
Well Cost 2003.16.1.0

Installation Guide

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Landmark

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Introduction

Welcome to Well Cost

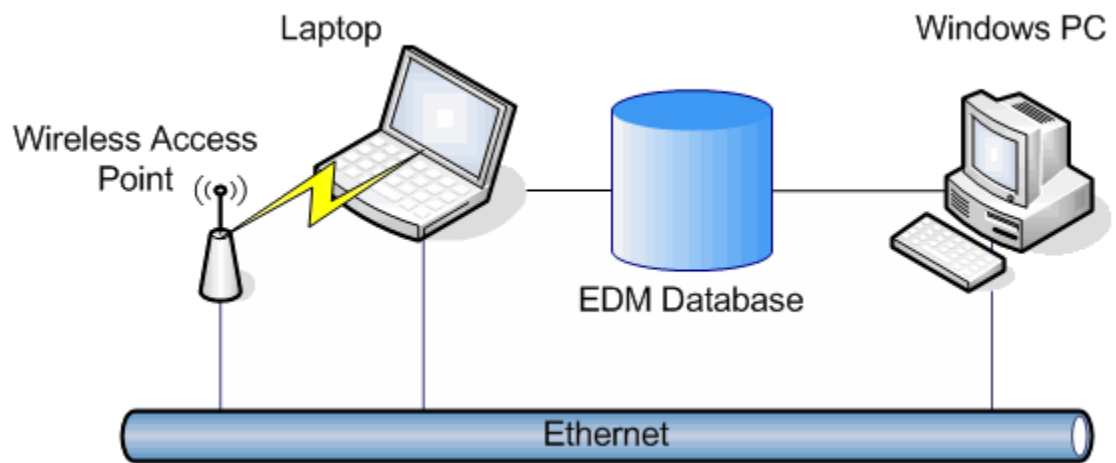
This chapter introduces you to the System Requirements and Architecture for Well Cost and its associated third-party products.

Well Cost and the associated third-party products are installed either locally or on a server. The following items will be discussed in this section.

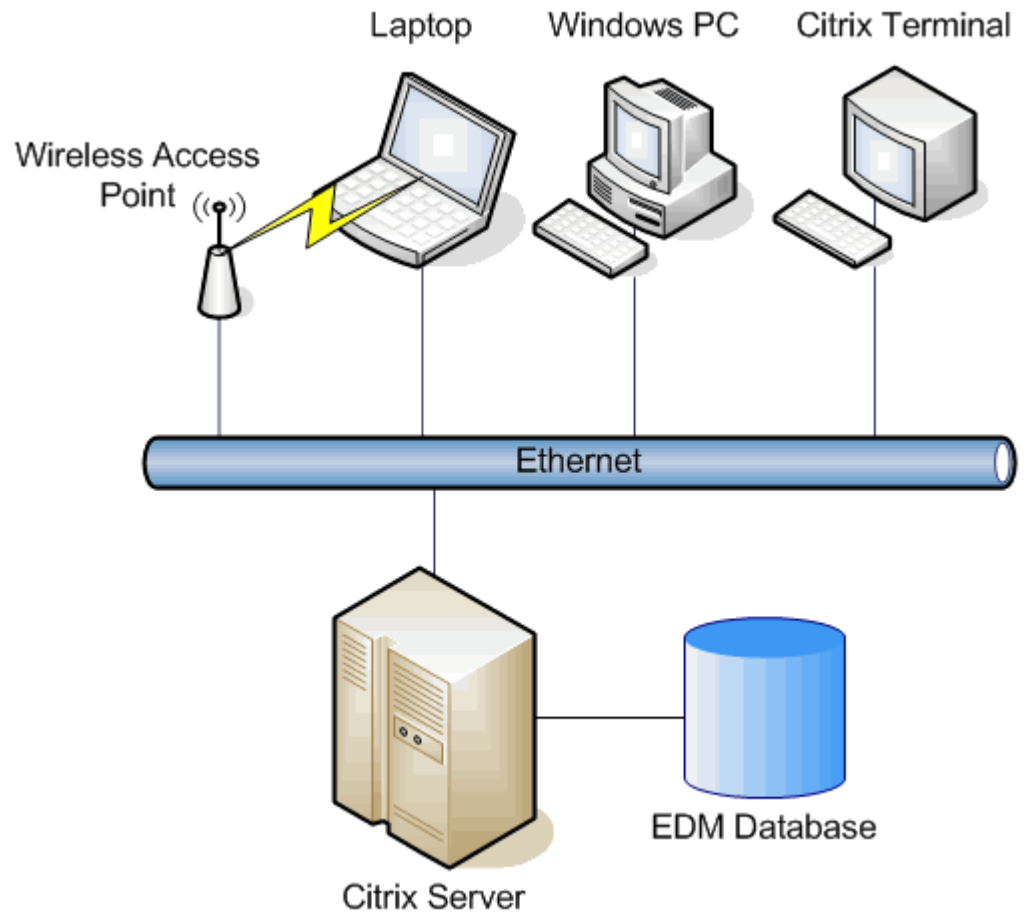
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Overview of System Architecture

Below is an overview of the system architecture.



Standalone Installation



Thin-Client Installation

System Requirements

Well Cost can be installed on a server where it can be accessed by multiple users, or on a standalone computer. In this documentation the computer where Well Cost and its associated third-party products are being installed will be referred to as the Well Cost server.

The operating systems that are supported are:

- Windows[®] XP, Service Pack 2
- Windows[®] 2003 Server

Standalone Platform Requirements

Standalone Platform requirements for Well Cost are:

| Recommended for Windows XP Platform | Minimum for Windows XP Platform |
|--|---|
| <ul style="list-style-type: none">• Windows[®] XP Professional, SP 2• 2 GHz processor• 1 GB RAM or greater• SVGA Color Monitor• 106-key Windows-ready integrated keyboard• MS-compatible mouse or pointing device• TCP/IP based network connection 100 Mbps, • or• FLEXid dongle (bitlock), FLEXIm version 7.2i (for licensing)• 3 GB or better disk space• CD-ROM drive (not required if installing from a network location)• For Standalone systems, should have parallel port or USB port if dongle/bitlock license used | <ul style="list-style-type: none">• Windows[®] XP Professional, SP 2• 1 GHz processor• 512 MB RAM or greater (will work with 256 MB RAM, but 512 is preferred)• SVGA Color Monitor• 106-key Windows-ready integrated keyboard• MS-compatible mouse or pointing device• TCP/IP based network connection 100 Mbps, • or• FLEXid dongle (bitlock), FLEXIm version 7.2i (for licensing)• 2.1GB disk space (with everything installed)• CD-ROM drive (not required if installing from a network location)• For Standalone systems, should have parallel port or USB port if dongle/bitlock license used |

Server Platform Requirements

| Recommended for Windows 2003 Server Platform | Minimum for Windows 2003 Server Platform |
|--|---|
| <ul style="list-style-type: none"> Windows® 2003 Server, SP 1 2 GHz or higher 2 GB RAM or greater VGA Color Monitor 106-key Windows-ready integrated keyboard MS-compatible mouse or pointing device TCP/IP based network connection 100 Mbps 2-4 GB or better disk space CD-ROM drive (not required if installing from a network location) | <ul style="list-style-type: none"> Windows® 2003 Server, SP 1 1.5 GHz processor 1 GB RAM or greater VGA Color Monitor 106-key Windows-ready integrated keyboard MS-compatible mouse or pointing device TCP/IP based network connection 10 Mbps 2 GB disk space CD-ROM drive (not required if installing from a network location) |

Citrix

Well Cost 2003.16.1.0 has been tested in a Citrix thin-client environment. The test environment consisted of three server-class PCs:

Server 1 (Database server, SAM server)

- | | |
|-------------------|--|
| Operating System: | <ul style="list-style-type: none"> Windows 2003 Server Enterprise Edition, SP 1 |
| Services: | <ul style="list-style-type: none"> Oracle 9i (9.2) EDM database (SAM) Simultaneous Access Monitor (Note that the SAM server <i>should not</i> be on the same server with Citrix and the published applications) |

Server 2 (Citrix and Applications)

- | | |
|-------------------|--|
| Operating System: | <ul style="list-style-type: none"> Windows 2003 Server Enterprise Edition, SP 1 |
| Services: | <ul style="list-style-type: none"> Citrix Presentation Server 4.0.1, with Citrix Hotfix PSE400WK3R01 (refer to the Citrix support page for details on this hotfix: http://support.citrix.com/kb/entry.jspa?externalID=CTX107504) Citrix Resource Manager Citrix License Server components NFuse Elite (Windows Web Client), version 9.150 |

Server 3 (Citrix and Applications)

- | | |
|-------------------|---|
| Operating System: | <ul style="list-style-type: none"> Windows 2003 Server Enterprise Edition, SP 1 |
| Services: | <ul style="list-style-type: none"> Citrix Presentation Server 4.0.1, with Citrix Hotfix PSE400WK3R01 (refer to the Citrix support page for details on this hotfix: http://support.citrix.com/kb/entry.jspa?externalID=CTX107504) Citrix Resource Manager |

Citrix Servers (Tested Configuration)

- Windows® 2003 Server Enterprise Edition, SP 1
- 2 x 933 MHz Intel Pentium III processors
- 2 GB RAM
- TCP/IP-based network connection 100 Mbps (both NICs)
- 18 GB disk space

Note:

Citrix can be configured in a number of different ways. Landmark has only certified the configuration outlined above.

For more details, refer to the *EDT Citrix Guide* (EDT_Citrix.pdf), located on the Well Cost installation CD.

Software Requirements

The Well Cost Installation CD includes Well Cost and Microsoft® MSDE 2003. All products required by Well Cost are listed below along with a location where they can be obtained.

Software Requirements for Well Cost

| Resource | Availability | Comment |
|--|--|---|
| Well Cost 2003.16.1.0 | Included on the Well Cost Installation CD. | |
| Microsoft® SQL Server Desktop Engine (MSDE) 2003 | Included on the Well Cost Installation CD. | |
| Oracle® 8.1.7 or 9i database | Obtain from Oracle | Only needed if the Well Cost database is an Oracle instance. |
| EDM version 2003.16.1.0 | Included on the Well Cost Installation CD. | If you are running Well Cost on an existing EDM 2003.16.1.0 database, the tables will need to be updated. Well Cost ships with scripts that add the table entries to the EDM database. |
| Landmark LAM | Included on the Well Cost Installation CD as part of the 3rd Party components | Well Cost requires a Landmark LAM installation and license file. See “Licensing” on page 16 for details. |
| Microsoft® Internet Explorer 5.0 or above | Obtain from Microsoft | Well Cost was tested using Internet Explorer version 6.x. The Internal and Landmark Support pages should be accessible through any web browser; however, there may be some aberrant behavior. |
| Adobe® Systems Inc., Adobe® Reader® | Free download from http://www.adobe.com/products/acrobat/readstep2.html | Required for viewing the Well Cost Release Notes and Installation Guide. |

ODBC Drivers

The following table lists ODBC Drivers and their corresponding version numbers used by Landmark during testing of the Well Cost 2003.16.1.0 Release. This table describes which ODBC drivers our test

labs have certified and which drivers Landmark supports for use with EDM applications.

| ODBC Driver Name | Version | Supported |
|--------------------------|------------|---|
| jTDS | 1.0 | Supported |
| Oracle 8.1.7 ODBC Driver | 8.01.07.00 | No longer supported |
| Oracle 9i ODBC Driver | 9.02.00.65 | Supported. Other available drivers are NOT supported. For example, the following are NOT supported: <ul style="list-style-type: none"> 9.02.00.50 9.02.00.58 9.02.00.62 |

Third-Party Applications and Why They Are Needed

A number of third-party applications must be installed prior to installing Well Cost. If Third-Party Components have not been installed, Well Cost will display errors and will not run properly. Failure to install these applications prior to running Well Cost will cause problems when using the EDM database, applications, and tools.

The Third-Party installation is available on the Well Cost Installation CD. This install can be run from the Landmark splash screen, which appears when the CD is inserted. To run the installation, select **Engineer's Desktop - 3rd Party** (located on the left side of the Landmark splash screen), then click **Install** (on the right side of the screen) and follow the prompts.

Once the Third-Party install has completed, a reboot *is necessary* to launch the installation of Microsoft Visual J# .NET Redistribution Package 1.1. This tool *is necessary* to run EDM Publishing Service and Report Manager. Click **Yes** to install Microsoft Visual J# .NET Redistribution Package 1.1 and follows the prompts.

The major third-party applications are discussed below.

Microsoft Data Access Components 2.8 (MDAC)

MDAC supplies the database drivers that are certified for use with the Engineer's Desktop. Landmark does not support the use of any other driver versions.

Crystal Reports 11.5

Crystal Reports 11.5 is the runtime component that is used by the Engineer's Desktop Output Reporting engine. This component is required by Well Cost.

Microsoft .NET Framework 1.1

The .NET Framework provides an execution environment for various Engineer's Desktop applications and services (e.g., EDM Services Controller, EDM Publishing Service, and each of the EDM Services).

Landmark LAM 2003

Landmark's License Application Manager (LAM) is based on Globetrotter Software's FLEXlm licensing server package. LAM installation files are included in the Third-Party installation. Information on installing LAM is located in the *LAM 2003 Guide—UNIX and Windows* manual. This manual is included with the Release 2003 box of materials. An Adobe .PDF version of this document is included on the OpenBooks CD.

Release 2003.0 requires FLEXlm 7.2e. FLEXlm 7.2e server and license files incorporate new security enhancements used by Release 2003.0. As a result, Release 2003.0 applications will not work on earlier versions of FLEXlm.

If you are using a FLEXlm dongle (bitlock), you must install FLEXlm 7.2i on the standalone or client machine.

Bitlocks and OpenWorks

Bitlocks are not supported by OpenWorks. Clients who want to connect to OpenWorks must use regular network licenses, and not USB bitlocks.

Therefore, clients using OpenWire, Engineer's Link, EDM to OpenWorks, and COMPASS Live Link must use Network licences.

Microsoft Visual J# .NET Redistribution Package 1.1

The Visual J# .NET Redistribution Package is used to run Visual J# .NET applications. Without this package, EDM Publishing Service will fail to run properly.

Complete List of Third-Party Software For Release 2003.16.1.0

The following table describes the operating systems (OS) and third party software upgrades supported for Well Cost 2003.16.1.0.

| Product/Package | Windows® XP Professional and Microsoft ® Windows Server 2003 |
|---|---|
| Certified OS | Windows® XP Professional, SP 2; Windows® 2003 Server, SP 1 |
| Adobe® Systems Inc., Adobe® Reader® | 6.0 |
| Crystal Reports™ (note that one Crystal Reports™ Developer license per site is required if you want to customize reports) | 11.5 |
| DEX | 2003.14.3.70 |
| Microsoft® Internet Explorer | 6.0 |
| Microsoft® Data Access Components (MDAC) | 2.8 SP1 |
| Microsoft® SQL Server | 2000 SP3 |
| Microsoft® .NET Framework 1.1 | 1.1 |
| OPC Foundation SDK | 2.00 |
| Oracle Corporation, ORACLE® Client | 9i/10g (10g not supported for Drilling on 2003.16.1.0, but supported for future releases) |
| Oracle Corporation, ORACLE® Server | 9i/10g (10g not supported for Drilling on 2003.16.1.0, but supported for future releases) |
| Rogue Wave™ Software, Inc., Stingray Studio – Objective Grid Standard | 8.03 |
| Sun Microsystems™ Inc., Java™ 2 Runtime Environment, Standard Edition | 1.4.2_06 |

Space Requirements for Individual Applications and Tools

The table below shows the minimum disk space requirements for various combinations of EDT installations. Any application listed that

is not required is optional. Well Cost installs as a standalone product, but is fully integrated with all EDT applications.

| Applications | Approximate Disk Space Needed to Install |
|---|--|
| Engineer's Data Model (EDM) <ul style="list-style-type: none"> • Administration Utility (required) • MSDE Administration (required) • Unit Converter (required) • Catalog Editor (required) • Report Manager (required) • Database Upgrade Utilities | 780 MB (Required support files will be copied into the Windows installation directory; the installation of EDM and MSDE support and temporary installation files requires 400 MB of disk space) |
| Drilling & Completions: Engineering <ul style="list-style-type: none"> • COMPASS • CasingSeat • StressCheck • WELLPLAN | 280 MB |
| Drilling & Completions: Well Data Management <ul style="list-style-type: none"> • Well Cost (required) • OpenWells • PROFILE • Data Analyzer • Real-Time View | 275 MB |
| TOTAL: Everything | ~2.0 GB |

Screen Resolutions/Video

| Recommended | Minimum |
|--|--|
| <ul style="list-style-type: none"> • 1024 x 768 or higher | <ul style="list-style-type: none"> • 1024 x 768 |

If you experience display problems when running Well Cost, upgrade your video driver to the latest version.

When using Well Cost, the following are required:

- For the 1D and 2D schematics, any NVIDIA or ATI card from the past two years is recommended (e.g., NVIDIA GeForce 3, NVIDIA Quadro FX Go700, or ATI Radeon 7500 onwards).
- For full 3D visualization, the latest graphic card from NVIDIA or ATI would be recommended along with 1.5Ghz+ processor with the above specification for the 1D or 2D as the minimum.

Other Requirements

- Applications require you to install a Landmark LAM or a FLEXlm dongle (bitlock) for licensing purposes. Landmark does not distribute FLEX dongle bitlocks for use on application servers.
- Applications require Microsoft Data Access Components (MDAC) version 2.8 or higher. The Setup Program automatically installs MDAC 2.8 if necessary.
- Windows XP Professional users must install all Critical and Recommended Windows Updates.
- Drilling and Completions Oracle users must use the Oracle 9i client SP2 (Oracle 10g is not supported for Drilling on 2003.16.1.0, but supported for future releases).
- You need Internet Explorer 6.0 for a successful installation.

Miscellaneous Information

EDM Installshield and MSDE Install Requirements

The Well Cost installation always copies required support files into the Windows installation directory. This is in addition to disk space required for the EDM program files, which go into a separate directory. The installation of EDM and MSDE support files requires approximately 30 MB of disk space for files, as well as an additional 50 MB for temporary files created by the installation.

MSDE Install Behavior with SQL Server Client/SQL Server

Microsoft SQL Server Desktop Engine or MSDE is the standalone database provided with the Well Cost 2003.16.1.0 release. MSDE is a technology that provides local data storage that is compatible with Microsoft SQL Server 7.0 and above. It is designed and optimized for use on smaller computer systems, including a single-user computer or small workgroup server.

MSDE installation issues impacting PCs with SQL Server installed are listed in “MSDE Installation Issues” in the EDM Installation Guide included in the root directory of the Well Cost installation CD, or in the **\Well Cost\Documentation** installation directory.

Microsoft Security Warnings When Installing

A security warning may appear when trying to install software, due to security restrictions imposed by recent Microsoft security updates:

“Security Warning: Do you want to run this software?”

Simply click **Run** to proceed with the EDM installation.

Online Help Viewing Problems Due To Microsoft Security Updates

Some Microsoft security updates cause problems for online Help files. For example, HTMLHelp (.chm) files accessed from a server machine (all platforms) will not run. The solution to this problem is discussed in detail below.

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

For Windows 2000/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 Knowledge Base 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 work around other than moving the Help files to the local machine.

Well Cost Documentation

Documentation for Well Cost consists of:

- Online Help - Delivered as HTML Help and accessible from the application or via **Start > Programs > Landmark Well Cost 2003.16.1 > Documentation > Help**.
- Installation Guide - The Installation Guide is located in the root directory of the installation CD. It is installed on your computer in the installation directory **\Well Cost\Documentation** folder. Adobe® Acrobat Reader is required to read the Installation Guide pdf file.
- Release Notes - Release Notes are located on the root directory of the CD and are available through the Well Cost Help menu. The PDF file is installed in the installation directory **\Well Cost\Documentation** folder. Adobe® Acrobat Reader is required to read the Installation Guide pdf file.

Licensing

Well Cost 2003.16.1.0 supports the use of FLEXlm[®] licensing, which is the only licensing mechanism supported by Landmark.

Refer to the *LAM 2003.0—Windows Release Notes* (LAMReleaseNotes.pdf) for details.

IMPORTANT! If you have a version of LAM server older than 7.2e (Release 2003.0 and later), you must uninstall it before installing the LAM 2003 server.

Failure to uninstall all previous versions of LAM Server before installing LAM Server 2003 will result in a duplicate FLEXlm service that replicates itself until it crashes Windows.

The procedures for uninstalling LAM server are detailed in the section “LAM Server Uninstall” in the *LAM 2003.0—Windows Release Notes* (LAMReleaseNotes.pdf). Products that were licensed under the older server will still work with the new LAM server.

Note that if you use USB bitlock security, you will have to upgrade your client license to FLEXlm 7.2i; server license can remain at version 7.2e.

The licensing scheme for Well Cost 2003.16.1.0 allows you to purchase either the:

- Well Cost Advanced Package, or
- Well Cost Deterministic Package

The Well Cost Deterministic Package allows users to perform Deterministic Time analysis of Wellbores. The Advanced Package is a full-feature license that includes both the Deterministic and Probabilistic Time analysis features.

Before You Install

Before installing Well Cost 2003.16.1.0, review these release notes *entirely*.

ATTENTION:

The Well Cost 2003.16.1.0 release installation consists of two separate installs, which should be run in this order:

- Third-party components
- Well Cost

Run the Third-party Components install first if EDT 2003.16.1.0 is not installed. When the Third-party installation is complete, run the Well Cost installation.

For an outline of various installation scenarios, see *Planning the EDT Installation* (EDT_PlanningInstall.pdf), which can be found in the \Products\Docs folder on the installation CD. For complete installation details, see the following online guides, which can be found in the same folder:

EDM Installation Guide (EDM_Install.pdf), and *EDM Drilling Database Guide* (EDM_Drilling_Database.pdf).

To get going quickly, refer to “Quick Start—The Installation Process in a Nutshell” in the *Planning the EDT Installation* guide.

Installation Instructions

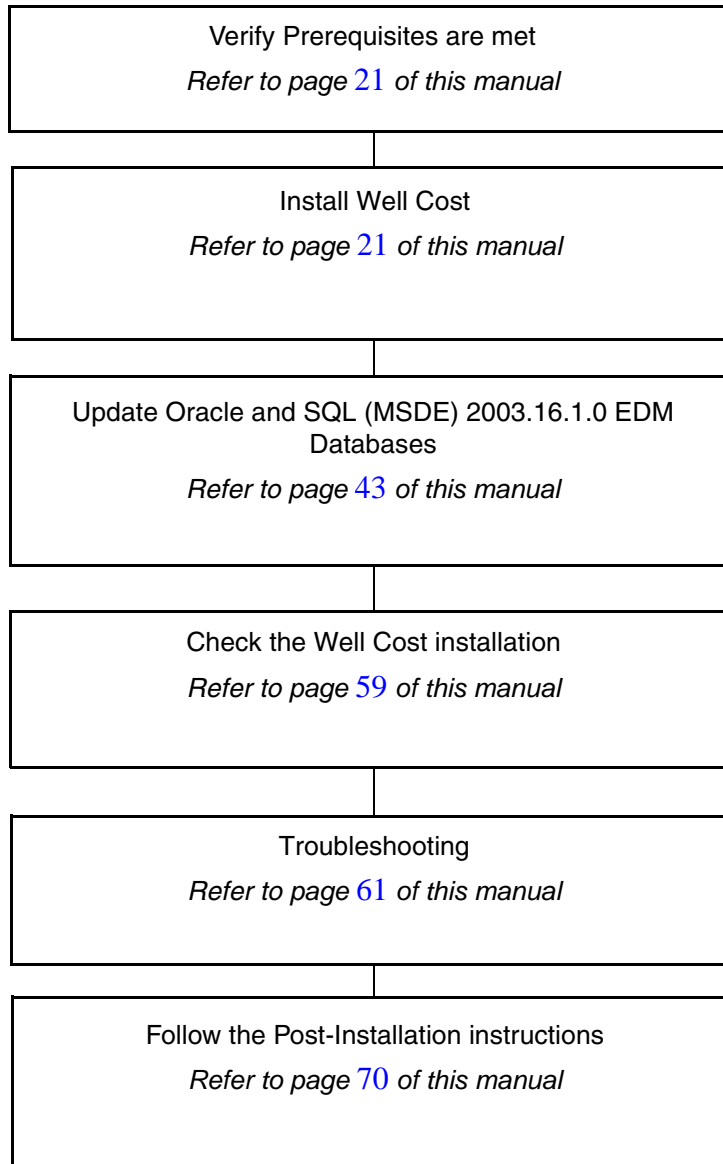
Installation Overview

This chapter will walk you through the installation of Well Cost and its related third-party products. The installation will be followed by post-installation instructions. The main sections of this chapter are:

- Major Installation Steps (page [20](#))
- Prerequisites (page [21](#))
- Installing Well Cost 2003.16.1.0 and Related Programs (page [21](#))
- Checking the Installation (page [59](#))
- Troubleshooting (page [61](#))
- Post-Installation Instructions (page [70](#))

Major Installation Steps

The major steps for the Well Cost installation are shown below along with a documentation reference for each step.



Installing Well Cost

This section contains the instructions for installing the applications included on the Well Cost CD.

Prerequisites

The following programs must be installed on the Well Cost installation machine prior to installing Well Cost:

- EDT third-party applications
- LAM 2003.0 - We suggest that you load LAM and the Well Cost license prior to installing Well Cost. This allows Well Cost to automatically start services for you. See the Landmark LAM documentation for more information.

Installing Well Cost 2003.16.1.0 and Related Programs

This section describes the Well Cost installation process. The installation will load the following programs:

- Well Cost 2003.16.1.0
- Third-party components (e.g. Microsoft Data Engine 2003 (MSDE), Microsoft Visual J# .NET Redistribution Package 1.1, etc.) For a full list of all Third-party applications, see “Software Requirements” on page [7](#)
- Catalog Editor
- EDM Administration Utility
- Unit Converter

Installing Third-party Components

The installation instructions for Microsoft Windows 2003 Server and Microsoft Windows XP are the same.

Windows Automatic Updates

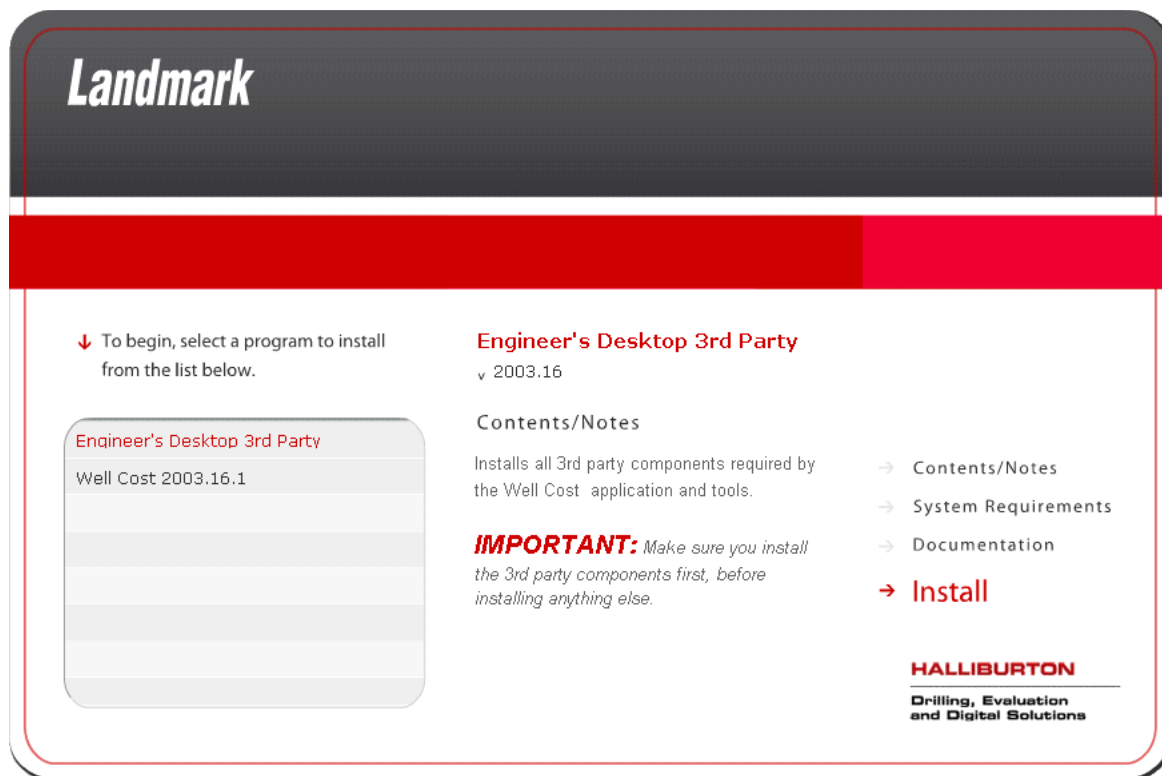
Landmark recommends disabling the Windows Automatic Updates feature if it is enabled prior to installing Well Cost. This reduces the possibility of receiving an error during the installation. After installation, Automatic Updates can be turned back on if needed. See Microsoft Help for details on how to disable and enable Windows Automatic Updates.

1. To start the third-party components installation, insert the CD in the CDROM drive. The installation program will automatically start. If the installation program does not automatically start, double-click on the **Launch.exe** file located in the root directory of the CD to start the installation.
2. Review the **System Requirements** and **Documentation** then select **3rd Party** and click on **Install**.

Note:

If the installation process is interrupted, such as is the case when a user selects **Cancel** during the installation process, the **Install** link on the CD browser will appear disabled. To enable the **Install** link, press the **Shift** key. Alternatively, press the **Esc** key to shutdown the CD browser. If the CD browser is shutdown, you will need to run the **Launch.exe** file from the CD root directory to start up the CD browser.

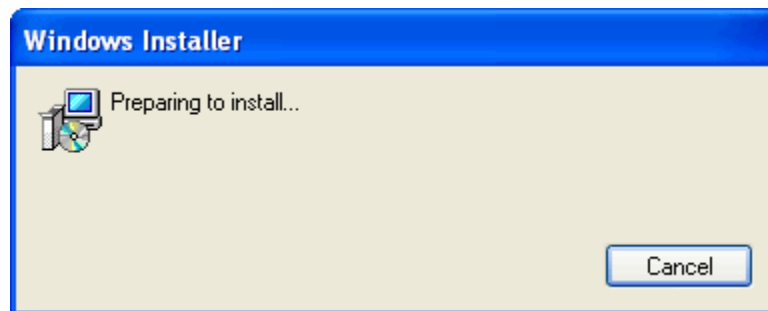
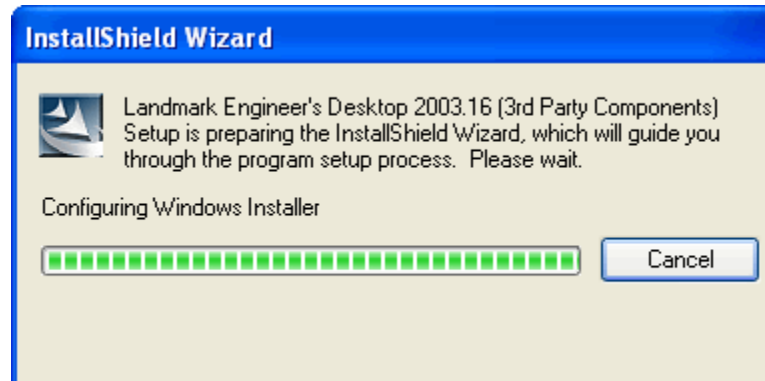
The Installation Wizard displays.



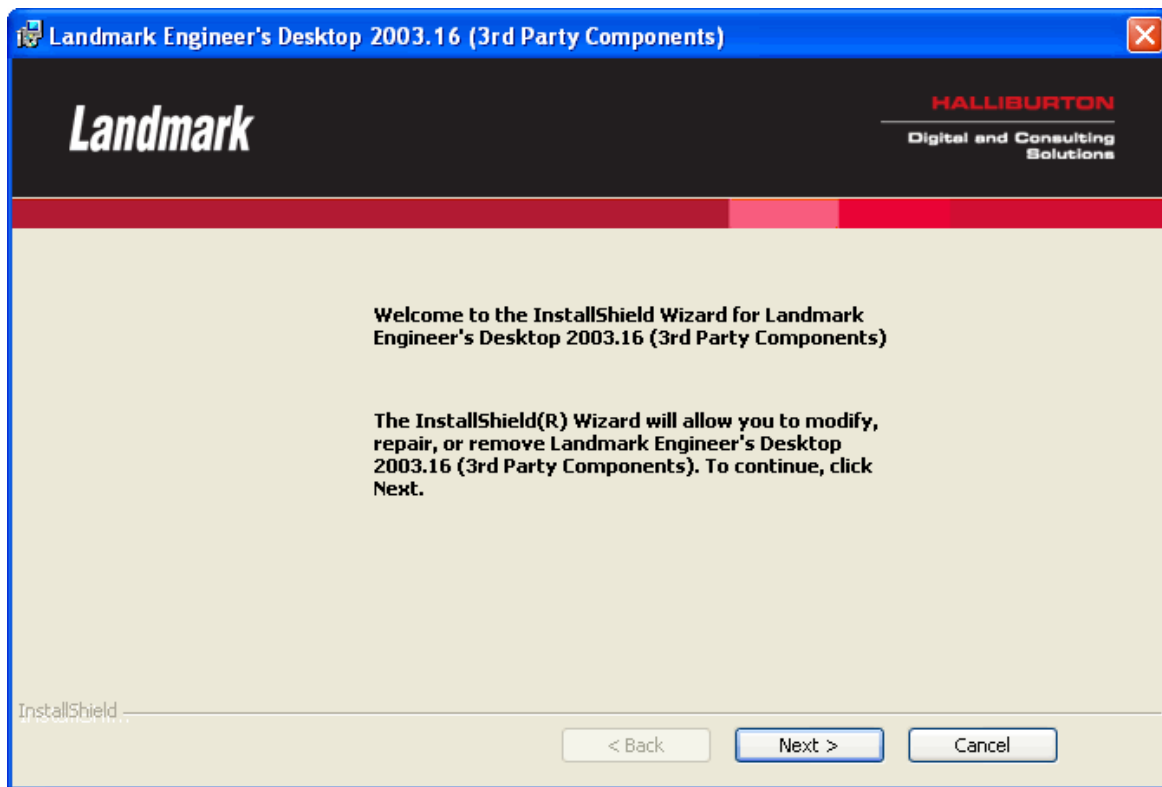
3. Well Cost third-party components are the same that shipped with EDT 2003.16.0 and 2003.16.1.0.

If EDT 2003.16 or EDT 2003.16.1.0 is *not* installed, the third-party installation is required. Select **3rd Party** then click **Install**.

A confirmation that the installation is running displays with a progress bar, followed by another informational dialog.



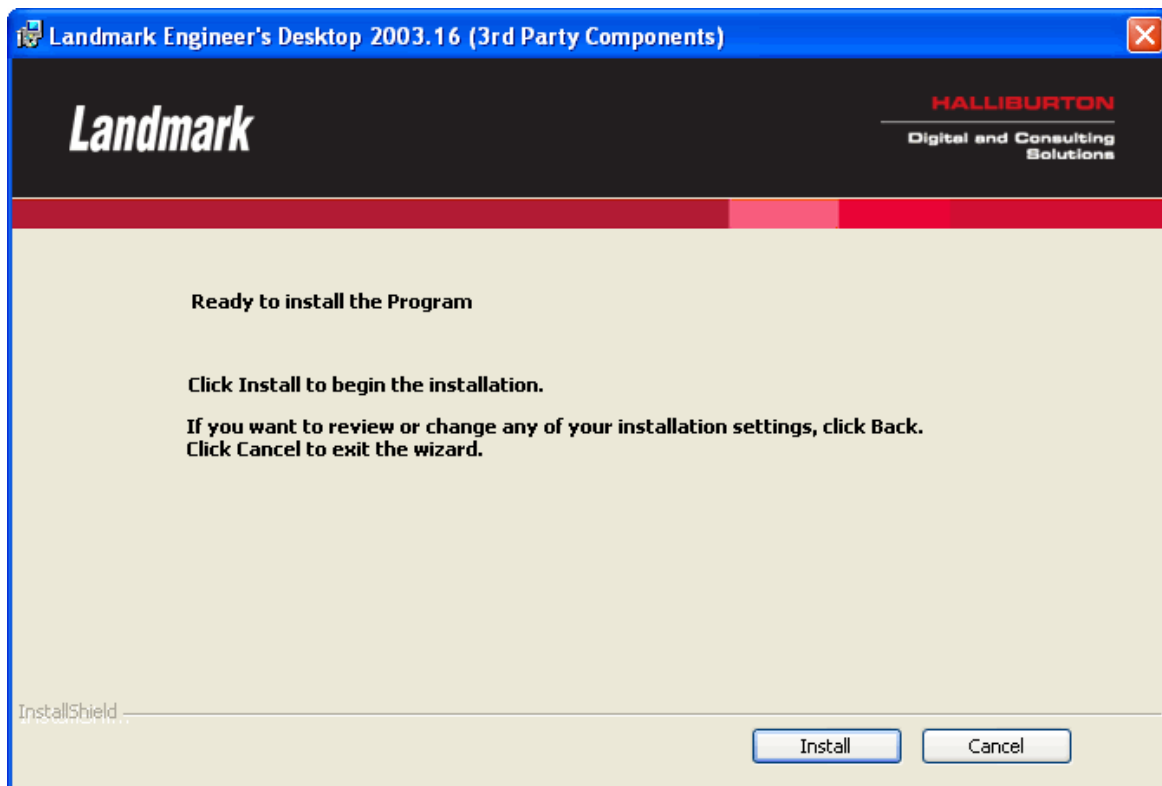
4. Click **Next** to proceed with the installation.



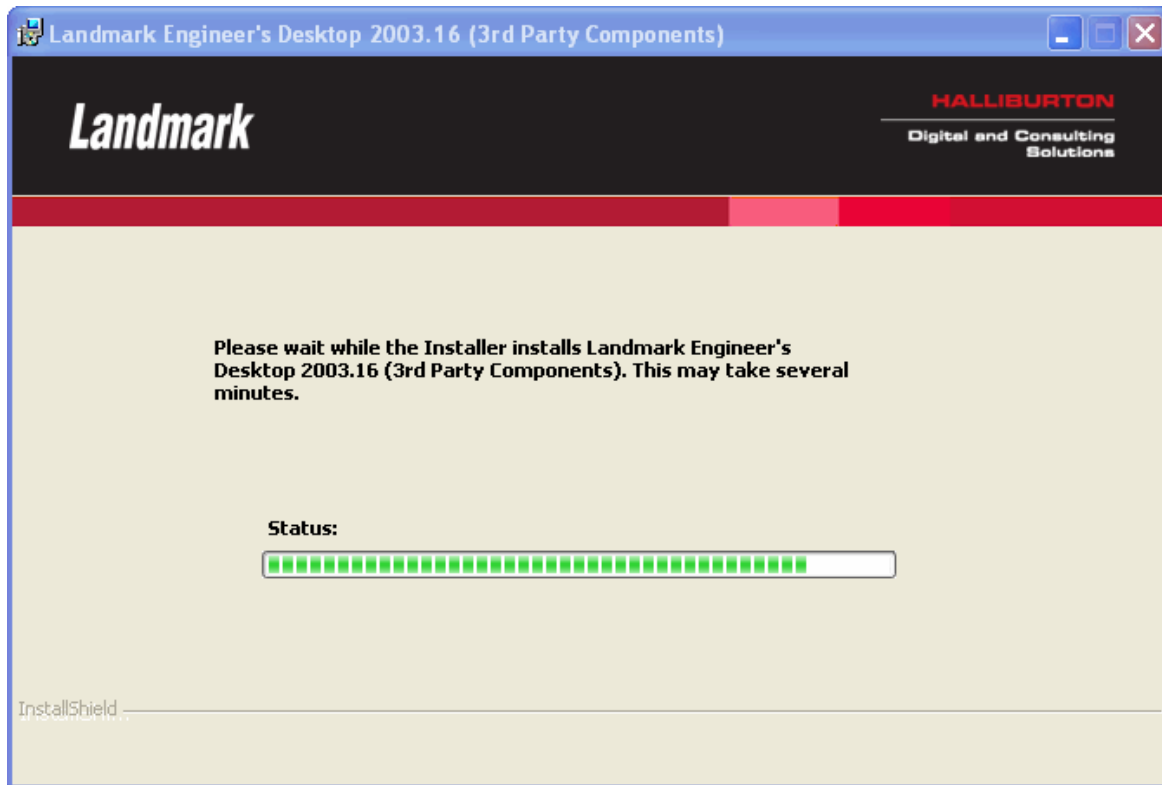
Back button

To change installation selections, click on the **Back** button to navigate to previous panels.

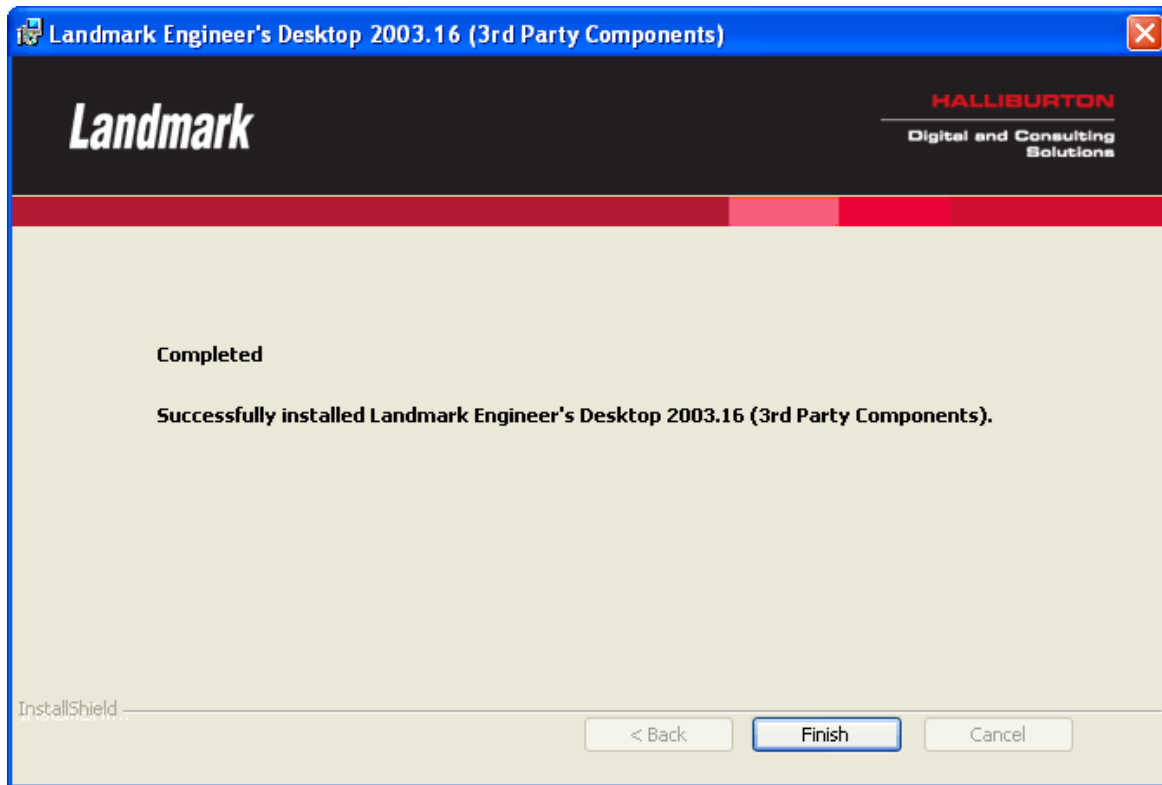
5. Click **Install**.



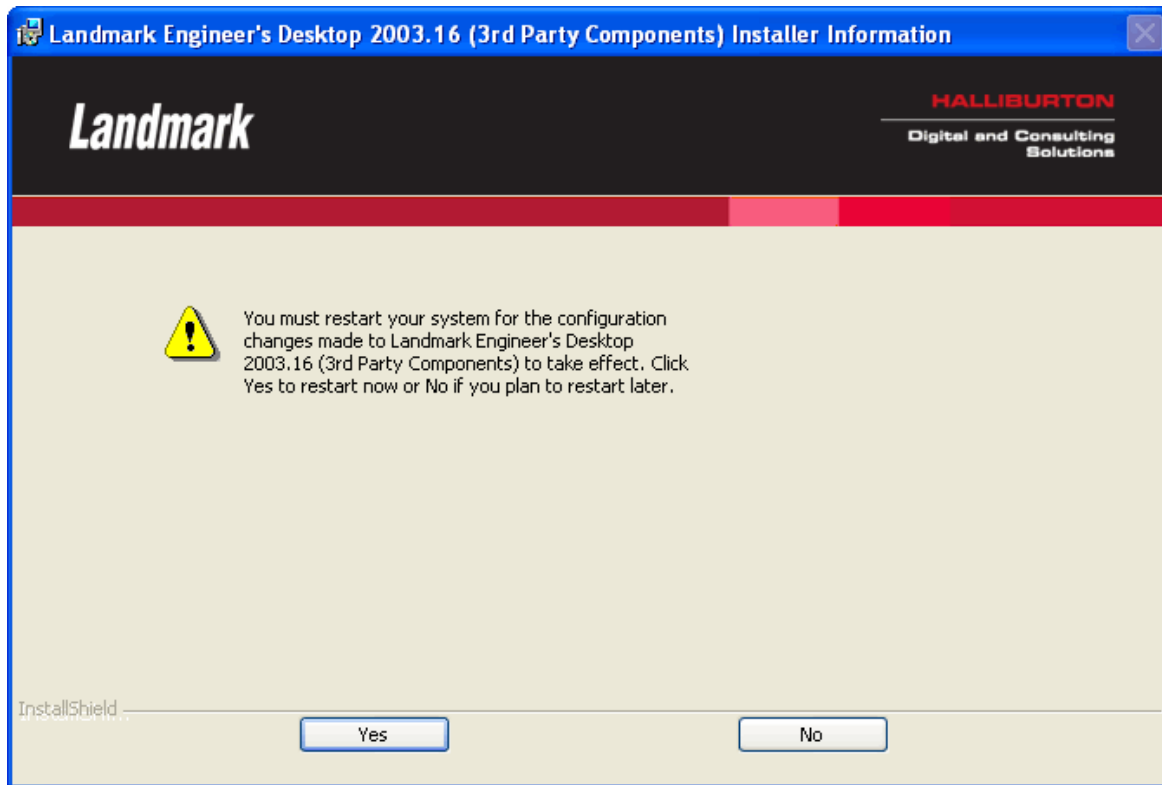
Installation progress is shown.



6. Click **Finish**.



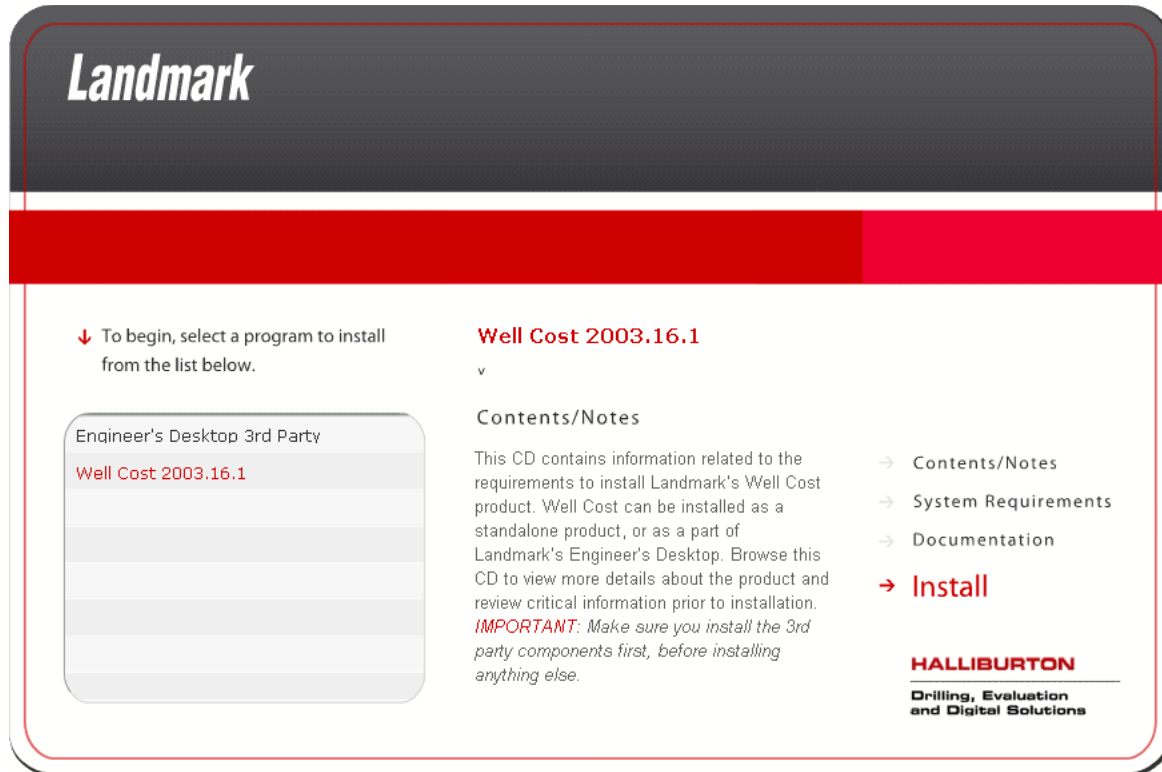
7. Click **Yes** to restart the system.



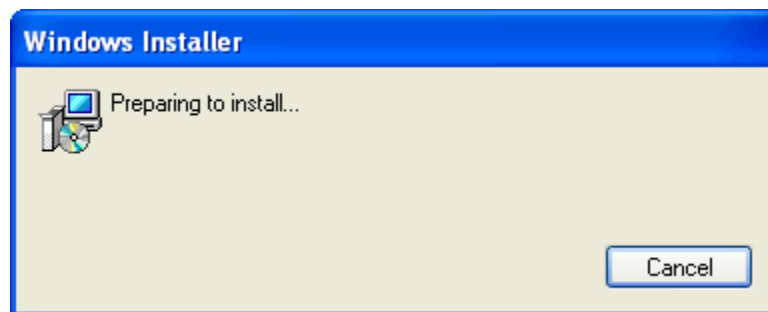
Installing Well Cost

8. After the system restarts, insert the CD in the CDROM drive if it was removed and start the Well Cost installation. If the installation does not automatically begin, navigate to the root directory of the CD and run **Launch.exe**.

The Installation Wizard displays.



9. Select **Well Cost 2003.16.1** then click **Install**. A confirmation that the installation has begun displays with a progress bar, followed by another informational dialog.



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



11. If third-party components are not installed, click **Cancel** then **Yes** to confirm. On the next panel, click **Finish** to exit the Well Cost

installation. Run the **Launch.exe** program located in the CD root directory and install third-party components.



12. If third-party components are installed, click **Next** to proceed with the installation.

13. Enter a **User Name** and **Organization** then choose whether to make Well Cost available to all users or only the user identified in the User Name field.

Landmark Well Cost 2003.16.1.0 - InstallShield Wizard

Landmark **HALLIBURTON**
Drilling, Evaluation
and Digital Solutions

User Name:
User

Organization:
Landmark

Install this application for:

☒ Anyone who uses this computer (all users)
☐ Only for me (User)

InstallShield

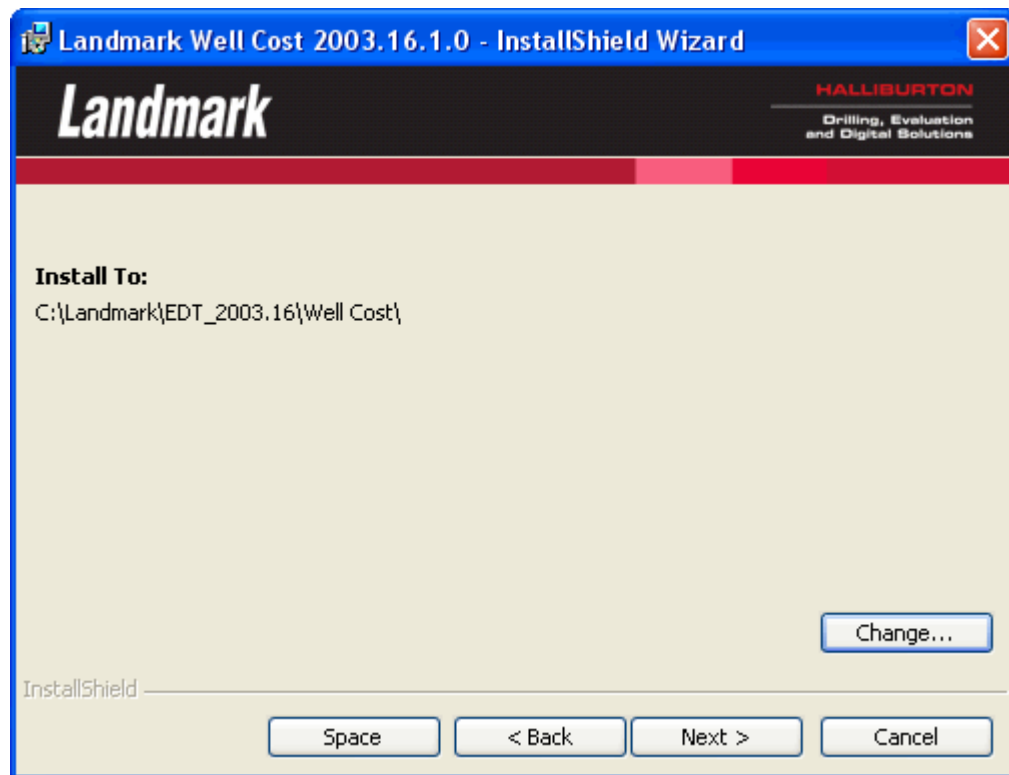
< Back Next > Cancel

14. Click **Next**.



If EDT 2003.16.1.0 applications are already installed on the system, a notification “Landmark Engineer’s Desktop 2003.16.1.0 detected on your system” displays on the panel. Well Cost must be installed in the same directory where EDT 2003.16.1.0 is installed. Click **Next** and proceed to step 15.

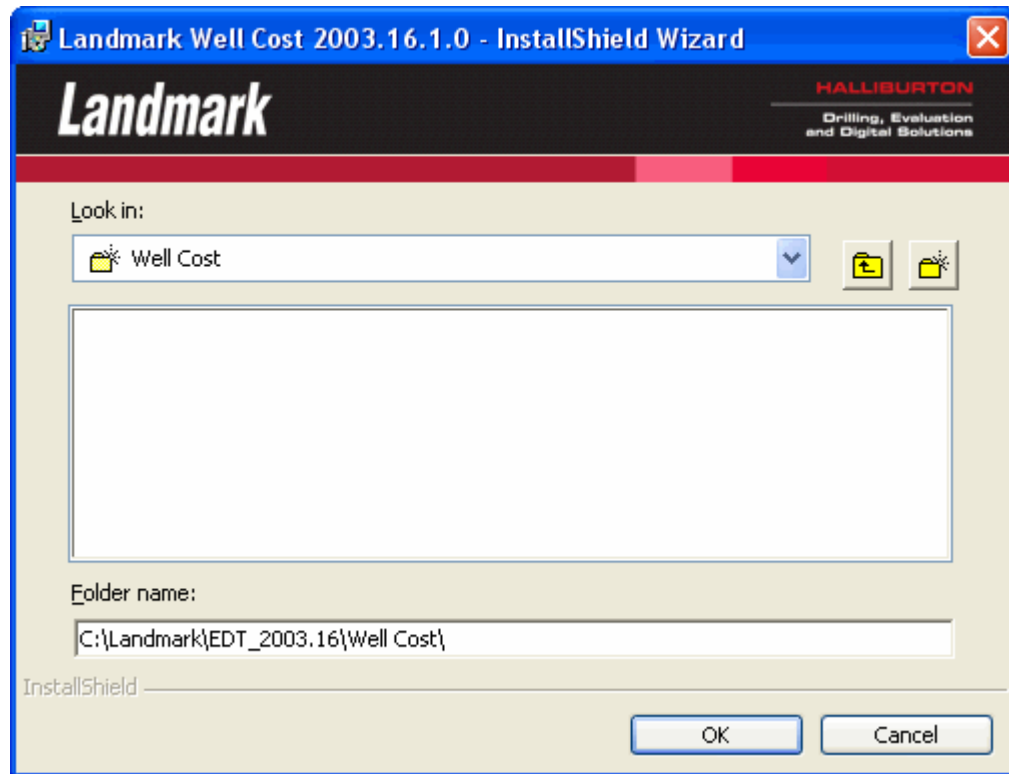


If EDT applications are not installed and you wish to install the program in a directory other than the default, click on the **Change** button.



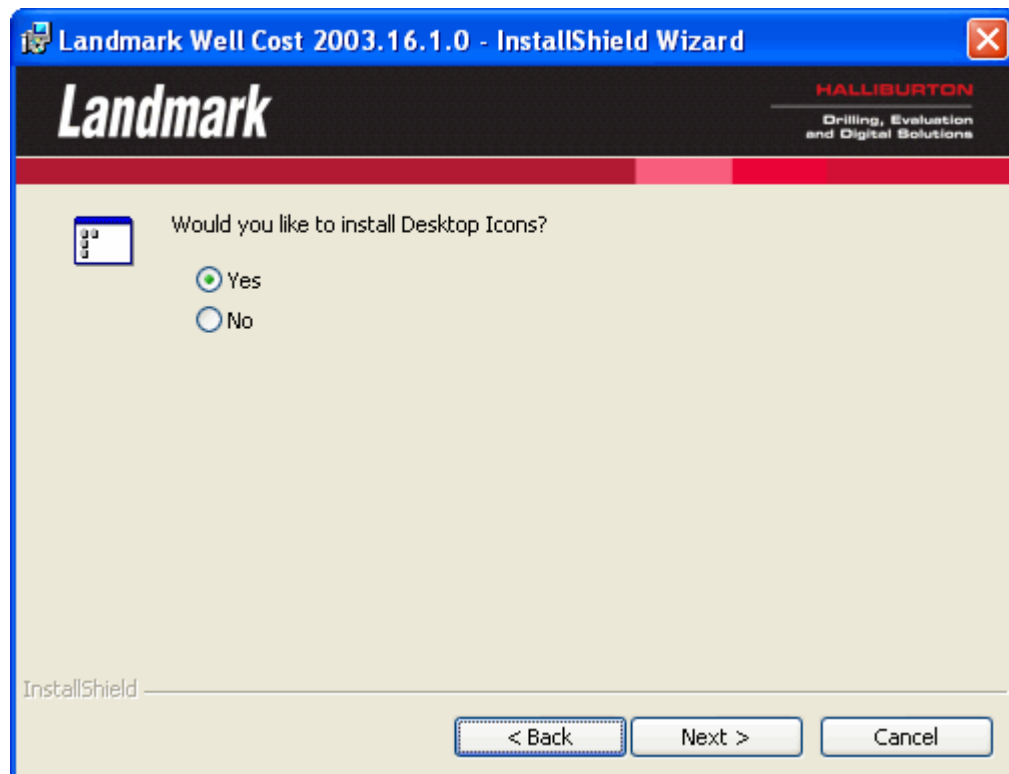
From the next screen, choose the directory to install Well Cost. Select the directory from the **Look in** picklist and navigate to the local or

network drive location. Use the up one level () and new folder () buttons to if needed.



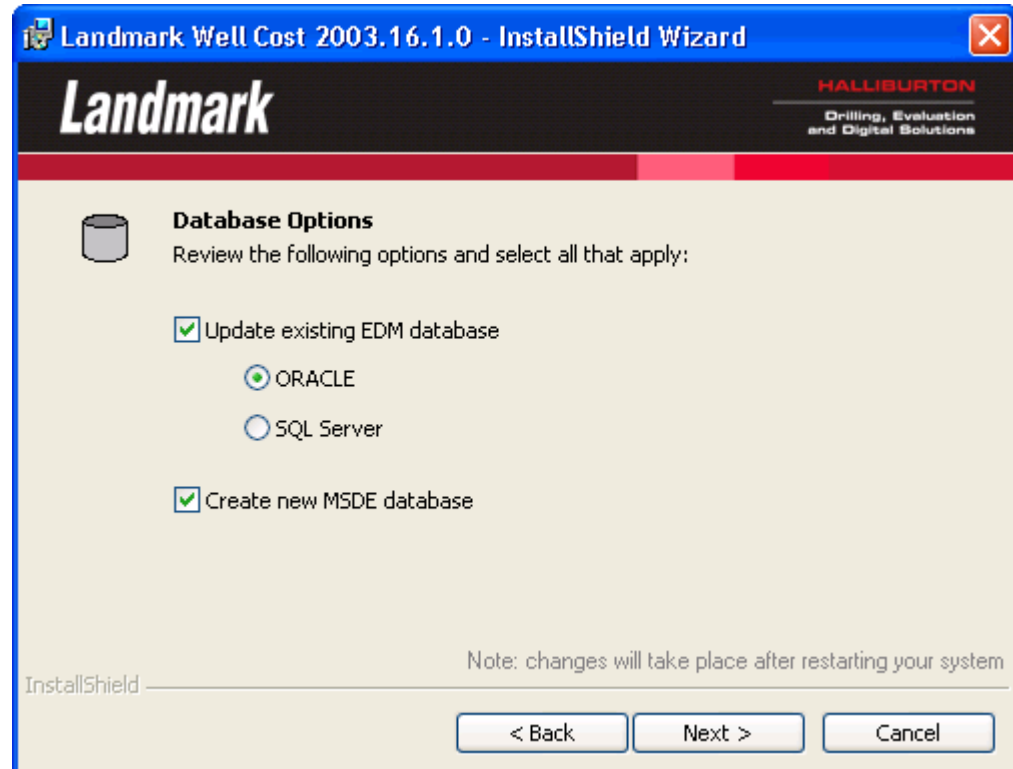
Click **OK** to proceed.

15. When the installation directory is specified, click **Next** to proceed.



16. Select **Yes** to place a Well Cost desktop shortcut on the Desktop, or **No** to skip the shortcut installation.

17. Click **Next** to proceed to the Database Options panel.

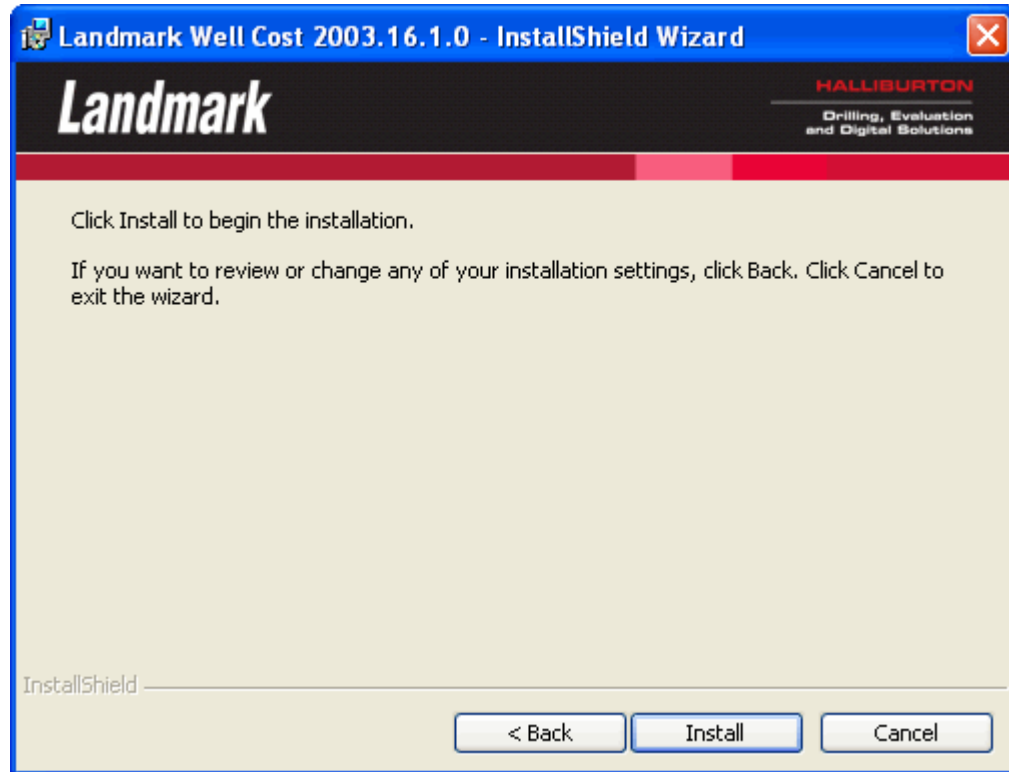


18. Select the **Database Options**.

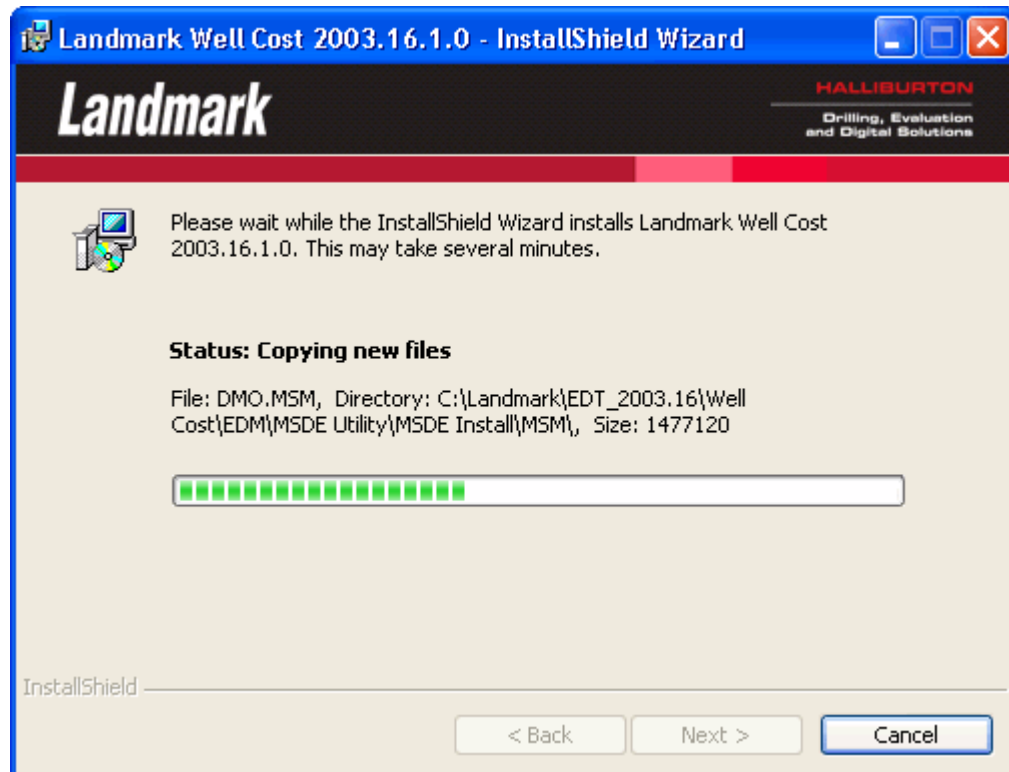
Options include:

- **Update an existing EDM database** - Activate this checkbox then select either Oracle or SQL Server (MSDE). Only a 2003.16.1.0 EDM database can be updated.
- **Create new MSDE database** - Activate this checkbox to create a new MSDE database after system restart.

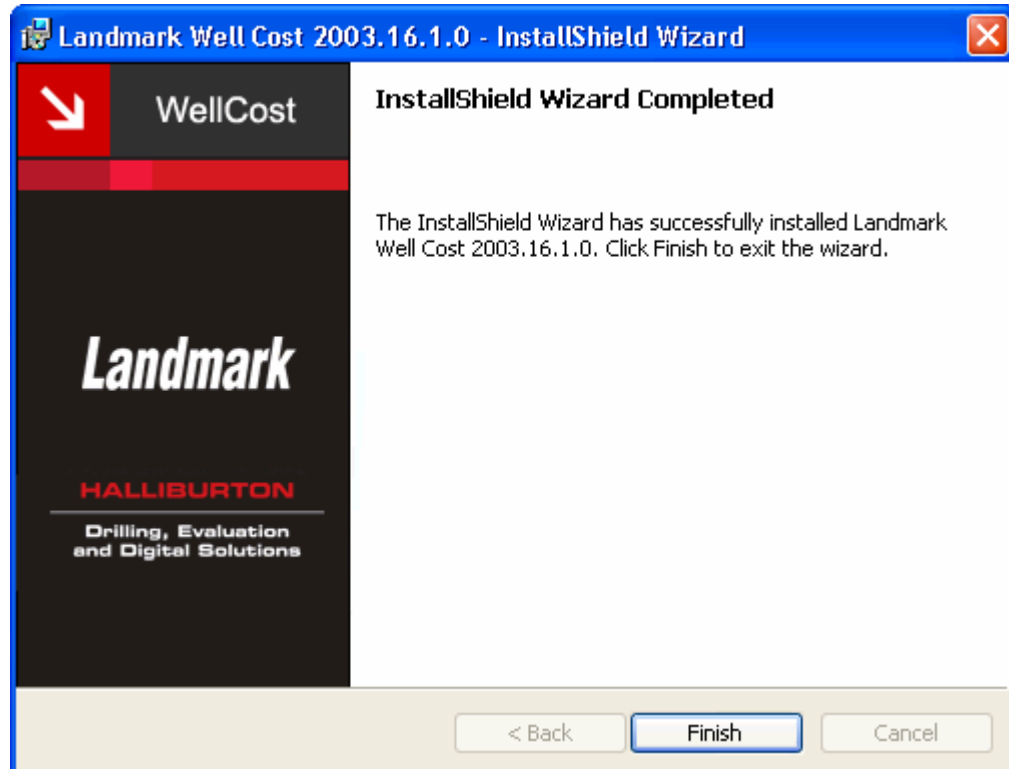
19. When the Database Options are specified, click **Next**.



20. Click **Install** to execute the Well Cost installation. A panel displays the installation progress.

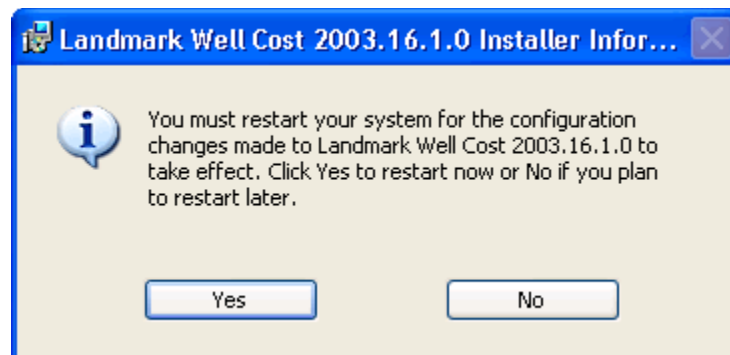


21. Click **Finish**.



22. If the **Update an existing EDM database** option was selected in step 18, the update utility will run prior to system restart. The Automatic and Manual database update procedures are covered in "Database Updates" on page 43.

If the **Update an existing EDM database** was *not* selected, click **Yes** to restart the system. To continue working and restart at a later time, click **No**.



After system restart, the MSDE Utility will run if the **Create new MSDE database** option was selected in step 18. See “Creating a New SQL (MSDE) Database” on page 58 for more information.

Database Updates

Review the procedures below thoroughly before proceeding. For information on database upgrade procedures, refer to “Local Upgrade” section in *Planning the EDT Installation* included with this release.

Note

The database update utility included with the Well Cost installation only updates EDM 2003.16.1.0 (database version 06.01.00.077). Previous versions of the EDM database must be upgraded to 2003.16.1.0 before running the update.

The following procedure outlines how to update an existing database at any time. If the **Update an existing database** option was selected in step 18, the MSDE Utility automatically starts immediately after restart of the system and you may skip to step 26.

Run the Database Update utility as needed to update additional SQL and Oracle databases at a later time.

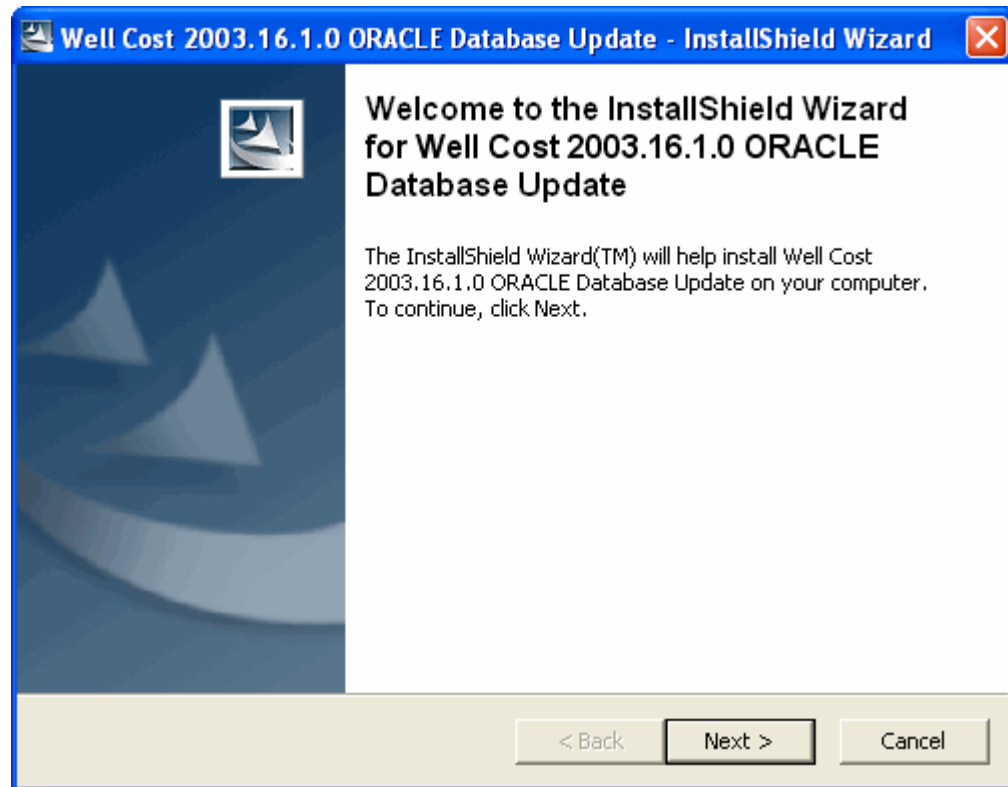
Navigate to the temporary folder you saved the update files to in step 25 and open DB_UPDTE.exe to update each database individually.

23. Navigate to one of the following directories and double-click on the database type to update as follows:

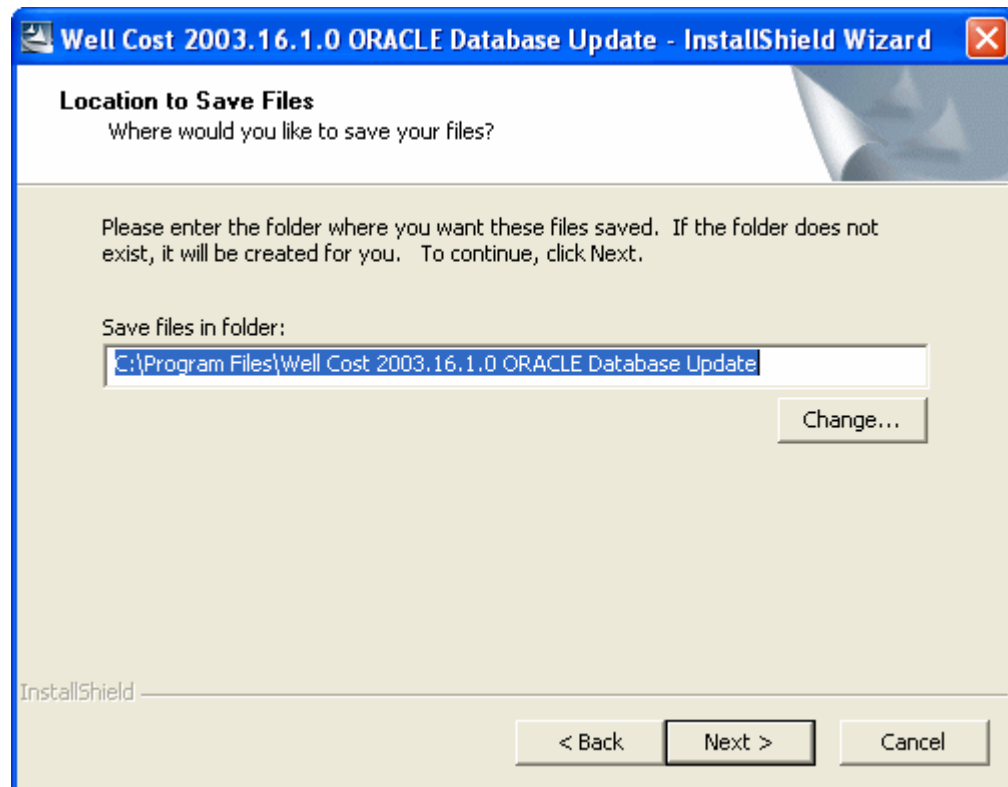
- **Oracle database** - <Install
Directory>\Landmark\EDT_2003.16\Well
Cost\Updates\Oracle directory and double-click on
2003_16_1_0_WC_ORA_Update.exe.
- **SQL (MSDE) database** - open the <Install
Directory>\Landmark\EDT_2003.16\Well
Cost\Updates\SQLServer directory and double-click on
2003_16_1_0_WC_SQL_Update.exe.

Steps 24 and 25 show the initial screens that display for an Oracle database update. The SQL (MSDE) database update process displays similar panels and will not be shown.

24. Click **Next** to proceed.



25. Click on the **Change** button to save the update files in a temporary directory with no spaces in the name on the system where Well Cost is installed. When a directory is chosen, click **Next**.

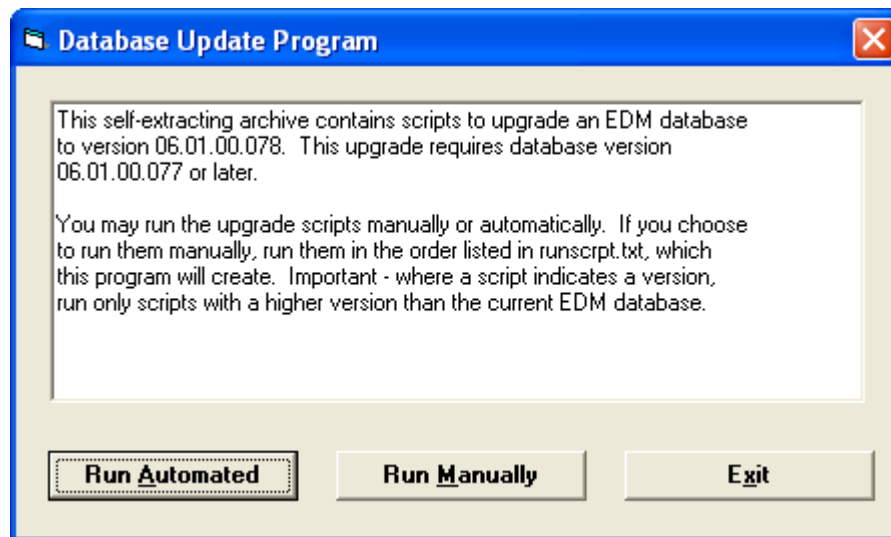


Save the files to an empty temporary folder with no spaces in the directory name to prevent potential problems

Ensure that the folder you save the update files is empty and that the name of the directory contains no spaces. This will prevent possible conflicts and/or errors with the database update. At the completion of the database update, you may delete the update files from the temporary folder.

26. If the option to update a database was selected, the *Database Update Program* dialog displays immediately after system restart

during the boot process (may appear minimized in the task bar; click to maximize).



This dialog describes the update scripts that will run.

Running Database Update in Automated Mode

Landmark recommends selecting the **Run Automated** button in most cases. To cancel the database update, click **Exit**. The update utility can be run at a later time.

For cases that involve database diagnostics, or to maintain manual control over the database update process, select the **Run Manually** button.

- **MSDE database manual updates** - Contact Landmark Support.

- **Oracle database manual updates** - see “Running Oracle Database Update Manually” on page 50.

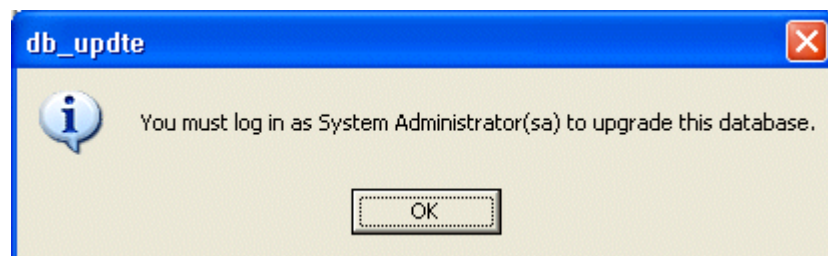
CAUTION: Failure to update 2003.16.1.0 EDM databases to version 06.01.00.78 will result in unsatisfactory performance and cause program errors.

Completion of the EDM database update procedure is MANDATORY to ensure proper operation of Well Cost. Use the DB_UPDTE.exe file included with this release to update EDM version 2003.16.1.0 databases only. This utility will not update databases previous to 2003.16.1.0.

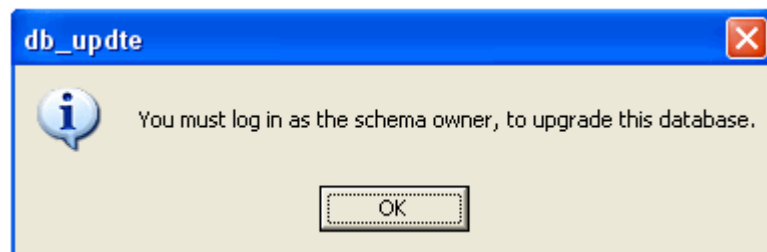
See page 46 for the Automated update procedure and page 50 for the Manual update procedure.

27. Click the **Run Automated** button. The following dialog appears:

For SQL (MSDE) automated update:



For Oracle automated update:



28. Click **OK** to proceed. The *Log on to Database* screen displays.

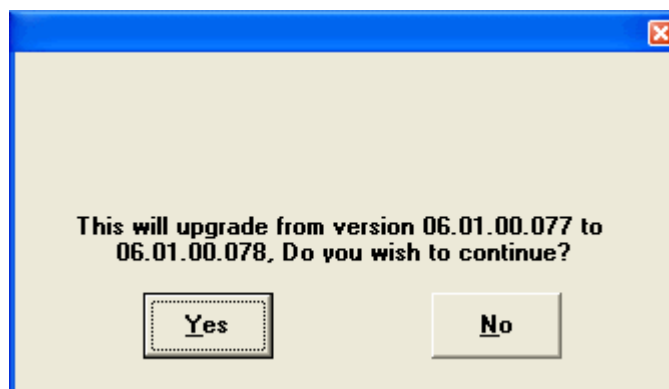
A Windows-style dialog box titled "Log on to Database". It has a blue title bar. The main area is light beige. It contains three labels with corresponding input fields: "User Name :" with a text box containing "sa", "Password :" with a text box containing "*****", and "DSN :" with a dropdown menu showing "DM 2003.16.1 Single User Db". At the bottom are two buttons: "OK" and "Cancel".

29. Enter the Database Administrator **User Name** and **Password**.

Database System Administrator/Schema Owner

You must login as Database Administrator (or Schema Owner for Oracle) to perform the update. The default password for the *sa* user is *landmark*. The database update utility will not accept credentials from any user other than the Database Administrator. If you enter an invalid login, you are prompted to enter a different user name and password.

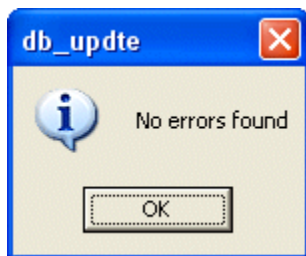
30. Select the Data Source Name from the **DSN** picklist (for example, EDM 2003.16.1 Single User Db). The DSN selected must be configured against an EDM database. A confirmation dialog displays.

A Windows-style dialog box with a blue title bar and a close button (X) in the top right corner. The main area is light beige. It contains the text: "This will upgrade from version 06.01.00.077 to 06.01.00.078, Do you wish to continue?". At the bottom are two buttons: "Yes" and "No".

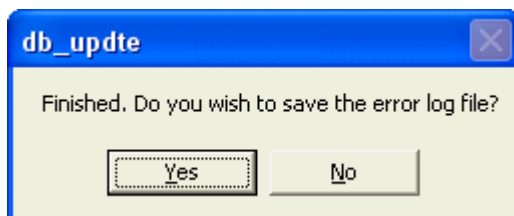
31. Click **Yes** to begin the update. The database update scripts are executed. For Oracle databases, this may take some time as typical

Oracle updates can last approximately 90 minutes. Click **No** to abort the update.

32. When the update finishes, the following message displays. Click **OK**.



33. If errors are reported, a prompted to save the error log file. Click **Yes**.



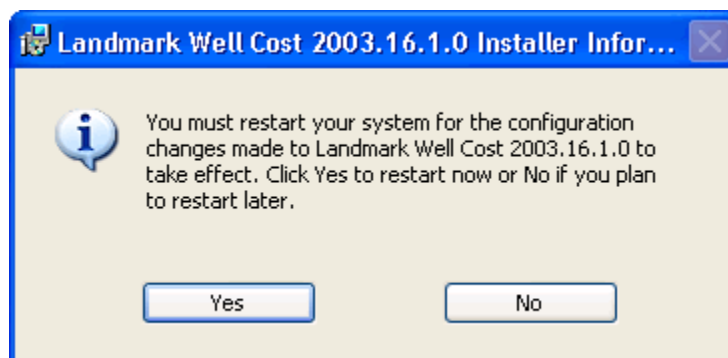
SEVERE SITE IMPORT ERROR

If SEVERE SITE IMPORT ERROR message(s) are reported in the log file, please note the date on the message. Old errors can be picked up from the log file and erroneously reported

For Oracle, SERVER SITE IMPORT errors are known to cause problems with importing Well Cost reports. If you receive SEVERE SITE IMPORT errors during a Well Cost installation on Oracle, and the date of the error corresponds to the date of the Well Cost installation, always import Well Cost reports into the EDM Administration Utility. See *EDM Administration Utility Help* for information about how to import reports.

34. You are then prompted to select a directory to save the error log. Review the log file created in step 33 for details on any errors. Report all database update errors you are unable to resolve to Landmark Support.

35. A restart prompt displays. Click **Yes** to restart the system. To continue working and restart at a later time, click **No**.



This concludes the automated database update and Well Cost installation.

Running MSDE Database Update Manually

Landmark strongly recommends using the Automated Update procedure on page 46 to update MSDE databases.

For troubleshooting, or for special cases where a manual update is desired, please contact Landmark Support for assistance.

Running Oracle Database Update Manually

Choose **Run Manually** to run the update program in manual mode. Landmark strongly recommends using the **Run Automated** button, described in steps 27 though for most installations. The following procedure updates an EDM database from version 06.01.00.077 to 06.01.00.078 (note that the actual database

number may be slightly higher due to last-minute changes after this document went to press).

CAUTION: Failure to update 2003.16.1.0 EDM databases to version 06.01.00.078 will result in unsatisfactory performance and cause program errors.

Completion of the EDM database update procedure is MANDATORY to ensure proper operation of Well Cost.

Use the DB_UPDTE.exe file included with this release to update EDM version 2003.16.1.0 databases only. This utility will *not* update databases previous to 2003.16.1.0.

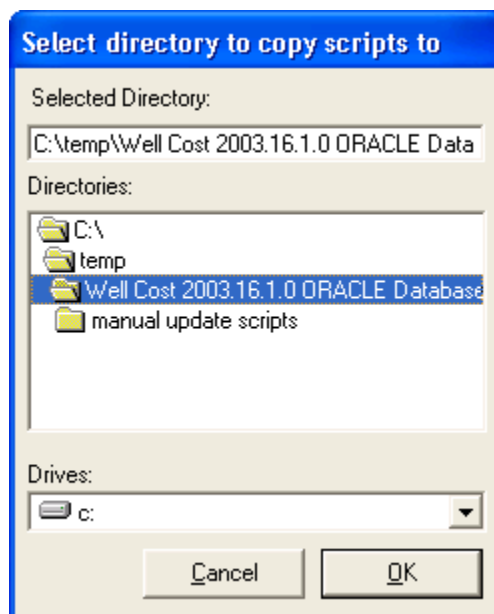
See page 46 for the Automated Update procedure.

36. Create an empty temporary folder, with no spaces in the name, in the directory that the update files were unzipped to in step 25.

No spaces in the directory names!

Ensure that the folder you create in step 36 is empty and that the name of the directory contains no spaces. This action prevents possible conflicts and/or errors with the database update. At the completion of the database update, you may delete the update files from the temporary folder.

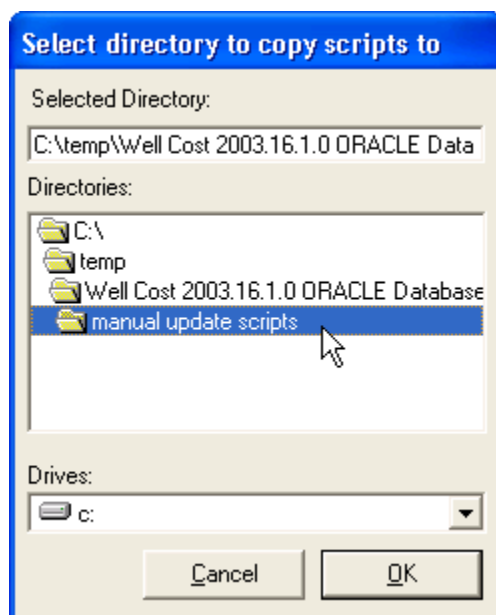
37. Click the **Run Manually** button. The following dialog displays:



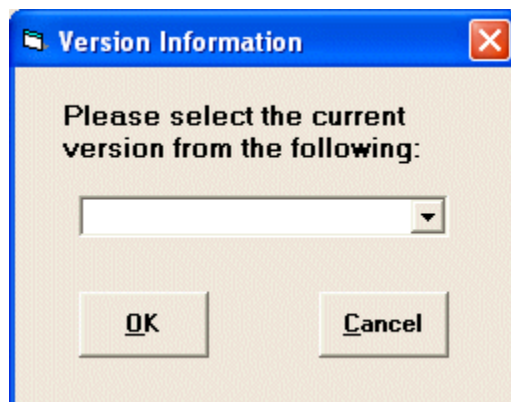
38. Navigate to and double-click on the temporary directory created in step 36 to copy the database update scripts.

Do not copy scripts to same directory where the 2003_16_1_0_WC_ORA_Update.exe file is located.

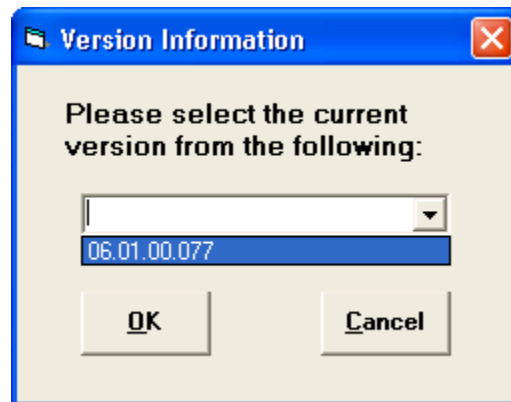
To prevent conflict, copy the scripts to an empty temporary folder other than the directory where the 2003_16_1_0_WC_ORA_Update.exe file is located.



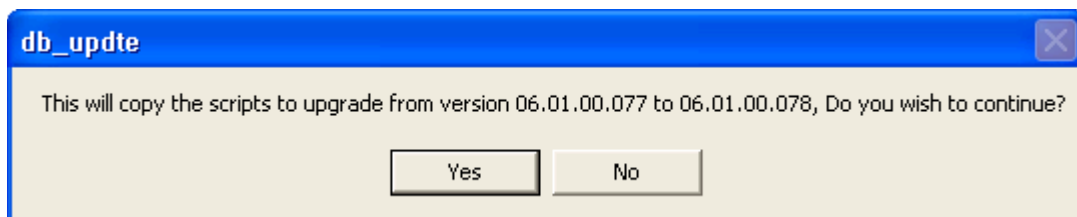
39. Click **OK**. The scripts are copied and the Version Information dialog box displays.



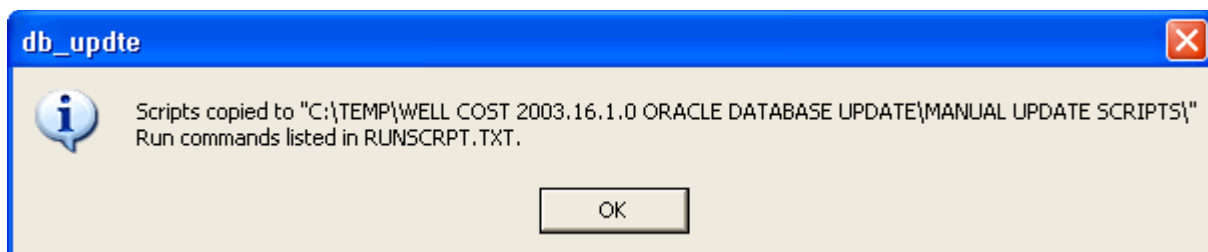
40. From the Version Information dialog picklist, select the EDM database version 06.01.00.077.



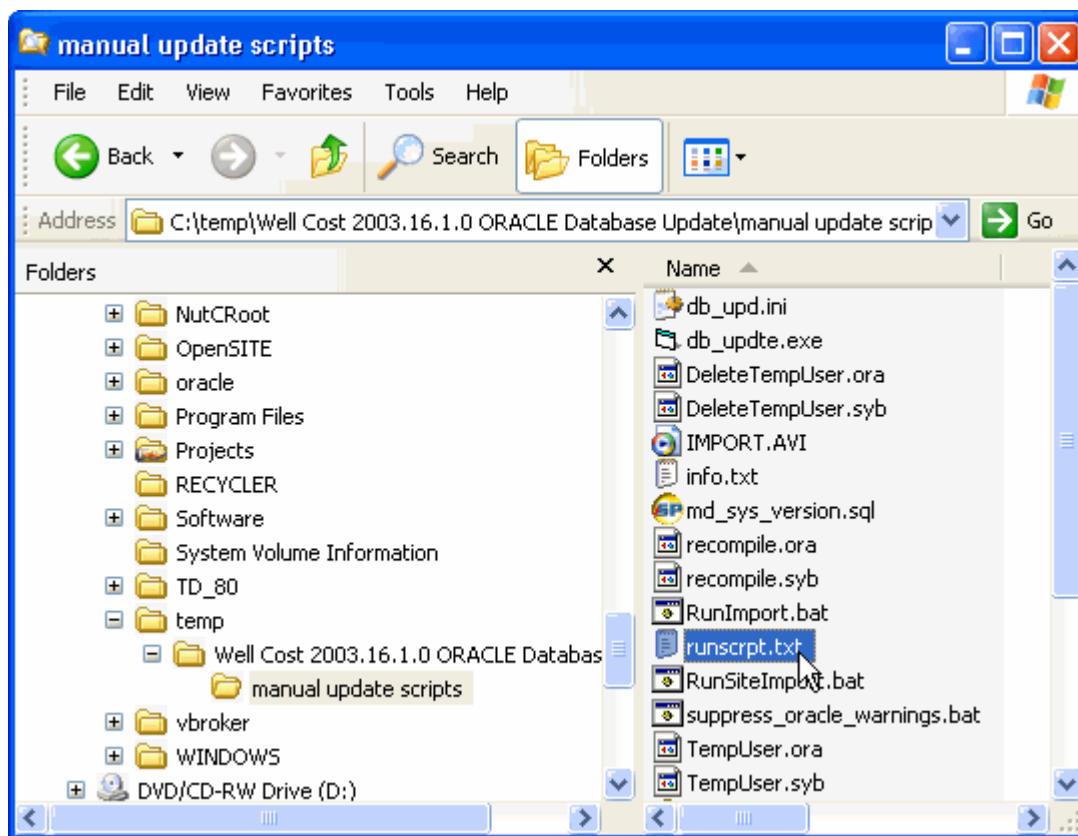
41. Click **OK**. A dialog box displays to confirm the database version update information you selected is correct. Click **Cancel** to abort the database update. It may be run at a later time.
42. Click **Yes** if the current and update database versions are displayed correctly. Click **No** to abort the database update. The utility may be run at a later time.



43. Once the files are copied, click **OK** when the following confirmation dialog box displays.



44. Navigate to the temporary folder that the files were unzipped to in step 38 and open **runscript.txt** with a text editor.



45. Edit the connection parameters (username, password, and in most cases include the SID) in the following command line.

connect PK/landmark

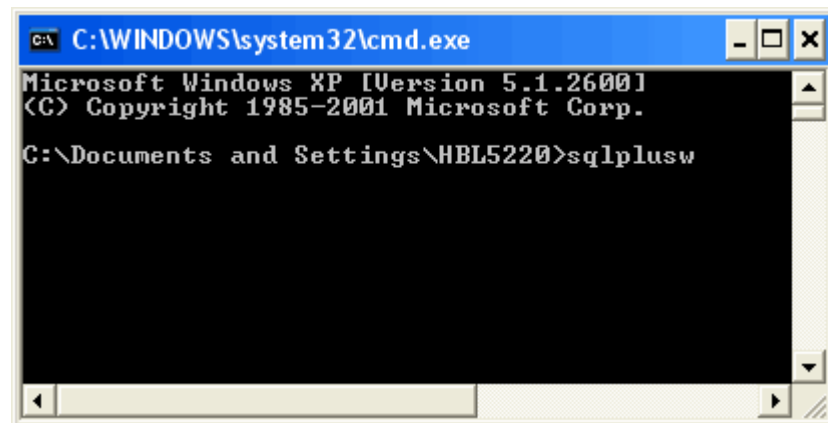
PK User

The default Picklist user name is PK and must not be changed to prevent problems with EDM applications, such as OpenWells. The default password for PK user is “landmark” and can be changed as needed. Most cases require adding @<SID> to the end of the PK connect command. Check with your Database Administrator for PK user name and password.

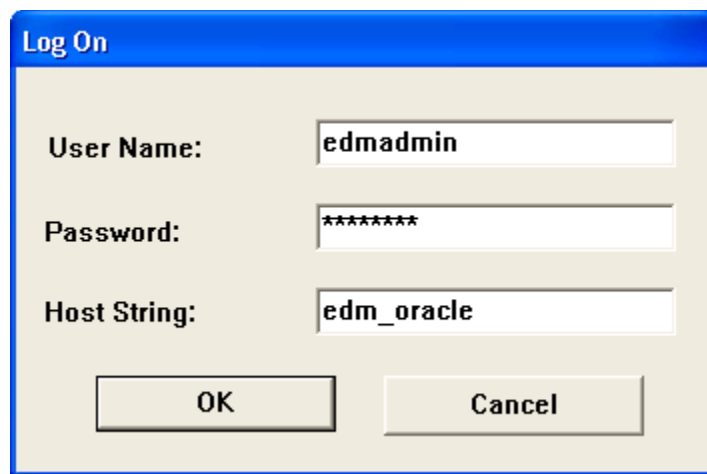
Example:

```
connect PK/landmark@edm_oracle
```

46. Open a command window with **Start > Run > cmd**.



47. Enter **sqlplusw** at the command prompt and press **Enter**. The SQL*Plus login dialog displays.



48. Enter the **User Name**, (the Schema Owner user name) **Password** (the Schema Owner password) and **Host String** (the SID for the database you desire to update).
49. Click **OK** or click **Cancel** to exit and close SQL*Plus if you desire to run the scripts at a later time.

Script Errors

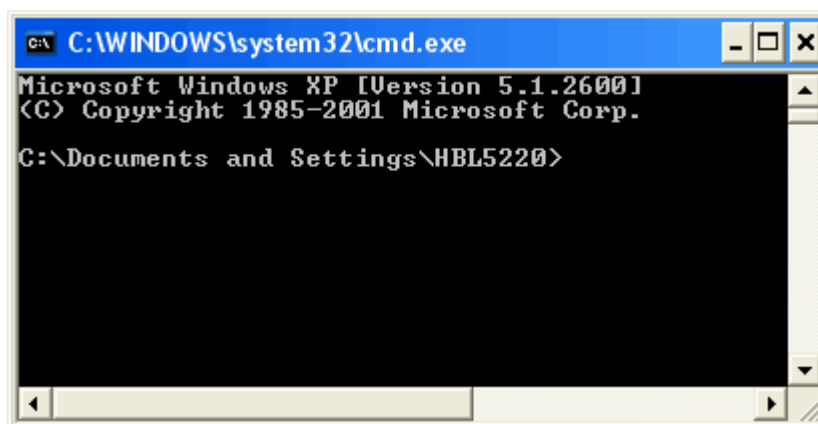
Running the update manually may generate error messages from the recompile.ora script. The error messages generated when recompile.ora interacts dynamically with the Oracle instance are expected, and are generally harmless.

50. Copy and paste the entire contents of the edited **runscript.txt** file into SQL*Plus to run the scripts. This may take some time as typical Oracle updates can last about 90 minutes.

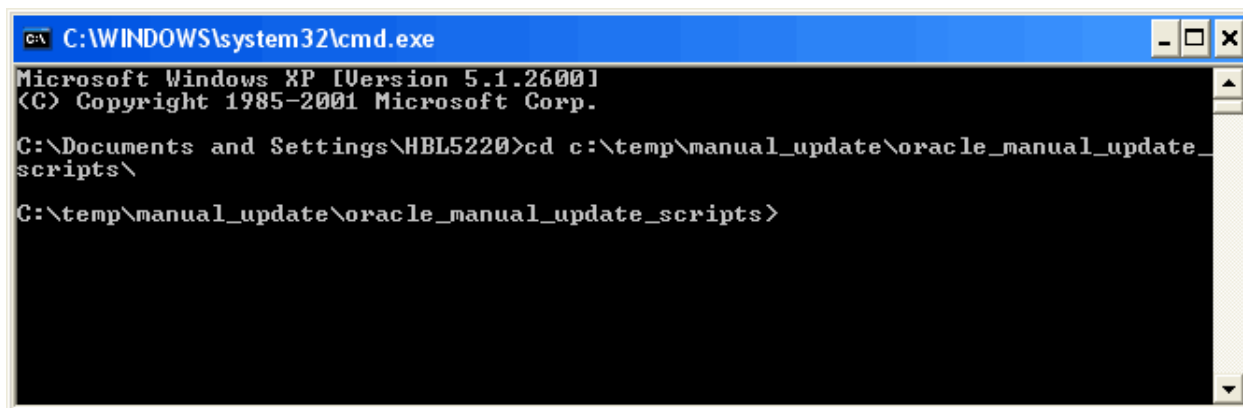
Database Access with SQL*Plus

Contact the Database Administrator or the Schema Owner for the Schema User Name, Password and Host String (referred to as the System ID, or SID) to open SQL*Plus and login to the database.

51. Open a command window using **Start > Run > cmd**.



52. Change the command prompt directory to the location where the files were unzipped in step 38.



53. Type **RunSiteImport <DSN> <username> <password>** into the Windows command prompt. You must replace <DSN>, <username> and <password> with the correct database connection

parameters and no brackets to execute this command correctly.
See the note below for details.

RunSiteImport

RunSiteImport is an external command that needs to run from the Windows command prompt. Enter RunSiteImport <DSN> <username> <password> to reflect connection parameters that are specific to the database being updated.

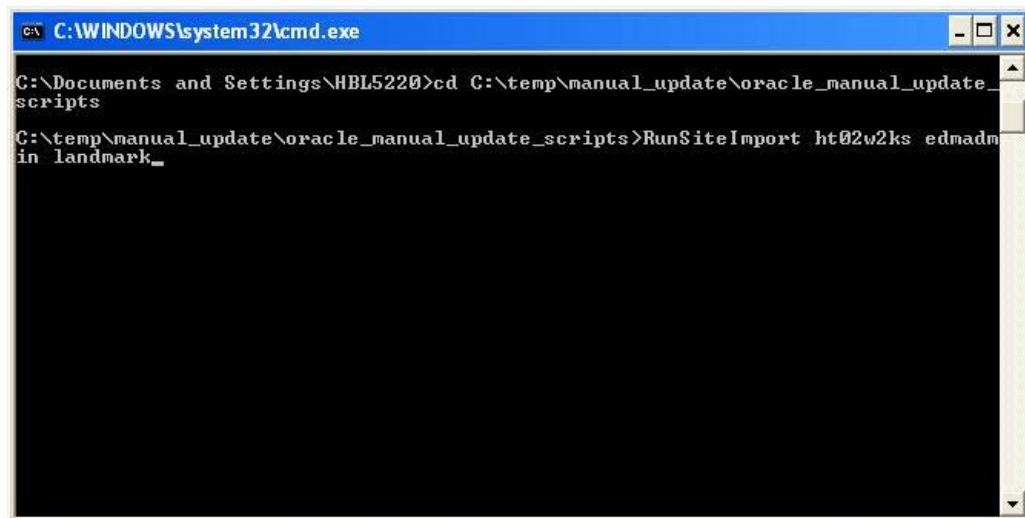
Example: RunSiteImport ht02w2ks edmadmin landmark

Where:

ht02w2ks is the DSN (Host String; also referred to as the ODBC Data Source Name or Service Name)

edmadmin is the Schema Owner user name

landmark is the Schema Owner password



```
C:\WINDOWS\system32\cmd.exe
C:\Documents and Settings\HBL5220>cd C:\temp\manual_update\oracle_manual_update_scripts
C:\temp\manual_update\oracle_manual_update_scripts>RunSiteImport ht02w2ks edmadmin landmark_
```

Select **Enter** on the keyboard to run the command. The command will run the EDM Admin Utility site import. A report of success displays.

If errors are reported in the SiteImport.log file, contact Landmark Support.

SEVERE SITE IMPORT ERROR

If SEVERE SITE IMPORT ERROR message(s) are reported in the log file, please note the date on the message. Old errors can be picked up from the log file and erroneously reported

For Oracle, SERVER SITE IMPORT errors are known to cause problems with importing Well Cost reports. If you receive SEVERE SITE IMPORT errors during a Well Cost installation on Oracle, and the date of the error corresponds to the date of the Well Cost installation, always import Well Cost reports into the EDM Administration Utility. See *EDM Administration Utility Help* for information about how to import reports.

Creating a New SQL (MSDE) Database

If the **Create new MSDE database** option was selected in step 18, the MSDE Utility launches immediately after reboot. This utility is used to add a new EDM database, or replace an existing database.

CAUTION!

If you replace an existing SQL (MSDE) database, all data in the existing database is lost.

To create a new Well Cost MSDE database:

1. Select the **Add New** option.
2. Enter the name of the database file (*.MDF) in the **Database File** field used to create the new EDM database. This can be any EDM.MDF file. Select the **Browse** button to navigate to and select the source .MDF file.
3. Activate the **AutoShrink** checkbox to enable the autoshrink setting. This setting will reduce the database file size by removing unused space periodically.
4. If the default administrator account (sa) created when MSDE is initially installed was removed, enter the **Administrator Account** and **Administrator Password**. Otherwise use the default.

5. Enter the new ODBC **Data Source Name**.

Important!

If you leave the Data Source Name as it appears by default, this will overwrite the ODBC connection to the current EDM database.

If the edm user account created during the initial installation of MSDE still exists, the passwords will not be changed.

6. The Max Server Memory field can be changed to reflect more memory if desired. If this field is changed, click **Apply**. A dialog box with the message, 'Maximum server memory has been set.' will appear. Click **OK** to return to the main window.

Resetting Max Server Memory to default setting

If the Max Server Memory field has been changed, click **Optimize** to reset the value to that with which it was shipped. A dialog box with the message, 'Maximum server memory has been set.' will display. Click **OK** to return to the main window.

7. Click **OK**.

A new instance of the EDM database is created. If the **Replace** option was selected, the database file being replaced is backed up and renamed with a 00x suffix. It will not be deleted.

When the new database is installed or replaced, a dialog displays information that the configuration succeeded.

For more information about this utility, open the *MSDE Utility Help* from the Windows Start menu (**Start > Programs > Landmark Well Cost 2003.16.1 > Documentation > Help > MSDE Utilities**).

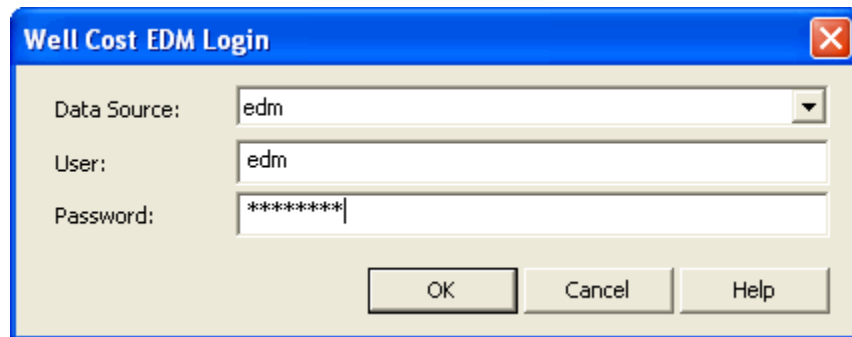
This concludes the Well Cost installation, it is not necessary to reboot again.

Checking the Installation

Always check that the installation completed properly by logging into Well Cost.

1. Double-click on the Well Cost desktop icon (if created during install) or select **Start > Programs > Landmark Well Cost 2003.16.1 > Well Cost**.

The Well Cost EDM Login dialog displays.



2. From the Data Source picklist, select the EDM database you created during the Well Cost installation (see “Creating a New SQL (MSDE) Database” on page 58) or the one you updated in “Database Updates” on page 43.
3. In the User field, enter “**edm**”.
4. In the Password field, enter “**landmark**” (all lower case).
5. Click **OK**.

Well Cost opens.

6. If Well Cost does not open, review “Troubleshooting” on page 61. If you are unable to solve the problem with the installation, contact Landmark Support.

Troubleshooting

The following lists some potential problems that may exist during installation of Well Cost.

Repairing the Well Cost Installation

Prior to contacting Landmark Support, it is recommended to always run the Well Cost installation again and perform a repair operation.

Uninstalling and then Reinstalling Well Cost requires the repair of EDM and Drilling Applications

Uninstalling Well Cost will cause problems in the remaining EDT installations due to common file sharing issues between Well Cost, EDM and the Drilling applications. After uninstalling Well Cost, always run the installation repair programs for both EDM and the Drilling applications.

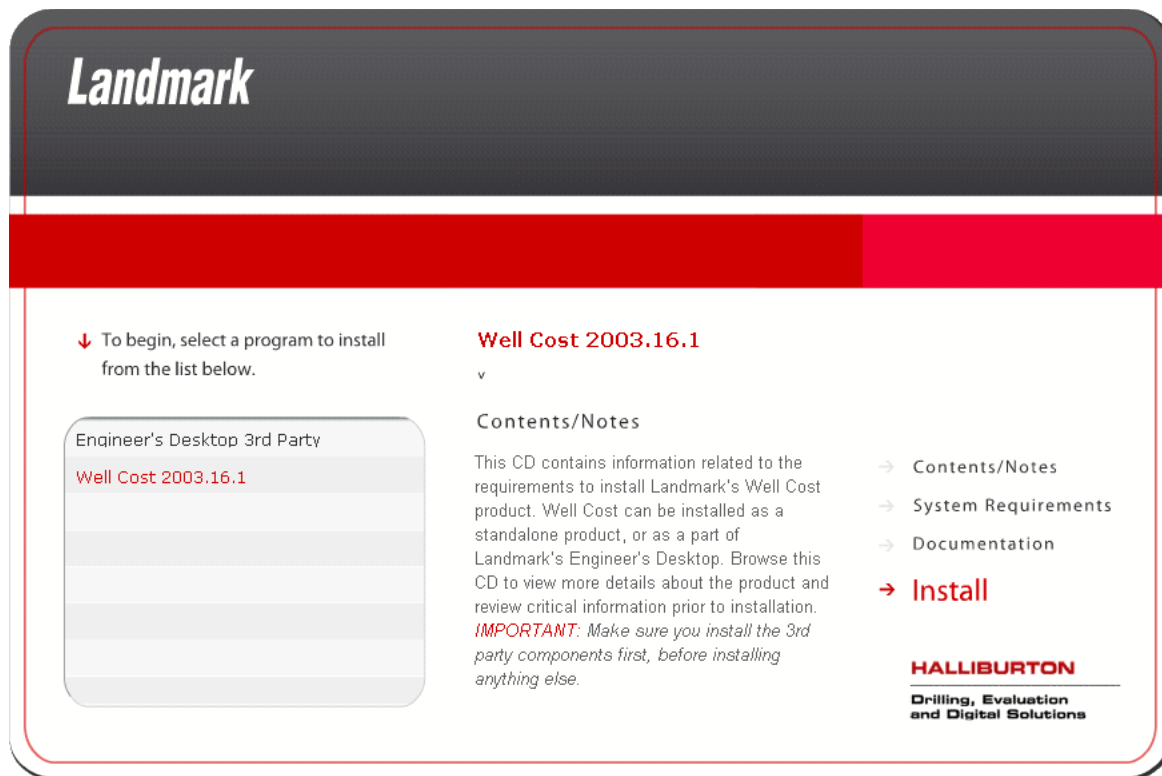
1. To start the Well Cost installation, insert the CD in the CDROM drive. The installation program will automatically start. Review the **System Requirements** and **Documentation** prior to selecting **Install**. If the installation program does not automatically start, double-click on the **Launch.exe** file located in the root directory of the CD to start the installation.

Note:

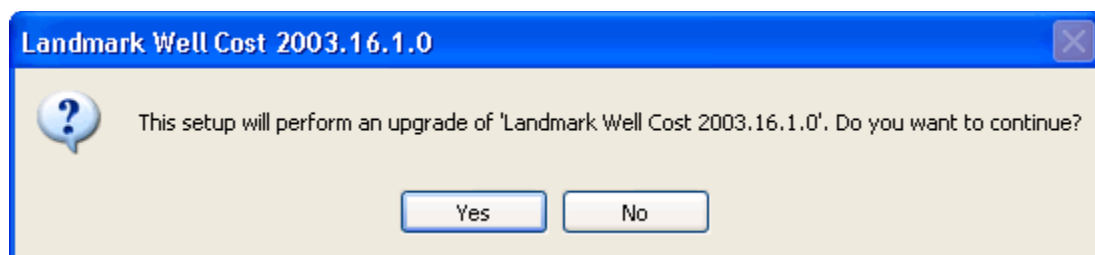
If the installation process is interrupted, such as is the case when a user selects **Cancel** during the installation process, the **Install** link on the CD browser will appear disabled. To enable the **Install** link, press the **Shift** key. Alternatively, press the **Esc** key to shutdown the CD browser. If the CD browser is shutdown, you will need to run the **Launch.exe** file from the CD root directory to start up the CD browser.

The Installation Wizard displays.

2. Select **Well Cost 2003.16.1** and then click on **Install** to proceed.

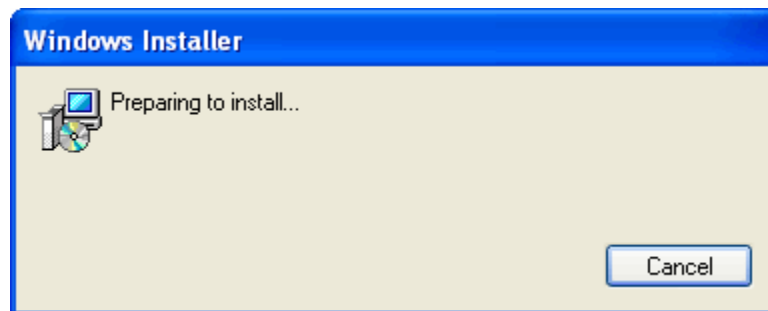


The installation detects that Well Cost is installed and displays a confirmation dialog.

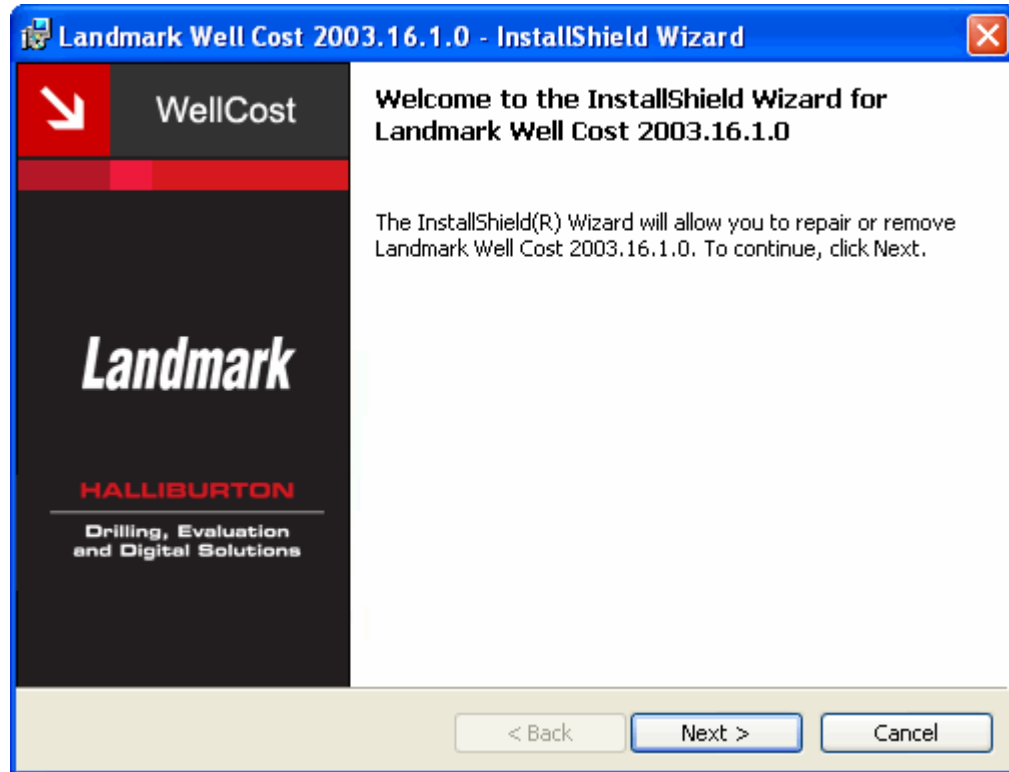


3. Click **Yes** to proceed.

A confirmation that the installation has begun displays with a progress bar, followed by another informational dialog.



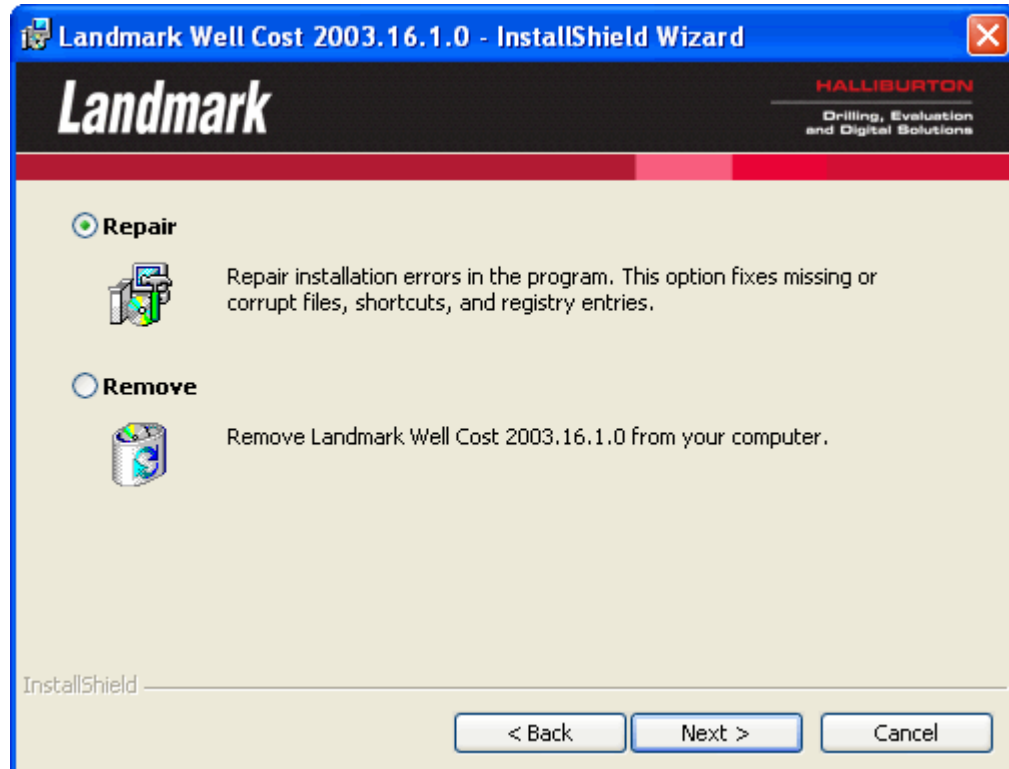
4. Click **Next** to proceed.



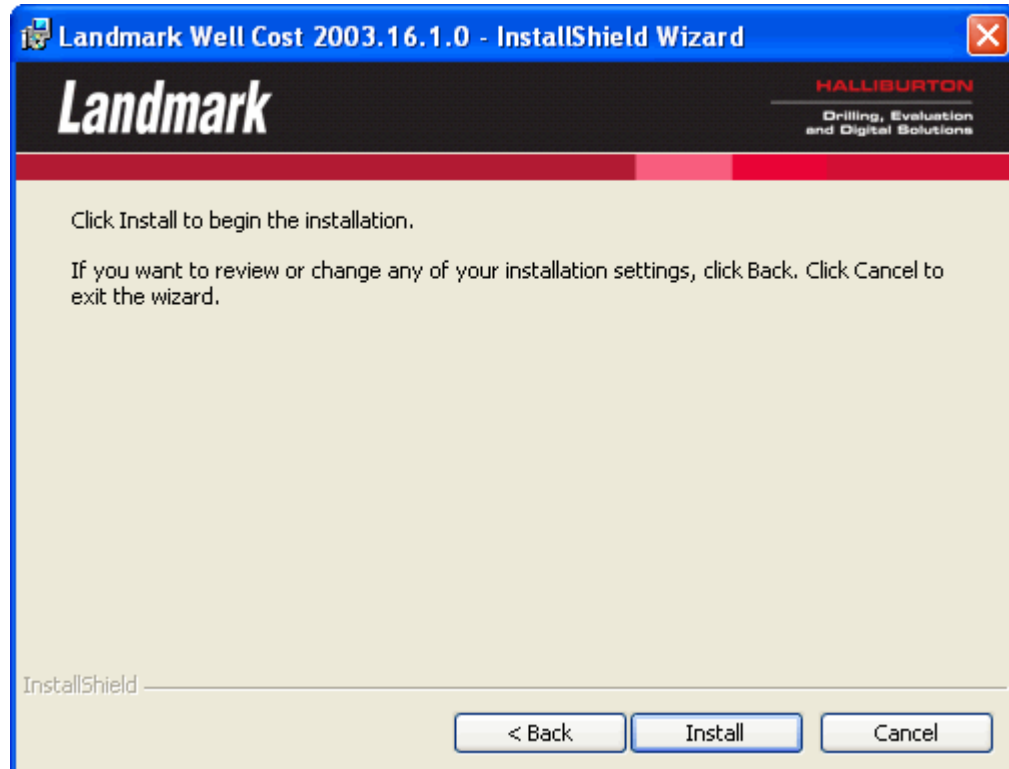
The next panel displays with two options:

- **Repair** - repairs the existing installation. The installation will run a validation routine on existing Well Cost files and registry keys then replace any that are missing or corrupt.

- **Remove** - removes Well Cost from the system.



5. Select the **Repair** option then click **Next** to proceed.



6. Click on **Install**.

The Well Cost repair process is run. At the end of the process, a prompt to reboot displays.

7. Reboot the system.
8. If errors take place after restart, review the remaining Troubleshooting topics and perform actions that relate to the problem(s). If errors display that are not mentioned in the Troubleshooting section, or continue to persist after troubleshooting actions are taken, contact Landmark Support.

Problems With Interrupting the Installation

If the installation was interrupted, you will not be able to log into Well Cost. The problem will usually be caused by rebooting when a popup window occurs prior to the Installation Wizard finishing.

Windows Automatic Updates

Landmark recommends disabling the Windows Automatic Updates feature if it is enabled prior to installing Well Cost. This reduces the possibility of receiving an error during the installation. After installation, Automatic Updates can be turned back on if needed. See Microsoft Help for details on how to disable and enable Windows Automatic Updates.

To correct the problem you will have to delete the installation key in the registry, and the Install Shield installation information in Program Files.

1. To edit the registry, select **Start > Run**, then type **regedit** and click the **OK** button.
2. Navigate to **HKEY_LOCAL_MACHINE\SOFTWARE > Microsoft > Windows > CurrentVersion > Uninstall**.
3. Look for the following application ID.

`{D67B33EE-126C-49B6-9CE3-FAF25F14BB77}`
4. When you click on the ID, which is on the left side of the dialog box, the DisplayName, on the right side of the dialog, should be "Landmark Well Cost 2003.16.1.0".
5. If you cannot find the ID listed in Step 3, you will need to click on each of the IDs and look at the DisplayName for each. When Landmark Well Cost appears as the DisplayName write down the ID.
6. To remove the ID, right click on the ID then select **Delete**.
7. Close the Registry window.
8. Open Windows Explorer.
9. Navigate to **C:\Program Files\InstallShield Installation Information\Well Cost 2003.16.1.0**. If you can see files in the directory, go to Step 11. If you cannot see files, go to Step 10.

10. To see the files in this directory you will need to unhide them. Select **Tools > Options** from the menu bar then click on the **View** tab. Select the radio button that says **Show hidden files and folders**, then click the **OK** button.
11. Look for the ID number in step 3 or the ID number you wrote down in step 5.
12. Right click on the ID, then select **Delete**.

Depending on where the installation was interrupted, you may have to follow step 13. Otherwise, skip to step 14
13. While in Windows Explorer go to the **Program Files\Landmark\Well Cost** directory. (If you defined another installation directory during the installation process you should navigate to that directory.) If the directory is present, right click on it then select **Delete**.
14. You will now need to reinstall Well Cost. Please make sure the Installation Wizard finishes before rebooting the computer.

Receiving an Error Message After Login

You may receive a message with the following title after logging into Well Cost.

```
Error: Unable to get Well Cost server status on  
host <Well Cost Server Name>.
```

This error message indicates a problem with the license server. There will be a text message in this error box that explains how to correct the problem. Instructions are also listed below.

To correct this problem:

1. Verify that the license file contains the license feature beginning with the name **WC_PROBABILISTIC** or **WC_DETERMINISTIC**, depending on the type of licence.
2. Verify that the license server is running and licenses are available.

Problems with Importing Files on Citrix

Wellpath and Formation import operations from a Citrix platform are usually not possible due to security permissions set by most Citrix configurations.

Workaround: Import files from directories located on network accessible drives.

Import from clipboard in Citrix works as designed.

Post-Installation Instructions

Post-installation instructions are provided to help you set up and configure Well Cost and other programs.

Time and Cost Configuration

By default, Well Cost ships with sample configuration files for Hole Phases (Default.wcp), Activities (Default.wca), and Cost (ODRDefault.wcc). The configuration data is loaded into the Time and Cost Configuration dialog and used by Well Cost to populate the spreadsheets on the Deterministic pane and Cost pane.

Phase Configuration

In Well Cost, Phases are associated to Hole Sections (Casing OD). The Phase Configuration tab contains a spreadsheet that acts as a configuration file for all phases loaded into Well Cost. For example, a company may wish to create several different configuration files to use that contain phases common to a specific project type.

Important!

The import operation will overwrite all existing data in the Phase Configuration spreadsheet. All data present in the spreadsheet replaced with the imported data.

Well Cost ships with the following sample Phase configuration file, located in the Well Cost installation directory:

Default.wcp - to view this file, import into the Phase Configuration tab or open it with a text editor.

Well Cost ignores the first two lines in the .WCP file, which are reserved for the headers that are populated by the application. Therefore it is important to realize that the starting point of the data begins on the third line of the imported file.

You can create custom Phase spreadsheets then save them as tab delimited text files. Rename the tab delimited text file with the .WCP extension. Be sure to follow the same convention used in the sample Default.wcp file: first two rows blank and the content in 6 columns ordered identical to the spreadsheet found on the Phase Configuration tab.

To import Phase Configuration data:

1. With a Design open, select **Planning and AFE > Time and Cost Configuration**.

The Time and Cost Configuration dialog displays.

2. Select the **Phase Configuration** tab.
3. Click on the **Import** button.

The Open dialog displays.

4. Navigate to the location of configuration text file and select the file.

Note

All default configuration files are located in the installation directory \Well Cost folder.

5. Click **Open**.

The data is imported and displays in the Phase Configuration tab. Manually edit the data as needed.

Notes

The data in the text file must be tab delimited to 6 entries, which match the columns in the spreadsheet.

Always check the imported data against the original text file to verify import success.

For more information about the fields and controls located on the Phase Configuration tab, see the “Phase Configuration Tab topic in *Well Cost Help*.

Activity Configuration

The Activity Configuration Tab contains a spreadsheet that lists all activities that are assigned to each phase. The Activities Configuration tab contains a spreadsheet that acts as a configuration file for all activities loaded into Well Cost. For example, a company may wish to set a wiper trip to occur every 1000 feet of drilling. This activity can be

entered in the Activity Configuration tab spreadsheet and then seen when Activities are loaded in the Deterministic spreadsheet.

Important!

Always group Activities by Phase Code to prevent unwanted behavior in Well Cost.

The import operation will overwrite all existing data in the Activity Configuration spreadsheet. All data present in the spreadsheet replaced with the imported data.

Well Cost ships with the following sample Activity configuration file, located in the Well Cost installation directory:

Default.wca - to view this file, import into the Activity Configuration tab or open it with a text editor.

Well Cost ignores the first two lines in the .WCA file, which are reserved for the headers that are populated by the application. Therefore it is important to realize that the starting point of the data begins on the third line of the imported file.

You can create custom Activity spreadsheets then save them as tab delimited text files. Rename the tab delimited text file with the .WCA extension. Be sure to follow the same convention used in the sample Default.wca file: first two rows blank and the content in 9 columns ordered identical to the spreadsheet found on the Phase Configuration tab. The last two columns in the sample file (code and subcode) are not displayed in the Activity Configuration tab.

To import Activity Configuration data:

1. With a Design open, select **Planning and AFE > Time and Cost Configuration**.

The Time and Cost Configuration dialog displays.

2. Select the **Activity Configuration** tab.
3. Click on the **Import** button.

The Open dialog displays.

4. Navigate to the location of configuration text file and select the file.

Note

All default configuration files are located in the installation directory \Well Cost folder.

Click **Open**.

The data is imported and displays in the Activity Configuration tab. Manually edit the data as needed.

Notes

The data in the text file must be tab delimited to 9 entries, which match the columns in the spreadsheet.

Always check the imported data against the original text file to verify import success.

For more information about the fields and controls located on the Activity Configuration tab, see the “Activity Configuration Tab” topic in *Well Cost Help*.

Cost

The Costs List tab is a record of all the costs loaded into Well Cost that are *not* custom cost items. Next to each cost item is a checkbox that serves as a toggle switch to display or remove the cost item from the Cost spreadsheet.

Well Cost ships with the following sample Cost file, located in the Well Cost installation directory:

ODRDefault.wcc - to view this file, open it with a text editor.

The .WCC file is automatically loaded at start up and provides input to the Cost Lists tab and the **Planning and AFE > Time and Cost > Cost** spreadsheet.

By default, all Cost Items are set to display in the Cost spreadsheet. To remove a cost item from the Cost spreadsheet, deactivate the checkbox next to the Cost Item in the Cost Lists tab.

To change the items in the Cost Lists tab:

- Create custom Cost spreadsheets then save each as a tab delimited text file. Rename the tab delimited text file with the .WCC extension. Be sure to follow the same convention used in the sample ODRDefault.wcc file: first two rows blank and the content in 9 columns ordered identical to the sample .WCC file. Only the Description displays in the Cost Lists tab, specified as “Cost Item”. All other columns display in the **Planning and AFE > Time and Cost > Cost** spreadsheet. Next, import the .WCC file and click on the **Save as Default** button.

Note

All default configuration files are located in the installation directory \Well Cost folder.

- Edit the cost items in the **Planning and AFE > Time and Cost > Cost** spreadsheet then click on the **Save as Default** button.

For more information about the Cost Lists tab, see the “Cost Lists Tab” topic in *Well Cost Help*.

Configuring Company Support Information

The **Help > Company** menu command points to a path configured in the Windows registry of the machine where Well Cost is installed. There are several options available to configure the display of Company support information:

- Edit the **CompanySupport.html** file saved to the \Well Cost\Documentation folder during installation
- Enter a new file located on any directory accessible by Well Cost on the network
- Enter the Company Support URL (web site address) in the Value field of the registry key

To configure the menu command path:

1. From the Windows Start menu, select **Start > Run**.

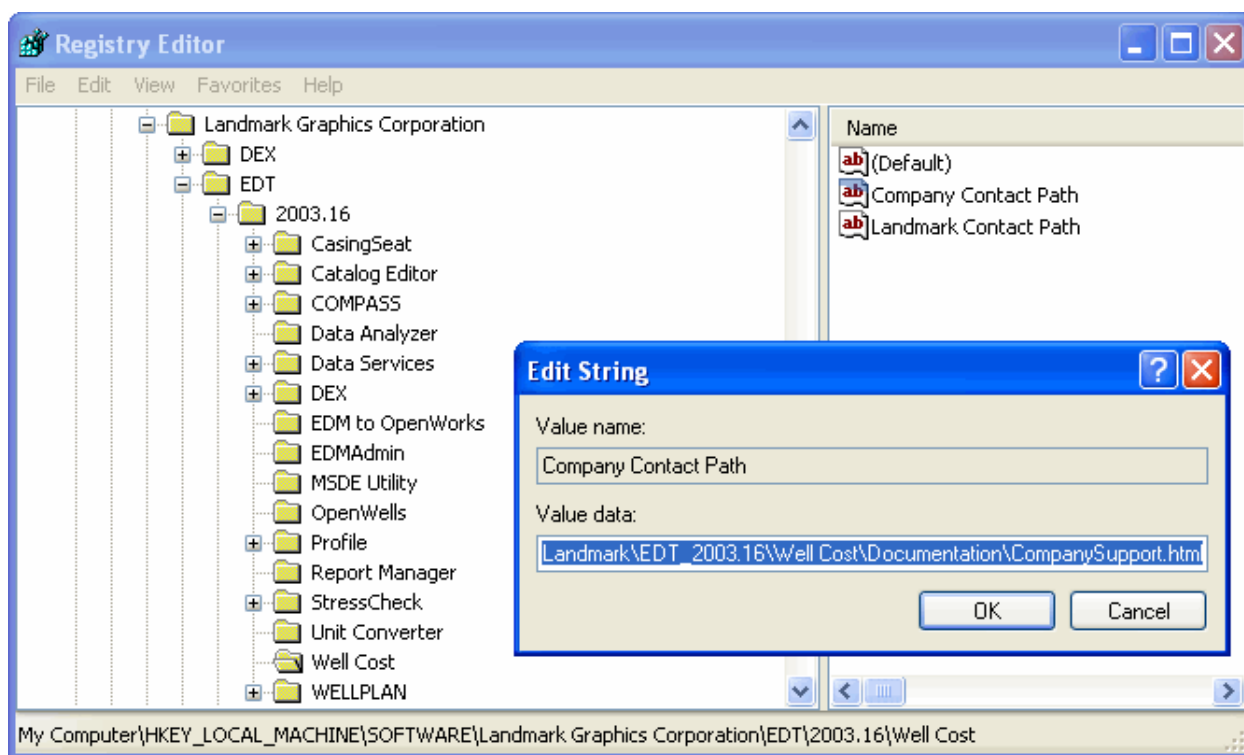
The Run dialog opens.

2. From the Run dialog, enter **regedit** in the Open field.
3. Click **OK** or press Enter on the keyboard.

The Windows Registry Editor opens.

4. From the tree in the left pane, navigate to **HKEY_LOCAL_MACHINE > SOFTWARE**.
5. Click on the **Landmark Graphics Corporation** folder.
6. From the right pane, double-click on the **Company Contact Path** registry key.

The Edit String dialog displays.



7. Review the default path in the Value data field and change if needed.

Note

The default path is the directory path chosen during the Well Cost installation (e.g. \Landmark\EDT_2003.16\Well Cost\Documentation\CompanySupport.html)

8. Click **OK**.
9. Close the Windows Registry Editor (save the registry if prompted).

Note

The same process described above for the Company Support page can also be applied to the Landmark Support page. The default path is the directory path chosen during the Well Cost installation (e.g. \Landmark\EDT_2003.16\Well Cost\Documentation\LgcSupport.html)

10. Save the new Company Support file with the specified file name in the directory chosen in step 7. If a URL was chosen, make sure the file exists on the web server.