# DecisionSpace. GIS ArcGIS Engine

# Installation Guide

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# What's In This Release

DecisionSpace® GIS is a module in the DecisionSpace® Suite that allows you to spatialize data managed in the OpenWorks® database instance and to check data graphically as well as view spatial data from other sources. For information about how to use the DecisionSpace® GIS module, see the topics in the online help.

For more information about the features and known issues for DecisionSpace® GIS, click the links below:

System Requirements for DecisionSpace® GIS

**Before You Begin** 

Installing DecisionSpace® ArcGIS Engine 5000.8.3 in Linux

Installing DecisionSpace® ArcGIS Engine 5000.8.3 in Windows



# Welcome to DecisionSpace® GIS

The DecisionSpace® GIS module allows you to manage Geographic Information System (GIS) information in the context of the DecisionSpace® Suite and OpenWorks® software, and the data they manage. DecisionSpace® GIS 5000.8.3 supports both ArcGIS Engine Version 10.0 (Service Pack 2) and ArcGIS Engine Version 10.1 (Service Pack 1) from ESRI (Environmental Systems Research Institute, Inc.) to manage GIS data and to provide the support services for the DecisionSpace® GIS module. The version installed on the client machine is auto detected at runtime.

In this guide, the ESRI ArcGIS Engine 10.0 and 10.1 will be referred to as DecisionSpace® GIS ArcGIS Engine 5000.8.3.

In the DecisionSpace<sup>®</sup> Suite, use DecisionSpace<sup>®</sup> GIS to view or use data from a Geographic Information System (GIS). For some data types (MXD, Shapefiles, SDE data, Image TIF files, and GIS grids), the data can be loaded into the DecisionSpace<sup>®</sup> software directly with its Select Session Data function.

The following installation of the DecisionSpace® GIS ArcGIS Engine 5000.8.3 from Landmark offers several capabilities that are not usually available in the ESRI Engine installation including:

- A centralized installation that can be installed on a network file system and shared with client machines
- Support for multiple users
- Support of network user accounts

# System Requirements for DecisionSpace® GIS

For the DecisionSpace® GIS application to spatialize data, and for the DecisionSpace® Suite to view GIS data (such as data from MXD and GIS Grid files), the following are required:

- Linux Red Hat 5.8 6.3: DecisionSpace® ArcGIS Engine 10.0 or 10.1.
- Windows 7: DecisionSpace® ArcGIS Engine 10.0 or 10.1.
- An ArcGIS Engine License.

#### License Is Included

The license for the ESRI ArcGIS Engine is included with the DecisionSpace® GIS module and it is checked out when the DecisionSpace® GIS module is used.

- Oracle 32-bit Administrator install (Windows platform only).
- Access to a project in an OpenWorks® database.
- Licenses for the OpenWorks® software, the DecisionSpace® software, and the DecisionSpace® GIS module.
- 32-bit OpenGL libraries with graphics drivers installation.
- Disk Space: 3.5 GB for Linux and 1 GB for Windows software installation.
- DecisionSpace® Desktop 5000.8.2 and above. (ArcGIS Engine 10.1 will **not** work with DecisionSpace® Desktop 5000.8.1 and below.)

For a complete list of requirements for the ArcGIS Engine, see the ArcGIS documentation on the ESRI website at <u>www.esri.com</u>.

# **Compatibility Matrix**

The following information details the compatibility between the DecisionSpace® GIS module using DecisionSpace® ArcGIS Engine® versions10.0 and 10.1 and the ESRI products. Landmark only tested the GIS module with DecisionSpace® ArcGIS Engine version 10.0 and version 10.1. The other versions listed were not tested by Landmark and their compatibility is documented by ESRI. Personal geodatabases are available on the Windows, **not** the Linux, platform. Also, there are known issues between ArcGIS Engine 10 Service Pack 3 and the DecisionSpace® GIS module.

Туре	Version Numbers
Personal Geodatabase (Windows Only)	9.1 9.2 9.3 10.0 10.1
File Geodatabase	9.2 9.3 10.0 10.1
ArcSDE Geodatabase	9.2 9.3 10.0 10.1
ArcDesktop Products	10.0, Service Pack 2 10.1

# **Before You Begin**

There are a few things you should know before using the following procedure to install the DecisionSpace® ArcGIS Engine.

- 1. Read the *DecisionSpace*® *Suite Version 5000.8.3.0 Release Notes* on the <u>Landmark Software</u> <u>Manager LSM</u>.
- 2. You can run DecisionSpace® GIS 5000.8.3 with DecisionSpace® ArcGIS Engine 10.0 or 10.1. You cannot use ArcGIS Engine 9.3.1.
  - If you previously installed the ESRI ArcGIS Engine 9.3.1 for DecisionSpace® GIS, you must manually Uninstall it and install the new DecisionSpace® ArcGIS Engine 5000.8.3 (ESRI ArcGIS Engine 10.0).
  - If you previously installed the ESRI ArcGIS Engine 9.3.1 or 10.0 and want to use ESRI ArcGIS Engine 10.1 for DecisionSpace® GIS, the system will detect the earlier version and you will be prompted about whether you want to do an automatic Uninstall. If you answer No, the system will exit. If you answer Yes, you can continue with the 10.1 installation.
  - If you decline the automatic Uninstall and you want to install 10.1, you will need to follow the procedure for doing a manual Uninstall.
- 3. Close all other applications before beginning the installation.

If this is the first time you are installing the DecisionSpace® ArcGIS Engine 5000.8.3 on Microsoft Windows, you can skip to page **22**.

### Installing DecisionSpace® ArcGIS Engine 5000.8.3 in Linux

# Don't Need to Install DecisionSpace® ArcGIS Engine on a Client Computer

On Linux, the DecisionSpace® ArcGIS Engine does not need to be installed on client computers. Instead, on a Linux client computer, you can point to an installation on a Linux server by setting the environment. For more information, see page **17**.

#### Be Sure to Install compat-lib Libraries

Before beginning to install the DecisionSpace® ArcGIS Engine on a Linux platform, ensure that you have installed the 32-bit and 64-bit compat-libf2c-34-3.4.6-4.1 libraries. You can use the command rpm -qa | grep compat. For information on the method used to check that the libraries have been installed, see the "Linux Client Procedures" in the *OpenWorks* Software Installation Procedures on the Landmark Software Manager - LSM.

#### Be Sure to Install Libgfortran 44 for ArcGIS Engine 10.1

Before beginning to install the DecisionSpace® ArcGIS Engine on a Linux platform for 10.1, ensure that you have installed the rpm package libgfortran44. To install the DecisionSpace® ArcGIS Engine on a Linux platform:

1. Uninstall any previous versions of ESRI ArcEngine. For the procedure go to page 20.

Do Not Install the DecisionSpace® ArcGIS Engine as a Super User

The DecisionSpace® ArcGIS Engine must not be installed as a super user (root). If you want the installation to be owned by the root user, please install the DecisionSpace® ArcGIS Engine as a non-root user and after installation, change the ownership of the installation to root.

- 2. Log into the client machine with a Linux user account that has write permissions in order to install the DecisionSpace® ArcGIS Engine software into the target GIS home.
- 3. As root, create the folder on the installation host only:

mkdir -p /usr/local/share/macrovision/storage/

which creates two subdirectories--macrovision and storage. You can remove this folder after the installation is complete.

4. Set its permissions to 777 by using:

chmod 777 /usr/local/share/macrovision/storage/

- 5. Access Landmark Software Manager LSM.
- 6. Navigate to the Available Downloads tab on the Landmark Software Manager and locate the DecisionSpace® folder.

(and mark Software Manager - Microsoft Internet Explorer provided by Halliburton Company				
COC Whitps://esd.halliburton.com/download/download.jsp#Download				
👷 🖕 worites 🛛 🖕 🍘 Fresco Fabrics - Guatemal 💿 I Gotta Create! Oscar Bing 🧭 DSDCommittees 🍘 Employe				
( Landmark Software Manager				
Landmark Software Manager				
The Home Available Downloads				
✓ Advanced Filter				
Discipline : Product Line :				
Version : Platform :				
Туре :				
Expand All Groups Search :				
Type Product				
Discipline - DecisionSpace				
Discipline - Drilling & Completions				

7. Expand the Product Line - DecisionSpace Bundle.

(2) Landmark Software Manager - Microsoft Internet Explorer
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🔶 Favorites 🛛 🚖 🕖 Fresco Fabrics - Guatemal 💿 I
Uandmark Software Manager
Landmark So
✓ Advanced Filter
Discipline :
Version :
Туре :
🔚 Expand All Grou
Type Product
Discipline - DecisionSpace
Product Line - AssetView Development Kit
Product Line - DecisionSpace Bundle
Product Line - Decision Space Development Kit

- 8. Download the DecisionSpace® ArcGIS Engine 5000.8.3 for 10.0 or 10.1 into a temporary directory.
- 9. Navigate to the temporary directory used for the download and locate the tar file.
- 10. At the terminal command prompt, to extract the contents of the tar file, enter:

tar -xvf <tar filename>

11. At the command prompt, as a non-root user, enter the command:

sh ArcEngineSetup.bin



The ArcGIS Engine screen appears as follows:

#### 12. Click Next.

A License Agreement dialog similar to the following appears:



- 13. Click the radio button to accept the ESRI license terms.
- 14. Click Next.
- A dialog similar to the following appears:

12	ArcGIS Engine Runtime	
	andmark Software Services	Choose Install Folder
<ul> <li>Introduction</li> <li>License Agreement</li> <li>Choose Install Folder</li> <li>Pre-Installation</li> <li>Installing</li> <li>Install Complete</li> </ul>	Please choose a destination folder f ArcGIS Engine Runtime. <u>Where Would You Like to Install?</u> /app/arcgisenginert <u>Restore Defaul</u>	for this installation and the
Cancel		Previous <u>N</u> ext

15. Select the location where you want to install the DecisionSpace® ArcGIS Engine. Ensure that the location is typed in lowercase letters; otherwise, you will receive a Warning message. Also note that a path name ending in .../arcgis will not be accepted.

No	te
The	e arcgis folder will be added to the path provided.

16. Click Next.

A dialog similar to the following appears:



17. If the Pre-Installation Summary is correct, click Install.

It takes a few minutes to install the DecisionSpace® ArcGIS Engine.



Once the installation is complete, a dialog similar to the following appears:



#### 18. Click Done.

The DecisionSpace® ArcGIS Engine software has been successfully installed.

### Setting the Environment

You must set the environment variable:

ARCGISHOME to the <install dir>/arcgis/engine10.0.

or

ARCGISHOME to the <install\_dir>/arcgis/engine10.1.

This may be done in your .login, .lgclogin, .cshrc, etc., or in a file that is used by all users.

For example, to set the environment variable, you would enter:

setenv ARCGISHOME /export/esri/arcgis/engine10.0

or

setenv ARCGISHOME /export/esri/arcgis/engine10.1

#### Before ARCGISHOME is Set, the Workstation Must Mount the Server

If the installation of the DecisionSpace® ArcGIS Engine is done on a server, and DecisionSpace® Suite is installed on a workstation, the workstation needs to be able to mount the directory on the server on which it was installed before the ARCGISHOME environment variable is set on the workstation.

For example, if the software is installed with a path as "/export/esri/arcgis", all client machines must be able to access this installation with the same path from the client and the environment variable ARCGISHOME must be set. Mounting the client as /apps/arcgis and setting the environment variable ARCGISHOME to /apps/arcgis will result in an error.

#### **Registering the DecisionSpace® ArcGIS Engine**

After installing the DecisionSpace® ArcGIS Engine, you can run the DecisionSpace® application. When running DecisionSpace® Suite for the first time, the DecisionSpace® ArcGIS Engine components will be registered on each machine you use. To register the DecisionSpace® ArcGIS Engine components, select the modules, including DecisionSpace® GIS, on the Existing Sessions or New Sessions tab on the DecisionSpace® Suite Session Manager and select the project on the Session Parameters tab similar to the following:

OecisionSpace Session Manager				
Existing Sessions	😂 New S	Session		
Click on one or more mod	lules to wr	ork within your session.		
Available Modules				
Module Name ,	A	Core Functionality		Version
DecisionSpace Earth M	lodeling	Facies Modeling, Property Modeling a	nd Volumetrics	5000.8.3
DecisionSpace GIS		GIS Data Integration and Spatialization	n of Openwor	5000.8.3
DecisionSpace Geolog	ly voice	Well Log Correlation and Interpretatio	n, mapping a	5000.8.3
DecisionSpace Geophy DecisionSpace Betrant	voice	Seismic Interpretation, Mapping and s	stratigraphic	5000.8.3
DecisionSpace Petrophysics Log Calculations for Petrophysics DecisionSpace Stimulation Microaciamia Success Managing and Application Sectors		alveie: Fracture	5000.8.3	
Decision Space Stimula	DecisionSpace Sumulation Microseismic Events Mapping and Analysis; Fracture		5000.0.3	
DecisionSpace Stimula DecisionSpace Well Pl	anning	DecisionSpace Well Planning Well Trajectory Planning and Field Optimization 5000.8.3		
DecisionSpace Stimula DecisionSpace Well Pl	anning	Well Trajectory Planning and Field Op	timization	
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Parameters in the table by Parameters in the table by Session Parameter District Project Interpretation Project Measurement System Domain	elow shou s Te OpenWo OpenWo Measure Display	Well Trajectory Planning and Field Op IId be set from the top down. When all r emplate Description orks District orks Project orks Interpretation Project ement System for OpenWorks Project domain for data	nandatory parame Selec HOUSTON NORWAY ALL_DATA US Oil Field Time	tion
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Parameters in the table by Parameters in the table by Parameter Parameter District Project Interpretation Project Measurement System Domain Interpreter 3D Survey List	annino elow shou s Te OpenWo OpenWo OpenWo Measure Display Interpret List of 3	Well Trajectory Planning and Field Op Id be set from the top down. When all r emplate Description orks District orks Project orks Interpretation Project ement System for OpenWorks Project domain for data ter for the OpenWorks Project D Surveys	timization nandatory paramet NORWAY ALL_DATA US Oil Field Time LGC <all surveys=""></all>	tion
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Parameters in the table by Parameters in the table by Session Parameter District Project Interpretation Project Measurement System Domain Interpreter 3D Survey List 2D Line List Well List	annind elow shou s Te OpenWo OpenWo OpenWo Measure Display Interpret List of 3 List of 2	Well Trajectory Planning and Field Op IId be set from the top down. When all r emplate Description orks District orks Project orks Interpretation Project ement System for OpenWorks Project domain for data ter for the OpenWorks Project D Surveys D Lines /ells	timization nandatory paramet HOUSTON NORWAY ALL_DATA US Oil Field Time LGC <all surveys=""> <no data=""> <no data=""></no></no></all>	tion
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Once you click **OK**, a dialog similar to the following appears:

	Registering ArcGIS Engine Runtime	
ArcGIS Engine F The GIS functio	RT components have been registered. onality will be available in the DS Desktop.	
OUTPUT: Remov ERROR: /d01/aj OUTPUT: Registo OUTPUT: Script: OUTPUT: OUTPUT: Initializ	ving any existing ArcGIS Engine components upps/Landmark/DSD/8.2/1210100005.64916-RC1/configuration/org.eclipse.osgi/bund ering new ArcGIS Engine components started (10/10/12 17:28:25) zing	les/120/1
OUTPUT: Client- OUTPUT: OUTPUT: OUTPUT:	-side script being run on machine orkhon.houston.lgc.com	
OUTPUT: Registe OUTPUT: Registe OUTPUT: Registe OUTPUT: Registe OUTPUT: Registe	ering Engine binaries (this might take a little while) ering ArcGISFileHandler.exe.reg ering ArcGISFileHelper.dll.reg ering ArcGISVersion.dll.reg	
OUTPUT: Cleanii OUTPUT: Script	ing up successfully completed (10/10/12 17:28:41)	

The registration takes place automatically within about three minutes. You will know that the registration is complete and the components are registered once the dialog closes. The DecisionSpace® GIS module is now available for use.

Each machine and user that run the DecisionSpace® GIS module must have registered components. Therefore, if you log in to another machine with the same user account, the components will be registered again.

# **Removal of the DecisionSpace® ArcGIS Engine Software in Linux**

#### **Remove Previously Installed Software**

If you previously installed the ESRI ArcGIS Engine software using the ESRI ArcGIS Engine DVD or media, please remove it.

To remove the DecisionSpace® ArcGIS Engine software, run the Uninstall script in your ArcGIS installation folder.

#### Uninstall Script Only Works for Local Install

The Uninstall script will work only if the DecisionSpace  $\ensuremath{\mathbb{B}}$  ArcGIS Engine is installed locally.

The Uninstall script for ArcGIS Engine version 9.3.1 is the file:

<install\_dir>/arcgis/uninstallArcGISEngineRT

The Uninstall script for ArcGIS Engine version 10.0. is the file:

<install\_dir>/arcgis/engine10.0/uninstallArcGISEngineRT

or

<install\_dir>/arcgis/engine10.1/uninstallArcGISEngineRT

If the ARCGISHOME variable is defined, you can use the following command to start the uninstall script:

sh \$ARCGISHOME/uninstallArcGISEngineRT

If for some reason, the removal cannot be done using the script, use the following steps to manually remove the DecisionSpace® ArcGIS Engine:

- 1. Open a terminal window.
- 2. Enter the following command:

rm - rf <install dir>

where *<install dir>* is the directory where you installed the DecisionSpace® ArcGIS Engine.

3. Run the following command:

ps -ef | grep .arcgis

Then kill any arcgis watchdog processes that are present using the command:

kill -9 <process ID#>

- 4. Continue with the following commands:
  - rm rf \$HOME/.arcgis\*
  - rm rf /tmp/esri\_\$USER
  - rm rf \$HOME/ESRI.properties\*
  - rm rf \$HOME/.esriprogramfiles

### Windows 7 Prerequisites

#### Installing the Oracle 32-bit Client

#### You Must Install An Oracle 32-bit Client

To ensure that you have all of the DecisionSpace® GIS functionality available on Microsoft Windows, you must install an Oracle 32-bit client in addition to your Oracle 64-bit client.

When installing the Oracle 32-bit client, install it on a location other than where the Oracle 64-bit client is installed. Ensure that you do NOT overwrite the Oracle 64-bit installation.

During the DecisionSpace® ArcGIS Engine installation, the installer will prompt you for your Oracle 32-bit installation location. Browse to your installation location (e.g. c:\oracle|product|112.0\client2) and click **OK**. The installer will automatically set the system environment variable ORACLE32\_HOME as your Oracle 32-bit client installation location during the installation.

The Oracle 32-bit installer will add its BIN folder as the first item in your PATH environment variable. Please remove this item from your PATH environment variable after the installation is complete.

Before you can install the DecisionSpace® ArcGIS Engine on a Windows platform, you must install the Oracle 32-bit client. To install the Oracle 32-bit client:

1. Access the Landmark Software Manager application by going to www.esd.halliburton.com.

The application opens to a Sign In page similar to the following:

Firefox 🔻			x
Sign In - Landmark Software Manager +			
◆ ◆ A https://identity.halliburton.com/Login/login.jsp?xHalTemp=lgclsm	☆ マ C Soogle	۶ 🎓	•
Landmark Software Manager	$\frac{1}{(2\beta+1)^{2}} \partial_{\alpha} = 2 + \frac{(4\infty)^{2}}{2} \partial_{\alpha}$ High Science	e Simplified™	
Sign In New! Sign In with your registered email address. Read more Email : Password: Password: Halliburton employees sign in with your network ID. Iforgat my password Sign IN Sign In as Guest	Not Registered Yet? A registered account (Customer Support PIN Number) is necessary to access the Landmark Software Manager and the Customer Support Portal. (Halliburton employees do not need a registered account. Access is provided through your network id.) For more information about acquiring an account, please contact Landmark Customer Support Need help? Send an email to Landmark Customer Support. Contact Customer Support		E
HALLIBURTON Landmark Software & Services	© 2011 Halik	ourton   <u>Privacy Policy</u>   <u>L</u>	<u>eqal</u>
x			

- 2. Enter the requested information.
- 3. Access the Home tab 🚹 Home
- 4. Click the Available Downloads tab

Available Downloads

A screen similar to the following appears:

3 N	Landmark Software Manager	+ (Ax.)* a High Science Simplified™
		😭 Home 🛛 🤴 Available Downloads 🖉 History
Advanced Filter		
	🔚 Expand All	Groups Search :
Туре	Product	Version
😟 Discipline - Real T	ime	
😟 Discipline - Reser	voir Management	
🖃 Discipline - Third	Party	
Release	AFE Management System to EDT Link	4.5.0
Release	Oracle 10.2.0.1 Client Release AIX	10.2.0.1
Release	Oracle 10.2.0.1 Client Release Linux32	10.2.0.1
Patch	Oracle 10.2.0.5 Patch Windows64	10.2.0.5
Release	Oracle 11.2.0.2 Client Linux32	11.2.0.2
Release	Oracle 11.2.0.2 Client Linux64	11.2.0.2
▶ 💌 Release	Oracle 11.2.0.2 Client Win32	11.2.0.2

- 5. Click **Discipline Third-Party**.
- 6. Scan the list of products and locate Oracle 11.2.0.2 Client Win32.
- 7. Click the green **Download Now** button —.

The Landmark Software Manager Terms and Conditions appear.

8. If you agree with the Terms and Conditions, click the Agree button.

The File Download dialog appears asking whether you want to open or save this file.

9. Click Save.

The Save As Dialog appears.

- 10. Select a file location.
- 11. Click Save.

The file begins to transfer the application from the Landmark Software Manager to the file location. You will see a progress bar.

- 12. Once the download is complete, click Close.
- 13. Go to the location of the download, locate the Oracle\_112020\_win32\_Client zip file, and extract the file to a location of your choice.
- 14. Locate the client folder at the location where you extracted the file.
- 15. Double-click the **client** folder and double-click **setup.exe**.
- 16. The Oracle Universal Installer begins.
- 17. Scroll until you locate the setup.exe file and double-click it.

18. Click the radio button opposite Administrator.

The screen looks similar to the following:

👙 Oracle Client Installer - Setting up	o Client - Step 2 of 7
Select Installation Type	
Select Installation Mode Select Installation Type Specify Installation Location Perform Prerequisite Checks Summary Install Product Finish	What type of Installation do you want? Installs Instant Client Software  Administrator (1.1GB) Installs the management console, management tools, networking services, utilities and basic client software. Runtime (750.0MB) Installs tools for developing applications, networking services and basic client software. Quastom Enables you to choose individual components to install.
Help	< Back Next > Install Cancel

#### 19. Click Next.

The Download Software Updates screen appears.

20. Choose the Skip the Software Updates radio button.

The screen looks similar to the following:

🖆 Oracle Client Installer - Setting up Client - Step 3 of 9		
Download Software Updates		
Select Installation Mode	Download software updates for this installation. Software updates include patch updates available after initial release that are important for completing a successful installation. They may consist of updates to the installer system requirement checks, patchset updates (PSUs), and other patches. Be aware that they may not include all patch updates to the software.	
Apply Software Updates Select Product Languages Perform Prerequisite Checks	Select one of the following options:          Use My Oracle Support credentials for download         My Oracle Support user name:	
Finish	My Oracle Support password:           Proxy Settings         Test Connection	
	Location:     Browse      Browse	

#### 21. Click Next.

The Select Product Languages screen displays and English appears in the right column as the default language.

👙 Oracle Client Installer - Settin	ng up Client - Step 4 of 8		
Select Product Languages			DATABASE 118
Select Installation Mode	Select the languages in which your pro	duct will run.	Languages:
Download Software Updates Select Product Languages Perform Prerequisite Checks Summary Install Product Finish	Arabic Bengali Brazilian Portuguese Bulgarian Canadian French Catalan Croatian Czech Danish Dutch Egyptian English (Inited Kingdom)	English	

22. If English is your preferred language, click **Next**. If not, select your preferred language and click **Next**.

The Specify Installation Location screen appears:

👙 Oracle Client Installer - Settin	g up Client - Step 5 of 9
Specify Installation Location	
Select Installation Mode	Specify an Oracle base path to place all Oracle software and configuration-related files. This location is the Oracle base directory.
Download Software Updates     Select Product Languages	Oracle Base C: \oracleclient Browse
Specify Installation Location	Specify a location for storing Oracle software files. This location is the Oracle home directory.
Perform Prerequisite Checks     Summary	Software Location: C:\oracleclient\product\11.2.0\client_1    Browse
Install Product	
<ul> <li>Finish</li> </ul>	

#### 23. Specify the location and click Next.

The system automatically performs installation checks and displays a progress bar. When complete, the Summary screen displays similar to the following:

👙 Oracle Client Installer - Setti	ng up Client - Step 7 of 9
Summary	
<ul> <li>Select Installation Mode</li> <li>Select Installation Type</li> <li>Download Software Updates</li> <li>Select Product Languages</li> <li>Specify Installation Location</li> <li>Perform Prerequisite Checks</li> <li>Summary</li> <li>Install Product</li> <li>Finish</li> </ul>	Oracle Client Installer Global Settings —Disk Space: required 1.0 GB available 2.73 GB —Source Location: C: 'Documents and Settings'hx:35922'My Documents\Temporary for Procedure\client\install Type: Administrator —Oracle Base: C: 'oracleclient —Oracle Home location: C: 'oracleclient'\product\11.2.0\client_1

#### 24. Click Install.

👙 Oracle Client Installer - Setti	ng up Client - Step 8 of 9
Install Product	
Select Installation Mode Select Installation Type Download Software Updates Select Product Languages Specify Installation Location	Progress 8% Processing Agent Required Support Files 10.2.0.4.3
Perform Prerequisite Checks     Summary     Install Product     Finish	Status       In Progress         ✓       Oracle Client Installation         ✓       Prepare         Succeeded         Copy files         Pending         Setup files         Configuration
	Consolidate Compress Control
Help	< Back Next > Install Cancel

The Install Product screen displays similar to the following:

When complete, the Finish screen displays similar to the following:

🁙 Oracle Client Installer - Sett	ing up Client - Step 9 of 9	
Finish		ORACLE 118
🚊 Select Installation Mode	The installation of Oracle Client was successful.	
Select Installation Type		
🙏 Download Software Updates		
Select Product Languages		
Specify Installation Location		
Perform Prerequisite Checks		
y Summary		
unstall Product		
🎃 Finish		

# Installing DecisionSpace® ArcGIS Engine 5000.8.3 in Windows

To install DecisionSpace® ArcGIS Engine 5000.8.3 (ESRI ArcGIS Engine 10.0 or 10.1).

- 1. Uninstall any previous versions of ESRI ArcEngine or ArcMap (ArcDesktop). For the procedure go to page **38**.
- 2. Go to the Landmark Software Manager LSM.
- 3. Click the Available Downloads Tab.
- 4. Go to Discipline DecisionSpace and click to expand it.

landmark Software Manager - Microsoft Internet Explorer provided by Halliburton Company		
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( Landmark Software Manager		
Landmark Software Manager		
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✓ Advanced Filter		
Discipline : Product Line :		
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Expand All Groups Search :		
Type Product		
Discipline - Drilling & Completions		

5. Go to Product Line - DecisionSpace Bundle and click to expand it.

2 Landmark Software Manager - Microsoft Internet Explorer
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✓ Advanced Filter
Discipline :
Version :
Туре :
🔚 Expand All Grou
Type Product
Discipline - DecisionSpace
Product Line - AssetView Development Kit
Product Line - DecisionSpace Bundle
Product Line - DecisionSpace Development Kit

- 6. Select DecisionSpace® ArcGIS Engine 10.0 or select DecisionSpace® ArcGIS Engine 10.1 for DecisionSpace® GIS 5000.8.3.0.
- 7. Click Download.

#### License Included

The license for the DecisionSpace® ArcGIS Engine is included with the DecisionSpace® GIS module and it is checked out when the DecisionSpace® GIS module is used.

- 8. Unzip the application to a folder.
- 9. Double-click the filename.

A splash screen flashes and a dialog similar to the following displays:



#### 10. Click Next.

The License Agreement similar to the following appears:



11. Accept the License Agreement and click Next.

The Oracle Location screen appears similar to the following:



12. Select a folder and click Next.

The Pre-Installation Summary text appears similar to the following:



#### 13. Click Install.

A display similar to the following appears:



The installation takes about 10 to 20 minutes. Once the installation has completed loading, you will see a screen similar to the following:



#### 14. Click Done.

The DecisionSpace® ArcGIS Engine is installed.

# **Removal of the DecisionSpace® ArcGIS Engine Software in Windows**

If you are on the Windows platform and you want to remove the DecisionSpace® ArcGIS Engine software:

- 1. Go to the **Start Menu > Control Panel > Programs and Features**.
- 2. Double-click the name of the program you want to uninstall.

The program will be removed.

# **International Trade Compliance**

This application is manufactured or designed using U.S. origin technology and is therefore subject to the export control laws of the United States. Any use or further disposition of such items is subject to U.S. law. Exports from the United States and any re-export thereafter may require a formal export license authorization from the government. If there are doubts about the requirements of the applicable law, it is recommended that the buyer obtain qualified legal advice. These items cannot be used in the design, production, use, or storage of chemical, biological, or nuclear weapons, or missiles of any kind.

The ECCN's provided in the Release Notes represent Halliburton's opinion of the correct classification for the product today (based on the original software and/or original hardware). Classifications are subject to change. If you have any questions or need assistance, please contact us at:

#### FHOUEXP@halliburton.com

Under the U.S. Export Administration Regulations (EAR), the U.S. Government assigns your organization or client, as exporter/importer of record, responsibility for determining the correct authorization for the item at the time of export/import. Restrictions may apply to shipments based on the products, the customer, or the country of destination, and an export license may be required by the Department of Commerce prior to shipment. The U.S. Bureau of Industry and Security provides a web site to assist you with determining the need for a license and with information regarding where to obtain help. The URL is:

http://www.bis.doc.gov

#### Definitions

CCATS (Commodity Classification Automated Tracking System) — the tracking number assigned by the U.S. Bureau of Industry and Security (BIS) to products formally reviewed and classified by the government. The CCATS provides information concerning export/re-export authorizations, available exceptions, and conditions.

ECCN (Export Control Classification Number) — The ECCN is an alpha-numeric code, e.g., 3A001, that describes a particular item or type of item, and shows the controls placed on that item. The CCL (Commerce Control List) is divided into ten broad categories, and each category is

further subdivided into five product groups. The CCL is available on the <u>EAR web site</u> (http://www.access.gpo.gov/bis/ear/ear\_data.html#ccl).



The ECCN Number, License Type, and the CCATS Numbers for this product are included in the table below.

Product/Component/Version 5000	ECCN Number	License	CCATS Number
DecisionSpace® Desktop	5D002	ENC	G054690

# **Contacting Landmark Customer Support**

#### Support Via Web Portal

Support information is always available on the Landmark Customer Support internet page. You can also submit a support request directly to Landmark Customer Support though the Landmark Customer Support Portal:

#### http://css.lgc.com/InfoCenter/index?page=home

To request support in the Landmark Customer Support Portal:

- 1. In the **PIN** and **Password** text boxes in the Please Sign In area, enter your registered personal identification number and password.
- 2. Click the **Sign In** button.
- 3. In the Case & Defect Information area, click the Create A New Case link.
- 4. In the **Create Case** area, fill in the necessary information. Provide details about your technical concern, including any error messages, the workflow steps where the problem occurred, and attachments of screen shots that display the problem. To help understand the concern, you can also attach other files, such as example data files.
- 5. Click the **Submit** button. A support analyst in the nearest Technical Assistance Center will respond to your request.

#### **Technical Assistance Centers**

Asia, Pacific 8:00 am - 5:00 pm Local Time Monday-Friday, excluding holidays

**Europe, Africa, Middle East** 9:00 am - 5:30 pm Local Time Monday - Friday, excluding holidays

Latin America (Spanish, Portuguese, English) 7:00 am - 5:00 pm Local Time

North America 7:30 am - 5:30 pm Central Standard Time Monday - Friday, excluding holidays **61-8-9481-4488 (Perth, Australia)** Toll Free 1-800-448-488 Fax: 61-8-9481-1580 Email: <u>apsupport@lgc.com</u>

**44-1372-868686 (Leatherhead, UK)** Fax: 44-1224-723260 (Aberdeen, UK) Fax: 44-1372-868601 (Leatherhead, UK) Email: <u>support@lgc.com</u>

**713-839-3405 (Houston, TX, USA)** Fax: 713-839-3646 Email: <u>soporte@lgc.com</u>

**713-839-2200 (Houston, TX, USA)** Toll Free 1-877-435-7542 (1-877-HELP-LGC) Fax: 713-839-2168 Email: <u>support@lgc.com</u>

#### **Regional Offices**

For contact information for regional offices, see the Contact Support page located at:

http://css.lgc.com/InfoCenter/index?page=contact&section=contact

If problems cannot be resolved at the regional level, an escalation team is called to resolve your incidents quickly.

#### Helpful Links

Name	Website Address
Landmark Software & Services home page	http://www.halliburton.com/landmark
Landmark Support Portal	http://css.lgc.com/InfoCenter/index?page=home
Oracle home page	http://www.oracle.com

Name	Website Address
FLEXNet Publisher (Flexera Software, Inc.)	http://www.flexerasoftware.com
Microsoft SQL Server home page	http://www.microsoft.com/sqlserver
Adobe Acrobat Reader	http://www.adobe.com
Microsoft SQL Server Express home page	http://www.microsoft.com/express/sql

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2107 CityWest Blvd, Building 2, Houston, Texas 77042-3051, USA P.O. Box 42806, Houston, Texas 77242, USA Phone:713-839-2000, FAX: 713-839-2015 Internet: www.halliburton.com/landmark

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Broader Understanding., Depth Team, Depth Team Explorer, Depth Team Express, Depth Team Extreme, Depth Team Interpreter, Depth Team, Depth Team Explorer, Depth Team Express, DepthTeam Extreme, DepthTeam Interpreter, Desktop Navigator, DESKTOP-PVT, DESKTOP-VIP, DEX, DIMS, Discovery, Discovery 3D, Discovery Asset, Discovery Framebuilder, Discovery PowerStation, Discovery Suite, DMS, Drillability Suite, Drilling Desktop, DrillModel, DrillNET, Drill-to-the-Earth-Model, Drillworks, Drillworks ConnectML, Drillworks Predict, DSS, Dynamic Frameworks to Fill, Dynamic Reservoir Management, Dynamic Surveillance System, EDM, EDM AutoSync, EDT, eLandmark, Engineer's Data Model, Engineer's Desktop, Engineer's Link, ENGINEERING NOTES, eNotes, ESP, Event Similarity Prediction, ezFault, ezModel, ezSurface, ezTracker, ezTracker2D, ezValidator, FastTrack, Field Scenario Planner, FieldPlan, For Production, FrameBuilder, Frameworks to Fill, FZAP!, GeoAtlas, GeoDataLoad, GeoGraphix, GeoGraphix Exploration System, Geologic Interpretation Component, Geometric Kernel, GeoProbe, GeoProbe GF DataServer, GeoSmith, GES, GES97, GesFull, GESXplorer, GMAplus, GMI Imager, Grid3D, GRIDGENR, H. Clean, Handheld Field Operator, HHFO, High Science Simplified, Horizon Generation, 12 Enterprise, iDIMS, iEnergy, Infrastructure, iNotes, Iso Core, IsoMap, iWellFile, KnowledgeSource, Landmark (as a service), Landmark (as software), Landmark Decision Center, LandNetX, Landscape, Large Model, Lattix, LeaseMap, Limits, LithoTect, LogEdit, LogM, LogPrep, MagicDesk, Make Great Decisions, MathPack, MDS Connect, MicroTopology, MIMIC, MIMIC+, Model Builder, NETool, Nexus (as a service), Nexus (as software), Nexus View, Object MP, OneCall, OpenBooks, OpenJournal, OpenLink, OpenSGM, OpenVision, OpenWells, OpenWire, OpenWire Client, OpenWire Server, OpenWorks, OpenWorks Development Kit, OpenWorks Production, OpenWorks Well File, Operations Management Suite, PAL, Parallel-VIP, Parametric Modeling, Permedia, Petris WINDS Enterprise, PetrisWINDS, PetroBank, PetroBank Explorer, PetroBank Master Data Store, PetroWorks, PetroWorks Asset, PetroWorks Pro, PetroWorks ULTRA, PLOT EXPRESS, PlotView, Point Gridding Plus, Pointing Dispatcher, PostStack, PostStack ESP, PostStack Family, Power Interpretation, PowerCalculator, PowerExplorer, PowerExplorer Connect, PowerGrid, PowerHub, PowerModel, PowerView, PrecisionTarget, Presgraf, PressWorks, PRIZM, Production, Production Asset Manager, PROFILE, Project Administrator, ProMAGIC Connect, ProMAGIC Server, ProMAX, ProMAX 2D, ProMax 3D, ProMAX 3DPSDM, ProMAX 4D, ProMAX Family, ProMAX MVA, ProMAX VSP, pSTAx, Query Builder, Quick, Quick+, QUICKDIF, Quickwell, Quickwell+, Quiklog, QUIKRAY, QUIKSHOT, QUIKVSP, RAVE, RAYMAP, RAYMAP+, Real Freedom, Real Time Asset Management Center, Real Time Decision Center, Real Time Operations Center, Real Time Production Surveillance, Real Time Surveillance, Real-time View, Recall, Reference Data Manager, Reservoir, Reservoir Framework Builder, RESev, ResMap, Resolve, RTOC, SCAN, SeisCube, SEISINFO, SeisMap, SeismapX, Seismic Data Check, SeisModel, SeisSpace, SeisVision, SeisWell, SeisWorks, SeisWorks 2D, SeisWorks 3D, SeisWorks PowerCalculator, SeisWorks PowerJournal, SeisWorks PowerSection, SeisWorks PowerView, SeisXchange, Semblance Computation and Analysis, Sierra Family, SigmaView, SimConnect, SimConvert, SimDataStudio, SimResults, SimResults+, SimResults+3D, SIVA+, SLAM, Smart Change, Smart Deploy, Smart Flow, Smart Skills, Smart Start, Smart Sustain, Smart Transform, Smart Vision, SmartFlow, smartSECTION, smartSTRAT, Spatializer, SpecDecomp, StrataModel, StrataModel, StrataAmp, StrataSim, StratWorks, StratWorks 3D, StreamCalc, StressCheck, STRUCT, Structure Cube, Surf & Connect, SurfNet, SynTool, System Start for Servers, SystemStart, SystemStart for Clients, SystemStart for Servers, SystemStart for Storage, Tanks & Tubes, TDQ, Team Workspace, TERAS, T-Grid, The Engineer's DeskTop, Total Drilling Performance, TOW/cs, TOW/cs Revenue Interface, TracPlanner, TracPlanner Xpress, Trend Form Gridding, Trimmed Grid, Tubular Basic, Turbo Synthetics, Unconventional Essentials, VESPA, VESPA+, VIP, VIP-COMP, VIP-CORE, VIPDataStudio, VIP-DUAL, VIP-ENCORE, VIP-EXECUTIVE, VIP-Local Grid Refinement, VIP-THERM, vSpace, vSpace Blueprint, vSpace Onsite, WavX, Web Editor, Well H. 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