSP.log /p MyProduct.msp REINSTALL=ALL REINSTALLMODE=omus /qb
```

Viewing and Exporting Application Event Log Information

Installation and Configuration of software products generates some events that are seen by the Microsoft Windows Operating System itself. This type of logging is always available – you do not need to enable it. You can find it by launching the Event Viewer, and can save the events out for someone else to analyze.

1. Select **Start > Search programs and files**, and then type `eventvwr` to start the Event Viewer.
2. On the left, select **Windows Logs > Application**.
3. On the right, click **Save All Events As**.
4. Save the file as type **Event Files (*.evtx)**.

Hexagon Geospatial Setup Manager Logging

As noted above, logging from the registry key is highly preferred. In the case where logging from the command line is necessary, try one of these examples:

```cmd
Setup.exe /s {SoftwareProductName} /ni ACCEPT_EULA=1 /L* MyLogFileName.log
```

where `{SoftwareProductName}` is one of the Installable Applications under SoftwareProductName identified in **Installable GeoMedia WebMap Names Table** in Appendix A.

Tips for Resolving Issues in Installation Log

Component Based Servicing Log

The Component-Based Servicing Log can be helpful if you get a message like this in your Installation log:
MSI (s) (44:14) []: Assembly Error (sxs): To get more diagnostic information, enable the Component Based Servicing Log.

The Component Based Servicing Log is located in %windir%\logs\cbs\cbs.log (C:\Windows\Logs\CBS)

To get the cbs log you may first need to set:

HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Component Based Servicing EnableLog=dword:00000001

Windows Installer SDK Tools

Wilogutl.exe assists the analysis of log files from a Windows Installer installation, and it displays suggested solutions to errors that are found in a log file. You can use it to debug installation, repair, and remove a product.

How to Use Google Maps and Microsoft Bing Maps API Keys

To use the Google Maps connector in your GeoMedia WebMap site, you must sign up for a Google Maps API key at this location: [http://code.google.com/apis/maps/signup.html](http://code.google.com/apis/maps/signup.html). You must have a different key for each domain name on which you will host a Geospatial Portal site using the Google Maps connector, and you must enter the base URL that your site(s) will be hosted on when you request the key from the Google Web site. This key will then have to be included in the portal Web.Config configuration file.

To use the Google Maps connector, you must also agree to and abide by the Google Maps API Terms of Service found at this location: [http://code.google.com/apis/maps/terms.html](http://code.google.com/apis/maps/terms.html). Your use may require the purchase of a software license.

To use the Microsoft Bing Maps connector in your GeoMedia WebMap site, you must agree to and abide by the Microsoft Bing Maps licensing and pricing terms found at this location: [http://www.microsoft.com/maps/product/licensing.aspx](http://www.microsoft.com/maps/product/licensing.aspx). Your use may require the purchase of a software license.
Technical Support and Information

Hexagon Geospatial® provides several ways to access information and to contact support, including self-help tools, Hexagon Geospatial Community, Hexagon Geospatial Developer Network, and phone support.

**Hexagon Geospatial Community**


**Blogs**

Get the latest on our technologies: from what engineering is working on, to news about the latest APIs, as well as developer tips and tricks.

**Discussions**

Discuss topics with other Hexagon Geospatial Product pioneers and experts.

**Knowledge and Support**

Learn more about our products, find answers, get the latest updates, and connect with other Hexagon Geospatial Community members, or get support from our support teams [http://www.hexagongeospatial.com/support](http://www.hexagongeospatial.com/support).

**Developer Network**

Share technical information with other developers who use Hexagon Geospatial's SDKs and M.App Portfolio. To get full access to the Developer Network you need to purchase a Hexagon Geospatial Developer Network (HGDN) Subscription. With HGDN, you get broad access to select Hexagon Geospatial development products in one place. You will also get access to powerful toolkits, including currently published APIs and SDKs. You also get access to in-depth resources such as tutorials, collaborative samples, and web-based training.


**eTraining**

Short, to-the-point videos showcasing specific workflows for many tasks and organized by product. We add new videos constantly, so check back often.

**Tutorials**

Written, step-by-step instructions for our most asked-about tasks. Includes helpful hints and introduction material to get you started with our products.
Professional Service Team

For support phone numbers or to submit sales inquiries, general questions, and comments, click the appropriate tabs at the top of the Hexagon Geospatial Support (http://www.hexagongeospatial.com/support) page.
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