



GEOMEDIA VPF

INSTALLATION GUIDE

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PARTNERS. As an organization, we are partner-focused, working alongside our channel to ensure we succeed together. We provide the right platforms, products, and support to our business partners so that they may successfully deliver sophisticated solutions for their customers. We recognize that we greatly extend our reach and influence by cultivating channel partner relationships both inside and outside of *Hexagon* (<http://www.hexagon.com>).

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Overview of GeoMedia® Installation

The *GeoMedia VPF Installation Guide* in conjunction with the *GeoMedia Installation Guide* provides information for installing the product.

Before you Install GeoMedia VPF

- Verify that your system meets or exceeds the requirements for GeoMedia VPF 2018 listed in its *Release Guide* document.
- Verify that you have administrator privileges on the system where you want to install GeoMedia VPF.
- Verify that you have GeoMedia Desktop Advantage or Professional tier 2018 installed and properly licensed on your system.
- *Major Release:* You must remove previous versions of GeoMedia VPF before installing the current version. You will not be able to install this version over a previous version. Open Control Panel and use standard procedures to remove any previous versions of the product.
- *Minor Release:* If you remove the major release before you install a minor release, setup will do a full install. If you do not remove the major release before you install a minor release, setup will upgrade your existing software.

GeoMedia VPF Document Set

The following documents are available with the product:

Document	Description
GeoMedia VPF Help	A CHM file that contains instructions for using tools and commands.
GeoMedia VPF Release Guide	A PDF file that lists the enhancements, defect fixes, and the supported software and hardware configurations for the current release.
GeoMedia VPF Installation Guide	A PDF file that contains instructions for installing the product.

To access these documents, navigate from the **Start** menu to **Hexagon GeoMedia VPF**. You can also access them from the links on the **Hexagon Geospatial Setup Manager** dialog.

In order to view or print the PDF documents on Windows 7, you must have installed Adobe® Acrobat® Reader™ (version 4.0 or higher). If you do not already have the Adobe Acrobat Reader software installed



on your computer, you can obtain a free copy of the latest version (in the language and operating system of your choice) at the Adobe® web page.

Overview of Hexagon Geospatial Setup Manager

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:

- Modify
- Repair
- Remove
- Run configuration processes

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

- Install complementary software
- Run the installation process in batch or silent mode.



If you are an application developer who wants to create a complementary software setup for **Hexagon Geospatial Setup Manager**, see *Complementary Software in Installing GeoMedia in Silent Mode*.

Hexagon Geospatial Setup Manager User Interface

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

See *Installing GeoMedia VPF* for the installation workflow.

Dialog Box Options

Software

The **Software** box displays the list of products that you can install. Select these one at a time to install software or modify, repair, or remove software. When you select a product, 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 *Customer Support Portal* <http://www.hexagongeospatial.com/support> website. 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:

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

Configuration



This box may not be implemented for all product installations.

If additional configuration steps are required for your software, the **Configuration** box opens after installation is complete. 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. If complementary software is available for your site, the **Complementary Software** box opens after installation is complete. Select the application from the list and click **Install**.



Complementary Software is available for your site only if an application developer creates it. For more information, see Complementary Software Setup.

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 modify, repair, or remove process.

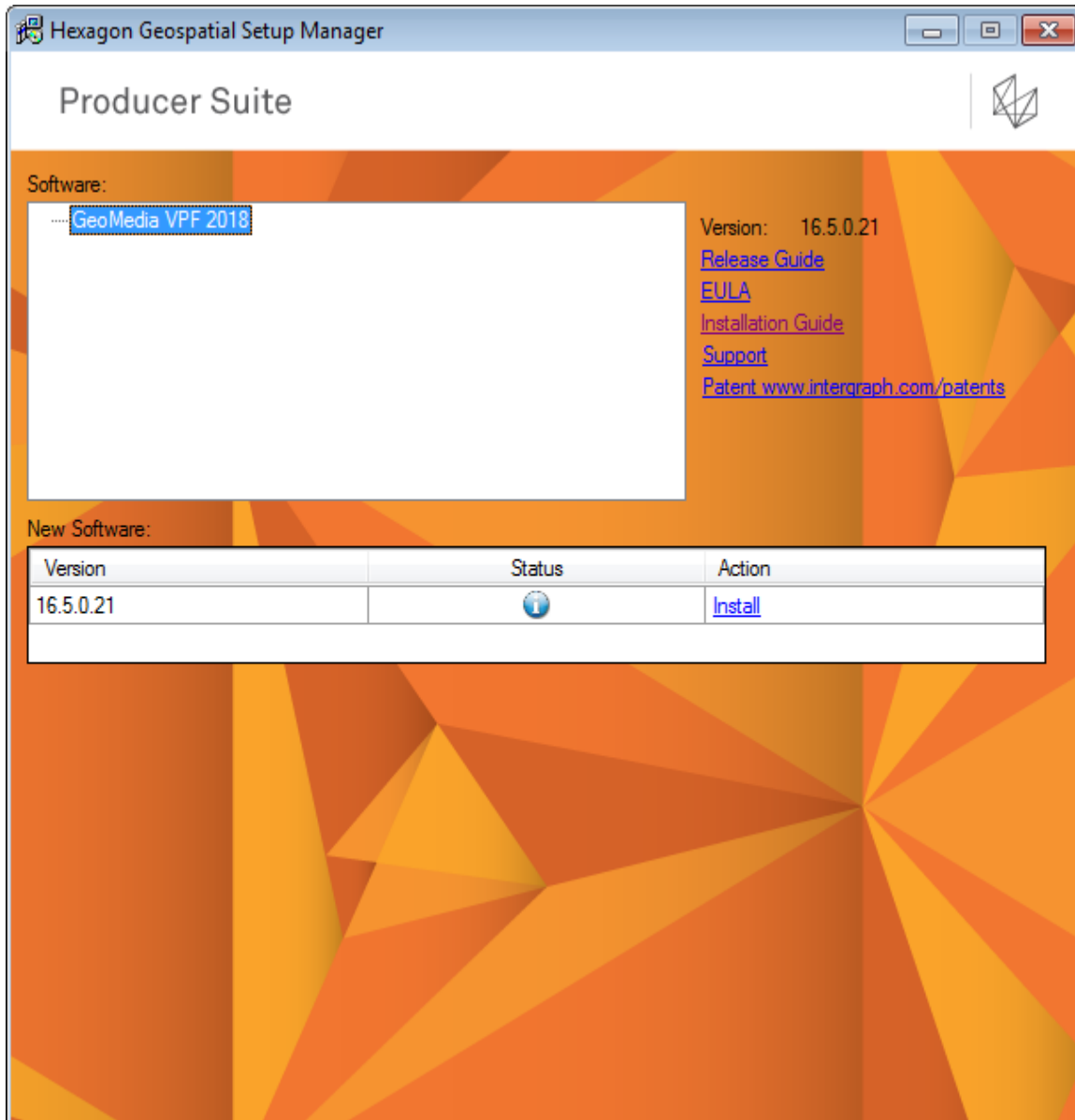
Icon	New or Installed Software	Configuration	Complementary Software
	Indicates the selected software is not installed. Or Indicates an installation failure. Check the Event Log for information.	Indicates the installed application of the selected software is not configured. Or Indicates a configuration failure. Check the Event Log for information.	Indicates the complementary software is available but is not installed. Or Indicates an installation failure. Check the Event Log for information.
	Installation is in progress.	Configuration is in progress.	Installation is in progress.
	Installation is successful.	Configuration is successful.	Installation is successful.

Installing GeoMedia VPF

To install GeoMedia VPF:

1. From your delivery media double-click *Setup.exe*. The **Hexagon Geospatial Setup Manager** dialog displays:





2. *Optional:* Click a link to the right of the **Software** list box to open and review documentation as required for the selected product.
3. In the **New Software** box, click **Install** under **Action**.

The installation process begins for the selected software by displaying the splash screen and starting the InstallShield Wizard.



Once software is installed, the **New Software** title changes to **Installed Software**, and the **Action** column displays **Modify, repair, or remove** for the selected software.

4. Click **Next** on the InstallShield Wizard Welcome screen.
5. Accept the terms in the license agreement, and then click **Next** to open the **Custom Setup** dialog.



You can change how a feature is installed by clicking on the arrow to the right of the product icon. You have the option to install the feature on the local hard drive or to install the feature and all subfeatures on the local hard drive, depending on whether the selected feature has subfeatures.

Optional: Click **Change** on the **Custom Setup** dialog to change the installation folder and or drive on the **Change Current Destination Folder** dialog, and then click **OK** on that dialog to return to the **Custom Setup** dialog.

OR

Continue to the next step without changing the destination folder.

6. Click **Next** on the **Custom Setup** dialog.
7. If this is the first time the software is installed, or if you have a prior major release of the software installed, and you are installing a subsequent minor release, click **Install** to start installation.

OR

If you have a minor release of the software installed and are upgrading to a major release, you must first *remove the product* (see "Removing GeoMedia VPP" on page 17). When the product is installed, click **Finish**.

8. The **New Software** title on the **Hexagon Geospatial Setup Manager** dialog changes to **Installed Software**, and the **Action** column displays **Modify, repair, or remove** for the selected software.

System Configuration Notes

Regional Setting

Many of the GeoMedia add-on products require the regional setting of the workstation to be set to English (US). The primary reason is so initialization data and other application-specific information are interpreted correctly. To ensure the regional setting is correct, select **Control Panel > Region and**

Language and then set the **Format** to **English (United States)**, or at a minimum, click **Additional settings** and set the following:

Numbers

- Decimal symbol: "." (period/decimal)
- List separator: "," (comma)

Date (Optional)

- Short date format: "M/d/yyyy"
- Date separator: "." (period/decimal)

Non-English Operating Systems

There have been some issues reported with non-English operating systems. The main issue appears to be that some components require a *Program Files* folder as part of the directory structure. If you experience problems running a non-English operating system, please report this via *Customer Support Portal* <http://www.hexagongeospatial.com/support>.

Licensing GeoMedia Products

With the Power Portfolio 2018 release, licenses are no longer based on Certificate-file based technology. Instead, licenses are based on Activation IDs so that customers can activate their products without having to provide Host IDs or other hardware-related parameters. Customers can also re-host without emailing the licensing team to assist. The Power Portfolio 2018 release also includes improved tools to make it easier to install licenses, set up license servers, and provide more professional error handling. Finally, the Power Portfolio 2018 release has 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 a better customer experience.

You can install **Geospatial Licensing 2018** from the Supporting Software section of the product delivery media and use **Geospatial Licensing Administrator 2018** to set up and manage a concurrent license server and other license resources. See the **Geospatial Licensing 2018** Help file for more information.

Please visit our *licensing web site* (<https://www.hexagongeospatial.com/resources/support/licensing>) to generate or to manage your licenses. There are help topics on this page to assist you if you have difficulty in generating or managing your license. There are also useful eTraining videos at bottom of this page.

Starting GeoMedia VPF

There are two ways to start working with the **GeoMedia VPF** functionality:

- Select **Start > All Programs > Hexagon > GeoMedia Desktop 2018 > GeoMedia Professional** (or **Advantage**, depending on your configuration). Open a GeoWorkspace, and select the **VPF** tab from the GeoMedia ribbon bar to display the command panels.
- Select **Start > All Programs > Hexagon GeoMedia VPF 2018** to access groups of tools and utilities.

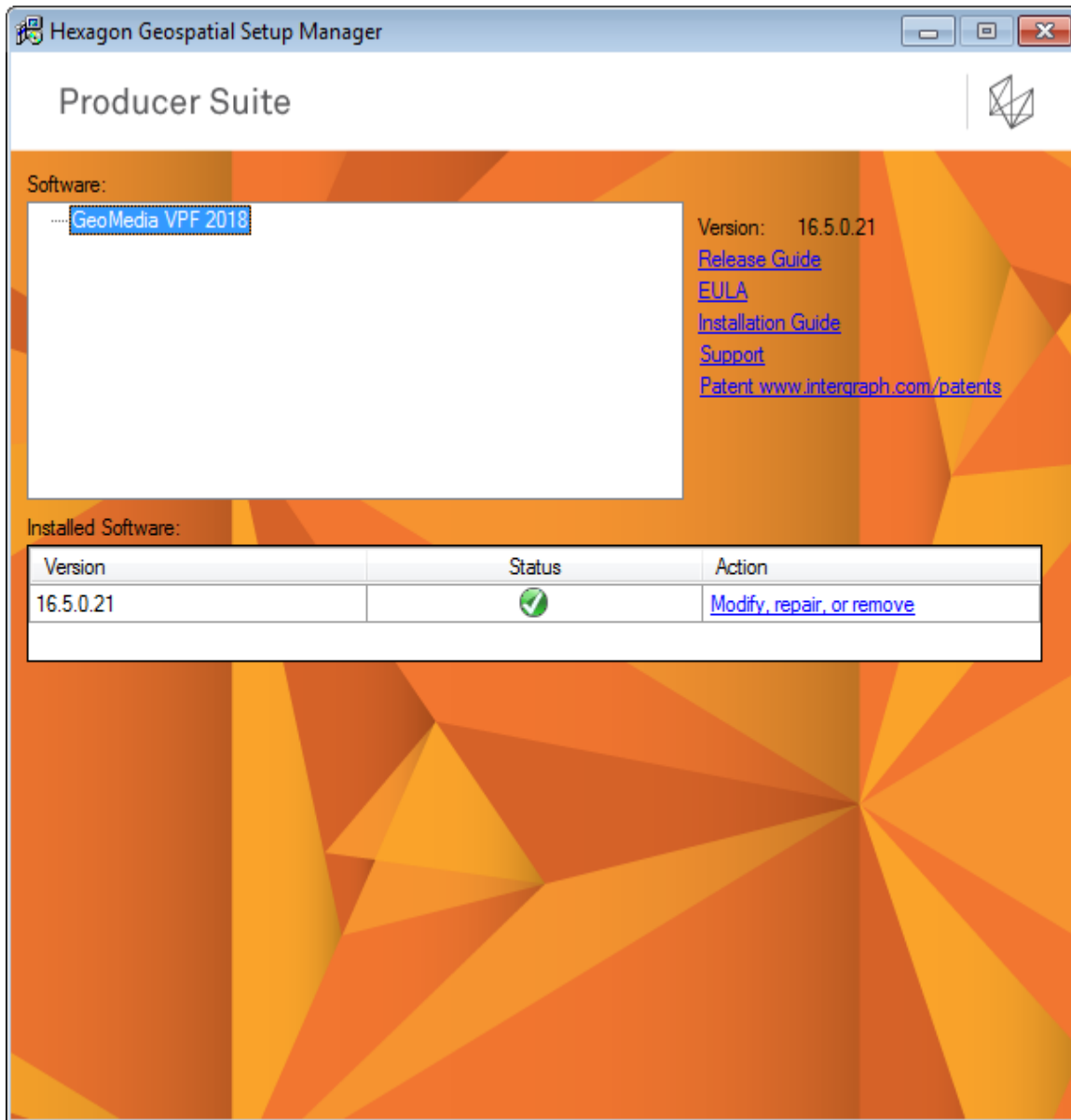
Removing GeoMedia VPF

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

To remove GeoMedia Products with Hexagon Geospatial Setup Manager:

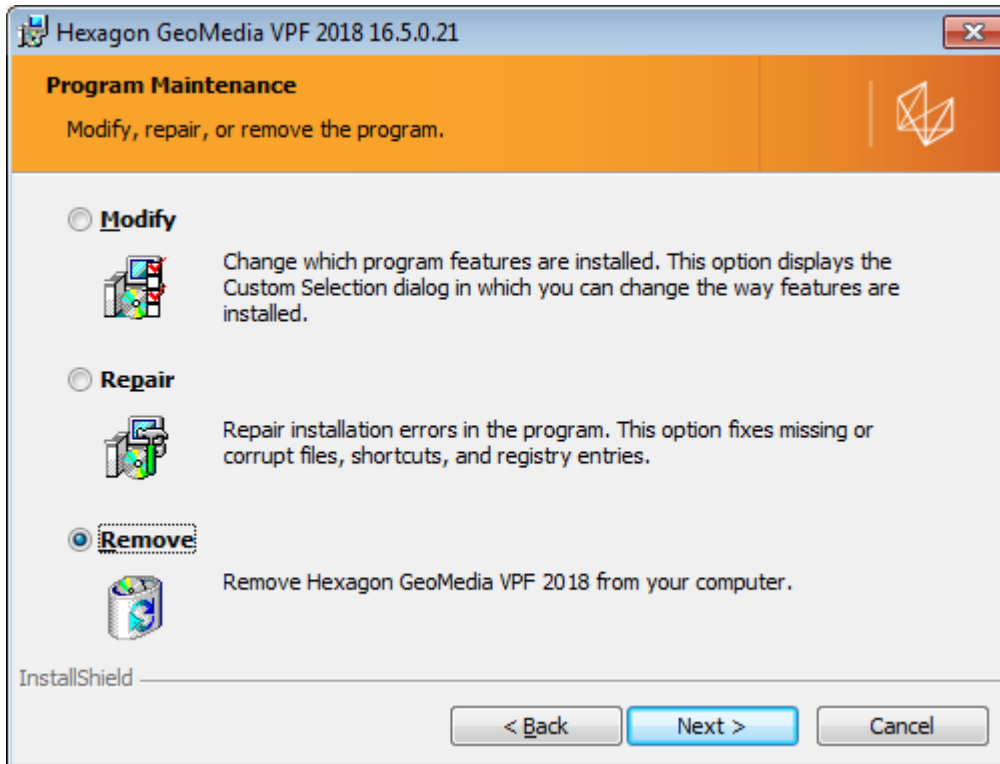
1. From your delivery media, right click *Setup.exe* and select **Run as administrator**.

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**.

- When the Wizard dialog box opens, click **Next** to open the **Program Maintenance** dialog box.



- Carefully* read what the **Remove** option does, and if appropriate, select the **Remove** option, and then click **Next**.
- Follow the prompts to remove the product.

To remove GeoMedia Products with Control Panel:

- From the **Start** menu, navigate to **Control Panel**.
- Select **Programs and Features**> **Uninstall a program**.
- 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 and Add-on products with the Windows **Control Panel**.

To remove previous versions of GeoMedia and Add-on Products with Control Panel:

1. From the **Start** menu, navigate to **Control Panel**.
2. Select **Programs and Features > 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**.

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,

Troubleshooting Installation Using Logs

When an installer fails, there are a few options to get more information and act upon it:

- 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**.



You may need to create the Installer key.

- 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 the Install in Silent Mode process) can cause your command-line installation to fail for reasons unrelated to the problem you are investigating.

Logging the Installation of Product XYZ

```
msiexec /l*v "C:\1LogInstallation\logs\InstallationXYZ.log" /i  
"C:\msi\XYZ.MSI ACCEPT_EULA=1"msiexec /l*v  
"C:\1LogInstallation\logs\InstallationXYZ.log" /i "C:\msi\XYZ.MSI  
AC-CEPT_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).

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

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:

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

```
Setup.exe /s {SoftwareProductName} /ni ACCEPT_EULA=1 /V"/L* MyLogFile.log"
```

where {SoftwareProductName} is one of the Installable Applications under SoftwareProductName identified in Installable Application Names Table in Installing ProductName in Silent Mode document.

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

Willogutl.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 removal of a product.

For more information go to <http://msdn2.microsoft.com/en-us/library/aa372811.aspx> (<http://msdn2.microsoft.com/en-us/library/aa372811.aspx>).

Installing GeoMedia VPF in Silent Mode

This appendix contains information and background useful for those who might want to use the Windows command line to deploy GeoMedia VPF and its related Update or Service Packs installers. Using the command line to deploy a product is often useful for those who want to execute silent installations or uninstallations of Windows Installer-based installers. To enable logging during an installation or uninstallation, there are some guidelines to follow, as noted in the *Troubleshooting Installation Problems Using Logs* topic.

This document assumes that you possess a basic knowledge of Windows command line scripting techniques, and are familiar with both Windows environment variables and the concepts of variables and properties.

Installing and Configuring GeoMedia VPF

Prerequisite Installations

GeoMedia Desktop 2018

Basic Parameters for Hexagon Geospatial Setup Manager

To start the Hexagon Geospatial Setup Manager, which is *Setup.exe* in the root directory of your media, use the following syntax format for all commands:

```
setup.exe /s "GeoMediaVPF" Operation OptionalArguments
```

Operation and *OptionalArguments* are explained in the *Operation and Optional Arguments Parameters Table*.

Operation and Optional Arguments Parameters Table

Operation	Description	Optional Arguments
/n[i r s x]	Install/modify/upgrade, repair, status of install, remove software	Parameters to be passed to product setup, for example: ACCEPT_EULA=1
/u[s]	Launches customer-authored complementary software setup within the script.	Parameters to be passed to complementary software setup.

Installing GeoMedia VPF – Silent Mode

There are a variety of scripting languages you can use to set up unattended installation. All the examples here demonstrate the batch script commands an administrator would need to install or modify GeoMedia VPF.

These batch script commands should be run from the root directory of the DVD or extracted zip file that contains the installation.

To install GeoMedia VPF, you need to start the Hexagon Geospatial Setup Manager.

To Install

```
setup.exe /s "GeoMediaVPF" /ni ACCEPT_EULA=1
```

Complete Set of Parameters for Hexagon Geospatial Setup Manager

Parameters that are available for Hexagon Geospatial Setup Manager are listed in the following tables.

Option	Parameters	Description
/s		Specifies silent mode

Option	Parameters	Description
/n	[i r s x] OR [i] PROPERTY=VALUE	Installs/modifies/upgrades, repairs, returns installation status, or uninstalls the specified product. The /n option requires the /s option above.
	i	Used to install new software, modify a current installation, or upgrade a previous installation. It is a default parameter. Windows Installer public property values can be appended at the end of this parameter. Spaces are not allowed between property name, =, and property value. When a property value contains spaces, you must enclose that property value with a backslash and double

Option	Parameters	Description
		quotation mark (\"). Example: <code>INSTALLDIR=\"c:\Test Installations\"</code>
	r	Repairs existing software installation in silent mode.
	s	Returns installation status. Valid exit code values are as follows: <ul style="list-style-type: none"> ▪ 0 – Not installed. ▪ 1 – Installed version is up-to-date. ▪ 2 – Installed version is lower. ▪ 3 – Installed version is higher. ▪ -1 – Unable to find installation status.
	x	Uninstalls software in silent mode.
	product public properties	The following are the public properties: <code>INSTALLDIR</code> – Destination folder for the installation. <code>ACCEPT_EULA</code> – End user license agreement flag. <ul style="list-style-type: none"> ▪ 0 - The EULA is not accepted. This is the default value. ▪ 1 - The user has read and accepted the EULA. The software does not install until the value is 1.
	Windows Installer public properties	Some commonly used standard Windows Installer public properties are as follows: <code>ADDLOCAL</code> –Installs a list of selectable features delimited by commas, or ALL. Features are listed in the <i>GeoMedia VPF Installer Features</i> table. Feature names are case sensitive.

Option	Parameters	Description
		REMOVE—Uninstalls a list of selectable features delimited by commas, or ALL. Features are listed in the <i>GeoMedia VPF Installer Features</i> table. Feature names are case sensitive.

Option	Parameters	Description
/u	[s] OR [<ParameterList>]]	<p>Launches customer-authored complementary software setup within the script Repository\SubfolderName\ComplementarySoftwareSetup.wsf or returns the complementary setup install status. Requires the /s option above.</p> <p>A complementary software setup program can support installation, repair, upgrade, and removal, including silent/batch mode support based on its requirements, and defines its own parameter list. A complementary software setup program can take parameters using command line arguments or a file (for example, .xml, .config or any other file type). The file name and location can be an input command line argument.</p> <p>See the <i>Complementary Software</i> section later in this appendix.</p> <p>When a property value contains spaces, you must enclose that property value with a backslash and double quotation mark (\").</p> <p>Example: INSTALLDIR= \"c:\Test Installations\"</p>
		s Returns complementary software setup status. Valid exit code values are as follows: <ul style="list-style-type: none"> ▪ 0 – Not configured. ▪ 1 – Configured.

Option	Parameters	Description
		<ul style="list-style-type: none"> -1 – Unable to find complementary software install status.

Installing GeoMedia VPF – Batch Script

The following is the usage of an example batch script:

```
C:\Temp\InstallGeoMediaVPF.bat FileShareName
```

Where, FileShareName is the file share name containing the GeoMedia VPF DVD image.

Example Batch Script

To perform a silent install of GeoMedia VPF by using a batch (.bat) file, copy the following code to a new file named *InstallGeoMediaVPF.bat*, and store it under *C:\Temp* folder.

```
@ECHO OFF
NET USE T: %1%
T:
setup.exe /s "GeoMedia" /ns
IF %ERRORLEVEL% EQU 0 GOTO Install
ECHO Install status: %ERRORLEVEL% Expecting 0.
ECHO GeoMedia must be installed before installing GeoMedia VPF.
GOTO EOF

:Install
ECHO Installing...
setup.exe /s "GeoMediaVPF" /ni ACCEPT_EULA=1
setup.exe /s "GeoMediaVPF" /ns
IF %ERRORLEVEL% EQU 1 GOTO EOF
ECHO Install status: %ERRORLEVEL% Expecting 1.
ECHO GeoMedia VPF did not install properly.
```

```
:EOF
C:
NET USE T: /DELETE /Y
EXIT /B 0
```

Additional Examples

You can modify the basic silent install syntax to perform additional installer functions such as removing or repairing software.

Remove Software

To completely uninstall GeoMedia VPF:

```
Setup.exe /s "GeoMediaVPF" /nx
```

Override the Default Installation Location

To install GeoMedia VPF at the '*C:\Test Installations*' folder:

```
Setup.exe /s "GeoMediaVPF" /ni ACCEPT_EULA=1 INSTALLDIR="c:\Test
Installations\"
```

Get Install Status

To get the install status of GeoMedia VPF:

```
Setup.exe /s "GeoMediaVPF" /ns
echo GeoMedia VPF install status is %ERRORLEVEL%
```

Uninstall a Removable Update

To uninstall a removable update (Engineering Patch, Service Pack, and Minor Release) of GeoMedia VPF:

```
Setup.exe /s "GeoMediaVPF" /ni MSIPATCHREMOVE=UpdateID
```

The UpdateID is listed in *.\GeoMediaVPF\Program\UpdateInfo.txt*.

Repair an Existing Installation

To repair an existing installation of GeoMedia VPF:

```
Setup.exe /s "GeoMediaVPF" /nr
```

GeoMedia VPF Installer Features

Feature codes can be employed to install specific portions of the application. They are used in conjunction with the ADDLOCAL and REMOVE parameters listed in *Complete Set of Parameters for Hexagon Geospatial Setup Manager* table.

Feature ID	Subfeature of	Description	Required
GeoMedia VPF		Installs the required files needed to run GeoMedia VPF.	Yes

Complementary Software

This information applies if you have received complementary software along with your distribution of GeoMedia VPF.

Install

To install the complementary software:

```
Setup.exe /s "GeoMediaVPF" /ui
```

Get Setup Status

To get the complementary software setup status of GeoMedia VPF:

Pseudo code only; syntax depends on the scripting language.

```
RetVal = Setup.exe /s "GeoMediaVPF" /us
```

Uninstall Setup

To uninstall the complementary software setup of GeoMedia VPF:

```
Setup.exe /s "GeoMediaVPF" /u /x
```


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

You can find support-related discussion boards and knowledge bases across the Hexagon Geospatial products on the *Hexagon Geospatial Community* <http://community.hexagongeospatial.com>. Find more information about the community on a *Community blog* <http://blog.hexagongeospatial.com/join-the-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>.

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.

Find more information about HGDN on a *Community blog* <http://community.hexagongeospatial.com/t5/About-the-Community/HGDN-Subscription/ba-p/3597>.

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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