
EDT Drilling Installation Guide

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3D Drill View, 3D Drill View KM, 3DFS, 3D Surveillance, 3DView, Active Field Surveillance, Active Reservoir Surveillance, ADC, Advanced Data Transfer, ARIES, ARIES DecisionSuite, AssetConnect, Asset Decision Solutions, Asset Development Center, AssetDirector, Asset Journal, AssetLink, AssetLink Advisor, AssetLink Director, AssetLink Observer, AssetObserver, AssetObserver Advisor, Asset Performance, AssetPlanner, AssetSolver, AssetSolver Online, AssetView, BLITZPAK, CasingLife, CasingSeat, COMPASS, Corporate Data Archiver, Corporate Data Store, Data Analyzer, DataManager, DataStar, DBPlot, Decision Management System, DecisionSpace, DecisionsSpace 3D Drill View KM, DecisionSpace AssetLink, DecisionSpace AssetPlanner, DecisionSpace AssetSolver, DecisionSpace AssetView 2D, DecisionSpace AssetView 3D, DecisionSpace Atomic Meshing, DecisionSpace Decision Management Systems(DMS), DecisionSpace for Production, DecisionSpace Infrastructure, DecisionSpace Nexus, DecisionSpace PowerModel, DecisionSpace PrecisionTarget, DecisionSpace Reservoir, DecisionSpace TracPlanner, DecisionSpace Well Seismic Fusion, DecisionSpace WellSolver, DecisionSuite, DepthTeam, Depth Team, DepthTeam Explorer, Depth Team Explorer, DepthTeam Express, Depth Team Express, DepthTeam Extreme, Depth Team Extreme, DepthTeam Interpreter, Depth Team Interpreter, Desktop Navigator, DESKTOP-PVT, DESKTOP-VIP, DEX, DIMS, Discovery, Discovery Asset, Discovery FrameBuilder, DMS, Drillability Suite, Drilling Desktop, DrillModel, Drill-to-the-Earth Model, DSS, Dynamic Reservoir Management, Dynamic Surveillance System, EarthCube, EDM, EDT, eLandmark, Engineer's Data Model, Engineer's Desktop, Engineer's Link, ESP, Event Similarity Prediction, ezFault, ezModel, ezSurface, ezTracker, FastTrack, FG+, FieldPlan, Field Scenario Planner, FZAP!, GeoAtlas, GeoDataLoad, GeoGraphix, GeoGraphix Exploration System, GeoLink, GeoProbe GF DataServer, GES, GES97, GESXplorer, GMAplus, GMI Imager, GRIDGENR, Handheld Field Operator, HHFO, I² Enterprise, iDIMS, IsoMap, iWellFile, i Wellfile, KnowledgeSource, Landmark, Landmark Decision Center, Landmark & Design, Landmark Logo and Design, Landscape, Lattix, LeaseMap, LMK Resources, LogEdit, LogM, LogPrep, Make Great Decisions, MathPack, MIMIC, MIMIC+, Model Builder, MyLandmark, Nexus, Object MP, OpenBooks, OpenJournal, OpenSGM, OpenVision, OpenWells, OpenWire, OpenWorks, OpenWorks Development Kit, OpenWorks Well File, OpenWorks Production, PAL, Parallel-VIP, PetroBank, PetroBank Explorer, PetroBank Master Data Store, PetroWorks, PetroWorks Asset, PetroWorks Pro, PetroWorks ULTRA, PlotView, Point Gridding Plus, Pointing Dispatcher, PostStack, PostStack ESP, PostStack Family, PowerCalculator, PowerExplorer, PowerExplorer Connect, PowerGrid, PowerHub, Power Interpretation, PowerJournal, PowerModel, PowerView, PrecisionTarget, Presgraf, PRIZM, Production Asset Manager, Production, PROFILE, Project Administrator, ProMAGIC, 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+, 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, Reference Data Manager, Reservoir Framework Builder, RESev, ResMap, RightTime, RTOC, SCAN, SeisCube, SeisMap, 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, smartSECTION, Spatializer, SpecDecomp, StrataAmp, StrataMap, StrataModel, StrataSim, StrataWorks, StratWorks, StratWorks 3D, StreamCalc, StressCheck, STRUCT, Structure Cube, Surf & Connect, SynTool, SystemStart, SystemStart for Clients, SystemStart for Servers, SystemStart for Servers, SystemStart for Storage, Tanks & Tubes, TDQ, Team Workspace, TERAS, The Engineer's Desktop, Total Drilling Performance, TOW/cs, TOW/cs Revenue Interface, TracPlanner, TracPlanner Xpress, Trend Form Gridding, Turbo Synthetics, VESPA, VESPA+, VIP, VIP-COMP, VIP-CORE, VIPDataStudio, VIP-DUAL, VIP-ENCORE, VIP-EXECUTIVE, VIP-Local Grid Refinement, VIP-THERM, WavX, Web Editor, Wellbase, Wellbore Planner, Wellbore Planner Connect, WELLCAT, Well Cost, WELLPLAN, Well Seismic Fusion, WellSolver, WellXchange, WOW, Xsection, You're in Control. Experience the difference, ZAP!, and Z-MAP Plus are trademarks, registered trademarks or service marks of Landmark Graphics Corporation.

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Landmark acknowledges that certain third party code has been bundled with, or embedded in, Landmark's software. The licensors of this third party code, and the terms and conditions of their respective licenses, may be found at the following location:

[InstallDir]\Documentation\Third_Party.pdf

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About this Manual

ATTENTION: The installation has been broken up into three separate installs, which should be run in this order:

- **Third-party components**
- **EDM**
- **Drilling applications**

Run the Third-Party Components install first. When it completes, run the EDM install. After it completes, install Drilling applications.

For an outline of various installation scenarios, see the *Planning the EDT Installation* guide available in EDT_PlanningInstall.pdf. For complete installation details, see the following online guides, which can be found in the EDT_Documentation.ZIP file downloaded with the software:

EDT Third-Party Components Installation Guide (EDT_ThirdParty_Install.pdf), *EDM Installation Guide* (EDM_Install.pdf), and *EDT Drilling Installation Guide* (EDT_Drilling_Install.pdf).

To get going quickly, refer to “Quick Start—The Installation Process In a Nutshell” on page 5.

Overview

The information in this manual is applicable to the Engineer’s Desktop (EDT) Drilling & Completions applications on the Engineer’s Data Model (EDM) database.

This manual is designed for system administrators or others who are responsible for installing EDT Drilling & Completions applications on the user’s machine.

An overview of possible installation scenarios is provided in *Planning the EDT Installation* (EDT_PlanningInstall.pdf). For detailed installation instructions, please refer to the three installation guides provided with the download of this release in EDT_Documentation.ZIP: *EDT Third-Party Components Installation Guide*, *EDM Installation Guide* and the *EDT Drilling Installation Guide*.

All pertinent installation and database documentation is available in EDT_Documentation.ZIP. After installation, these PDFs are available in the \Documentation folder.

How To Use This Manual

Before you use the procedures in this manual, EDM and certain third-party applications should be installed and the EDM database made available. The installation of third-party applications and EDM is covered in detail in the accompanying manuals *EDT Third-Party Components Installation Guide* (EDT_ThirdParty_Install.pdf) and *EDM Installation Guide* (EDM_Install.pdf).

Once EDM has been installed, the EDT Drilling & Completions applications can be installed using the procedures outlined in this manual.

Platform Notes

For detailed information on certified and supported platforms and other system requirements, see the accompanying document *Engineer's Desktop 5000.1 Drilling Summary Level Release Notes* (EDT_SummaryReleaseNotes.pdf).

What's in this Manual

This manual contains the following chapters:

“Quick Start—The Installation Process In a Nutshell” on page 5 - This chapter gets you started quickly.

“Installation” on page 7—This chapter reviews the requirements, prerequisites, and procedures for the installation. It also provides detailed instructions for the installation.

“Uninstall Procedures” on page 31—This chapter contains the Engineer's Desktop EDM uninstall procedures.

“The Drilling and Completions Applications” on page 35—This chapter contains descriptions of the Drilling & Completions applications available for installation.

“Getting Started” on page 37—This chapter introduces the basics of the Engineer’s Desktop Drilling & Completions applications. Review of this chapter prior to using the applications can be beneficial to users new to the Engineer’s Desktop and Engineer’s Data Model.

“Appendix A: Useful and Related Documents” on page 55—This chapter contains a brief description of Landmark documents related to the EDT Drilling & Completions applications. These documents can be used to expand your knowledge of the Engineer’s Desktop as a whole.

“Appendix B: Installation FlowChart” on page 63 - This chapter contains a flowchart that outlines the installation of the Engineer’s Desktop 5000.1.

Quick Start—The Installation Process In a Nutshell

Installation sequence of events is VERY IMPORTANT, and MUST be done in the following order:

1. *First*, stop the FLEX service and uninstall your existing LAM *before* installing the 5000.1 release—there is new FLEXlm licensing for the 5000.x release. 5000 LAM *will not* install on the same machine with existing 2003 LAM.
2. *Next*, you must run the Third-Party Components installation. If you do not install this first, errors will occur. Reboot.
3. *Next*, run the EDM installation. Reboot. (EDM *must* be installed before Drilling & Completions applications, or certain services, such as Reporting, will not register correctly.)
4. *Finally*, run the Drilling & Completions installation.
5. If you have an existing EDM database 2003.14 or higher, it must be upgraded to 5000.1. The new Multi-Version Database Upgrade Utility (EDMPatchDB.exe) will upgrade your 2003.14 or higher database to 5000.1. If your database version is earlier than 2003.14, refer to the EDM Drilling Database Guide for instructions.

Note: Manuals in PDF format that contain details of these procedures are located in the EDT_Documentation.ZIP file that accompanied the software download.

Details of the Drilling installation follow in later sections, but this is the mandatory sequence of events.

Installation

This section describes the install procedure for the Engineer's Desktop 5000.1 Drilling & Completions applications and tools.

Hardware and Software Requirements

Hardware and software requirements are outlined in the accompanying document *Engineer's Desktop 5000.1 Drilling Summary Level Release Notes* (EDT_Drilling_SummaryReleaseNotes.pdf).

A copy of this document is included in the EDT_Documentation.ZIP file that accompanies the Drilling software download. Once an installation has been completed, the PDF is accessible in the <installdir>\Documentation folder.

Download Software From Landmark Software Manager

Starting with Release 5000.1, all Landmark software will be made available on a server for customers to download, using the Landmark Software Manager. See the Landmark Software Manager online Help for details.

Drilling & Completions Installation

Pre-requisites

The Engineer's Desktop 5000.1 requires that certain steps be taken prior to running the Third Party Components, EDM, and Drilling & Completions installations. The following checklist outlines these pre-requisites.

1. Upgrade the Operating System, if necessary. For both Windows XP and Windows 2003 Server, Service Pack 2 must be installed.
2. Before installing products you must install Adobe Acrobat Reader™ to read the available documentation.
3. Stop the FLEX service, then uninstall any existing LAM (FLEXlm) older than 5000. LAM 2003 will not co-exist with LAM 5000. (Make sure that you stop the FLEX service before attempting to uninstall LAM 2003.)
4. The “Third-Party Components Installation” must be completed prior to running the Engineer's Desktop EDM 5000.1 installation. Without the Third-Party Components, Drilling & Completions applications will not run.
5. The Engineer's Desktop EDM 5000.1 installation should be completed prior to running the Drilling & Completions install.
6. Migrate or update existing databases. See the accompanying document *EDM Drilling Database Guide* (EDM_Drilling_Databse.pdf) and *EDM Drilling Data Migration Guide* (EDM_Drilling_DataMigration.pdf) *Planning the EDT Installation* (EDT_PlanningInstall.pdf).
7. Obtain licensing or bitlock from Landmark.

Once these prerequisites have been met, the Drilling & Completions installation can be started.

Overview of the Complete EDT Installation (Workflow)

This is what you will be doing to install **EDT Third Party Components**, **EDM**, and **Drilling & Completions** software:

1. **Uninstall LAM 2003**, if it is currently installed (use Add/Remove Programs).
2. **Log in**: Log in using the PC's local administrator account.

Windows Vista only: If you are installing on Windows Vista, you must log in using the true Administrator account (a user account with administrator privileges will not work).

Note that this 'super' Administrator account is only needed to *install* EDT 5000.1—you should *run* EDT 5000.1 using your normal user account.

By default Microsoft disables the Administrator account, but you can enable it, using the Computer Management section of Vista's Administrative Tools Control Panel. Refer to the Microsoft on-line help for details.

3. **Install Third Party Components**: Launch the Third-Party installation by navigating to \ThirdParty and double-clicking on **Setup.exe**.
 - The installation of Third-party software will begin.
 - Following prompts, select the components to be installed. The files will be installed.
 - Reboot. A reboot of the machine is not required if the EDM installation is to be run immediately following this installation. However, Landmark strongly recommends that the system be rebooted prior to running any applications or tools. Some Landmark applications, tools, and services may not work properly until the system has been rebooted.
4. **Install EDM**: Launch the EDM installation by navigating to \EDM and double-clicking on Setup.exe. (Refer to the *EDM Installation Guide* (EDM_Install.pdf) for details.)
 - Reboot. A reboot of the machine is not required if the Drilling & Completions installation is to be run immediately following this installation. However, Landmark strongly recommends that the system be rebooted prior to running any applications or tools. Some Landmark applications, tools, and services may not work properly until the system has been rebooted.

5. **Install Drilling & Completions:** Launch the Drilling & Completions installation by navigating to \Drilling and double-clicking on **Setup.exe**.
 - The installation of Drilling & Completions software will begin.
 - Following prompts, select the components to be installed. The files will be installed.
 - Reboot. Landmark strongly recommends that the system be rebooted prior to running any applications or tools. Some Landmark applications, tools, and services may not work properly until the system has been rebooted.
6. **Obtain licensing or bitlock:** See the *LAM Guide, Linux, Solaris, and Windows* document (LAM.pdf, found in the Tools branch of the Landmark Software Manager) for details on obtaining a license.
7. **Upgrade:** If you have an existing EDM database, upgrade it to 5000.1 by running EDMPatchDB.exe located in the \EDM\Updates folder (refer to the EDM Drilling Database Guide, EDM_Drilling_Database.pdf, for details).

Verify that the Engineer's Desktop EDM 5000.1 database is available.
8. Log in to the database and start using the applications.

Drilling & Completions Stand-Alone Installation Procedure

This section describes the step-by-step procedure for installing the Drilling & Completions applications and tools on a Windows XP or Vista system for either standalone use, or as a Server in a Client-Server configuration (the procedure is the same). You must be logged in with administrator privileges to install.

A flowchart version of this installation is available in “Appendix B: Installation FlowChart” on page 63.

Co-existing Versions Note

EDT 5000.1 can co-exist with previous versions of EDT on the same machine. However, LAM 5000 will not co-exist with previous versions of LAM on the same machine. Previous versions of LAM must be uninstalled if you intend to run LAM 5000 locally.

To run EDT 5000.1 and a previous version of the EDT applications on the same machine, you must point one or both versions of EDT to a LAM server located on a remote machine, since only one version of LAM can run locally. Place the license in a directory pointed to by the environment variable LM_LICENSE_FILE. When using this environment variable to point to LAM servers on different machines, make sure that the 2003 LAM server is listed first.

Installing on a Windows XP SP2 or Vista Machine

A security warning may appear when trying to install software on a Windows XP SP2 or Vista machine:

Security Warning: Do you want to run this software?

Click **Run** to proceed with the installation.

Important Installation Notes!

The person completing the installation **MUST** be logged in with local administrator privileges; otherwise programs will fail to install properly.

For Windows Vista, the installation must be run using the Microsoft Administrator account (local user account with administrator privileges is not sufficient).

In addition, when installing from a network location the administrator **MUST** have permission to access the network source location. This allows the installation to restart after a reboot (i.e., to install Microsoft J# .NET Redistribution package and SQL Server 2005 Express).

ALL open programs should be closed prior to the commencement of the installation, including the Windows Office Toolbar.

The installation procedure is outlined below.

1. Navigate to the \Drilling folder and double-click on **Setup.exe**.

Installing TO a Network Location is NOT Supported

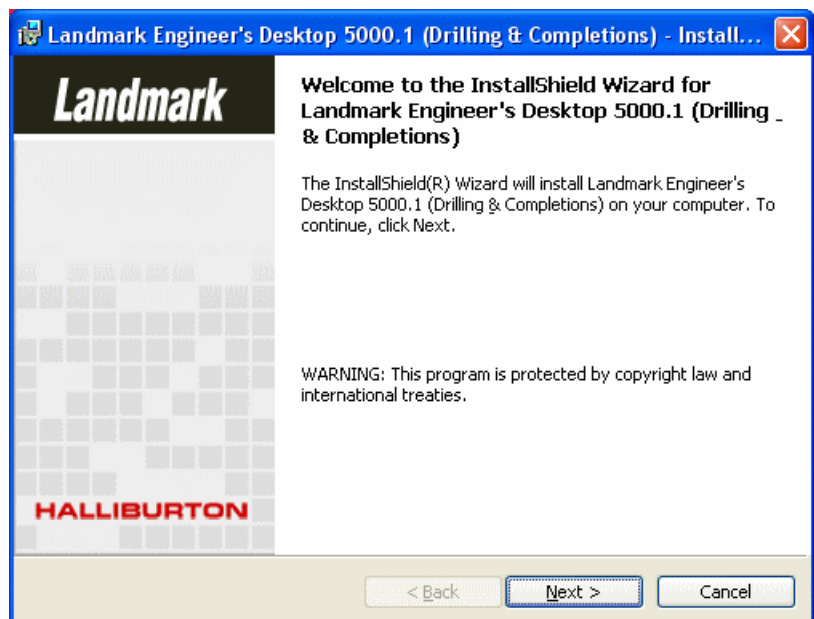
Installing *TO* a Network Location is *NOT* supported. The 5000.1 installation must be performed from the machine the installation is taking place on. Placing the installation in a network directory may cause errors during the install. Windows long file names may truncate to the 8.3 format due to path length limitations (256 characters) in the Operating System. This may result in the installation not finding the files.

Windows Installer Flashing

If you get Windows Installer windows appearing multiple times, you **MUST** let them finish; Do not cancel these windows. Windows Installer is repairing your registry, which might have been corrupted by previous installations.

2. The installation checks for the presence of applications installed by the Third-Party install. If Third-Party Components have not been installed, the Drilling & Completions installation will install these component prior to continuing.

The InstallShield Wizard opens and displays the *Landmark Engineer's Desktop 5000.1 (Drilling and Completions)* window.

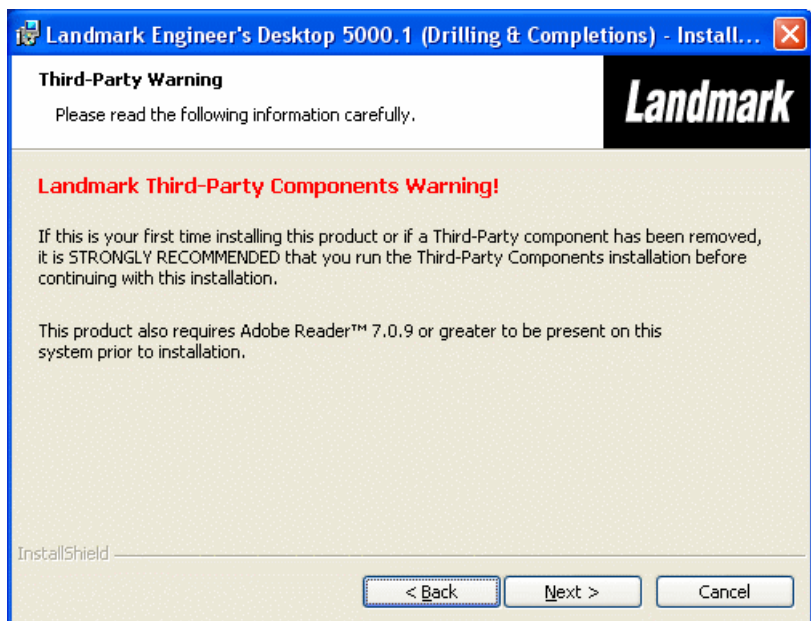


3. Click **Next**.

Aborting Setup

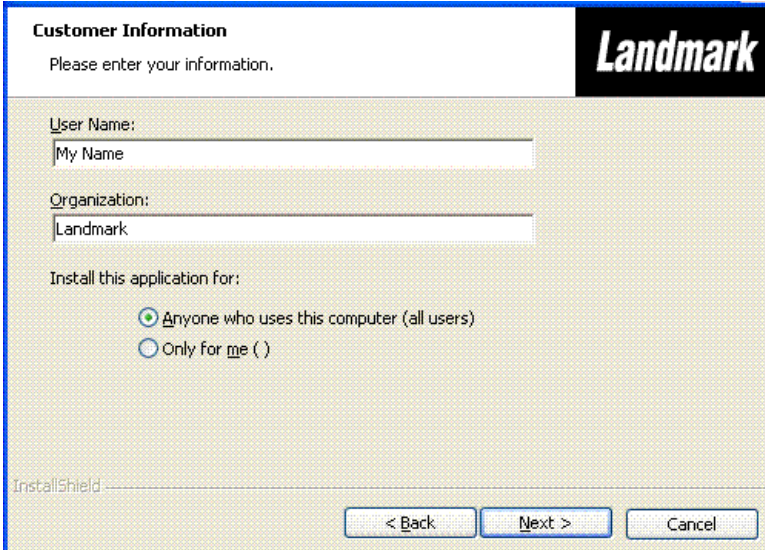
At any time during the installation click **Cancel** to exit the InstallShield Wizard.

The *Landmark Third Party Components Warning* window appears.



4. If Third-Party Components have not yet been installed, click **Cancel** to exit setup and run the Third-Party Components installation (see the *EDT Third-Party Components Installation Guide*). Otherwise, click **Next**.

If you have not yet run the EDM installation, the *Customer Information* window appears. (Note that this window does NOT appear if EDM 5000.1 has already been installed on the machine prior to running the Drilling & Completions installation. In this case the information entered during the previous installation is also used for the Drilling & Completions install.)

The image shows a Windows-style dialog box titled "Customer Information" with the Landmark logo in the top right corner. The text "Please enter your information." is displayed below the title. There are two text input fields: "User Name:" with the text "My Name" and "Organization:" with the text "Landmark". Below these fields, the text "Install this application for:" is followed by two radio button options: "Anyone who uses this computer (all users)" (which is selected) and "Only for me ()". At the bottom left, the text "InstallShield" is visible. At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel".

Customer Information

Please enter your information.

User Name:
My Name

Organization:
Landmark

Install this application for:

☒ Anyone who uses this computer (all users)

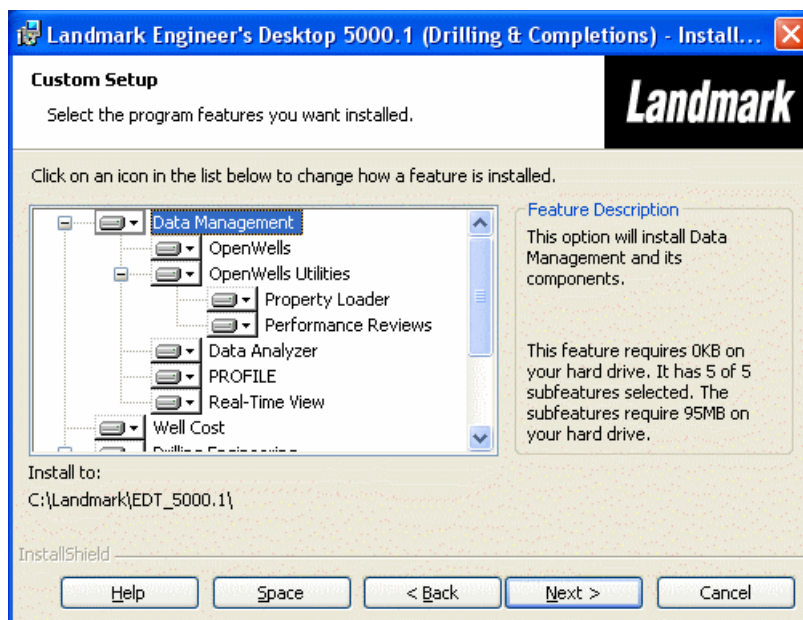
☐ Only for me ()


InstallShield




< Back Next > Cancel

5. Enter the **User Name** and **Organization** and select an application install option:
 - **Anyone who uses this computer** - This option will place Desktop Shortcuts and Start Menu items under the All Users folder in Documents and Settings.
 - **Only for me** - This option will place Desktop Shortcuts and Start Menu items under the current user's Windows user profile.
6. Click **Next**.

The *Choose Features to Install* window appears.



7. By default, all components are selected for installation. To change the default, select the dropdown () for each application and choose one of the following options:

-  - adds the currently selected component to the installation
-  - adds the currently selected component and its child components
-  - removes the component from the installation

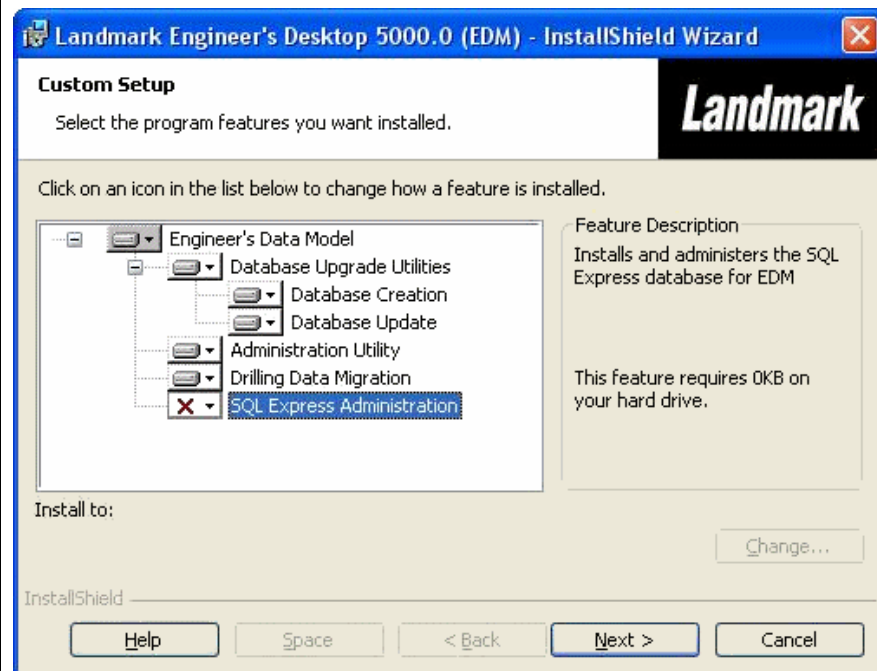
The Engineer's Desktop applications are all separately licensed. Select only the application(s) for which the user is licensed.

In the *Install to* area, use the default location or click **Change** to navigate to a different folder where Drilling & Completions applications are to be installed (note that the **Change** button is only available if you have not yet installed EDM 5000.1). UNC and Network Mapped Drives are NOT supported as Destination Folder locations.

Installing SQL Server Express

A stand-alone installation of EDM includes its own Microsoft SQL Server 2005 Express database. Landmark ships the SQL Server 2005 Express database as a file, and the EDM Installation installs the database.

If you desire to not install SQL Server, click on the arrow next to SQL Express Administration, and then select **Remove Feature** from the drop-down list. A red X should appear next to SQL Express Administration as seen below.

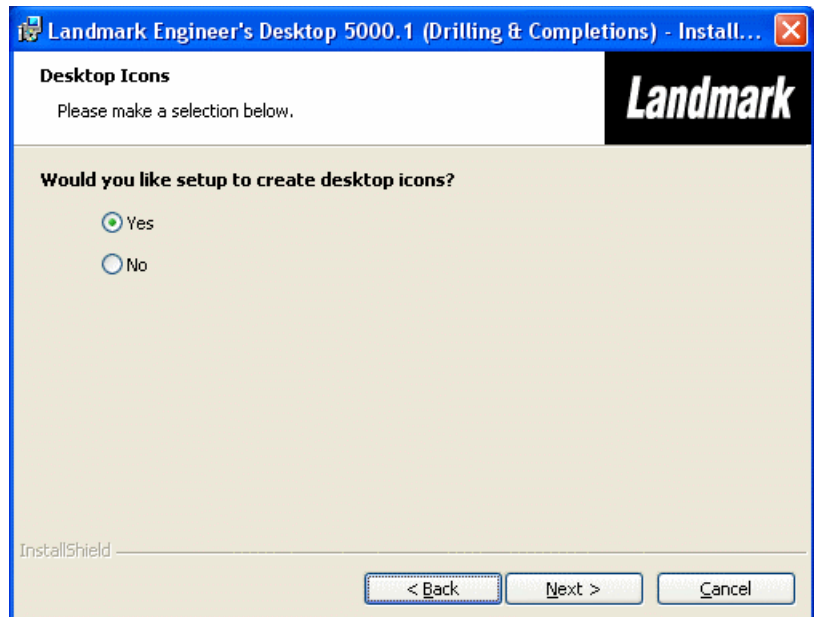


8. Click the **Space** button to view a listing hard disk space available and required for the components selected to install.
 - The space Available on 'drive' lets the installer know the amount of disk space that is available on the system. This is a good indicator as to whether the drive can accommodate the selected applications or database tools.
 - The space Required on 'drive' informs the installer the amount of disk space that will be used by the install for the selections made. Changing the selections will affect the amount of disk space required.
 - The space Available on 'drive' lets the installer know the amount of disk space that is available on the system. This is a

good indicator as to whether the drive can accommodate the selected applications or database tools.

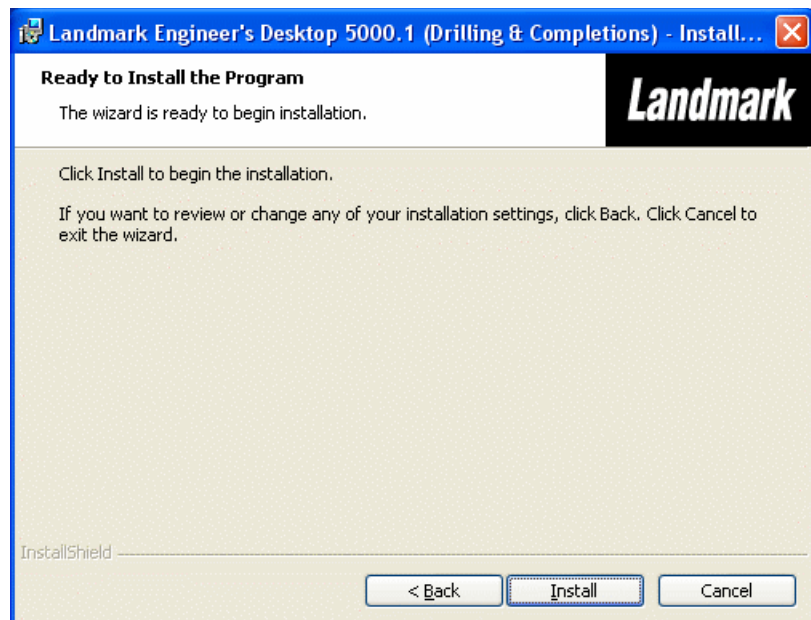
9. Click **Next**.

The *Desktop Icons Selection* window appears.



10. Select **Yes** to place shortcuts on the desktop. If **No** is selected, you must then create your own desktop shortcuts or use the Windows Start menu to launch the Engineer's Desktop applications.

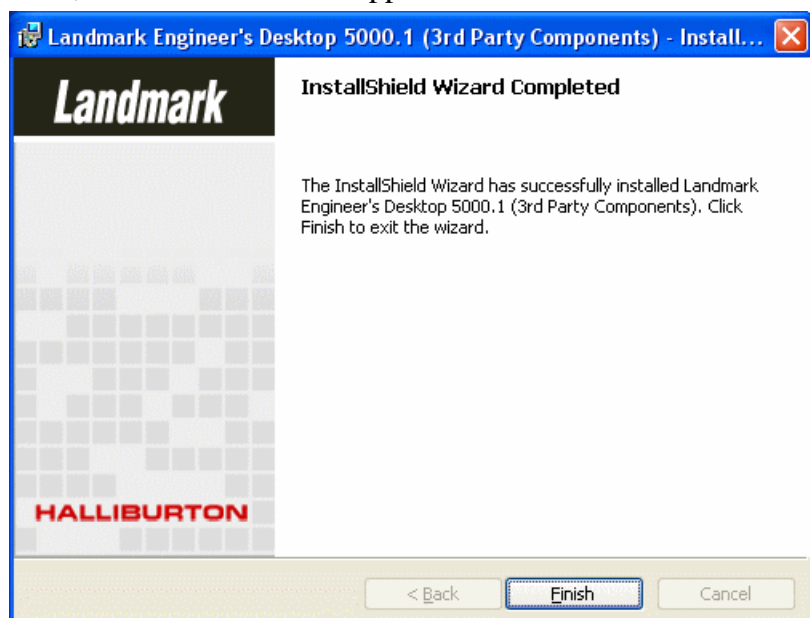
The *Ready to Install the Program* window appears.



11. To begin the installation of files, click the **Install** button. Otherwise, click the **Back** button to make changes to settings in any of the Setup windows.

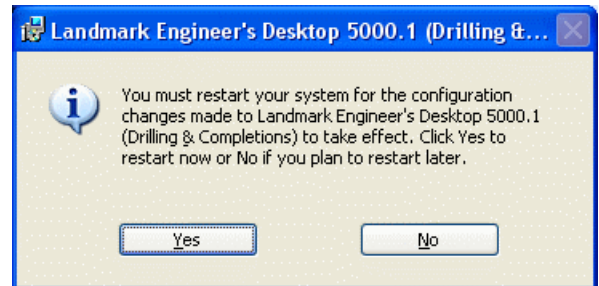
The installation will start to copy files to the appropriate destinations. The Setup Status window will display the progress of files copied.

When all the selected Engineer's Desktop components have been installed, the *Success* window appears.



12. Click **Finish** to complete the installation.

The *Reboot* window appears.



13. Click **Yes** to restart the computer, or click **No** and restart the computer manually at a later time.

Rebooting

Landmark **strongly** recommends that the system be rebooted prior to running any applications or tools. Some Landmark applications, tools, and services may not work properly until the system has been rebooted.

After reboot, it will take a few moments for some programs to initialize.

This concludes the installation of standalone Drilling & Completions software.

See “Getting Started” on page 37 for and information on using the applications.

Installation Location

Directory Permissions

Special permissions are required to run the Engineer's Desktop Drilling & Completions applications and the EDM database. The following sections outline these permissions.

Registry

- All standard applications must have read-only access to HKLM\Software\Landmark Graphics Corporation (and all levels below).
- All standard applications must have full access to HKCU\Software\Landmark Graphics Corporation (and all levels below).
- All administrative/service applications must have full access to HKLM\Software\Landmark Graphics Corporation (and all levels below).

Java applications will read from HKLM\SOFTWARE\JavaSoft\Prefs\ and below.

Java applications will write to HKCU\Software\JavaSoft\Prefs\ and below.

A common procedure for an application installation is to write to a User defaults area in HKLM. When the application is run for the first time by a user, the registry set is copied down to HKCU.

Client Installation Files

- All standard applications must have full access to <target dir> \Landmark Graphics Corporation (and below).
- All administrative/service applications must have full access to HKLM\Software\Landmark Graphics Corporation (and below).

Server Installation Files

- Non-Administration users and applications must have read-only access to files.
- Administrator and Server applications must have write access to files on the Server.
- The following folders are accessed by the Administrator and Server applications:
 - COMPASS: <target folder>\Compass\Output
 - WELLPLAN: <target folder>\Wellplan\Output
 - Windows TEMP folder as defined as %TEMP%

Administrative Application Files

The following applications are considered Administrator Applications:

- Installation
- EDM Administration Utility
- EDM Services Utility
- Data Migration tools(s)
- OpenWire
- EDM Publishing Service
- SQL Server Utility

Results of an Installation

Services installed

The following Services are added to the system during the installation:

- **LGC EDM Data Receiver (EMail)**—This service monitors email for the presence of data transfer files on the receiving machine. Once a data transfer file has been detected it is then moved to a specified folder. The LGC EDM Data Receiver (Email) service must be manually started prior to running the data transfer or data requests.
- **LGC EDM Data Receiver (File System)**—This service monitors a specified file location for data transfer files. Once a data transfer file has been detected, it is processed. The LGC EDM Data

Receiver (File System) service must be manually started prior to running the data transfer or data requests.

- **LGC EDM Publishing**—This service monitors the EDM Publishing Services scheduled events. When an event is due, the service launches the EDM Publishing application, allowing for the scheduled jobs to take place. The LGC EDM Publishing service must be manually started prior to running the EDM Publishing Service.
- **LGC EDM Simultaneous Activity Monitor (SAM)**—This service monitors the Engineer's Desktop applications' use of the database and notifies the users of other applications currently accessing the same area of the database. The LGC EDM Simultaneous Activity Monitor service will in most cases start automatically.

Directory Structure

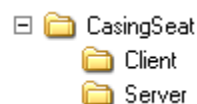
Each application will create its own unique directory structure beneath the EDT_5000.0 install directory.

The default directory for the Drilling & Completions installation is [drive letter]:\Landmark\EDT_5000.0

The following information outlines the mapping of the directory structure for each application.

CasingSeat

The CasingSeat directory contains the Local and Network files necessary to run the application. The Local install directory structure for CasingSeat is as follows:

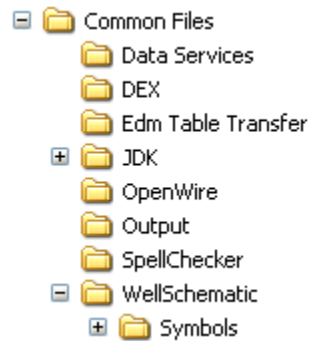


In the case of a Network installation, the Server folder is located on the Server machine and the Client directory is located on the Client machine.

Users should have full control access to both folders for all types of installations.

Common Files

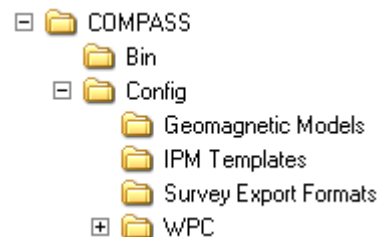
The Common Files directory contains files shared by multiple Drilling & Completions applications and tools. The install directory structure is as follows:



Users should have full control access to Local files, and Read/File Scan access to Server files.

COMPASS

The COMPASS directory contains the Local and Network files necessary to run the application. The install directory structure for COMPASS is as follows:



Users should have full control access to Local files, and Read/File Scan access to Server files.

Data Analyzer

The Data Analyzer directory contains the Local and Network files necessary to run the application. The install directory structure Data Analyzer is as follows:

C:\Landmark\EDT_5000.0\Data Analyzer

Users should have full control access to Local files, and Read/File Scan access to Server files.

Documentation

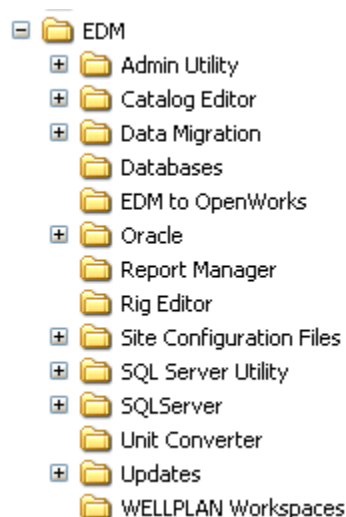
The Documentation directory contains all supporting documentation for the Engineer's Desktop Drilling and Completions applications and tools. These files include the installation guides, release notes, and online help files.

HTML help files will *not* open properly when accessed from a Server.

This is a Microsoft limitation. The Documentation directory must be present on both the Client and the Server machines in order for Help files to open properly. (See "Cannot Open Help Files Located On A Server After You Install Security Update 896358 Or Security Update 840315" on page 60 for details.)

EDM

The EDM directory contains the Local and Network files required to run associated tools and applications. The directory structure for EDM is as follows:



Users should have full control access to Local files, and Read/File Scan access to Server files.

Real-Time View

The LogView directory contains the Local and Network files required to run the application. The directory structure for LogView is as follows:



Users should have full control access to Local files, and Read/File Scan access to Server files.

OpenWells

The OpenWells directory contains the Local and Network files necessary to run the application. The directory structure for OpenWells is as follows:



Users should have full control access to Local files, and Read/File Scan access to Server files.

PROFILE

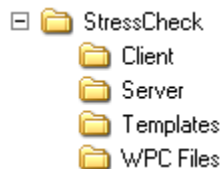
The Profile directory contains Local and Network files necessary to run the application. The install directory structure for Data Analyzer is as follows:



Users should have full control access to Local files, and Read/File Scan access to Server files.

StressCheck

The StressCheck directory contains the Local and Network files necessary to run the application. The install directory structure for StressCheck is as follows:



Users should have full control access to Local files, and Read/File Scan access to Server files.

Well Cost

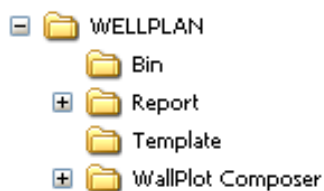
The Well Cost directory contains the Local and Network files necessary to run the application. The install directory structure for Well Cost is as follows:



Users should have full control access to Local files, and Read/File Scan access to Server files.

WELLPLAN

The WELLPLAN directory contains the Local and Network files necessary to run the application. The default directory structure for WELLPLAN is as follows:



Users should have full control access to Local files, and Read/File Scan access to Server files.

Troubleshooting

Error 1718 - File was rejected by digital signature policy

Issue

During the installation, you may encounter an “Error 1718 - File was rejected by digital signature policy”.

Cause

The cause for this is that if your computer is joined to a domain, a domain policy update may override the registry changes that you make.

Workaround

Landmark *strongly* recommends that you disconnect the computer from the domain before you follow these steps to fix the problem.

1. Click **Start**, click **Run**, type **regedit**, and then click **OK**.
2. In Registry Editor, locate and then click on the following registry key:

HKEY_LOCAL_MACHINE\Software\Policies\Microsoft\Windows\Safer\CodeIdentifiers

Important: Before you modify this key, we recommend that you back up this key.

To do this, right-click **CodeIdentifiers**, then click **Export**. Save the file to a location where you can find it.

3. Change the **PolicyScope** registry value. To do this, double-click **PolicyScope**, and then change the setting from 0 to **1**.
4. Close Registry Editor.
5. Click **Start**, click **Run**, type **cmd**, and then click **OK** to open a Command Prompt window.

6. At the command prompt, type the following command, and then press **Enter**:

net stop msiserver

This command stops the Windows Installer service if the service is currently running in the background. When the service has stopped, close the Command Prompt window, and then go to Step 7.

Note: If you receive the following message at the Command Prompt, close the Command Prompt window, and then go to Step 7:

“The Windows Installer service is not started”

7. Install the program that you were trying to install when you received the error message that is mentioned in the "Symptoms" section.
8. After you install the program, repeat Steps 1 and 2. Then, change the **PolicyScope** registry value back to **0**.
9. If you disconnected the computer from a domain, re-join the domain, and then restart the computer.

Note: If you did not disconnect the computer from a domain, you do not have to restart the computer.

If the previous steps do not resolve the issue, follow these steps:

1. Click **Start**, click **Run**, type **control admintools**, and then click **OK**.
2. Double-click **Local Security Policy**.
3. Click **Software Restriction Policies**.

Note: If no software restrictions are listed, right-click Software Restriction Policies, and then click Create New Policy.

4. Under **Object Type**, double-click **Enforcement**.

5. Click **All users except local administrators**, and then click **OK**.
6. Restart the computer.

Default SQL Instance Name

The EDM installation expects a SQL instance named “EDM5000.” If the instance name is other than EDM5000, an error will occur. If you desire to use an instance with another name, attach it after the installation, using the SQL Server Utility.

Uninstall Procedures

This section describes the uninstall procedure for the Engineer's Desktop 5000.1 Drilling & Completions applications.

The EDM Database and database tools uninstall is outlined in the *EDM Installation Guide* (EDM_Install.pdf), available in the Windows Start menu: **Start > Programs > Landmark Engineer's Desktop 5000.1 > Documentation > User Guides**.

Drilling & Completions 5000.1 Uninstall

There are three options when uninstalling Landmark Engineer's Desktop Drilling & Completions applications:

- **Modify**

When selected, this option allows for the addition of new components or the removal of installed components.

- **Repair**

When selected, this option reinstalls all previously installed components.

- **Remove**

When selected, this option removes **all** installed EDT components.

The Modify Option

1. Navigate to the [InstallDir]\Drilling folder.
2. Select:

Start > Settings > Control Panel
3. Double click the **Add/Remove Programs** icon.

The *Add/Remove Programs* window appears.

4. Select **Landmark EDM Engineering 5000.1 (Drilling & Completions)** and click the **Change** button.
5. The *Welcome* window appears. Click **Next**.

Aborting the Installation

If you click **Cancel** at any point throughout the install/uninstall, a message appears confirming whether you want to cancel the installation. Select **Yes** to exit Setup. Select **No** to continue.

6. Select the **Modify** option and click **Next**.
 7. Select the component(s) to install and deselect the component(s) to uninstall. Click **Next**.
 8. Select **Yes** to place shortcuts on the desktop. If **No** is selected, you must then create your own desktop shortcuts or use the Windows Start menu to launch the Engineer's Desktop applications.
 9. Click **Install** to proceed with the changes, or click **Cancel** to cancel the operation and alter your choices.
- Setup will now install selected components and remove deselected components.
10. When the installation is complete the *Setup Success* window appears. Click **Finish**.
 11. The Reboot window appears. Select **Yes** to reboot and complete the installation. Select **No** to manually reboot the machine at a later time.

It is strongly recommended that the system be rebooted after setup has completed the selected option.

The Repair Option

1. In the Add/Remove Programs window, select **Landmark EDM Engineering 5000.1 (Drilling & Completions)** and click the **Change** button.
2. The *Welcome* window opens. Click **Next**.

3. Select the **Repair** option and click **Next**.
4. Click **Install** to proceed with the changes, or click **Cancel** to cancel the operation and alter your choices.

Any repairs to Engineer's Desktop applications and components will be made at this time. This option replaces files and executables that would have been copied during the original install.

5. When the installation is complete the *Setup Success* window appears. Click **Finish**.
6. The Reboot window appears. Select **Yes** to reboot and complete the installation. Select **No** to manually reboot the machine at a later time.

It is strongly recommended that the system be rebooted after setup has completed the selected option.

The Remove Option

1. In the Add/Remove Programs window, select **Landmark EDM Engineering 5000.1 (Drilling & Completions)** and click the **Change/Remove** button.

Drilling and Completions Uninstall

In cases where Drilling and Completions components are uninstalled, Landmark recommends that the user also run a Repair on the EDM installation.

2. The *Welcome* window opens. Click **Next**.
3. Select the **Remove** option and click **Next**.
4. Click **Remove** to proceed with the uninstall, or click **Cancel** to cancel the operation and alter your choices.

If the uninstall procedure detects that an Engineer's Desktop application or service is currently running, the *Files in Use* window will appear. Close the open application, or stop the service and click the **Retry** button.

The uninstall will begin the removal of files.

5. When the installation is complete the *Setup Success* window appears. Click **Finish**.
6. The Reboot window appears. Select **Yes** to reboot and complete the installation. Select **No** to manually reboot the machine at a later time.

It is strongly recommended that the system be rebooted after setup has completed the selected option.

The Drilling and Completions Applications

What's Included in the Installation

The Engineer's Desktop Drilling & Completions installation is contained in the [Installdir]\Drilling folder. This install includes Landmark's Drilling Engineering and Data Management applications. Below is the list of applications available for installation. (For descriptions of each application, see the "Contents of the Engineer's Desktop 5000.1 Release Download" section of the *Engineer's Desktop 5000.1 Drilling Summary Level Release Notes*).

Drilling Engineering

- CasingSeat
- COMPASS
- StressCheck
- WELLPLAN
- Well Cost

Data Management

- OpenWells
- PROFILE
- Data Analyzer
- Real-Time View

Tools and Utilities

- Catalog Editor
- EDM Administration Utility
- EDM Publishing Service
- EDM Services Controller

EDM to OpenWorks Link

Field Office Data Transfer

OpenWells Performance Reviews

Property Loader

Rig Editor

SQL Server Utility

Symbol Manager

Unit Converter

EDM Report Manager

Getting Started

Once the Engineer's Desktop Drilling & Completions applications have been installed, the PC has been rebooted, and a network or standalone license has been made available, the applications are ready for use.

Legacy Files

The following legacy files must be manually copied to the locations specified.

- EDM images/logos - <install directory>\Common Files\Images
- WELLPLAN templates .TPT: <install directory>\WELLPLAN\Report\Output\Workspace
- COMPASS magnetic files .GAM and .DAT: <install directory>\COMPASS\Config\Geomagnetic Models
- PROFILE templates: .PPC can be copied to the template folder defined by the user.
- PROFILE symbols .PSY: <install directory>\Common Files\WellSchematic\Symbols
- OpenWells filters .QRY should be copied to the users Windows profile e.g., C:\Documents and Settings\<user>\Application Data\Landmark\OpenWells\Queries.
- StressCheck templates .SCT: <install directory>\StressCheck\Client
- CasingSeat templates .PDT: <install directory>\CasingSeat\Client

Note: For StressCheck and CasingSeat, starting with the 2003.16 release, the user has the ability to store templates in the database, so the user can opt to upload templates to the database to share them, or use them in the next release.

Two scenarios:

1. User has a pre-2003.16 release in which the user created his/her own CasingSeat/StressCheck templates. In order to get the templates created in the pre-2003.16 release and use them in 2003.16 or greater, the user would have to copy them manually to the 2003.16 or greater CasingSeat/Stresscheck folder.
2. User has a 2003.16 or greater release in which he/she created templates but did not upload them to the database. User has the option to upload his/her templates to the database to share them, or not load them to the database and copy them manually to another machine.

EDM Administration

EDM Administrators can set up EDM Database security and configurations using the EDM Administration Utility. To access the EDM Administration Utility from the Windows Start menu, follow the menu path specified during the installation;

**Start > Programs > Landmark Engineer's Desktop 5000.1 >
Tools > EDM Administration**

For more information see the *EDM Administration Utility* on-line help.

Drilling & Completions Applications

EDM Engineering applications can be launched using the following methods.

1. From the Windows Start menu, follow the menu path specified during the installation;

Start > Programs > Landmark Engineer's Desktop 5000.1 >

Select the EDM Engineering application to be opened (e.g., COMPASS, OpenWells, PROFILE, or WELLPLAN).

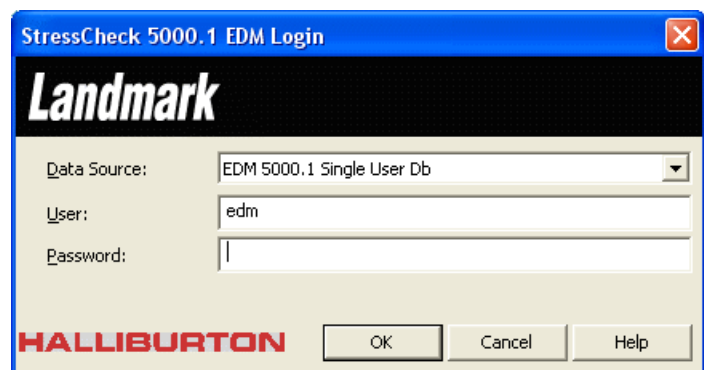
Or

To access one of the EDM Utilities or Documentation, follow the menu paths:

Start > Programs > Landmark Engineer's Desktop 5000.1 > Tools

Start > Programs > Landmark Engineer's Desktop 5000.1 > Documentation

The application Login dialog appears.



The EDM login uses a single shared database login. The login dialog box will only appear when the first Engineer's Desktop application is started. The login will not be required again for subsequent Engineer's Desktop application launches, unless all Engineer's Desktop applications are closed (i.e., if StressCheck is open, then no login is required when starting any of the other applications, such as COMPASS).

2. Select the EDM **Data Source** name from the picklist. The default EDM data source installed by the Engineer's Desktop Installation is named '*EDM 5000.1 Single User Db*'. Other EDM data sources may have been installed; ask your System Administrator for the correct Data Source Name.
3. Enter the **User** and **Password**. The default username and password are '*edm*' and '*Landmark1*' respectively. Other user names may have been configured within EDM by the client implementation teams. It is a good practice to change the default password going forward.

The application window opens.

Understanding the Well Explorer

The Well Explorer can be used with each of the Drilling Engineering and Data Management applications. It is located by default on the left side of the application window. The Well Explorer functions much like the Microsoft Windows Explorer, and is organized as a hierarchical data tree, which can be used to browse the EDM Drilling data hierarchy at all levels. It can perform data management tasks, such as creating or modifying data objects, and is used to open engineering data sets for analysis.

The following figure illustrates the Well Explorer trees as seen in many of the applications.

Filter
shows currently selected filter (notice “funnel” indicating a filter is applied to this node)

Virtual Folders
Currently selected data item (a Design, in this example)

Available Contractors
Available Workspaces
Available Tubular Properties
Available Catalogs

Associated Data Viewer
Components “associated with” the selected data item (the Design, in this example). Double-clicking on Pore Pressure, Frac Gradient, or Wellpath opens the respective editor on demand.

Well Configuration
shows the current Well configuration for the selected Design/Case, including sidetracks for complex Wellbores.

Reference Datum
shows the current reference datum information for the selected Design/Case

Recent Bar
shows the last selected data items; use to quickly open recently used items.

Hierarchical “Tree”
A file or folder linked to the selected Design as an “attachment”

Well Explorer

Filter
WELLPLAN Cases

Recent
ODR - Daily Operations 42 - 08/03/1997 (CHINOOK RESOURCES LTD, URSUS,)

Well Explorer
EDM 2003.21 Single User Db (EDM 2003.21 (07.00.00.048))
Africa, Middle East
Asia, Pacific
Europe
Latin America
North America
CHINOOK RESOURCES LTD
URSUS
GRIZZLY
GRIZZLY GZ 1/16
GZ 1/16 Extended Reach Design (11/22/1996)
ODR - Daily Operations 42 - 08/03/1997
ODR - Daily Operations 42 - 08/03/1997

Associated Data Viewer

Name	Details
Wellpath	161 stations to 146.0 ft
Formations	3 Formation Tops
Pore Pressure	1 value
Frac Gradient	1 value
Geothermal Gradient	Bottom Hole: 78.8 °F
Casing Design	4 casings
GG Winchester Abstract.doc	Facilities Plan
1996 Surveys	C:\Grizzly Surveys

Well Configuration









26" C/O
JL 460.3
13-3/8
JL 4,186.
9-5/8"
JL 7,978.
7" PRO
JL 15,178
15,217.0
GZ 1/16
Extended Rea






Reference Datum

Datum: ROTARY TABLE
Datum Elevation: 146.0ft
Air Gap (Ground): 82.00ft
Ground Elevation: 64.00ft
Mean Sea Level






Well Explorer Icons







The following table displays Well Explorer icons (nodes) that are common to each EDT Engineering application. (A node is a data item stored within the database that falls within the EDM hierarchy.)

Icon	Description
	EDM Database Icon - the EDM Database stores all Company data sets and supporting tables.
	Company Icon - a Company stores all field, project, or asset data owned or operated by the Company.
	Project Icon - a Project stores all Sites associated with the Field or Project.
	Site Icon - a Site is a collection of Wells. A site may be a single land well, a sub-sea well, or offshore platform.
	Well Icon - a Well is a surface location for one or more Wellbores.
	Wellbore Icon - a Wellbore is a unique wellpath or trajectory from surface, or a tie on point to its total depth.
	Virtual Folder Icon - found in CasingSeat, COMPASS, StressCheck, OpenWells, PROFILE, and WELLPLAN. A Virtual Folder is a container that is customized by the user to organize data within the folder. Folders are added to any level above Event and display an embedded icon inside the folder that signifies the Well Explorer level where the folder exists.
	Catalog Icon - Catalogs are used to compile a list of available drilling components and their properties. These catalogs are used by each of the applications as a selection list for equipment.

Icon	Description
	Tubular Properties - Tubular Properties define the physical properties of any unusual pipe grades or special materials (such as corrosion resistant alloys), as well as the deration of the material's yield strength as a function of temperature.
	Class - The Class Editor is used to compile a list of tubular classes and associated properties.
	Temperature Deration - The Temperature Deration Editor is used to define the schedule used to derate the minimum yield strength of a material as a function of the temperature.
	Materials - The Materials Editor is used to compile a list of material types and associated properties. This list is used as a selection list while defining a grade on the Tubular Grade spreadsheet.
	Grades - The Grades Editor is used to define the physical properties of all pipe grades or special materials (such as corrosion-resistant alloys) used in the pipe inventory and catalog. The grades you define will be used as a selection list when defining a component using catalogs. (For example, you select a grade in the String Sections Spreadsheet in WELLPLAN.)

Depending on which application is open, the Well Explorer may also contain the following data items, which are specific to certain applications.

Icon	Description
	Design Icon - found in CasingSeat, COMPASS, StressCheck, OpenWells, PROFILE, and WELLPLAN. A Design is a set of Cases that make up part or all of the Well design. The symbol for a Design comes in three versions: <ul style="list-style-type: none"> • Actual -  • Planned -  • Prototype - 
	Case Icon - found in WELLPLAN, a Case is a set of data and engineering parameters to analyze a particular operation, such as a BHA Run or Casing String.

Icon	Description
	Event/Job Icon - found in OpenWells > Well Explorer tree > Wells tab, an Event/Job is a time slice or period marking a major phase of operations occurring at a Well or a period of time when a rig or work unit is over the Well performing an operation.
	Completion Icon - found in OpenWells > Well Explorer tree > Wells tab, a Completion is a system of isolated wellbore openings, wellbore conduits, and associated equipment which provide a means to produce or inject fluid from or into producing zones.
	Workspaces - A workspace is a template for how you want tabs, panes, arrangement of plots within panes, etc. to appear in WELLPLAN.
	User Defined Workspace - System Workspaces are read-only, and are shipped with the EDM database. You may apply them, but not alter them. When you import System workspaces, they will overwrite any existing System workspaces.
	Module Workspace - Module Workspaces will apply automatically when you activate a given module (Hydraulics, Surge, etc.). To save a workspace as a module workspace, select File > Workspace > Save As Default. It will automatically apply the module tool tip name as the default module workspace name.
	System Workspace - You can save any workspace as a User Workspace, so long as it has a unique name. Workspaces always have a .ws.xml extension.

The Associated Data Viewer

The Associated Data Viewer is located at the base of the Well Explorer for each of the Drilling Engineering and Data Management applications. This viewer displays associated objects and data for the selected node in the Well Explorer or OpenWells Report List (for example, attached documents).

For detailed information on the Well Explorer for WELLPLAN, PROFILE, Well Cost, StressCheck, and CasingSeat, see the online help for these applications.

Working with the Well Explorer in COMPASS

Well Explorer in COMPASS is similar to Well Explorer in other applications in that you can use its Browser Window, located on the top right section of the window, to navigate the EDM database at several descending levels. The COMPASS version of Well Explorer contains additional functionality required by a directional well planning and survey data management application.

The COMPASS version of Well Explorer is a combined browser and status window for navigating, managing, exporting and accessing COMPASS data. It is divided into three sections. The section located on the left of the window is the **Status Window**. The top right section of the window is the **Browser Window**, the bottom right section of the window is the **Data Viewer**, and located above these three sections is a drop down picklist, **Recent**, containing a selection list of locations within the tree that have been opened recently. The COMPASS version of Well Explorer is always available. It can be minimized, but cannot be closed.

COMPASS - [Status]

File Edit View Analysis Plot Report Tools Window Help

Units: API Datum: Sample Alpha DFE @ 150.0ft (Sample) TVDs to System Local: Slot North: Grid

Recent: A1-S0 (Full Feature Oil Co., Kananga, Alpha, A1, A1-S0)

Filter: <none>

Current Selection & Status

- Full Feature Oil Co.
- Kananga
- Alpha
- A1
- A1-S0
- A1-S0 (Actual)

Datum Information

Datum: Sample Alpha DFE
Datum Elevation: 150.0ft
Air Gap (MSL): 150.0 ft
Mean Sea Level
Mudline Depth (MSL): 300.0 ft
Mudline TVD: 450.0ft

Local Origin

0.0ft
(Slot 0,0)

North Ref

T G Magnetic: -7.96°
True: 0.65°

Browser Window


- Full Feature Oil Co.
 - Kananga
 - Alpha
 - A1
 - A1-S0
 - A1-S0
 - A1-S2
 - A1-S2P1
 - A2
 - A2-S0
 - A2-S0
 - B2
 - B2-S0
 - B2-S1
 - B2-S1
 - B2-S2
 - B3
 - C1
 - C5
 - C5-S0
 - C5-S0
 - Echo
 - Largo North Platform
 - LKN-05
 - 1
 - 1
 - LPN-004
 - 1
 - 1
 - ST1
 - P1

Data Viewer

| Survey Name | | Tool | From (ft) | To (ft) | Start Date |
|---------------------------|--|-----------|-----------|---------|------------|
| A150GG | | Good_gyro | 20.0 | 6436.5 | 3/6/1996 |
| A150GM | | Good_mag | 6499.9 | 12810.0 | 3/6/1996 |
| Casings | | | | | |
| 0 casings | | | | | |
| Formations | | | | | |
| 0 formations | | | | | |
| Actual Wellpath | | | | | |
| 546 stations to 12810.0ft | | | | | |
| Survey Program | | Tool | From (ft) | To (ft) | |
| A150GG (A1-S0) | | Good_gyro | 0.0 | 6436.5 | |
| A150GM (A1-S0) | | Good_mag | 6474.8 | 12810.0 | |

For Help, press F1

Common Well Name Unit System: API Angles: °

The COMPASS version of Well Explorer will allow for navigation down to the Design level in EDM. To open the Design level, double-click on the Design icon () or use the right-click menu click menu and select Open.

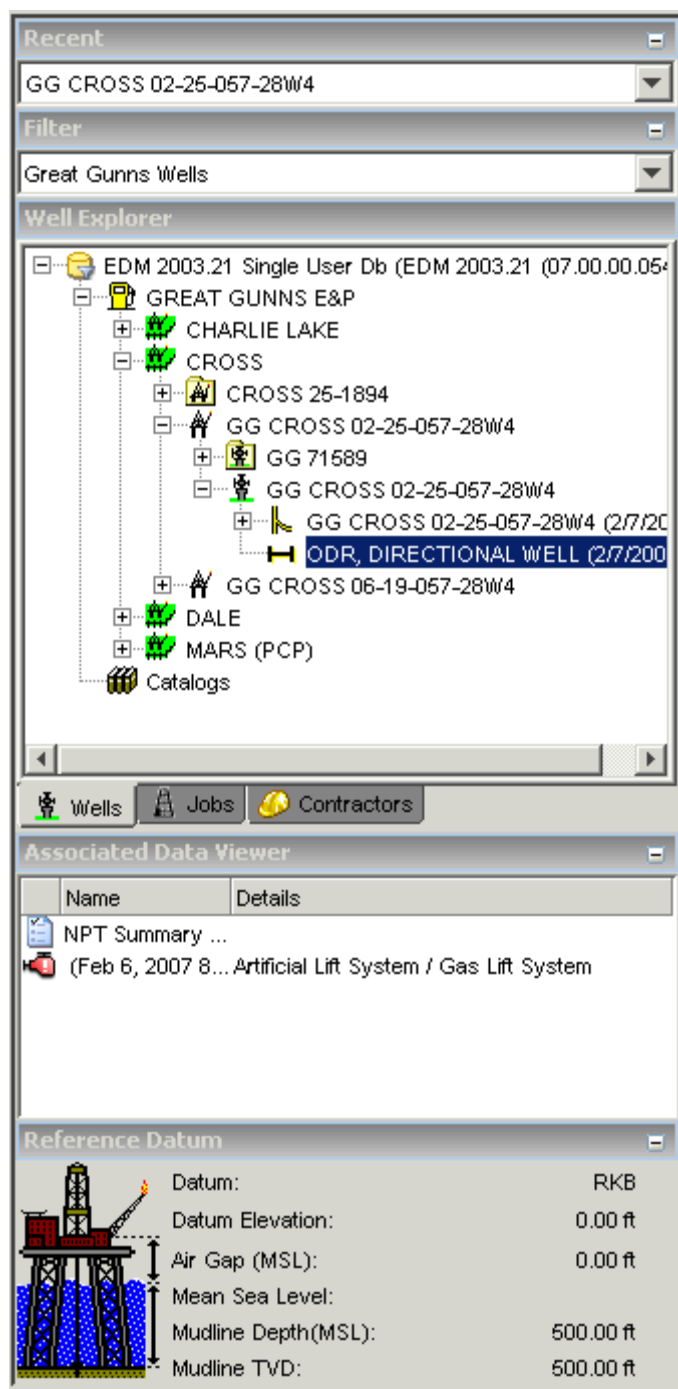
Double-click any level within the browser to open the next available item in the hierarchy. The selected item will be reflected in the Status window. Depending on which level is open in the browser also affects the available functionality in the menu and tool bars. Full functionality will only occur if the lowest level in the hierarchy (i.e., **Design** level) is open.

When a Design is open, the user can access planning functionality through the **Planning** menu, survey functionality through the **Survey** menu and anti-collision functionality through the **Anticollision** menu.

For detailed information on the COMPASS version of Well Explorer, see the COMPASS online help.

Working with the Well Explorer in OpenWells

Well Explorer in OpenWells is similar to Well Explorer in other applications in that you can use its Browser Window, located on the top right section of the window, to navigate the EDM database at several descending levels, including Companies, Projects, Sites, Wells, Wellbores, Completions, Events, Rigs, Rig Operations, Rig Equipment and Virtual Folders. By default, the OpenWells version of the Well Explorer looks like this:



The OpenWells Well Explorer can contain as many as five tabs: **Wells**, **Jobs**, **Contractors**, **C&R**, and **Waste Management**. Each tab displays a Well Explorer data tree. The active tab in the Well Explorer will always appear normal while the inactive tabs will appear darkened.

To display the data hierarchy for one of these tabs, select the tab. The availability of the tabs in the Well Explorer is dependant on the type of License your company has purchased and the active license currently in use.

Use the Left mouse button to expand or collapse branches of the data tree and to select nodes within the data tree.

The right mouse button has a context sensitive menu. Depending on the hierarchical level you have selected (Company, Project, Site, Well, etc.) the menu will populate with relevant options. Most of these options can be found in the Main menubar.

The Well Explorer allows for “drag and drop” functionality between hierarchical levels. For example, you can select a Project associated with one Company, and copy it to another Company. You can only copy the level, and not the “children” to that level. Therefore, if you copy a Project from one Company to another, you must then copy each associated Site, Well, Wellbore, etc. individually. These levels do not automatically get copied when you copy the Project.

To refresh the Well Explorer press the F5 key. This will also refresh the Preview and Reports Panes.

Two clicks (not a double click) on a node will allow the user to rename the node without having to open the nodes Properties page. To do this click the node once to selected it and then click on it again to enter edit mode. Enter the new name and press enter to view the change in the Well Explorer.



For detailed information on the OpenWells version of Well Explorer, see the OpenWells online help.


Concurrency and Multi-User Support

Release 5000.1 of EDM supports full concurrency for multiple applications using the same data set. The SAM (Simultaneous Activity Monitor) server moderates the activity. This messaging server notifies a user of all data items currently open by other applications and users sharing the same database.

SAM in the Application Status Bar



The SAM icon appears in the application Status Bar as follows:

| Message | Description |
|---|--|
|  | A green SAM icon in the status bar indicates that the Messenger Service is active. If a tooltip is available, the message "SAM-Connected" will be displayed. |
|  | A green SAM icon with a red X on it indicates that the Messenger Service is not currently active. If a tooltip is available, the message "SAM-Disconnected" will be displayed. |

| Message | Description |
|---|--|
|  | A red SAM icon in the status bar indicates the SAM service is enabled but has lost connectivity. Hover over the icon to display the tooltip "SAM - No longer responding" |
| No icon | When no icon appears in the application status bar, this indicates that the Simultaneous Activity Monitor has not been configured for the application. |

SAM in the Well Explorer

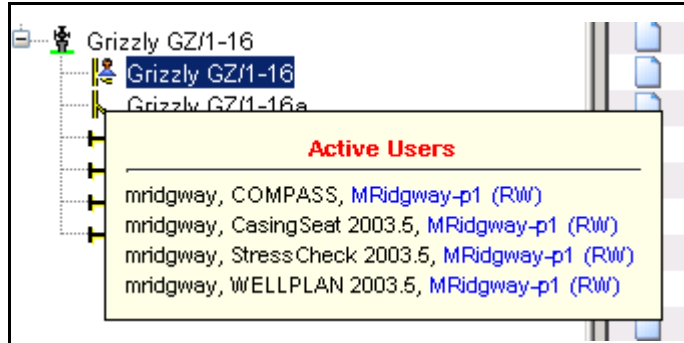
If a data item is open, one of the following icons will appear on the node icon.

| Icon | Description |
|--|--|
|  | A red SAM icon indicates that one or more users on other PCs have this item open, and the current user is restricted to read-only access. |
|  | A blue SAM icon indicates that one or more users on the current database have this item open, but the current user still has full read-write access. A user must be careful when making changes to the data, though this method enables data to automatically flow between applications. Intentional updates to other live applications should be anticipated before saving changes. |

The first user to open a data item becomes the data item's owner. They will 'own' the data until they have completed any changes, saved the data item, and closed it. When another user opens the data item through an EDM application, they can see that the data item is currently being accessed by the first user, the owner. This other user can access the data item but will be unable to save any changes until the owner has closed it. To view a list of users, applications, and machines that have the data item open, hover the mouse over the item; a data listing tooltip will appear.

In COMPASS, WELLPLAN, Well Cost, CasingSeat and StressCheck, SAM appears over any open Designs to signify that the Design is open by other users. As OpenWells does not display the Design level of the Well Explorer, SAM appears over the Wellbore, which contains the open Design. To determine which users have the data set open, hover the cursor over the SAM icon appearing in the Well Explorer; a list of

users and machine names accessing the Design is displayed along with the users' current permissions.



For each application instance that is accessing the data item, the tooltip displays the user name (Windows account), EDM application, machine name, and flags to indicate the type of access available to the current user.

RW - indicates that the current user has read-write access

RO - indicates that the current user has read-only access

When a node is created, deleted, or its properties have changed, the Well Explorer tree is automatically updated for all other users.

SAM support in OpenWells also includes open Data Entry Forms, Survey Headers, and Well Planning information shared with WELLPLAN. For more information, see the OpenWells on-line help.

Reload Notification

A reload notification dialog appears when the owner of the active data item saves changes to the database. SAM then notifies any other EDM applications of the changes. The change notification dialog is then offered to the user to reload or ignore the data owner's changes, or cancel the dialog box. The dialog that appears displays the user name for the owner and the application in which the changes were made. This

enables the user to identify the source of the change that has been posted.



Reload

The Reload option results in the owner's changes being uploaded into the current application.

Ignore

The Ignore option gives the user the ability to ignore the owner's changes and continue working with their current data item.

The user may choose to ignore the updates if they own the data item in another application.

In this instance they may choose to save later and overwrite changed data in the other application as a result.

The user with read-only access to the data item may choose to ignore the owner's changes in order to continue looking at the previous state of the data. They may also perform a "Save As" operation in order to save the current data before reloading the changes. WELLPLAN does not support Save As functionality for read-only access.

Use the **Do not ask the question again** checkbox to avoid receiving any other reload notifications. This checkbox option is not remembered between sessions. If the user restarts an application, they must activate the checkbox the first time it appears in order to stop the appearance of the reload notifications.

Cancel

The Cancel option gives the user the opportunity to cancel the dialog. If this option is selected the **Do not ask the question again** checkbox is ignored.

Complete details on SAM settings can be found in the EDM Administration Utility online help.

A good practice for any multi-user EDM environment is to frequently use the 'F5' refresh key to refresh the Well Explorer contents.

Security

The 5000.1 applications and EDM database require only one user name and password when logging on to the database.

You can set security for applications, User Groups, Tight Groups, and Users. Refer to the EDM Security Model topic in the EDM Administrative Utility online help for details.

Appendix A: Useful and Related Documents

Release Notes

Landmark's Release Notes are an integral part of each release. These documents outline important installation information such as hardware and operating system requirements, installation pre-requisites, product dependencies, and licensing. Release Notes also include a summary of enhancements and new functionality for the products. In addition to lists containing fixed and known problems, information on contacting Landmark Support is included.

Release 5000.1 contains separate installations for EDM and Drilling & Completions, each with its own Release Notes document. These documents are *EDM Release Notes* and *EDT 5000.1 Drilling Summary Level Release Notes*:

- *EDM Release Notes* (in the EDT_Documentation.ZIP provided with the Drilling software download)
- *Engineer's Desktop Drilling Summary Level Release Notes* (in the EDT_Documentation.ZIP provided with the Drilling software download)
- In addition, Release Notes are available for the following Drilling & Completions applications: OpenWells, PROFILE, Data Analyzer, Real-Time View, WELLPLAN, COMPASS, Well Cost, StressCheck, and CasingSeat. These documents can be found in the Window's Start menu once the Drilling & Completions installation has been completed (e.g., Start > Programs > Landmark Engineer's Desktop 5000.1 > Documentation > Release Notes)

Manuals

Landmark manuals are available with each release of the Engineer's Desktop. The main function of these manuals are to help clients deploy the Engineer's Desktop with ease, and to answer questions that may arise during its deployment. Manuals are available in .PDF format in the Landmark Software manager download EDT_Documentation.ZIP file, and are accessible through the Windows Start menu once the installations have been completed (in the EDT_5000.1\Documentation folder). This section describes each of the manuals available with Release 5000.1.

Planning the EDT Installation

The *Planning the EDT Installation* manual explains the different installation procedures for implementing the Engineer's Desktop 5000.1 based on client needs. This manual also details where to find information on upgrading previous versions of EDM, migrating data from pre-EDM applications, and using the applications.

A copy of Planning the EDT Installation is available in .PDF format (EDT_PlanningInstall.pdf).

EDM Installation Guide

The *EDM Installation Guide* contains information on and procedures for the installation of the Third-Party applications and the Engineer's Data Model (EDM) on a SQL Server (SQL Server 2005 Express) platform. This guide also offers a Troubleshooting section.

This document is available in .PDF format (EDM_Install.pdf).

EDT Drilling Installation Guide

The *EDT Drilling Installation Guide* contains information and procedures for installing the Engineer's Desktop Drilling & Completions applications. In addition, this guide includes a Getting Started chapter to familiarize client with the basics of the Drilling & Completions applications.

This document is available in .PDF format (EDT_Drilling_Install.pdf).

EDM Drilling Database Guide

The *EDM Drilling Database Guide* contains information on database creation on an Oracle or SQL Server 2005 or SQL Server 2005 Express environment, as well as information on how to upgrade previous versions of the EDM database to version 5000.1. This manual is meant for Drilling & Completions users of the EDM database only.

This document is available in .PDF format
(EDM_Drilling_Database.pdf).

EDM Drilling Data Migration Guide

The *EDM Drilling Data Migration Guide* explains the process of migrating pre-EDM versions of DIMS, COMPASS, and WELLPLAN data to the EDM platform. This manual takes the user through the process of preparing the data for migration, and the three steps involved in migrating the data. The migration of StressCheck and CasingSeat data is also briefly covered in this manual.

This document is available in .PDF format
(EDM_Drilling_DataMigration.pdf).

EDT on Citrix

The *EDT on Citrix* guide outlines procedures for installing the Engineer's Desktop in a Citrix environment.

This document is available in .PDF format (EDT_Citrix.pdf).

Online Help

How to use Online Help

The Engineer's Desktop uses two types of online help for each application. Most online help formats are shipped using Microsoft HTML Help. Online help can be accessed from the applications menu bar or by using the F1 key to access context-sensitive help.

Using Microsoft HTML Help

Microsoft HTML Help is an online Help system that is based on the HTML (Hypertext Markup Language) format. HTML Help is comprised of a single .CHM file. This file launches the tri-pane HTML Help Viewer. The three panes are as follows:

- The toolbar pane is used to navigate back and forward through topics, print topics, and Show/Hide the HTML topics.
- The navigational pane is used to navigate a Table of Contents (Contents tab), a list of key words (Index tab), and online glossary items (Glossary tab).
- The topics pane is used to display the various topics in HTML format.

Using WebHelp

WebHelp is also an online Help system that is based on the HTML (Hypertext Markup Language) format. WebHelp also contains a similar tri-pane layout to HTML Help, but it is an uncompiled help system. This uncompiled Help system supports a variety of browsers and platforms. WebHelp features include: a table of contents, an index, a glossary, and full-text search. WebHelp is compatible with most browsers.

Online Help Viewing Problems Due To Microsoft Security Updates

Some Microsoft security updates cause problems for the following online Help files:

- WebHelp, which is comprised of uncompiled HTML files (Windows XP SP 2, and Windows Vista)
- HTMLHelp (.chm) files accessed from a server machine (all platforms).

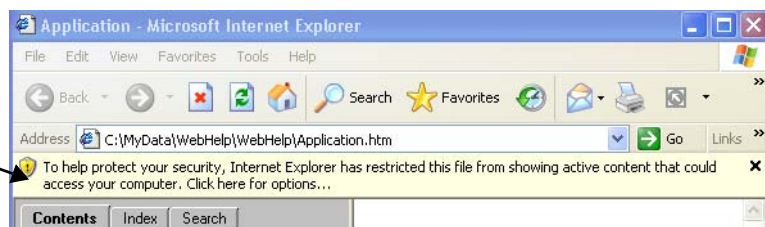
These issues are discussed in detail below.

Windows XP SP2 and Windows Vista Default Security Settings Block Some Online Help (WebHelp)

Windows XP SP2 and Windows Vista include improvements to Internet Explorer security that are intended to help most users by stopping local web pages that contain “active content” from accessing your computer maliciously. “Active content” includes Java Script, Java applets and ActiveX controls. Even very innocuous Java Script such as that found in online help is deemed by Microsoft to be active content, and will trigger this security setting. OpenWells and EDM Administration Utility use WebHelp files of this type.

When you try to open the help file in either of these two applications, Internet Explorer displays a light-yellow information bar, warning you that it is blocking active content. (Note that this behavior only occurs in Internet Explorer, *not* in other browsers, such as NetScape or Mozilla). The following graphic illustrates the behavior.

Internet Explorer pops up this information bar and blocks the content.



Temporary Solution

If you want to view the help file, click the bar and select **Allow Blocked Content** from the drop-down menu. A warning dialog will appear, which you must acknowledge by clicking **Yes**. Now you will be able to view the help page. This will occur each time you access the help.

Permanent Solution

You may choose to permanently allow Internet Explorer to view Active Content on local files. This will prevent the warning from appearing again. The permanent solution is to turn off the security check for active content in the Internet Explorer.

To turn off the active content security check in the Internet Explorer for the local machine:

1. From the Tools menu in Internet Explorer, select Internet Options.
2. Navigate to the Advanced tab in the Internet Options dialog and then scroll down to the Security section.
3. Enable the checkbox labeled “Allow active content to run in files on My Computer”.

Please note that this may allow malicious active content in files on your local computer to cause problems, so you should only do this if you feel confident in your computer's security measures.

Cannot Open Help Files Located On A Server After You Install Security Update 896358 Or Security Update 840315

For Windows XP and Windows 2003 Server, installing recent Microsoft security updates (896354 and 840315) mean that .chm files (HTMLHelp) may not display correctly under some circumstances. The problems do not occur if the help files are on a local drive (rather than a mapped drive).

After installing these Microsoft security updates on a server machine—where .chms (HTML Help files) are stored for viewing and downloading—if you open a .chm file sitting on that server, you will receive an “Action Cancelled” error on the .Help file's viewer frame. The TOC and Index display normally. No matter which topic you try to view using the TOC or Index, an “Unable to open this web page” message appears in the .Help file's viewer frame. This problem does not occur if the help files are on a local drive (rather than a server or mapped drive).

The reason for this is that the Microsoft security updates disable all Internet Security zones except the Local Machine zone.

If the help files reside on a server or mapped drive, you can apply the fixes suggested in one or more of the following Microsoft knowledgebase articles in order to access the help:

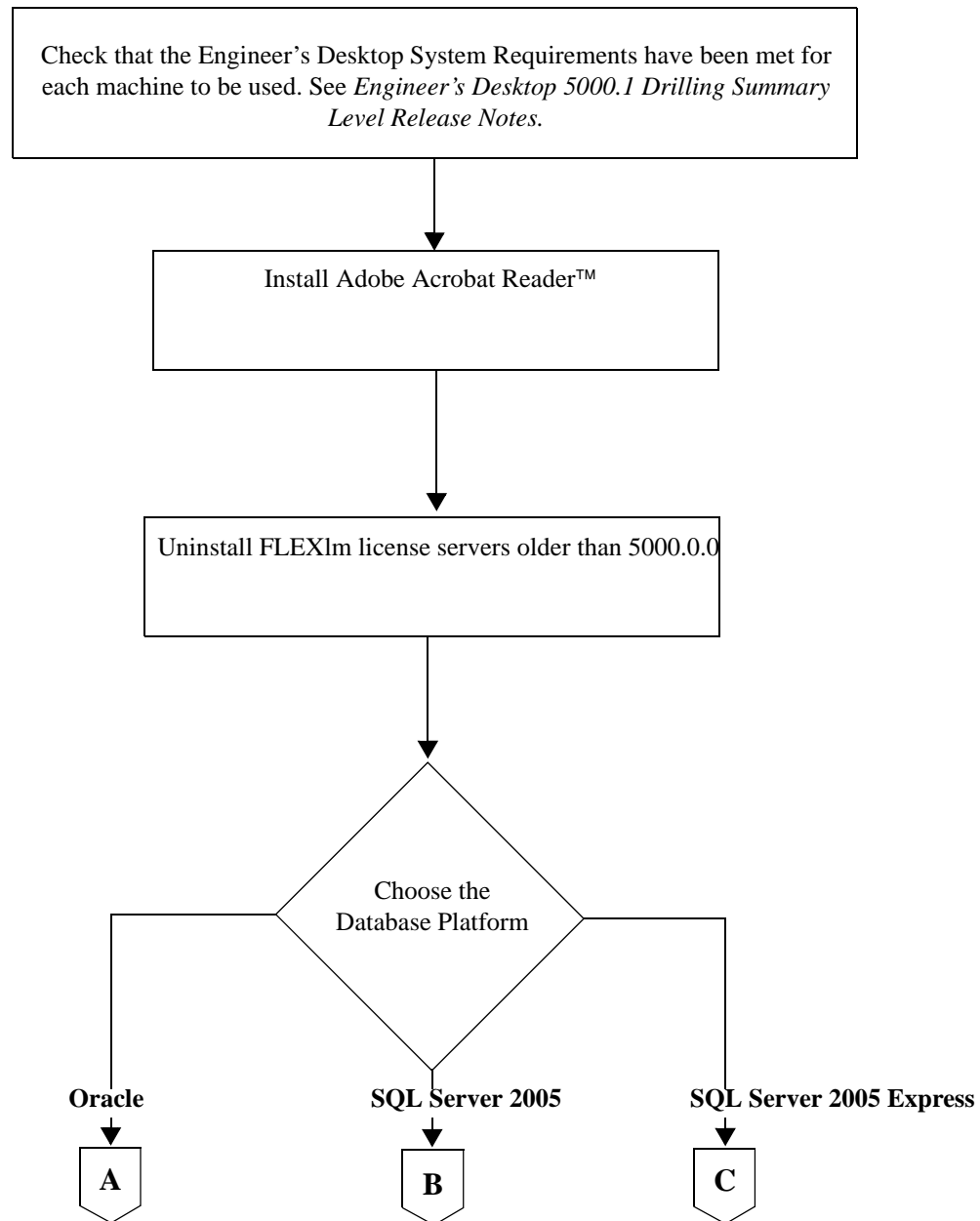
- KB902225 if the help file does not open at all (<http://support.microsoft.com/kb/902225>)
- KB896054 if the help file opens, and displays the index but no contents (<http://support.microsoft.com/kb/896054>)

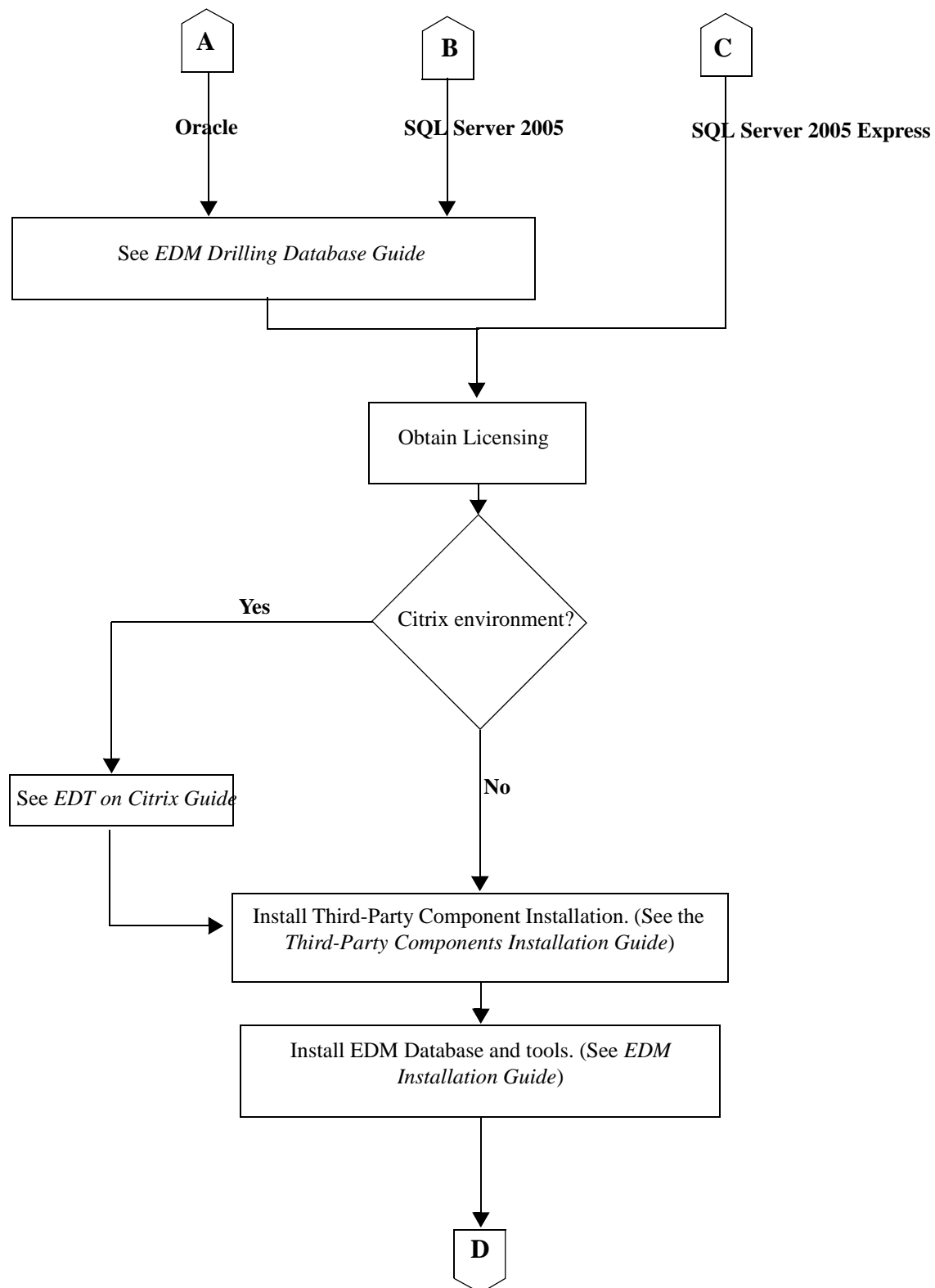
IMPORTANT! The Microsoft Knowledge Base fixes (KB896054 and KB902225) require adjusting the registry on the server machine.

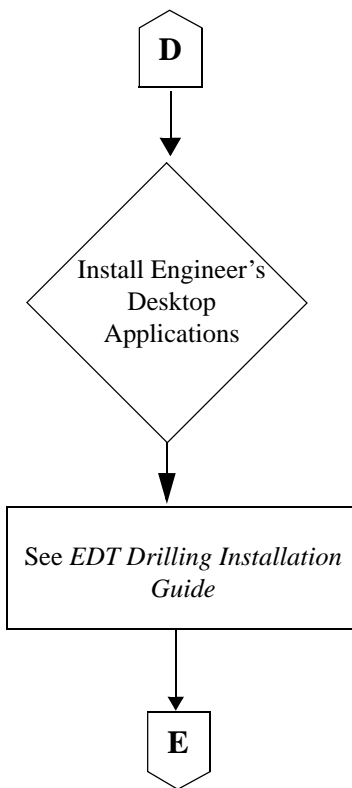
Be aware that you cannot solve this problem by adjusting the Security Zones feature in Internet Options in Internet Explorer. It MUST be done via the server's registry. There is no other workaround other than moving the Help files to the local machine.

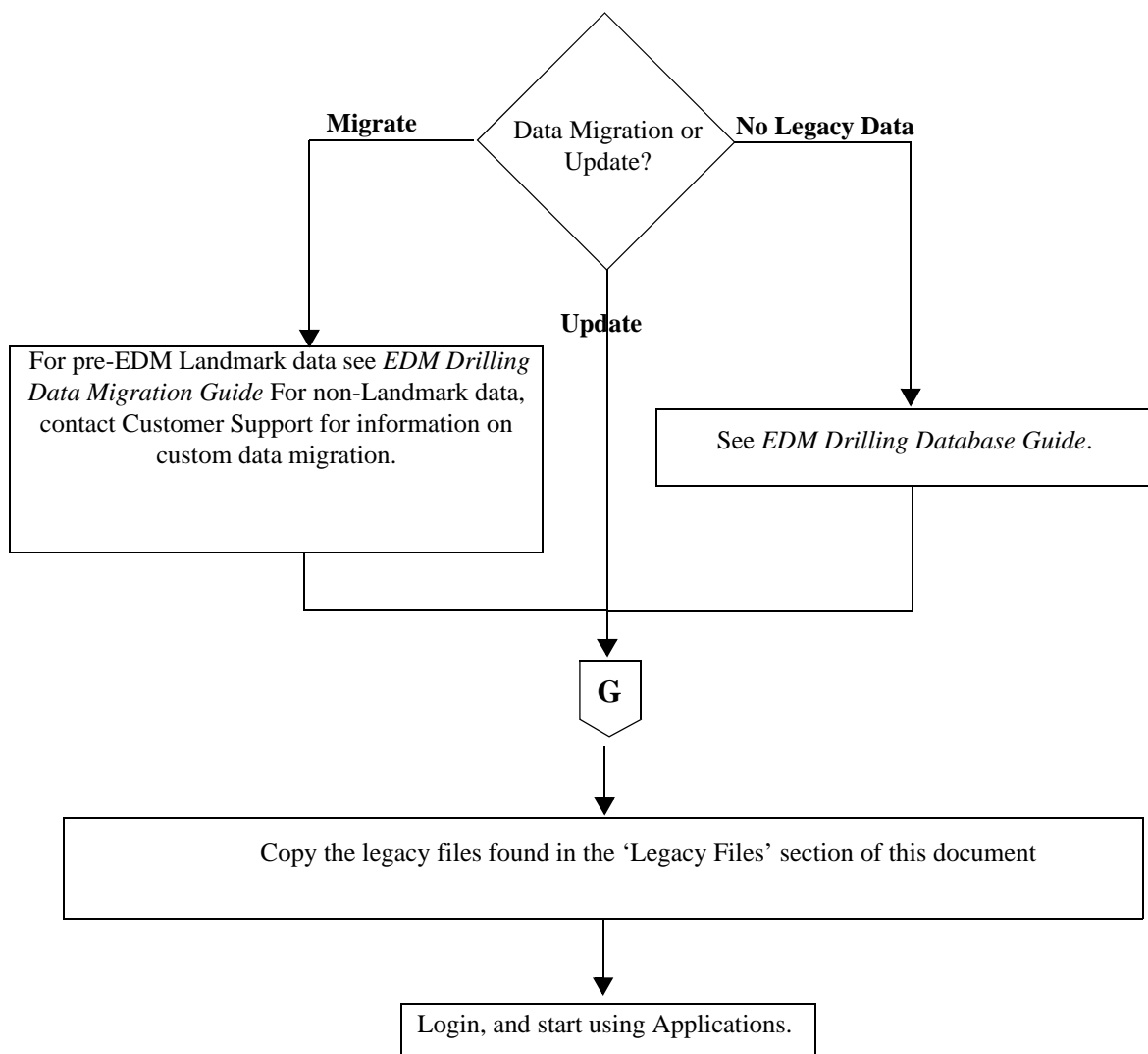
Appendix B: Installation FlowChart

This section describe the implementation process for installing the Engineer's Desktop database and suite of applications. Where applicable related documents are referenced. The location of each related document can be found in "Appendix A: Useful and Related Documents" on page 59.









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