

Oracle® Database

Client Quick Installation Guide

10g Release 2 (10.2) for Microsoft Windows (x64)

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This guide describes how to quickly install the Oracle Database Client product on Windows x64 systems. It includes information about the following:

1. [Review Information About this Guide](#)
2. [Hardware Requirements](#)
3. [Software Requirements](#)
4. [Install the Oracle Database Client Software](#)
5. [What's Next?](#)
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1 Review Information About this Guide

Note: This guide describes how to install Oracle Database Client on a system that does not have any Oracle software installed on it. If there is an existing Oracle software installation on this system, see *Oracle Database Client Installation Guide for Microsoft Windows (x64)* for more detailed installation instructions.

This guide describes how to complete a default installation of Oracle Database Client in a new Oracle home directory. It describes how to perform one of the following installation types:

- **Instant Client:** Enables you to install only the shared libraries required by Oracle Call Interface applications that use the Instant Client feature. This installation type requires much less disk space than the other Oracle Database Client installation types.

Instant Client includes Instant Client Light. You may want to use this version of Instant Client if your applications will generate error messages in American English only. The advantage of using Instant Client Light is that it has a smaller footprint than regular Instant Client: its shared libraries, which your applications must load, are only 30–32 MB as opposed to the 216 MB that regular Instant Client uses. Hence, your applications use less memory.

- **Administrator:** Enables applications to connect to an Oracle database on the local system or on a remote system. It also provides tools that let you administer an Oracle database.

- **Runtime:** Enables applications to connect to an Oracle database on the local system or on a remote system.

See Also: *Oracle Call Interface Programmer's Guide* for more information about the Instant Client feature

Where to Get Additional Installation Information

For more detailed information about installing Oracle Database Client, see *Oracle Database Client Installation Guide for Microsoft Windows (x64)*.

This guide is available on the product compact disc. To access it, use a Web browser to open the `welcome.htm` file, either in the top-level directory on the CD-ROM or in the `client` directory on the DVD, then select the **Documentation** tab.

2 Hardware Requirements

[Table 1](#) lists the required hardware components for Oracle Database Client.

Table 1 Hardware Requirements

Requirement	Minimum Value
Physical memory (RAM)	512 MB minimum, 1 GB recommended On Windows Vista and Windows Server 2008, the minimum requirement is 1 GB.
Virtual memory	Double the amount of RAM
Hard disk space	Total ranges from 280–855 MB. See Table 2 for details.
Video adapter	256 colors
Processor	AMD64, or Intel Extended memory (EM64T)

2.1 Hard Disk Space Requirements

This section lists system requirements for Windows platforms that use the NT File System (NTFS) file systems. FAT32 space requirements are slightly larger. Oracle recommends installing Oracle components on NTFS. NTFS allows for strong security of database files, trace files, incident data, and so on, stored in Oracle home.

The NTFS system requirements listed in this section are more accurate than the hard disk values reported by the Oracle Universal Installer Summary window. The Summary window does not include the space required to create a database or the size of compressed files that are expanded on the hard drive.

The hard disk requirements for Oracle Database Client components include space required to install Java Runtime Environment (JRE) and Oracle Universal Installer on the partition where the operating system is installed. If sufficient space is not detected, then installation fails and an error message appears.

[Table 2](#) lists the space requirements for NTFS.

Table 2 Disk Space Requirements for NTFS

Installation Type	TEMP Space	SYSTEM_ DRIVE:\Program Files\Oracle\Inventory	Oracle Home	Total
Instant Client	100 MB	5 MB	175 MB	280 MB
Administrator	100 MB	5 MB	750 MB	855
Runtime	100 MB	5 MB	350 MB	455
Custom (all components installed)	100 MB	5 MB *	650 MB *	755 MB *

* This size varies, depending on the on the installation components selected.

See Also: "About NTFS File System and Windows Registry Permissions" in *Oracle Database Platform Guide for Microsoft Windows (x64)*

To ensure that the system meets these requirements, follow these steps:

1. Determine the physical RAM size. For a computer using Windows 2003, for example, open **System** in the Windows Control Panel and select the **General** tab. If the size of the physical RAM installed in the system is less than the required size, then you must install more memory before continuing.
2. Determine the size of the configured virtual memory (also known as paging file size). For a computer using Windows 2003, for example, open **System** in the Control Panel, select the **Advanced** tab, and click **Settings** in the **Performance** section. Then select the **Advanced** tab. The virtual memory is listed in the **Virtual Memory** section.

If necessary, see your operating system documentation for information about how to configure additional virtual memory.

3. Determine the amount of free disk space on the system. For a computer using Windows 2003, for example, open **My Computer**, right-click the drive where the Oracle software is to be installed, and choose **Properties**.
4. Determine the amount of disk space available in the `temp` directory. This is equivalent to the total amount of free disk space, minus what will be needed for the Oracle software to be installed.

If there is less than 100 MB of disk space available in the `temp` directory, then first delete all unnecessary files. If the temp disk space is still less than 100 MB, then set the `TEMP` or `TMP` environment variable to point to a different hard drive. For a computer using Windows 2003, for example, open **System** in the Control Panel, select the **Advanced** tab, and click **Environment Variables**.

3 Software Requirements

[Table 3](#) lists the software requirements for Oracle Database Client.

Table 3 Software Requirements

Requirement	Value
System Architecture	<p>Processor: AMD64, or Intel Extended memory (EM64T)</p> <p>Note: Oracle provides 32-bit (x86), 64-bit (Itanium), and 64-bit (x64) versions of Oracle Database for Microsoft Windows. Oracle certifies the 32-bit Oracle Database client on 64-bit Windows (x64). For additional information, visit Oracle <i>MetaLink</i> at: http://metalink.oracle.com</p>
Operating System	<p>Oracle Database for Windows x64 is supported on the following operating systems:</p> <ul style="list-style-type: none">■ Windows Server 2003, Standard x64 Edition■ Windows Server 2003, Enterprise x64 Edition■ Windows Server 2003, Datacenter x64 Edition■ Windows XP Professional x64 Edition■ Windows Vista x64, Service Pack 1 - Business, Enterprise, and Ultimate editions■ Windows Server 2008 x64 - Standard, Enterprise, Datacenter, Web, Standard without Hyper-V, Enterprise without Hyper-V, and Datacenter without Hyper-V editions <p>The specific operating system components that are not supported are Windows Server 2008 x64 Hyper-V and Server Core.</p> <p>Windows Multilingual User Interface Pack is supported on Windows Server 2003, Windows XP, Windows Vista, and Windows Server 2008.</p>
Compiler	<p>The following components are supported with the Windows 2003 Microsoft Platform SDK or later compiler and Intel compiler 8.1:</p> <ul style="list-style-type: none">■ Oracle C++ Call Interface■ Oracle Call Interface■ External callouts■ PL/SQL native compilation■ Pro*C■ XDK <p>Pro*COBOL is supported with Net Express 5.0 from 10.2.0.4 release on Windows x64.</p> <p>GNU Compiler Collection (GCC) and Object Oriented COBOL (OOCOBOL) specifications are not supported.</p>
Network Protocol	<p>The Oracle Net foundation layer uses Oracle protocol support to communicate with the following industry-standard network protocols:</p> <ul style="list-style-type: none">■ TCP/IP■ TCP/IP with SSL■ Named Pipes

3.1 Instant Client Light Language and Character Set Requirements

In addition to the requirements described in the previous section, if you plan to use Instant Client Light, your applications must use the following languages and character sets:

- **Language:** US English
- **Territory:** Any territory that is supported by Oracle
- **Character sets:**
 - Single byte
 - * US7ASCII
 - * WE8DEC
 - Unicode
 - * UTF8
 - * AL16UTF16
 - * AL32UTF8

The language, territory, and character sets are determined by the `NLS_LANG` parameter, which is stored in the registry under the `HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE\HOMEID\NLS_LANG` subkey, where `ID` is the unique number identifying the Oracle home.

Caution: AL32UTF8 is the Oracle Database character set that is appropriate for XMLType data. It is equivalent to the IANA registered standard UTF-8 encoding, which supports all valid XML characters.

Do not confuse Oracle Database database character set UTF8 (no hyphen) with database character set AL32UTF8 or with character encoding UTF-8. Database character set UTF8 has been superseded by AL32UTF8. Do not use UTF8 for XML data. UTF8 supports only Unicode version 3.1 and earlier; it does not support all valid XML characters. AL32UTF8 has no such limitation.

Using database character set UTF8 for XML data could potentially cause a fatal error or affect security negatively. If a character that is not supported by the database character set appears in an input-document element name, a replacement character (usually "?") is substituted for it. This will terminate parsing and raise an exception.

4 Install the Oracle Database Client Software

The following sections describe how to install the Oracle software:

- [Reviewing Product-Specific Installation Guidelines](#)
- [Procedure for Installing Oracle Database Client](#)

4.1 Reviewing Product-Specific Installation Guidelines

Review the following guidelines before starting Oracle Universal Installer:

Note: If you perform a Custom installation, then ensure that you install only the components covered by your license. You can not install Standard Edition using Custom installation.

- Do not use Oracle Universal Installer from an earlier Oracle product release to install components from this release.
- If you reinstall Oracle software into an Oracle home directory where Oracle Database Client is already installed, then you must also reinstall any components that were installed before you began the reinstallation.

Note: Windows Vista and Windows Server 2008 require Administrator privileges at the command prompt.

4.2 Procedure for Installing Oracle Database Client

To install Oracle Database Client:

1. Log on as a member of the Administrators group to the computer on which to install Oracle components.

If you are installing on a Primary Domain Controller (PDC) or a Backup Domain Controller (BDC), log on as a member of the Domain Administrators group.

2. Insert the Oracle Database installation media and navigate to the `client` directory. Alternatively, navigate to the directory where you downloaded or copied the installation files.

Use the same installation media to install Oracle Database on all supported Windows platforms.

3. Double-click `setup.exe` to start Oracle Universal Installer.
4. In the Welcome window, click **Next**.
5. In the Select Installation Type window, select the type of installation that you want—**Instant Client**, **Administrator**, **Runtime**, or **Custom**—and click **Next**.
6. In the Specify Home Details window, do the following:

- **Name:** Enter the name of the Oracle home.

Install Oracle Database Client into a new Oracle home, even if you are installing onto a computer that has existing Oracle components installed. Oracle Database Client can be installed in the same Oracle Database home if both products are at the same release level. For example, you can install Oracle Database Client 10g Release 2 (10.2) into an existing Oracle Database 10g Release 2 (10.2) home. If you apply a patch set before installing the client, then you must apply the patch set again.

Do not install Oracle Database Client 10g release 2 (10.2) software into an existing Oracle home that contains Oracle9i or earlier software. You can install Oracle Database Client into an existing Oracle home that contains Oracle Database Client 10g release 1 (10.1) software, so long as Oracle Database is not installed in the same home.

- **Path:** Enter the directory location for the Oracle home files. Do not include spaces in the path name.

7. Click **Next**.
8. If you selected **Custom** in Step 5, in the Available Product Components window, select the components you want to install and click **Next** or **Install**.
9. In the Product-specific Prerequisite Checks window, correct any errors that Oracle Universal Installer may have found, and then click **Next**.
10. In the Summary window, check the installed components listing and click **Install**.
11. If you selected the **Administrator**, **Runtime**, or **Custom** installation types, follow Steps 12 to 20 to complete the Oracle Net Configuration Assistant procedure.

If you selected the **Instant Client** installation type, go to Step 21. After you complete the installation, you can follow the steps under "Connecting Instant Client or Instant Client Light to an Oracle Database" in *Oracle Database Client Installation Guide for Microsoft Windows (x64)* to configure the database connection.

12. In the Oracle Net Configuration Assistant: Welcome window, either select **Perform typical configuration** to use a default configuration, or use the Naming Methods configuration option. Then click **Next**. (The remaining steps in this procedure assume you are using Naming Methods.)
13. In the Naming Methods Configuration, Select Naming Methods window, select the naming method you want and then click **Next**.
14. In the Net Service Name Configuration, Service Name window, enter the name of the database service to which you want to connect. Click **Next**.
15. In the Net Service Name Configuration, Select Protocol window, depending on the protocol you selected, enter the appropriate information and click **Next**.
16. In the Net Service Name Configuration, TCP/IP Protocol window, enter the host name of the computer where the Oracle database is installed. Specify the port number, then click **Next**.

In most cases, **Local Naming** is sufficient.

For example, to connect to a database named `sales`, enter `sales`.

17. In the Net Service Name Configuration, Test window, click **Yes** to perform a test of the connection. Then click **Next**.
18. In the Connecting window, click **Next**.
19. In the Net Service Name window, enter the name of the net service name to use.
20. Answer the remaining prompts to complete the configuration.

21. In the End of Installation window, click **Exit**, then click **Yes** to exit from Oracle Universal Installer.
22. Optionally, delete the `OraInstalldate_time` directory if you want to remove the temporary files that were created during the installation process. The `OraInstalldate_time` directory holds about 50.5 MB of files. This directory is created in the location set by the `TEMP` environment variable setting.

Restarting your computer also removes the `OraInstalldate_time` directory.

5 What's Next?

After you have successfully installed Oracle Database Client, refer to Chapter 4, "Postinstallation Tasks" in *Oracle Database Client Installation Guide for Microsoft Windows (x64)* for information about required and optional postinstallation steps.

6 Documentation Accessibility

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