



# **Installation Guide**

GeoGraphix 2019.1



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# Introduction

Welcome to the 2019.1 release of the *Discovery™*, Landmark<sup>®</sup> Connectivity, and Seismic Modeling software.

- Discovery includes the Discovery<sup>™</sup> 2019.1 version of PRIZM<sup>™</sup>, smartSECTION<sup>®</sup>, and GVERSE<sup>®</sup> Geophysics (new and updated geophysical interpretation tool for GeoGraphix)
- Landmark Connectivity includes the WellXchange<sup>™</sup>, GridXchange and SeisXchange<sup>™</sup> software.
- Seismic Modeling includes the 2019.1 version of the LogM<sup>™</sup> and STRUCT<sup>™</sup> software.

Discovery software is available through the LMKR Support Portal > <u>Downloads</u> page or, by request, on a DVD.

Caution:	
General	The following conditions must be met before you can install the Discovery, Landmark
Installation	Connectivity, and Seismic Modeling software:
Requirements	<ul> <li>You must have Administrative Rights to the local computer that will run the installation.</li> </ul>
- please refer	<ul> <li>Must have <i>Internet Explorer 10 or 11</i> installed.</li> </ul>
to the <u>System</u>	<ul> <li>Microsoft .NET 4.5.1 must be installed.</li> </ul>
Requirements	<ul> <li>If you are using smartSECTION on a Windows<sup>®</sup> 10 64-bit operating system, then</li> </ul>
for a	.NET Framework 3.5 must be installed.
complete list	<ul> <li>Microsoft DirectX End-User Runtime (June 2010) is required to run Discovery 3D, Pro3D, smartSECTION, GVERSE Geomodeling, and GVERSE Geophysics.</li> </ul>
	<ul> <li>GVERSE Field Planner requires MATLAB Runtime R2018a (9.4).</li> </ul>
	<ul> <li>Must have networking installed including the <i>TCP/IP</i> protocol.</li> </ul>
	<ul> <li>To use this software, your computer must be running one of the following operating systems:</li> </ul>
	<ul> <li>o Windows<sup>®</sup> 7 Enterprise 64 bit</li> </ul>
	<ul> <li>Windows<sup>®</sup> 7 Ultimate 64 bit</li> <li>Windows<sup>®</sup> 7 Ultimate 64 bit</li> </ul>
	<ul> <li>Windows<sup>®</sup> 10 Professional 64 bit</li> </ul>
	<ul> <li>Windows<sup>®</sup> 10 Enterprise 64 bit</li> </ul>
	• Windows <sup>®</sup> Server 2008 R2 Standard 64 bit
	<ul> <li>Windows<sup>®</sup> Server 2008 R2 Enterprise 64 bit</li> </ul>
	<ul> <li>Windows<sup>®</sup> Server 2012 R2 Standard 64 bit</li> </ul>
	If you are using Discovery on OpenWorks, then OpenWorks for Windows
	<b>5000.10.6.03</b> must be installed. OpenWorks for Windows has two install options; you can use either the Full install option (recommended) or the Basic install
	option.
	<ul> <li>If you are working in a network environment, do not forget that for all</li> </ul>
	computers to continue to work together in shared projects, ALL computers
	(clients and servers alike) must be updated to the same version of the software if
	any of them are updated. It is intentional that computers with different versions
	of the software cannot (under normal circumstances) and should not (in any case) be connected with each other.
	<ul> <li>Before installing GVERSE Planner 2019.1, make sure to uninstall the existing</li> </ul>
	Planner instance from Start >> Control Panel >> Programs and Features >> GVERSE Planner.

The Release Notes document included with the download from LMKR or on your DVD contains information on the exciting new enhancements and features in the release.

This installer is also used to install GVERSE Geomodeling, GVERSE Geophysics, GVERSE Field Planner, and GVERSE Planner.

This document includes very important information that you should read before installation:

- <u>Before You Begin Installation</u>
- System Requirements
- Installation Overview and Step-by-Step Instructions
- Utilities
- Uninstall Instructions

If you have any questions or issues with installation, do not hesitate to contact <u>Technical Support</u>.

# Before You Begin Installation

Before you start the installation process, LMKR recommends that you follow these guidelines.

- 1. If you are working in a network environment, install the LMKR license server on one computer to be used by all client computers.
- 2. License requirements:
  - GeoGraphix: Users will require GeoGraphix license version 2019.1.
  - GVERSE Planner: Users will require GVERSE Planner license version 2019.1.
  - GVERSE Geophysics: Users will require GVERSE Geophysics license version 2019.1.
  - GVERSE Geomodeling: Users will require GVERSE Geomodeling license version 2019.1.
  - GVERSE Field Planner: Users will require GVERSE Field Planner license version 2019.1.

<u>Note:</u> The LMKR License Management Tool (LMT) 2016.1 must be installed to configure GeoGraphix and GVERSE product licenses. Download the latest LMT from the LMKR Support Portal > <u>Downloads</u> page. See the <u>LMKR Licensing</u> section of this document for more information.

- 3. Make sure you have the current install obtained from LMKR or on the DVD and the most recent software update files (if applicable) at the time of installation.
- 4. Make complete backups or archives of all your projects. This is a very important step, **DO NOT SKIP THIS STEP**. Remember, a backup (such as from a tape) is only as good as the last time it was tested.
- 5. Backup any customized files from the **Data** directory (such as custom libraries, symbols, and coordinate system files). Do this only if there is ANY chance of going back to the previous version.
- 6. Test any project updates or functionality if desired in a non-production environment.
- 7. Uninstall any previous version before installing the version 2019.1.

- 8. Before installing GVERSE Planner 2019.1, make sure to uninstall the existing Planner instance from Start >> Control Panel >> Programs and Features >> GVERSE Planner.
- 9. Make sure that the <u>prerequisites</u> have been installed.

<u>Note</u>: If working in a network environment, do not forget that for all computers to continue to work together in shared projects, ALL computers (clients and servers alike) must be updated to the same version of the software if any of them are updated. It is intentional that computers with different versions of the software cannot (under normal circumstances) and should not (in any case) be connected with each other.

# System Requirements

The system requirements are provided as general guidelines. Hardware requirements will vary considerably, depending on the types of projects, project sizes, the number of users, and network infrastructure/traffic. Contact your technical sales representative or <u>technical support</u> to discuss your requirements.

- Workstation:
  - Geologic Suite (DataManager, GESXplorer, and PRIZM)
  - Geophysical Suite (Geophysics, pStaX, and SCAN)

<u>Caution</u>: Landmark Connectivity or using Discovery version 2019.1 with Discovery on OpenWorks projects requires the 5000.10.6.03 version of OpenWorks for Windows.

- Project Server:
  - Geologic Suite (DataManager, GESXplorer, and PRIZM)
  - Geophysical Suite (Geophysics, pStaX, and SCAN)

### Workstation:

### System Requirements

We recommend using the latest Microsoft<sup>®</sup> service packs and security patches. The following table lists the operating systems which are supported.

Supported Operating system	RAM	СРИ
Windows <sup>®</sup> 7 Professional x64	8 GB Minimum	Pentium i5/i7 or any Quad
Windows <sup>®</sup> 7 Enterprise x64	16+ GB Recommended	Core Processor
Windows <sup>®</sup> 7 Ultimate x64		
Windows <sup>®</sup> 10 Professional x64		
Windows <sup>®</sup> 10 Enterprise x64		

**Note 1:** GVERSE Geophysics and GVERSE Geomodeling specifically require Windows platform update package KB2670838 installed on the machine, in case the operating system is Windows 7.

### Hardware Requirements

Application Support Level	Required Operating System	Required Hardware
All Discovery Applications including Discovery 3D and advanced 3D visualization (Pro 3D), and GVERSE Geomodeling	Refer to the supported Operating Systems Requirements mentioned on the previous page.	<ul> <li>Graphic Card Requirements:</li> <li>2 GB VRAM Minimum</li> <li>4 GB VRAM Recommended</li> <li>DirectX 11 capable hardware. (see Note 2 below)</li> </ul>
GVERSE Geophysics	Refer to the supported Operating Systems Requirements table mentioned on the previous page.	<ul> <li>Minimum</li> <li>2.4 GHz 64-bit processor</li> <li>8 GB RAM</li> <li>Graphic Card Requirements:</li> <li>Any DirectX 11.1 capable card comparable with Nvidia® GeForce GTX 430 with 1GB VRAM. DirectX is not shipped with GeoGraphix 2019.1. You must download and install it separately.</li> <li>1,366 x 768 screen resolution</li> <li>Recommended</li> <li>Quad 3.2 GHz 64-bit processor</li> <li>32 GB RAM</li> <li>Solid state hard disk</li> <li>Graphic Card Requirements:</li> <li>Any DirectX 11.1 capable card comparable with Nvidia® GeForce GTX 1060 with 6GB VRAM. DirectX is not shipped with GeoGraphix 2019.1. You must download and install it separately.</li> </ul>

<u>Note 1:</u> Microsoft DirectX End-User Runtime (June 2010) is required to run Discovery 3D, advanced 3D visualization (Pro 3D), GVERSE Geomodeling and GVERSE Geophysics.

**Note 2:** To run Discovery 3D, advanced 3D visualization (Pro 3D), and GVERSE Geomodeling, it is recommended that an NVIDIA DirectX 11 compatible card be used. We recommend using the latest video drivers and Microsoft updates for your system.

### Additional Requirements and Recommendations

- DVD ROM required for media installation. You do not need this if you have downloaded the installation from the LMKR Support Portal > <u>Downloads</u> page.
- DCOM/Firewalls configured to allow remote access. Only necessary if sharing projects. For DCOM configuration recommendations, refer to the LMKR Support Portal > Knowledge Center > White Papers page.
- Microsoft .NET Framework 4.5.1 runtime is required.

## Software Prerequisites

This release has several prerequisites that are required to run the software, as well as prerequisites that are used to enhance the software. The prerequisites can be downloaded from the LMKR Support Portal.

### Microsoft .NET Framework 3.5

This is specifically required if you are using smartSECTION on a Microsoft Windows<sup>®</sup> 10 operating system. The Microsoft .NET 3.5 can be downloaded from Microsoft's website and then installed. It is also available in the 3rd Party installers shipped with Discovery 2019.1.

### MATLAB Runtime R2018a (9.4)

GVERSE Field Planner requires MATLAB Runtime R2018a (9.4).

The MATLAB Runtime R2018a (9.4) software can be downloaded from MATLAB's website and then installed. It is also available in the Downloads section of the LMKR Support Portal.

### Microsoft .NET Framework 4.5.1

Discovery 2019.1 must have Microsoft's .NET 4.5.1 installed. The Microsoft .NET 4.5.1 can be downloaded from Microsoft's website, and then installed. It is also available in the 3rd Party installer shipped with Discovery 2019.1.

### ESRI ArcGIS Runtime Engine

New functionality within GeoAtlas related to geo-referenced images and CAD files requires the ESRI ArcGIS 10 Engine with ESRIArcGIS 10.2.x or 10.3.x or 10.4.x or 10.5.x. ESRI ArcGIS license must be configured by running **ArcGIS Administrator** with administrative rights, and selecting the **ArcGIS Engine Runtime (Single Use)** option in the wizard. If the ArcGIS Engine is not installed, a message box will appear but the setup will continue.

### Microsoft DirectX 11 End-User Runtimes

Discovery 3D, Pro3D, smartSECTION, GVERSE Geophysics and GVERSE Geomodeling require Microsoft's DirectX 11 June 2010 End-User Runtimes to work properly. The Discovery 3D application works only on the Windows 7 (64-bit) or higher operating system. Discovery 3D is not installed unless the computer has Windows 7 (64-bit) or higher. Further Discovery 3D requires a DirectX 11 compatible display card. DirectX 11 June 2010 End-User Runtimes can be installed by downloading the Discovery Third Party Installer.

### Platform Update for Windows 7

GVERSE Geomodeling and GVERSE Geophysics specifically require Windows platform update package KB2670838 installed on the machine, in case the operating system is Windows 7.

### Microsoft Internet Explorer 10 or 11

Microsoft Internet Explorer 10 or 11 must be installed in order to launch GVERSE NOW.

### **Optional Software Requirements**

Tools	Software Requirements
For spreadsheet Import Utility in WellBase, SeisBase, and LeaseMap	Excel 2007, 2010, 2013 or 2016 (32 or 64 bit) In case the macros are not working in Excel, ensure the <b>gxdb.xla</b> file is present in the relevant Microsoft Office <i>Library</i> installation folder.
For Selected Help Files	Adobe Reader
For Discovery on OpenWorks, GridXchange, and SeisXchange	OpenWorks for Windows 5000.10.6.03 – Basic or Full (recommended) Installation available on Landmark's LSM (See Notes below) and SeisWorks 5000.10 (for seismic workflows) OpenWorks for Windows requires Oracle 12.1.0.2
For ESRI geo-referenced images and ESRI CAD file import in GeoAtlas	ESRI ArcGIS Runtime Engine 10.2.x or 10.3.x or 10.4.x or 10.5.x (included in the 3rd Party Installer).
For LOGarc <sup>™</sup> Version 4.1.0.3 access in smartSECTION	To use the LOGarc <sup>™</sup> feature, the LOGarc <sup>™</sup> Version 4.1.0.3 software must be downloaded from IHS LogTech Canada, LTD and a valid account must be in place. You must have administrator rights to the computer on which you want to load the software.

**Note for Discovery on OpenWorks:** The OpenWorks Full installation requires Hummingbird Exceed. The Oracle client installation in use with the OpenWorks Full installation requires that the "Administrator" option be selected. The "Administrator" option type includes the SQL Plus and the Oracle Database Utilities components, which are needed to run Discovery on OpenWorks, as part of the total OpenWorks package.

<u>Note:</u> Hummingbird Exceed is not required for the OpenWorks Basic installation. If the OpenWorks Basic installation is used, the Oracle client installation can use the "Administrator" option, which will include all of the needed components. Or, the Oracle client installation for the OpenWorks Basic installation can use the "Custom" installation type. However, with the Custom installation type, the following components must be installed:

- Oracle Database Utilities 12.1.0.2
- SQL \*Plus 12.1.0.2
- Oracle JDBC/THIN Interfaces 12.1.0.2
- Oracle Net 12.1.0.2

You may experience the following error related to Oracle installation:

The SQLLoader.exe error may generate when working with Filters in GeoGraphix due to a missing Oracle DLL file. This is a known issue of Oracle 12.1.0.2 where oranfsodm12.dll is not shipped with the installer. **Workaround:** After Oracle installation, create a copy of the oraodm12.dll file, rename it as oranfsodm12.dll, and then place the renamed file in the BIN folder of both 32-bit and 64-bit Oracle installations.

## GeoGraphix Project Server:

### System Requirements

We recommend using the latest Microsoft service packs and security patches. The following table lists the operating systems which are supported.

Supported Operating system	RAM	CPU
Windows <sup>®</sup> Server 2008 R2 Standard x64	32 GB Minimum	Intel Xeon Processor or
Windows <sup>®</sup> Server 2008 R2 Enterprise x64	64+ GB Recommended	Equivalent
Windows <sup>®</sup> Server 2012 R2 Standard x64	SSD Drives Recommended	Quad 2.4GHz 64-bit or
		better

**Note:** We recommend using the latest Microsoft service packs and security patches.

### Additional Requirements and Recommendations

- DVD-ROM is required for media installation. You do not need this if you have downloaded the installation from the LMKR Support Portal > <u>Downloads</u> page.
- DCOM/Firewall must be configured to allow remote access. For DCOM configuration recommendations, refer to the LMKR Support Portal > Knowledge Center > <u>White Papers</u> page.

Server performance is subject to a large number of variables. It is impossible to give specific recommendations here, but these are some guiding principles to use. In general, multi-user performance of a GeoGraphix Project Server is best when the server is dedicated to GeoGraphix and not shared with other applications, especially database applications. In addition, consideration should be made for the number of GeoGraphix users and the size and number of concurrently accessed projects. At some point, having multiple project servers becomes a better solution than having all users on one server. Generally, somewhere between 10 and 20 users is when a second server might be suggested.

### Networking

Networking performance depends on the number of users trying to access a server simultaneously, as well as the bandwidth requirements for those users. Recommendations for server bandwidth typically specify server connectivity at a higher bandwidth than an individual user. For instance, users running at 100 Mbit should be accessing a server running on a 1-Gbit backbone. If users are at 1 Gbit, consider running multiple 1-Gbit connections or a single higher-bandwidth connection on the server.

### **Database Cache**

A large database cache is an important factor to consider when dealing with multiple users accessing large databases. The database engine is capable of addressing a practically unlimited amount of cache memory. The best way to size the memory is to estimate the memory requirements for other running applications and allow the database cache to dynamically allocate any remaining free memory. The engine will only allocate what it needs when using dynamic allocation up to the maximum specified.

It is highly recommended that you let the database engine use as much cache memory as it requires on the host server. Increasing database cache memory is the quickest and most effective way to improve database-related performance on large network projects.

On a workstation, it might be appropriate to reserve 1 to 2 GB for the OS and file system cache and 2 to 4 GB for other running applications. On a dedicated project server, not much memory needs to be reserved for other applications. The ideal maximum varies by the project size, the number of users, and other load considerations. But as a general rule, the higher you can set the maximum, the better.

### Storage

A great deal of Discovery's access patterns on a server deal with file I/O. Database access, raster images, and seismic data are examples of files that benefit substantially from a fast disk sub-system. Server environments also place a high importance on data integrity and reliability. At a minimum, consider using a RAID 5 (striped with parity) array. As the size of disks increases, you may also want to consider a hot swap drive and/or RAID 6 (striped with dual parity). Using a controller card with its own cache can also help improve performance.

# Network Attached Storage (NAS), Storage Area Networks (SAN), and Other Non-Windows Storage Solutions

There are two typical methods used for accessing external storage devices from a project server: iSCSI and CIFS.

- iSCSI allocates a block of storage on the external device and makes it appear to be a physical disk on the project server. This has the advantage of a 100% compliant file system. However, since the external device sees the allocation as one big file, it makes backup and restoration of individual files using the external device's capabilities more difficult. Standard backup and restore procedures from the server will still work.
- Using CIFS for external storage devices depends greatly on the vendor's implementation of the CIFS protocol used by the Windows platform. In general, a 100% compliant implementation of CIFS for a performant system is required. In particular, the vendor's implementation of the "File Change/Notify" functionality has been problematic. Devices based on the Windows Storage Server should be 100% compatible, since it shares its components with Windows. Implementations based on UNIX/Linux are where problems occur, due to the fact that the kernel level support is not present. Due to these uncertainties with CIFS implementations, LMKR does not technically support CIFS.

# Installation

Discovery utilizes Microsoft Windows<sup>®</sup> Installer technology for installing the Discovery applications Windows<sup>®</sup> Installer technology provides powerful features for installation and component configuration, network installations (distribution\deployment) and software removal\uninstallation.

Note: Have you read the System Requirements?

This installation guide provides step-by-step instructions for End User or Network Administrator installations:

- End User Installation
  - Install Discovery Application to a Single Workstation.
- Network Administrator Installation
  - Create LMKR License Service Server for Multiple Workstations.
  - Install the Discovery Applications to Multiple Workstations.
  - Create a Discovery Project Server (optional).

### End User Installation

This installation will add the Discovery applications to a Single Workstation. This installation is also used to install GVERSE Geomodeling, GVERSE Geophysics, GVERSE Planner and GVERSE Field Planner.

Caution:	
General	The following conditions must be met before you can install the
Installation Requirements Please refer to the <u>System</u> <u>Requirements</u> for a complete list	<ul> <li>Ineronowing conditions must be met before you can install the software:</li> <li>You must have Administrative Rights to the local computer that will run the install.</li> <li>Must have Internet Explorer 10 or 11 installed.</li> <li>Microsoft .NET 4.5.1 must be installed.</li> <li>If you are using smartSECTION on a Windows® 10 operating system, .NET Framework 3.5 must be installed.</li> <li>Must have networking installed including the <i>TCP/IP</i> protocol.</li> <li>This software should only be installed on Windows® 7 or 10, or Windows® Server 2008 or 2012 operating systems.</li> <li>Microsoft DirectX End-User Runtime (June 2010) is required to run Discovery 3D, Pro3D, smartSECTION, GVERSE Geomodeling, and</li> </ul>
	GVERSE Geophysics.
	<ul> <li>GVERSE Field Planner requires MATLAB Runtime R2018a (9.4).</li> </ul>
	<ul> <li>Before installing GVERSE Planner 2019.1, make sure to uninstall the existing Planner instance from Start &gt;&gt; Control Panel &gt;&gt; Programs and Features &gt;&gt; GVERSE Planner.</li> </ul>

There are 8 or 10 installation steps, depending upon whether you perform a typical or custom install:

- STEP 1 <u>Getting Started with the Discovery 2019.1 Release</u>
- STEP 2 <u>InstallShield Wizard Startup</u>
- STEP 3 <u>License Agreement</u>
- STEP 4 <u>Customer Information</u>
- STEP 5 <u>Setup Type (Typical vs. Custom)</u>
- Typical STEP 6 <u>Select Log Units of Measurement</u>
- Typical STEP 7 <u>Ready to Install the Program</u>
- Typical STEP 8 <u>InstallShield Wizard Completed</u>
- Custom STEP 6 <u>Custom Setup</u>
- Custom STEP 7 Local Projects Folder
- Custom STEP 8 Log Units of Measurement
- Custom STEP 9 <u>Ready to Install the Program</u>
- Custom STEP 10 InstallShield Wizard Completed

<u>Note</u>: LMKR licensing is installed before or after the above Discovery master installation steps. When Discovery applications are started through the Desktop shortcuts or Start Menu Programs, a licensing check is performed on the workstation. Please refer to the Product <u>licensing topic</u> for further details.

### End User Installation STEP 1- Getting Started with LMKR Download or Release DVD

Before starting installation, make sure that all open applications are closed.

If you have downloaded Discovery 2019.1 from LMKR, go to the **Download** folder and double-click on the **Discovery2019.1Setup.exe** file to begin. You will proceed directly to <u>STEP 2 - InstallShield Wizard</u> <u>Setup</u>.

If you have ordered the **Discovery 2019.1 DVD**, continue through this step.

Insert the Discovery/Landmark Connectivity/Seismic Modeling DVD-ROM into the DVD-Drive.

The GeoGraphix splash screen appears for a few seconds.

<u>Note</u>: If the GeoGraphix splash screen does not appear automatically, go to the Start menu, and choose Run. In the Run dialog box, browse to the appropriate DVD-drive and select the Install.exe file. Click OK.

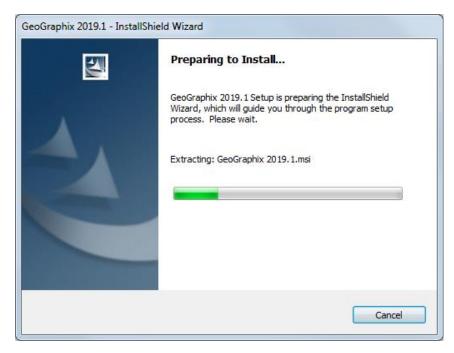
After the splash screen appears for a few seconds, the GeoGraphix install window appears.

LM <sup>™</sup>	<b>Geo</b> Graphix
GeoGraphix	<u>GeoGraphix on Web</u>
Install Discovery, Landmark Connectivity and Modeling	
Utilities	
Contact Us	
	BACK EXT

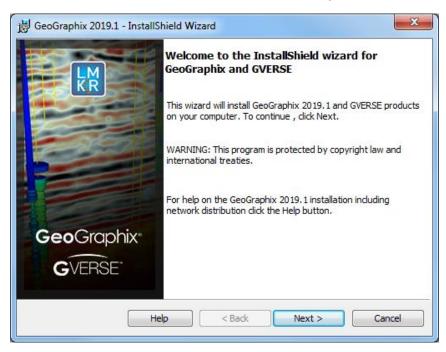
Click the first option, Click the first option, Install Discovery, and Modeling to proceed to the next step in the End User Installation.

### End User Installation STEP 2 - InstallShield Wizard Startup

After clicking **Install Discovery, Landmark Connectivity, and Modeling** in the previous step, the InstallShield wizard is started.



The Welcome to the InstallShield Wizard for GeoGraphix and GVERSE step appears on your screen.

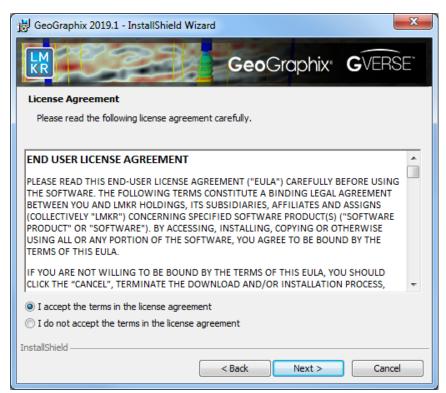


**Note:** Clicking the **Help** button will open the Installation Guide help window.

Click the **Next** button to proceed to the **License Agreement** step of the installer.

### End User Installation STEP 3 - License Agreement

The software license agreement is displayed in this step of wizard.



Select the I accept the terms in the license agreement option.

Click **Next** to proceed to the **Customer Information** step of the wizard.

End User Installation STEP 4 - Customer Information

Customer Information appears in this step of the wizard.

😸 GeoGraphix 2019.1 - InstallShield Wizard	×
GeoGraphix	<b>G</b> VERSE <sup>®</sup>
Customer Information	
Please enter your information.	
User Name:	
D.Boucher	
Organization:	
[LMKR	
InstallShield	
< Back Next >	Cancel

Enter your User Name and Organization.

Click **Next** to proceed to the **Setup Type** step of the wizard.

### End User Installation STEP 5 - Setup Type (Typical vs. Custom)

The type of setup (Typical vs. Custom) and the application destination folder is selected in this step of the wizard.



Options	Description
Typical option:	<ul> <li>Choosing this option will install:         <ul> <li>GVERSE products (Geomodeling, Field Planner and Planner)</li> <li>GeoGraphix (GeoGraphix, PRIZM, GVERSE Geophysics and smartSECTION), and Modeling (LogM, STRUCT)</li> <li>Tours and Tutorials for GeoGraphix</li> </ul> </li> <li><u>Note</u>: You must use the Custom option if you will run TracPlanner Xpress and you do not have OpenWorks for Windows installed on your computer. If you have OpenWorks for Windows installed, you can use the Typical install option.</li> </ul>
	<b>Note</b> : A local projects folder will be installed by default to: C:\ProgramData\Geographix\Projects (for Windows <sup>®</sup> ). If a previous local projects folder is detected by the installation, then the local projects folder will be installed to the previous detected path/folder.

Custom option:	Choosing this option then clicking Next will open a <u>Custom Setup</u> dialog box to choose features to be installed.
Install to:	<ul> <li>This is the path/folder where applications will be installed on the computer.</li> <li>Note: <ul> <li>If GeoGraphix software has been installed on this computer before, then the "Install to:" will reflect the path/folder of the previous installation; if not, the default path is C:\Program Files (x86)\GeoGraphix.</li> <li>GVERSE products will be installed on their default path C:\Program Files\LMKR\GVERSE.</li> </ul> </li> </ul>
	The <b>Change</b> command button can be used to change the path/folder destination of application.
Change command button:	Clicking this command button will open a standard windows Browse/Open dialog box to change application destination folder.
	Note: The path/folder must be a local hard drive.

If the **Typical** option is selected, click **Next** to proceed to the **Select Log Units of Measurement** step of wizard.

If the **Custom** option is selected, click **Next** to proceed to the **Custom Setup** step of wizard.

### Typical

### End User Installation Typical STEP 6 - Select Log Units of Measurement

This step of the wizard determines which default log units will be setup for PRIZM and XSection.

😸 GeoGraphix 2019.1 - InstallShield Wizard
GeoGraphix GVERSE
Select Log Units Of Measurement
Select the preferred units for log display. Settings can be changed after installation.
⊚ English - Vertical scale in inches/100 feet, Bulk Density in gm/cc, Sonic in µs/ft and Caliper in inches.
$\bigcirc$ Metric - Vertical scale in ratio, Bulk Density in gm/cc, Sonic in $\mu s/ft$ and Caliper in inches.
© Canadian Metric - Vertical scale in ratio, Bulk Density in kg/m³, Sonic in µs/m and Caliper in millimeters.
InstallShield
< Back Next > Cancel

**Note:** The units can be changed in PRIZM and XSection after installation.

Click Next to proceed to the Ready to Install the Program step of the wizard.

### End User Installation Typical STEP 7 - Ready to Install the Program

This is the second to last step of the wizard.

😸 GeoGraphix 2019.1 - InstallShield Wizard
GeoGraphix GVERSE
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.
InstallShield
< Back Install Cancel

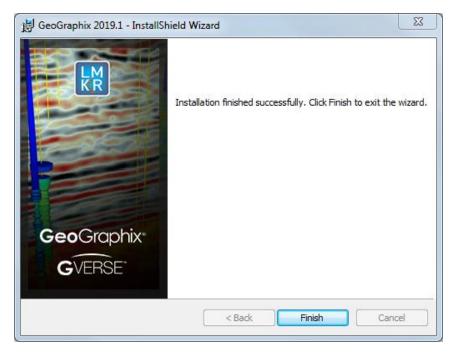
Click **Install** to copy files and begin installing the software, or click **Back** to review and make any changes as necessary.

### End User Installation Typical STEP 8 - InstallShield Wizard Completed (FINAL STEP)

After the **Install** button is clicked in the <u>Ready to Install the Program</u> step, files are installed to the workstation.

🛃 GeoGrap	hix 2019.1 - InstallShield Wizard
KR	GeoGraphix GVERSE
Installing	GeoGraphix 2019.1
The prog	ram features you selected are being installed.
12	Please wait while the InstallShield Wizard installs GeoGraphix 2019.1. This may take several minutes.
	Status:
	Copying new files
InstallShield -	
	< Back Next > Cancel

When the installation is finished, the InstallShield Wizard Completed dialog box appears:



Click **Finish** to complete the installation. The software can now be started through Desktop shortcuts, or Start Menu Programs.

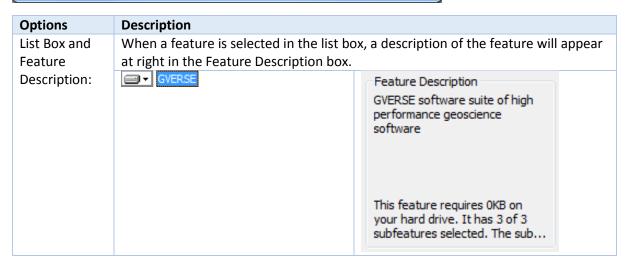
<u>Note</u>: LMKR licenses are installed after the master installation steps. When the s are started through Desktop shortcuts or Start Menu Programs, a licensing check is performed on the workstation. Please refer to the <u>LMKR License Management Tool</u> for further details.

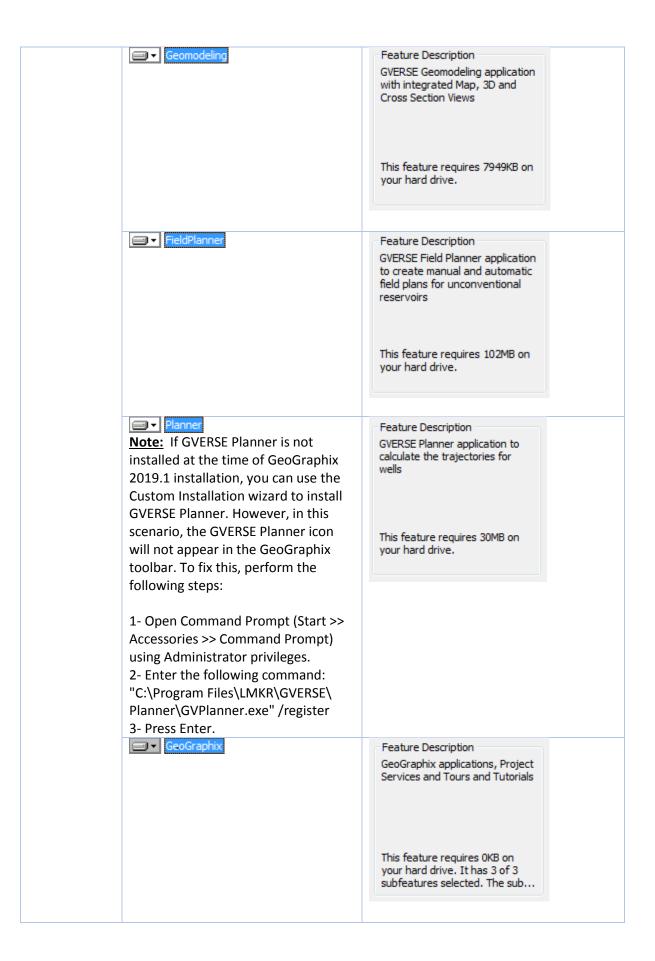
### Custom

### End User Installation Custom STEP 6 - Custom Setup

This step of the wizard can be used to select certain features to be installed and change the application destination directory.

B GeoGraphix 2019.1 - InstallShield Wizard	X
Geo	Graphix GVERSE
Custom Setup	
Select the program features you want installed.	
Click on an icon in the list below to change how a feature is in	nstalled.
GVERSE Geomodeling FieldPlanner Planner Planner GeoGraphix Seismic Modeling Applications X TracPlanner Xpress Utilities Tours And Tutorials	Feature Description GVERSE software suite of high performance geoscience software This feature requires 0KB on your hard drive. It has 3 of 3 subfeatures selected. The sub
Install to: C:\Program Files (x86)\GeoGraphix\	Change
InstallShield	
Help Disk Space < Back	Next > Cancel





Seismic Modeling	Feature Description Seismic Modeling: LogM and Struct
	This feature requires 85MB on your hard drive.
Applications	Feature Description GeoGraphix including Prizm, GVERSE Geophysics, smartSECTION and 3D Viewer
	This feature requires 2KB on your hard drive. It has 0 of 1 subfeatures selected. The sub
Applications	Feature Description
<u>Note</u> : The TracPlanner Xpress Utility is not selected by default. To install the TracPlanner Xpress Utility, click	Utilities needed for GeoGraphix and TracPlanner such as pdbin.exe, services.dat, etc.
the down arrow and select an install option from the drop-down list. Installation of this utility is not	This feature requires 0KB on your hard drive.
necessary if OpenWorks for Windows	
is already installed.	Feature Description
	GeoGraphix Tours and Tutorials
	This feature requires 58MB on your hard drive.
	GeoGraphix Tours and Tutorials include creating a "SampleFiles" directory and installing zip projects for 3 possible project areas (Moosehead, Powder and Stratton).

	Clicking the down arrow error icon will list options to install or not install the feature:
	This feature will be installed on local hard drive.
	This feature, and all subfeatures, will be installed on local hard drive.
	× This feature will not be installed.
	Clicking the <b>Help</b> button on this Custom Setup dialog will bring up the <b>Custom Setup Tips</b> dialog.
	BeoGraphix 2019.1 - InstallShield Wizard
	GeoGraphix GVERSE
	Custom Setup Tips
	Custom Setup allows you to selectively install program features.
	The icon next to the feature name indicates the install state of the feature. Click the icon to drop down the install state menu for each feature.
	This install state means the feature
	□ - Will be completely installed to the local hard drive.
	Will have some subfeatures installed to the local hard drive. (Available only if the feature has subfeatures.)
	X - Will not be installed.
	₩ill be installed on first use. (Available only if the feature supports this option.)
	Will be installed to run from the network. (Available only if the feature supports this option.)
	InstallShield
	ОК
Install to:	This is the path/folder that will be used to install the applications on the
	computer.
	Note:
	If GeoGraphix software has been installed on this computer before, then
	the "Install to:" description will reflect the path/folder of the previous
	installation to, if not the default path is C:\Program Files
	(x86)\GeoGraphix.
	<ul> <li>GVERSE products will be installed on their default path C:\Program Files\LMKR\GVERSE.</li> </ul>
Change	Clicking this command button will open a standard Windows <sup>®</sup> Browse/Open
command	dialog box to change the application destination folder.
button:	

Disk Space command button:	BeoGraphix 2019.1 - Ins Constraints of the second	Ge	oGraphix	GVERSE"	
	Volume	Disk Size	Available	Required	
	I C:	172GB	83GB	4725MB	
	D:	292GB	240GB	OKB	
	•	III		•	
	The highlighted volumes do n features. You can remove fil local drives, or select differen InstallShield	es from the highlighted volu			

Select features to be installed and click **Next** to proceed to the **Local Projects Folder** step of the wizard.

### End User Installation Custom STEP 7 - Local Projects Folder

This step of the wizard determines where the local projects folder (path/folder) will be created during the installation.

闄 GeoGrap	hix 2019.1 - InstallShield Wizard
KR	GeoGraphix GVERSE
Local Pro	jects Folder
	xt to install to this folder, or click Change to install erent folder.
Þ	Install GeoGraphix 2019.1 local projects to: C:\ProgramData\GeoGraphix\Projects\ Change
	You must create a Local Projects Folder on the computer's local hard drive during installation.
	After installation, you can create other Project "Home" folders using the File >> New >> Home command in ProjectExplorer. To create a Project Home folder on another computer such as a network server, install Discovery on the server and run the New >> Home command locally on that machine.
	For further information on network projects, click the Help button on the Location page while running the New Home Wizard.
InstallShield -	< Back Next > Cancel

Clicking the **Change** command button will open a standard Windows<sup>®</sup> **Browse/Open** dialog box to change the application destination folder.

**Note:** The Local Projects Path/Folder must be a local hard drive.

### Click **Next** to proceed to the **Log Units of Measurement** step of the wizard.

### End User Installation Custom STEP 8 - Log Units of Measurement

This step of the wizard determines which default log units will be setup for PRIZM and XSection.

😸 GeoGraphix 2019.1 - InstallShield Wizard	X
GeoGraphix	<b>G</b> VERSE <sup>*</sup>
Select Log Units Of Measurement	
Select the preferred units for log display. Settings can be changed after installation.	
English - Vertical scale in inches/100 feet, Bulk Density in gm/cc, Sonic in in inches.	µs/ft and Caliper
$\bigcirc$ Metric - Vertical scale in ratio, Bulk Density in gm/cc, Sonic in $\mu$ s/ft and C	aliper in inches.
$\odot$ Canadian Metric - Vertical scale in ratio, Bulk Density in kg/m³, Sonic in $\mu$ millimeters.	s/m and Caliper in
InstallShield	
< Back Next >	Cancel

**Note**: The units can be changed in PRIZM and XSection after installation.

Select the appropriate **Units** option and click **Next** to proceed to the **Ready to Install the Program** step of the wizard.

### End User Installation Custom STEP 9 - Ready to Install the Program

This is the second to last step of the wizard.

B GeoGraphix 2019.1 - InstallShield Wizard
GeoGraphix GVERSE
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, dick Back. Click Cancel to
exit the wizard.
InstallShield
< Back Install Cancel

Click **Install** to copy files and begin installing the software, or click **Back** to review and make any changes as necessary.

### End User Installation Custom STEP 10 - InstallShield Wizard Completed (FINAL STEP)

After the Install button is clicked in the **Ready to Install the Program** step, files are installed to the workstation.

😸 GeoGrap	hix 2019.1 - InstallShield Wizard
KR	GeoGraphix GVERSE
Installing	GeoGraphix 2019.1
The prog	ram features you selected are being installed.
1	Please wait while the InstallShield Wizard installs GeoGraphix 2019.1. This may take several minutes.
	Status:
	Copying new files
InstallShield	
	< Back Next > Cancel

When installation is finished, the InstallShield Wizard Completed dialog box appears.



Click Finish to exit the installation.

The installed software can now be started through Desktop shortcuts, or Start Menu Programs.

<u>Note</u>: LMKR licensing is installed before or after the Discovery master installation steps. When the Discovery applications are started through Desktop shortcuts or Start Menu Programs, a licensing check is performed on the workstation. Please refer to the <u>LMKR License Management Tool</u> section for further details.

### Network Administrator Installation

There are several possible installation configurations and methods that could be used for deploying Discovery in a network environment. The best method for your particular situation depends upon the number of users and your network environment.

There are at least 3 important components to consider in any network environment:

- LMKR License Management Tool
- Workstation Installation
- Discovery Project Server (Optional)

**Note**: If you only have the download of the setup and not the DVD media you will need to use the Workstation Setup files located on the Discovery Utilities under Extras/Workstation files.

If you have any questions or issues with your particular network environment, please do not hesitate contacting <u>GeoGraphix Technical Support</u>.

### **Network License Server**

The LMKR License Management Tool must be installed to use Discovery and GVERSE Products in a network environment. Download the tool from the LMKR Support Portal > <u>Downloads</u> page and follow the installation instructions.

After the server is set up, when the **License Management Tool** runs on the client computer, choose the **I** want to setup or manage a network license server on this computer option and enter the required information.

For more information on the license wizard see the <u>LMKR Licensing</u> section.

### Workstation Installation

Caution:				
General	<ul> <li>The following conditions must be met before you can install the Discovery 2010 1 coftwares</li> </ul>			
Installation Requirements	<ul> <li>Discovery 2019.1 software:</li> <li>You must have Administrative Rights to the local computer that will run the install.</li> </ul>			
- please refer to the <u>System</u> <u>Requirements</u> for a complete list	<ul> <li>Must have Internet Explorer 10 or 11 installed.</li> <li>Microsoft .NET 4.5.1 must be installed.</li> <li>Must have networking installed including the <i>TCP/IP</i> protocol.</li> <li>Microsoft DirectX End-User Runtime (June 2010) is required to run Discovery 3D, Pro3D, smartSECTION, and GVERSE Geomodeling.</li> <li>GVERSE Field Planner requires MATLAB Runtime R2018a (9.4).</li> <li>This software should only be installed on <i>Windows®</i> 7 or 10, or <i>Windows® Server 2008</i> or 2012 operating systems.</li> </ul>			

The workstation installation in a network environment can be initiated from the LMKR download or directly from the Release DVD or by creating an Application Distribution site:

- Using LMKR download or Release DVD
- Using Application Distribution Site

### Using LMKR Download or Release DVD

Workstation installations directly from the LMKR download or the Release DVD are quite acceptable if you do not mind configuring the installation at each workstation. The installation could be shared on a network drive or carried from workstation to workstation.

The installation procedure for workstation installations directly from LMKR or the release DVD is identical to the <u>End User Installation</u>.

<u>Note</u>: Licensing will need to be configured on each workstation. The configuration can be set with the <u>LMKR License Management Tool</u>.

### Using the Application Distribution Site

Workstation Installations with an Application Distribution Site can save considerable configuration time at the workstation and can even be automated to create unattended, silent installations for the workstation.

There are 6 steps involved with performing Workstation Installations using an Application Distribution Site:

- STEP 1: <u>Administrative Install Start >> Run</u>
- STEP 2: <u>Administrative Install InstallShield Wizard Startup</u>
- STEP 3: <u>Administrative Install Network Location</u>
- STEP 4: <u>Administrative Install InstallShield Wizard Completed</u>
- STEP 5: <u>Configure Application Distribution Site</u>
- STEP 6: Install to Workstations

### Create Application Distribution Site STEP 1 – Administrative Install – Start >> Run

An administrative installation is generally started with a Run "setup.exe" command containing the "/a" parameter.

A Run command can be configured in the standard Windows<sup>®</sup> Run dialog box. This dialog box can be accessed from the Windows Taskbar **Start** menu and **Start** >> **Run**.

If the GeoGraphix Discovery 2019.1 DVD is in a DVD-Drive with assigned drive letter of "E", then the command line would be the same as the one in the Run dialog box below:

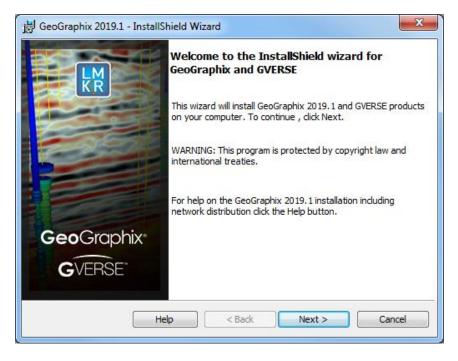
📼 Run	×
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	E:\Setup\Setup.exe/a ▼
	OK Cancel Browse

### Create Application Distribution Site STEP 2 – Administrative Install – InstallShield Wizard Startup

After configuring the Run command in STEP 1 – Administrative Install – **Start >> Run**, the InstallShield wizard is started...

Preparing to Install
GeoGraphix 2019.1 Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
Extracting: GeoGraphix 2019.1.msi
Cancel

The Welcome to the InstallShield Wizard for Discovery 2019.1 appears on your screen.



Click Next to proceed to the Network Location step of the wizard.

**<u>Note</u>**: Clicking the **Help** button will open the GeoGraphix Installation Guide help window.

### Create Application Distribution Site STEP 3 - Administrative Install - Network Location

This step of the wizard determines the location where the distribution site will be created on the network.

-

B GeoGraphix 2019.1 - InstallShield Wizard					
GeoGraphix GVERSE					
Change Current Destination Folder					
Browse to the destination folder.					
Look in:					
🛉 GeoGraphix 🔹 🔁					
Eolder name:					
C:\Program Files (x86)\GeoGraphix\					
InstallShield					
OK Cancel					

Option	Description
Network location:	Specify the network mapped drive/path or UNC path where the distribution site will be created.
	<b><u>Note</u>:</b> A User running an administrative installation must have permissions to write to the designated Network location.
	Discovery Release Setup contents will be copied and decompressed to this network location.
Look in:	The Look in list box shows the current destination folder. Click the Down Arrow in the Look in list box to navigate to a new destination folder           Mote         The New Folder command button         Image: Click the used to create of the use the use the up One Level command button         Image: Click the used to create of the used to create of the used to create of the use the up One Level command button
	When a new destination is set, click <b>OK</b> to return to the <b>Network Location</b> dialog box.

Click **Install** to copy files and create network distribution site.

### Create Application Distribution Site STEP 4 - Administrative Install - InstallShield Wizard Completed

After **Install** is clicked in the Network Location step, installation files are decompressed and copied to the network location that was designated in STEP 3 - Administrative Install - Network Location.

And when the installation is finished, the InstallShield Wizard Completed dialog box appears:



The Network Application Distribution Site should contain the following folders and files at this point:

Name	Date modified	Туре	Size
퉬 Setup	1/16/2019 4:52 PM	File folder	
퉬 Utilities	1/16/2019 4:53 PM	File folder	
AUTORUN	10/23/2008 2:24 AM	Setup Information	1 KB
Backup of Demo.dbd	10/30/2018 5:09 PM	DBD File	968 KB
🛃 closing	9/23/1997 2:06 AM	Bitmap image	31 KB
Demo.dbd	1/16/2019 3:10 PM	DBD File	968 KB
Demo.dsj	1/16/2019 3:10 PM	DSJ File	1 KB
🚳 ds32.dll	8/11/2000 3:25 PM	Application extens	28 KB
🛂 Install	11/14/2000 3:39 AM	Application	384 KB
😰 Setup_Instructions	1/13/2019 10:19 PM	Compiled HTML	2,418 KB

In the next step, the setup.ini of the application distribution site will be configured for distribution to the workstations.

<u>Note</u>: Running the setup.exe in the application distribution site could be used at a workstation to install Discovery software, but configuring the setup.ini can save time and even be automated to create an unattended, silent installation for the workstations.

#### Create Application Distribution Site STEP 5 - Configure Application Distribution Site

After all the necessary files have been copied and decompressed to the Application Distribution Site with the Administrative Install in the previous steps, the Application Distribution site needs to be configured for your particular network environment.

<u>Note</u>: If you only have the download of the setup and not the DVD media, you will need to use the Workstation Setup files located on the GeoGraphix Utilities under Extras\Workstation files.

This involves editing some of the existing command variables (such as, User Name, Company Name, etc.) or adding commands along with variables to the "**Setup.ini**" file on the Application Distribution Site.

Look for the [Startup] section in the "Setup.ini":

Setup - Notepad	
<u>File E</u> dit F <u>o</u> rmat <u>V</u> iew <u>H</u> elp	
[Info] Name=INTL Version=1.00.000 DiskSpace=8000 ;DiskSpace requiremen	t in KB
[Startup] CmdLine= SuppressWrongOS=Y ScriptDriven=2 ScriptVer=24.0.0.573 DotNetOptionalInstallIfSilent=N	E
OnUpgrade=1 Product=GeoGraphix 2019.1 PackageName=GeoGraphix 2019.1.msi EnableLangDlg=N LogResults=N DoMaintenance=N	
ProductCode={D2334B69-3B95-43BF-AD28- ProductVersion=19.1.19005.0 UpgradeCode={F1F48CFB-C870-4494-B8AA- SuppressReboot=Y LauncherName=GeoGraphix Discovery.exe WaitInstallation=Y PackageCode={89EADCE8-306A-4C95-92B3-	7C403790EA32}
[Languages] RequireExactLangMatch=0x0404,0x0804 RTLLangs=0x0401,0x040d Default=0x0409 Supported=0x0409	2172303220033
[MsiVersion] 3.1.4000.2435=SupportOSMsi30	
[SupportOSMsi11] ;Supported platforms Win95=1 Win98=1 WinNT4SP3=1	for MSI 1.1

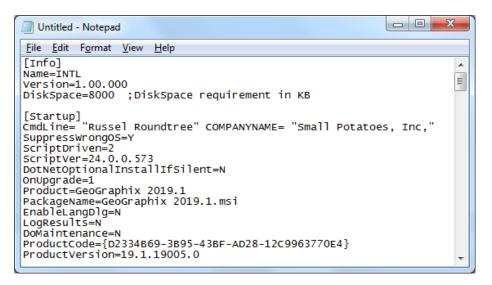
The following table lists some commands and variables that may be used on the CmdLine in the "Setup.ini":

Command	Variable (quotes required where shown)	Description
USERNAME	"Text string"	The variable value within quotes will be used for the User Name field in the <u>Customer Information</u> dialog.
COMPANYNAME	"Text string"	The variable value within quotes will be used for the Organization field in <u>Customer Information</u> dialog.
ADDLOCAL (This command can be used to install specific Discovery applications. It is very similar to choosing specific features in a <u>custom</u> install. If this command is not used, then a <u>typical</u> install is run.)	"AOLibCopier, Apps, BlendSDK, BlendSDK_DE, BlendS DK_EN, BlendSDK_ES, BlendSDK_FR, BlendSDK_IT, Ble ndSDK_JA, BlendSDK_KO, BlendSDK_ZH_HANS, Blend SDK_ZH_HANT, BlueMarble, BlueMarble. Release, Blu eMarble64, BlueMarble64. Release, C. Core 64, C. Filters, C. Filters64, ChartEditor, CurveNormalization , DataCore, DataDirect7.1.1, DepthRegistration2, Disc overy, Discovery3D, DiscoverySDK, DotNet. Core, DotN et. Core64, DotNet. Filters, DotNet. Filters64, Drivers, D rivers64, Enerdeq, EventLogging, Extended. WPFToolk it, Extended. WPFToolkit64, FieldPlanner, Files32, Files 64, FilesGAC, GES, GGXOfficeEDBServiceHost, GGXOffi ceSpreadsheetServiceHost, GGXServiceHost, GVERSE , GVFPlanner, GVGeomodeling, GVGeophysics, GVPla nner, GeoGraphixDiscovery, GeoGraphixPMServices, HAL. Cosmo, HAL. Cosmo64, Help, HelpSystem, Infragis tics, LandmarkConnectivity, LeadTools, LeadTools64, MapObjects. Common, MapObjects. Release, MathNe t. Numerics, MathNet. Numerics64, Modeling, Module s, Prizm, ProjectDatabaseRebuilder, ProjectServer, Pr ojects, Providers, Reveal3D, RogueWave. Release, Rog ueWave64. Release, SQLAnywhere17, Services, Simag e1. Release, Simage164. Release, System, System64, Sy stemCore, Tools, ToolsCore, ToursAndTutorials, TracPl annerUtilities, VC10_Runtime, VC11_Runtime, VC12_ Runtime, VC8_Runtime, VC9_Runtime, WPFToolkit, W PFToolkit64, WellXchange, WindowsSystemCore, Win dowsSystemFiles, Wizards, Xceed, ggx. Modules. GeoA tlas, ggx. Modules. Log, ggx. Providers. Discovery, ggx. Providers. Log, ggx. Providers. Well, smartSECTION" <b>Note:</b> This command is on one line with no spaces.	This variable value would install all the necessary features for GeoGraphix only. <u>Note:</u> If the ADDLOCAL command is used, then the ALLUSERS command must also be used. Moreover, instead of specifically mentioning the application names, the ALL keyword can also be used.

ALLUSERS	1 "Local Drive:\Folder"	If the ADDLOCAL command is used, then the ALLUSERS command must also be used.The ALLUSERS command 
		installation. <u>Note:</u> If this command is not used, a Projects folder will be installed by default to C:\Documents and Settings\All Users\Application Data\GeoGraphix\Projects. If a previous local projects folder is detected by the install, then the local projects folder will be installed to the previous detected path\folder.
UNITS /q, /qn	"English" OR "Metric" OR "CnMetric" Not applicable	This command can be used to make selections normally made in step 8 of custom end user installation.No UI seen during
/q, /qii	Not applicable	installation. Basic UI seen during installation. qb! can be used to hide the Cancel button.
/qr	Not applicable	Reduced UI seen during installation. No modal dialog box displayed at the end of the installation.
/qf	Not applicable	Full UI seen during installation.

/qn+	Not applicable	No UI seen during installation except for a modal dialog box displayed at the end of the installation.
/qb+	Not applicable	Basic UI with a modal dialog box seen at the end of the installation. qb+! or qb!+ can be used to hide the Cancel button.
/qb	Not applicable	Basic UI with no modal dialog boxes seen during installation.

After removing the comment sign (";") and editing or adding variables in CmdLine, your "**Setup.ini**" CmdLine may look similar to the following example (other commands can exist):



**Note**: Only a small portion of the "Setup.ini" is displayed above.

Using Application Distribution Site - STEP 6 - Install to Workstations (FINAL STEP)

After the application distribution site is configured for your network environment, Discovery applications can now be deployed to the workstations.

You can deploy Discovery applications to the workstations by sharing the application distribution site with the workstations and running "setup.exe" in the application distribution site (similar to the End User Installation).

#### 

You may want to utilize scripts or 3rd party tools such as Microsoft<sup>®</sup> SMS or InstallShield<sup>®</sup> AdminStudio that take advantage of Microsoft<sup>®</sup> Windows Installer technology for workstation deployment.

This is the last step in a Workstation Installation using an Application Distribution Site.

#### **Discovery Project Server (Optional)**

Creating a *Discovery* Project Server is an optional third component in a network administrator installation. It is a very important consideration if you want to store Discovery projects on a central server, then share those projects across the network for multiple users.

<u>Note</u>: A Workstation Installation will create a local projects folder on every workstation with GeoGraphix *Discovery* installed, so all workstations can create and store projects on their local hard drive. Local projects can also be shared between users on the network if the project properties in ProjectExplorer are set to network access. Please refer to the ProjectExplorer Help files for more information on local projects versus network projects.

A *Discovery* Project Server can be created with a custom installation using the Discovery 2019.1 download or Release DVD.

<u>Note</u>: This installation must be performed on the server that will become the *Discovery* Project Server. This server must have access to the <u>LMKR License Management Tool</u> (this server may also be the License Server).

There are 10 steps involved with creating a *Discovery* Project Server:

- STEP 1 Getting Started with Discovery download or Release DVD
- STEP 2 InstallShield Wizard Startup
- STEP 3 License Agreement
- STEP 4 <u>Customer Information</u>
- STEP 5 <u>Setup Type (Typical vs. Custom)</u>
- STEP 6 <u>Custom Setup</u>
- STEP 7 Local Projects Folder
- STEP 8 Log Units of Measurement
- STEP 9 <u>Ready to Install the Program</u>
- STEP 10 InstallShield Wizard Completed

# Discovery Project Server - STEP 1 - Getting Started with the Discovery Download or Release DVD Before starting the installation, make sure that all open applications are closed.

If you have downloaded Discovery 2019.1, go to the **download** folder and double-click on the **Discovery2019.1Setup.exe** file to begin. You will proceed directly to <u>STEP 2 - InstallShield Wizard Setup</u>.

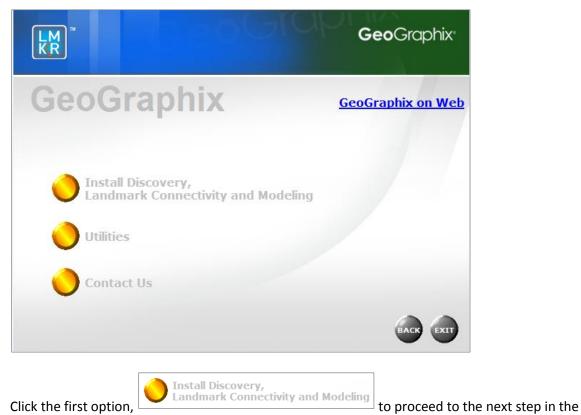
If you have ordered the **Discovery 2019.1 DVD**, continue through this step.

Insert the **Discovery/Landmark Connectivity/Seismic Modeling DVD-ROM** into the DVD-Drive.

The GeoGraphix splash screen appears for a few seconds.

<u>Note</u>: If the GeoGraphix splash screen does not appear automatically, go to the Start menu, and choose **Run**. In the Run dialog box, browse to the appropriate DVD-ROM drive and select the **Install.exe** file. Click **OK**.

After the Splash Screen appears for a few seconds, the GeoGraphix install window appears.



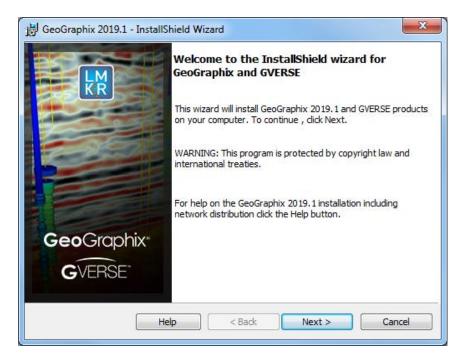
Discovery Project Server Installation.

#### Discovery Project Server - STEP 2 - InstallShield Wizard Startup

After clicking **Install Discovery, Landmark Connectivity, and Modeling** in the previous step, the InstallShield wizard starts.

Preparing to Install
GeoGraphix 2019.1 Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
Extracting: GeoGraphix 2019.1.msi
Cancel

The Welcome to the InstallShield Wizard for GeoGraphix and GVERSE appears on your screen.



**<u>Note</u>**: Clicking the **Help** button will open the Installation Guide help window.

Click the **Next** button to proceed to the license agreement step of the installer.

#### Discovery Project Server - STEP 3 - License Agreement

The software license agreement is displayed in this step of wizard.

븅 GeoGraphix 2019.1 - InstallShield Wizard		
GeoGraphix GVERSE		
License Agreement		
Please read the following license agreement carefully.		
END USER LICENSE AGREEMENT		
PLEASE READ THIS END-USER LICENSE AGREEMENT ("EULA") CAREFULLY BEFORE USING THE SOFTWARE. THE FOLLOWING TERMS CONSTITUTE A BINDING LEGAL AGREEMENT BETWEEN YOU AND LMKR HOLDINGS, ITS SUBSIDIARIES, AFFILIATES AND ASSIGNS (COLLECTIVELY "LMKR") CONCERNING SPECIFIED SOFTWARE PRODUCT(S) ("SOFTWARE PRODUCT" OR "SOFTWARE"). BY ACCESSING, INSTALLING, COPYING OR OTHERWISE USING ALL OR ANY PORTION OF THE SOFTWARE, YOU AGREE TO BE BOUND BY THE TERMS OF THIS EULA.		
IF YOU ARE NOT WILLING TO BE BOUND BY THE TERMS OF THIS EULA, YOU SHOULD CLICK THE "CANCEL", TERMINATE THE DOWNLOAD AND/OR INSTALLATION PROCESS,		
<ul> <li>I accept the terms in the license agreement</li> <li>I do not accept the terms in the license agreement</li> </ul>		
InstallShield		
< Back Next > Cancel		

Select the I accept the terms in the license agreement radio button.

Click Next to proceed to the Customer Information step of the wizard.

#### Discovery Project Server - STEP 4 - Customer Information

Customer Information appears in this step of the wizard.

谩 GeoGraphix 2019.1 - InstallShield Wizard	×
GeoGraphix	<b>G</b> VERSE <sup>®</sup>
Customer Information	
Please enter your information.	
User Name:	
D.Boucher	
Organization:	
LMKR	
InstallShield	
< Back Next >	Cancel

Enter your User Name and Company Name.

Click **Next** to proceed to the **Setup Type** step of the wizard.

#### Discovery Project Server - STEP 5 - Setup Type (Typical vs. Custom)

The type of setup (Typical vs. Custom) and the application destination folder is selected in this step of the wizard.

BeoGraphix 2019.1 - InstallShield Wizard		
	GeoGraphix GVERSE	
Setup Type		
Choose the se	tup type that best suits your needs.	
Please select a setup type.		
Typical	Installs GeoGraphix and GVERSE Products. Tours and Tutorials for GeoGraphix are also installed.	
© Custom	Installs the selected GeoGraphix program features and GVERSE Products at the specified location.	
Install to: C:\Program File	es (x86)\GeoGraphix\ Change	
InstallShield		
	< Back Next > Cancel	

Option	Description	
Typical option:	<ul> <li>Choosing this option will install:</li> <li>GVERSE products (Geomodeling, Field Planner, Planner).</li> <li>GeoGraphix (GeoGraphix, PRIZM, GVERSE Geophysics and smartSECTION), and Modeling (LogM, STRUCT).</li> <li>Tours and Tutorials for GeoGraphix.</li> </ul>	
	<b>Note:</b> A local projects folder will be installed by default to: C:\ProgramData\GeoGraphix\Projects (for Windows <sup>®</sup> ). If a previous local projects folder is detected by the install, then the local projects folder will be installed to the previous detected path\folder.	
Custom option:	Choosing this option then clicking Next will open a <u>Custom Setup</u> dialog box to choose features to be installed.	

Install to:	<ul> <li>This is the path/folder where applications will be installed on the computer.</li> <li>Note: <ul> <li>If GeoGraphix software has been installed on this computer before, then the "Install to: "will reflect path/folder of the previous installed to, if not the default path id C:\Program Files (x86)\GeoGraphix.</li> <li>GVERSE products will be installed on their default path C:\Program Files\LMKR\GVERSE.</li> </ul> </li> <li>The Change command button can be used to change path/folder destination of the application.</li> </ul>
Change command button:	Clicking this button will open a standard Windows <sup>®</sup> <b>Browse/Open</b> dialog box to change the application destination folder. <u>Note</u> : The path/folder must be a local hard drive.

To create a Discovery Project Server, select the **Custom** option and click **Next** to proceed to the **Custom Setup** step of the wizard.

<u>Note</u>: A Discovery Project Server can be created by using the Typical setup type and installing all the Discovery applications, but a Custom setup type may be preferred because the installation options can be customized.

#### Discovery Project Server - STEP 6 - Custom Setup

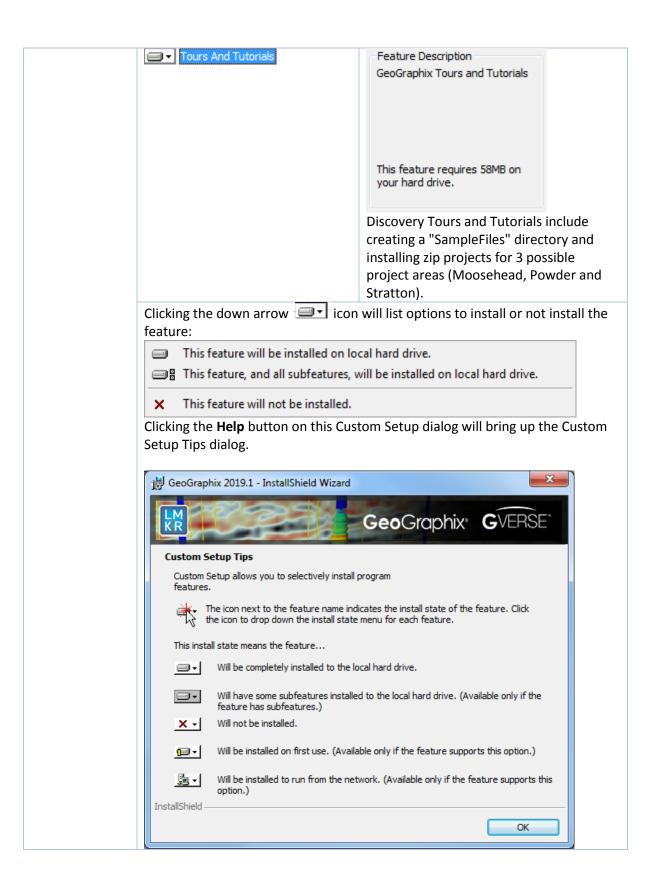
This step of the wizard can be used to select certain features to be installed and change the application destination directory.



For details on the various options available in this dialog, refer to the table below:

Option	Description	
List Box and	When a feature is selected in list box, a description of the feature will appear at	
Feature	right in the Feature Description box.	
Description:	GVERSE	Feature Description GVERSE software suite of high performance geoscience software
		This feature requires 0KB on your hard drive. It has 3 of 3 subfeatures selected. The sub
	Geomodeling	Feature Description GVERSE Geomodeling application with integrated Map, 3D and Cross Section Views
		This feature requires 7949KB on your hard drive.
		Frank va Danavistika
	FieldPlanner	Feature Description GVERSE Field Planner application to create manual and automatic field plans for unconventional reservoirs
		This feature requires 102MB on your hard drive.
	Planner <u>Note:</u> If GVERSE Planner is not installed at the time of GeoGraphix 2019.1 installation, you can use the Custom Installation wizard to install	Feature Description GVERSE Planner application to calculate the trajectories for wells
	GVERSE Planner. However, in this scenario, the GVERSE Planner icon will not appear in the GeoGraphix toolbar. To fix this, perform the following steps: 1- Open Command Prompt (Start >> Accessories >> Command	This feature requires 30MB on your hard drive.

Prompt) using Administrator	
privileges. 2- Enter the following command: "C:\Program Files\LMKR\GVERSE \Planner\GVPlanner.exe" /register 3- Press Enter.	
GeoGraphix	Feature Description GeoGraphix applications, Project Services and Tours and Tutorials
	This feature requires 0KB on your hard drive. It has 3 of 3 subfeatures selected. The sub
Seismic Modeling	Feature Description Seismic Modeling: LogM and Struct
	This feature requires 85MB on your hard drive.
	Factors Description
Applications	Feature Description GeoGraphix including Prizm, GVERSE Geophysics, smartSECTION and 3D Viewer
	This feature requires 2KB on your hard drive. It has 0 of 1 subfeatures selected. The sub
Applications	Feature Description Utilities needed for GeoGraphix and TracPlanner such as
<u>Note</u> : The TracPlanner Xpress Utility is not selected by default. To install the TracPlanner Xpress Utility, click the down arrow and select an installation option from	pdbin.exe, services.dat, etc. This feature requires 0KB on your hard drive.
the drop-down list. Installation of this utility is not necessary if OpenWorks for Windows is installed.	



Install to:	This is the path/folder whe <b>Note:</b>	ere application	s will be insta	illed on the com	puter.
	<ul> <li>If GeoGraphix soft then the "Install to if not the default p</li> <li>GVERSE products v Files\LMKR\GVERSE</li> </ul>	o: "will reflect p bath id C:\Prog will be installed	oath/folder o ram Files (x86	f the previous in 5)\GeoGraphix.	istalled to,
Change command button:	Clicking this button will op change the application des			<b>owse/Open</b> dia	llog box to
command button	dialog box shows the capa the application, along with <b>Required</b> disk space for th <u>Note</u> : The <b>Available</b> disk sp application exceeds the <b>Available</b> suggested on the dialog box GeoGraphix 2019.1 - InstallSh <b>Disk Space Requirements</b> The disk space required for the inselected features.	the Available e application. pace is highligh vailable disk sp ox so you can c ield Wizard Ge	disk space or nted if the <b>Re</b> ace. Use any omplete the	n the drive and t <b>quired</b> disk space of the remedies	the ce for the
	Volume	Disk Size	Available	Required	1
	C:	172GB	83GB	4725MB	
		292GB	240GB	OKB	
				4	
	The highlighted volumes do not hav features. You can remove files from local drives, or select different des	n the highlighted volu			
	InstallShield			ОК	

Select features to be installed and click **Next** to proceed to the **Local Projects Folder** step of the wizard.

#### Discovery Project Server - STEP 7 - Local Projects Folder

This step of the wizard determines the location where the local projects folder (path/folder) will be created during the installation.



Clicking the **Change** command button will open a **Change Current Destination Folder** dialog box where you can change the application destination folder.

**Note:** The Local Projects Path\Folder must be a local hard drive.

After installation is complete (as the text in the dialog box indicates), projects on the Discovery Project Server can be organized in Homes using **ProjectExplorer** >> **File** >> **New** >> **Home**. More information regarding network projects can be found in the ProjectExplorer Help files.

Click Next to proceed to the Log Units of Measurement step of the wizard.

#### Discovery Project Server - STEP 8 - Log Units of Measurement

This step of the wizard determines which default log units will be setup for PRIZM and XSection.

B GeoGraphix 2019.1 - InstallShield Wizard	
GeoGraphix	<b>G</b> VERSE <sup>T</sup>
Select Log Units Of Measurement	
Select the preferred units for log display. Settings can be changed after installation.	
English - Vertical scale in inches/100 feet, Bulk Density in gm/cc, Sonic in in inches.	µs/ft and Caliper
$\bigcirc$ Metric - Vertical scale in ratio, Bulk Density in gm/cc, Sonic in $\mu s/ft$ and C	aliper in inches.
$\odot$ Canadian Metric - Vertical scale in ratio, Bulk Density in kg/m³, Sonic in $\mu$ millimeters.	s/m and Caliper in
InstallShield	Cancel
	Carlee

**Note:** The units can be changed in PRIZM and XSection after installation.

Select the appropriate **Units** option and click **Next** to proceed to the **Ready to Install the Program** step of the wizard.

#### Discovery Project Server - STEP 9 - Ready to Install the Program

This is the second to last step of the wizard.

B GeoGraphix 2019.1 - InstallShield Wizard
GeoGraphix GVERSE
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, dick Back. Click Cancel to
exit the wizard.
InstallShield
< Back Install Cancel

Click **Install** to copy files and begin installing the Discovery software, or click **Back** to review and make any changes as necessary.

#### Discovery Project Server - STEP 10 - InstallShield Wizard Completed (FINAL STEP)

After the **Install** button is clicked in the Ready to Install the Program step, files are installed to the workstation.

🛃 GeoGrap	hix 2019.1 - InstallShield Wizard
KR	GeoGraphix GVERSE
Installing	GeoGraphix 2019.1
The prog	ram features you selected are being installed.
12	Please wait while the InstallShield Wizard installs GeoGraphix 2019.1. This may take several minutes.
	Status:
	Copying new files
InstallShield -	
	< Back Next > Cancel

When the installation is finished, the InstallShield Wizard Completed dialog box appears:



Click **Finish** to exit the installation.

Discovery can now be started through the desktop shortcuts or the Start menu.

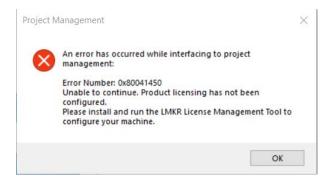
<u>Note</u>: The Discovery Project Server must now be configured to connect to the LMKR Licensing Management Tool. When the Discovery application is started through desktop shortcuts or the Start menu, a licensing check is performed on computer. Please refer to <u>LMKR Licensing Management Tool</u> for further details.

This is the final step in creating a Discovery Project Server. If necessary, other components in a Network Administrator Installation (such as Workstation Installations) may now be installed.

#### LMKR Licensing

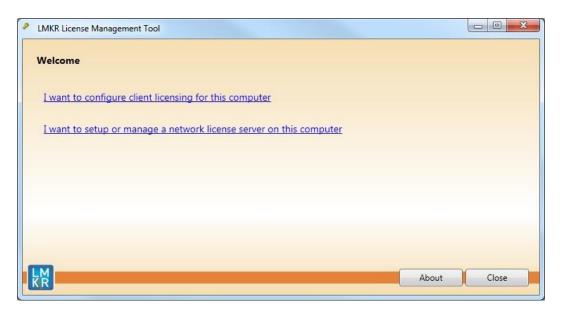
#### LMKR License Management Tool

If no license is configured for Discovery and GVERSE products, the following message appears:



All of the licensing of Discovery and GVERSE products is configured using this tool. Use this tool to set a license for a single computer or to set up a network license on a server.

Once the LMKR License Management Tool is accessed, launch it by selecting **Start >> All Programs >>** LMKR >> Licensing >> License Management Tool.



You can access a <u>client license</u> for a computer by clicking the I want to configure client licensing for this computer command on the Welcome Page.

You can set up a <u>network license</u> by clicking the I want to setup or manage a network license server on this computer command on the Welcome Page.

#### Client License

Setup a client License by clicking the I want to configure client licensing for this computer option on the <u>Welcome page</u> of the LMKR License Management Tool.

LMKR License Management Tool	
Client Licenses	
C:\ProgramData\LMKR\Licensing\Client1.lic	
27000@LMKRLicenseServer	
	Move Up
	Move Down
Upload File Add Server Remove View	]
Back	Next

Use this page to select a client license for installation from your local computer or from a server. Use the buttons at the bottom and the right-hand side of the window to add servers to the list, remove servers from the list, or move the servers up or down the list. The LMKR License Management Tool will look for license files on each server in order, from top to bottom.

Click the **Upload File** button to begin the search for a license file locally.

Click the **Add Server** button to point to a client license on a server.

If you want to select a license file from a specific server, highlight that server in the list and click the **Upload File** button.

Click the **Next** button to view the validation of the license.

When license has been configured properly, the **License Validation** page will confirm that the license **Passed**. If the license is not valid or if the network connection is not functioning properly, the validation page will list the license as **Failed** (as shown below).

Client1.lic - Fail	There was an issue during Checkout : Status : Error	1
	LMKR Error - Number -6023 : No providers could supply 1 license(s) for feature	
	"LMKR_LICENSING_TEST (1.0)". Flex Error - Number 1 :	
	Flex error - Number 1 :	
	Status : Information	
	LMKR Error - Number -2932 : Provider "C:\ProgramData\LMKR\Licensing\Client1.lic" could	
	not supply 1 license(s) for feature "LMKR_LICENSING_TEST (1.0)".	
	Flex Error - Number -10 : Feature has expired.	
	Feature: LMKR_LICENSING_TEST	
	Expire date: 22-nov-2014	
	FLEXnet Licensing error:-10,32	
	E CALLER AND CALLERY AND A REPORT OF A	
	For further information, refer to the FLEXnet Licensing documentation, available at "www.flexerasoftware.com".	
	Expire date: 22-nov-2014 License path: C:\ProgramData\LMKR\Licensing\Client1.lic; FLEXnet Licensing error:-10.32	

#### Network License

You can configure a Network license by clicking the I want to setup or manage a network license server on this computer command on the <u>Welcome page</u> of the LMKR License Management Tool.

Service Name	LMKR Lice	ense Service	Remove	
Port Number	0	V Auto		
License File	C:\Progra	mData\LMKR\Licensing\Server.lic	Upload	View
Upload From	C:\Progra	m Files\LMKR\Licensing\Discovery_counted_permanent_Server.lic		View
Log File	C:\Progra	mData\LMKR\Licensing\LMKR License Service.log	Browse	
Lmkr.exe	C:\Progra	m Files\LMKR\Licensing\LMKR.exe		
Lmgrd.exe	C:\Progra	m Files\LMKR\Licensing\Imgrd.exe		

The **Update Service** page will appear showing the location of the license server. This page lists the location of where a license server is installed on the local computer.

Click the **Next** button to access the **Service Name** page where you can Start, Stop, Validate, or View the debug log.

LMKR License Ma	inagement Tool				
Service Name LM	MKR License Service				
Start	Stop	Restart			
	View Log	Validate			
_					
KR				Back	Done

#### Landmark Connectivity Installation

Installing Landmark Connectivity will install the following Discovery applications/features:

- WellXchange
- GridXchange
- SeisXchange

Landmark Connectivity will be installed by default with the Discovery <u>Typical</u> setup type installation or can be custom installed by selecting the Landmark Connectivity feature in the Discovery <u>Custom</u> setup type of the installation.

#### Caution:

**Note:** To run SeisXchange, and GridXchange, <u>Landmark OpenWorks for Windows</u> **5000.10.6.03 and** its associated software components must also be installed.

In addition, if you are utilizing SeisXchange, an NFS application such as Hummingbird<sup>®</sup> NFS Maestro must also be installed and the configuration of several components to access SeisWorks will be necessary. (This does not apply to WellXchange-OpenWorks Connect or GridXchange.)

Please refer to <u>Preparing the SeisXchange Environment</u> for further information if you will be utilizing SeisXchange and Geophysics on OpenWorks.

Go to: OpenWorks for Windows

Go to: Preparing the SeisXchange Environment

Return to: Installation

**OpenWorks for Windows** 

<u>Note</u>: Discovery on OpenWorks projects, GridXchange, and SeisXchange require OpenWorks for Windows.

Please refer to the OpenWorks Installation Procedures for detailed, step-by-step instructions for installing OpenWorks for Windows. This document discusses installing all the software components associated with OpenWorks for Windows:

<u>Note</u>: The OpenWorks full install requires Hummingbird Exceed. The Oracle client installation in use with OpenWorks Full requires that the "Administrator" option be selected. The "Administrator" option type includes the SQL Plus, the Oracle Database Utilities, and other components necessary to run Discovery on OpenWorks

<u>Note:</u> Hummingbird exceed is not required for the OpenWorks Basic install. If OpenWorks Basic installation is used, the Oracle client installation can use the "Administrator" option, which will include all of the needed components. Or, the Oracle client installation for the OpenWorks Basic installation can use the "Custom" installation type. However, with the Custom install type the following components must be installed:

- Oracle Database Utilities 12.1.0.2
- SQL \*Plus 12.1.0.2
- Oracle JDBC/THIN Interfaces 12.1.0.2
- Oracle Net 12.1.0.2

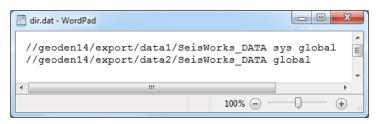
You may experience the following error related to Oracle installation:

The SQLLoader.exe error may generate when working with Filters in GeoGraphix due to a missing Oracle DLL file. This is a known issue of Oracle 12.1.0.2 where oranfsodm12.dll is not shipped with the installer. **Workaround:** After Oracle installation, create a copy of the oraodm12.dll file, rename it as oranfsodm12.dll, and then place the renamed file in the BIN folder of both 32-bit and 64-bit Oracle installations.

#### Preparing the SeisXchange Environment

Once <u>OpenWorks for Windows</u> along with <u>Discovery</u> are in place, the installation and configuration of an NFS application, along with configuration of the dir.dat file to access SeisWorks, will be necessary if SeisXchange or Geophysics on OpenWorks will be utilized:

- 1. Install and configure the NFS application as necessary.
- 2. Export the required UNIX<sup>®</sup> /LINUX<sup>®</sup> SeisWorks file systems for NFS.
- 3. Verify that all the required NFS daemons are running on the UNIX<sup>®</sup> /LINUX<sup>®</sup> computer.
- 4. Configure the Windows<sup>®</sup> environment variable OW\_CONF\_DIR (which defaults to \$OWHOME/conf where the district.dat file is located), which will point to the location of the dir.dat file associated with the district.
- 5. Configure the dir.dat (example shown below) to find exported SeisWorks file systems.



### Utilities

You can install the Discovery 2019.1 Utilities from the download section of the Discovery 2019.1 Software from the LMKR Support Portal > <u>Downloads</u> page or from the Discovery 2019.1 Release DVD.

If you have downloaded Discovery 2019.1 from LMKR, see the **GeoGraphix Discovery 2019.1 Utilities Read Me** to install the Utilities. Click on the **Install Guide** button to open the **GeoGraphix Discovery 2019.1 Utilities Read Me** file.

If you have downloaded Discovery 2019.1 from the LMKR website, go to the **download folder** (for XP 64bit Operating Systems), or the folder you specified to save the Utilities folder during the download, and double-click on the specific Utility executable file to begin.

If you have ordered the **Discovery 2019.1 DVD**, continue through this step.

Insert the **Discovery/Landmark Connectivity/Seismic Modeling DVD-ROM** into the DVD-Drive. If you have ordered the Discovery 2019.1 DVD insert the Discovery/Landmark Connectivity/Seismic Modeling DVD-ROM into the DVD-Drive.

The GeoGraphix splash screen appears for a few seconds.

**Note:** If the GeoGraphix splash screen does not appear automatically, go to the Start menu, and choose **Run**. In the Run dialog box, browse to the appropriate DVD-ROM drive and select the **Install.exe** file. Click **OK**.

After the Splash Screen appears for a few seconds, the Install Options window appears.





There are two utilities available on the Utilities screen:

- Install PRIZM Chart Utility
- Install SeisVision SEG-Y Trace Viewer

#### Utilities - Install PRIZM Chart Utility

If you have downloaded the Discovery 2019.1 Utilities and used the default settings, the PRIZM Chart Utility folder will be in the C:\Program Files (x86)\GeoGraphix\Utilities folder (for a typical download on a Windows® (64-bit) operating systems). If you have not used the default settings during the download, navigate to the folder specified for saving the Utilities. Clicking Setup.exe in the Prizm Chart Utility folder will open the Prizm Chart Utility dialog box.

If you have the Discovery 2019.1 DVD, insert the DVD into the DVD drive and select the Install PRIZM

**Chart Utility** option Install PRIZM Chart Utility on the Utilities screen of the Discovery install screen or the release DVD to launch the PRIZM Chart Utility Setup program.

🔒 Prizm Char	t Utility v3.1 Setup
<b></b>	Welcome to the Prizm Chart Utility v3.1 installation program.
	not install system files or update shared files if they are in use. ceeding, we recommend that you close any applications you may
	OK Exit Setup

#### Utilities - Install SeisVision SEG-Y Trace Viewer

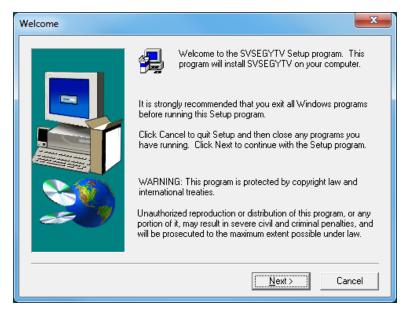
If you have downloaded the Discovery 2019.1 Utilities and used the default settings, the SeisVision SEG-Y Tracer View Utility folder will be in the **C:\Program Files (x86)\GeoGraphix\Utilities** folder (for a typical download on a **Windows**<sup>®</sup> (64-bit) operating systems). If you have not used the default settings during the download, navigate to the folder specified for saving the Utilities. Clicking **Setup.exe** in the utility folder will open the Welcome dialog box.

If you have the Discovery 2019.1 DVD, insert the DVD into the DVD drive and select the Install SeisVision

### SEG-Y Trace Viewer option on the Utilities screen of the

Discovery install screen or the release DVD to launch the SeisVision SEG-Y Trace Viewer Setup program.

Install SeisVision SEG-Y Trace Viewer



# Uninstalling GeoGraphix and GVERSE Products

Similar to uninstalling other Windows<sup>®</sup> applications, GeoGraphix and GVERSE Products can be removed from a computer using **Add/Remove Programs** in the Control Panel.

There are 3 simple steps to removing Discovery and GVERSE products from a Windows® computer:

**Note:** All GeoGraphix and GVERSE products should be closed or exited before completing the following steps.

- STEP 1 <u>Stopping GeoGraphix Services in Control Panel Services</u>
- STEP 2 Getting Started with Add/Remove Programs in Control Panel
- STEP 3 <u>Removing GeoGraphix and GVERSE Products</u>

#### STEP 1 - Stopping GeoGraphix Services in Control Panel Services

From the Windows<sup>®</sup> Taskbar, use **Start >> Control Panel >> Administrative Tools >> Services** to open the Services applet window.

There are three GeoGraphix Services that should be stopped before removing the GeoGraphix software:

- GGX Database Service
- GGX List Service (v2)
- GGX Network Access Service

Services	Help				
(= =) 💼 🙆 🖬	A 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
Services (Local)	Services (Local)  Select an item to view its description	Name	Description	Status	Startup Type
		Clisk Defragmenter Distributed Link Tracking Client Distributed Transaction Coordina DNS Client Encrypting File System (EFS)	Provides Dis Maintains Ii Coordinates The DNS Cli Provides th		Manual Automatic Manual Automatic Automatic
		Extensible Authentication Protocol     Fax     Function Discovery Provider Host     Function Discovery Resource Pub     G. GX Database Service	Enables you The FDPHO Publishes th Performs da	Started Started	Manual Manual Manual Automatic Automatic
		GGX List Service (v2) GGX Network Access Service Google Update Service (gupdate) Google Update Service (gupdatem)		Started	Automatic Automatic Automatic (D Manual
		G Group Policy Client G Health Key and Certificate Manag G HomeGroup Listener G HomeGroup Provider G Human Interface Device Access	The service Provides X.5 Makes local Performs ne Enables gen	Started	Automatic Manual Manual Manual Manual
	Extended (Standard /	KE and AuthIP IPsec Keying Mod		Started	Automatic

If a Service is not stopped, highlight the Service, then right-click and choose **Stop** to stop the Service. All 3 Services should be stopped:

GGX Database Service GGX List Service (v2) GGX Network Access S Google Update Service	Start Stop Pause
GGX List Service (v2) GGX Network Access Google Update Servic Google Update Servic	Start Stop Pause
GGX Network Access Service Google Update Service (gupda Google Update Service (gupda Google Update Service (gupda Group Policy Client	Chara

<u>Note</u>: It is recommended that the above GeoGraphix Services are stopped before removing the GeoGraphix software, but if the Services are not stopped, then the GeoGraphix Uninstall program stops the Services during the uninstall/removal process.

#### STEP 2 - Getting Started with Programs and Features in Control Panel

To start uninstall/removal of GeoGraphix and GVERSE products, open the Programs and Features applet using **Start >> Control Panel >> Programs and Features**.

**Note:** If the Control Panel is set to View by: Category (rather than View by: Large icons or View by: Small icons), select Programs >> Uninstall a program.

In the Programs and Features window, highlight **GeoGraphix 2019.1**. Right-click and select **Uninstall** to remove the GeoGraphix software and the GVERSE products. You may also select the **Change** or **Repair** options to modify or repair the GeoGraphix software and GVERSE products.

Control Panel Home	Uninstall or change a progr	am				
View installed updates	To uninstall a program, select it from	n the list and then	click Uninctall, Change, or Ren	air		
Turn Windows features on or	ro uninstan a program, select it nor	in the list and then	ener onnistan, enange, or nep			
off	Organize 🔻 Uninstall Change	Repair				1 - (
Install a program from the network	Name		Publisher	Installed On	Size	Version
Inclutoric	GeoGraphix 2019.1		LMKR Holdings	1/11/2019	2.32 GB	19.1.19001.0
	Google Chrome	Uninstall	gle Inc.	6/20/2018	2.02.00	71.0.3578.98
	GVERSE Inversion 2017.3 For GeoGr	Change	R	9/18/2018	321 MB	17.30.18257.4
	GVERSE WebSteering 2017.3	Repair	(R	10/26/2018	109 MB	17.30.18298.1
	IIS 8.0 Express	Repui	wircrosoft Corporation	7/10/2018	34.9 MB	8.0.1557
	IIS Express Application Compatibility	Database for x64		7/10/2018		
	IIS Express Application Compatibility	Database for x86		7/10/2018		
	Intel(R) Network Connections Drivers		Intel	1/1/2009	916 KB	20.4
	BLMKR License Management Tool		LMKR	6/25/2018	128 MB	3.2
	Microsoft .NET Framework 4.5 Multi-	Targeting Pack	Microsoft Corporation	7/10/2018	41.8 MB	4.5.50710
	Microsoft .NET Framework 4.5 SDK		Microsoft Corporation	7/11/2018	18.5 MB	4.5.50710
	Microsoft .NET Framework 4.5.1 Mult	i-Targeting Pack	Microsoft Corporation	7/10/2018	49.3 MB	4.5.50932
	Microsoft .NET Framework 4.5.1 Mult	i-Targeting Pac	Microsoft Corporation	7/10/2018	74.5 MB	4.5.50932
	Microsoft .NET Framework 4.5.1 SDK		Microsoft Corporation	7/11/2018	19.4 MB	4.5.51641
	Microsoft .NET Framework 4.6.1		Microsoft Corporation	9/14/2018	38.8 MB	4.6.01055
	Hicrosoft Help Viewer 2.1		Microsoft Corporation	7/11/2018	12.1 MB	2.1.21005
	1 Microsoft Office Professional Plus 201	13	Microsoft Corporation	6/14/2018		15.0.4420.103
	<u></u>		10 m 6 6 10	7.44.0040	25.1.10	E 4 00540 0

Click the **Uninstall** button to proceed to the next step of removing/uninstalling the GeoGraphix software and GVERSE products.

**Note:** The **Change** button can be used to modify or repair GeoGraphix and GVERSE installations.

- **Modify** can be used to add or remove specific GeoGraphix applications and GVERSE products.
- Repair re-installs GeoGraphix software and GVERSE products, repairing any files or registry entries that may be missing or damaged. Once the Repair process completes, you must perform the following steps:
  - Browse to the following location: *Drive:\Program Files* (86)\GeoGraphix\GVERSENOW\iEnergySDK\plugins\com.lgc.eclipse\_VersionNumber
  - 2. Right-click on the **plugin.xml** file and select **Properties** from the context menu.
  - 3. In the **Properties** dialog, clear the **Read-only** check box, click **Apply**, and then **OK**.
  - 4. Browse to the following location: Drive:\Program Files (86)\GeoGraphix\GVERSENOW\
  - 5. Right-click on the **modifyPath.bat** file and select **Run as Administrator** from the context menu.

#### STEP 3 - Removing GeoGraphix and GVERSE products (FINAL STEP)

After highlighting GeoGraphix 2019.1 and clicking the **Uninstall** command in the Programs and Features window, a progress bar will appear and GeoGraphix and GVERSE products will be removed from the computer.

GeoGraphix 2019.1		
Please wait while Windows configures GeoGraphix 2019.1		
Gathering required information		
Cancel		

**<u>Note</u>**: Some data and project file directories may be left on the hard drive. These directories are typically the following (may be different if software was installed without default directory locations):

- C:\Documents and Settings\All Users\Application Data\GeoGraphix
- C:\Program Files\GeoGraphix

This is the last step in uninstalling/removing the Discovery software from your computer.

<u>Note</u>: On uninstalling GVERSE Planner 2019.1 using the Custom Installation wizard, you will need to perform the following steps to remove the GVERSE Planner icon from the GeoGraphix toolbar:

- Open Command Prompt (Start >> Accessories >> Command Prompt) using Administrator privileges.
- 2. Enter the following command: "C:\Program Files\LMKR\GVERSE\Planner\GVPlanner.exe" /unregister
- 3. Press Enter.

# Contacting LMKR Support

LMKR is committed to providing the highest level of technical customer support in the industry. With an average tenure of more than thirteen years, our highly trained and experienced staff of technical analysts is comprised of geoscientists, engineers, land professionals, petrophysicists, and system specialists.

Please refer to our Customer Support timings mentioned below to ensure that you have access to our support analysts assigned to your region. When getting in touch with LMKR support, please remember that real-time support will not be available during bank holidays or after office hours. If you do get in touch with LMKR Support outside of work hours, please leave a voice message with a brief description of the issue that you are facing. Your voice message will be used to automatically create a support case for you. This will enable our analysts to attend to your issue and provide you with a resolution as soon as possible

North and South America	Europe, Middle East & Africa
Monday – Friday	UK:
8 am-6 pm CST*	Monday - Friday
Toll Free (US/Canada) :	8 am – 5 pm*
+1 855 GGX LMKR (449 5657)	+44 20 3608 8042
Colombia:	UAE:
+57 1381 4908	Sunday - Thursday
United States:	(Dubai GMT+4)
+1 303 295 0020	8 am – 5 pm*
1 303 233 0020	+971 4 3727 999
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+1 587 233 4004	
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Asia Pacific & Australian Continent	Southwest Asian countries
Malaysia:	Pakistan:
Monday - Friday	Monday - Friday
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9 am – 6 pm*	9 am – 6 pm*
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*Excluding bank holidays	*Excluding bank holidays

### Helpful Links

Name	Website Address
LMKR Homepage	http://www.lmkr.com
LMKR Support Portal	http://support.lmkr.com

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