

# Oracle® Database

Client Quick Installation Guide

11g Release 2 (11.2) for Microsoft Windows (32-Bit)

E10876-01

March 2010

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This guide describes how to quickly install the Oracle Database Client product on 32-bit Windows systems. It includes information about the following:

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

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**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* for more detailed installation instructions.

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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.
- **Custom:** Enables you to select individual components from the list of Administrator and Runtime components.

**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*.

This guide is available on the product media. To access it, use a Web browser to open the `welcome.html` file, either from the top-level directory of the installation media or from the `client` directory of the installation media.

## 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 7, 1 GB minimum
Virtual memory	Double the amount of RAM
Hard disk space	Total ranges between 276–826 MB. See <a href="#">Table 2</a> for details.
Processor Type	Intel-compatible processor
Video adapter	256 colors
Screen Resolution	1024 X 768 minimum

### 2.1 Hard Disk Space Requirements

This section lists system requirements for Windows platforms that use the NT File System (NTFS). Oracle strongly recommends that you install the Oracle database home (Oracle database binaries, trace files, and so on) on Oracle ACFS or NTFS; the database files themselves must be placed on Oracle ASM if using Oracle ACFS; otherwise they can be placed on NTFS. Usage of Oracle ACFS and Oracle ASM or NTFS instead of FAT32 is recommended to ensure security of these files.

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 accurate values for disk space, 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 on NTFS.

**Table 2 Disk Space Requirements on NTFS**

Installation Type	TEMP Space	SYSTEM_ DRIVE:\Program Files\Oracle\Inventory	Oracle Home	Total
Instant Client	100 MB	1.1 MB	175 MB	276 MB
Administrator	100 MB	1.1 MB	725 MB	826 MB
Runtime	100 MB	1.1 MB	475 MB	576 MB
Custom (all components installed)	100 MB	1.1 MB *	580 MB *	681 MB *

\* Disk space requirements vary, depending on the components selected.

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

## 2.2 Verifying Hardware Requirements

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

1. Determine the physical RAM size. For example, on a Windows 2003 computer, double-click **System** in the Windows Control Panel and select the **General** tab.

On a Windows Server 2008 R2 computer, click **System and Security** in the Windows Control Panel, then click **System**.

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 example, on a Windows 2003 computer, double-click **System**, click the **Advanced** tab, and click **Settings** in the Performance section. Then select the **Advanced** tab.

On a Windows Server 2008 R2 computer, click **System and Security**, then click **System**, click **Advanced System Settings**, click the **Advanced** tab on System Properties page, and then click **Settings** in the Performance section. Then select the **Advanced** tab on Performance Options page.

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 example, on a Windows 2003 computer, double-click **My Computer**, right-click the drive where the Oracle software is to be installed, and select **Properties**.

On a Windows Server 2008 R2 computer, right-click **My Computer** and click **Open**.

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 500 MB of disk space available in the temp directory, then delete all unnecessary files. If the temp disk space is still less than 500 MB, then set the TEMP or TMP environment variable to point to a different hard drive location.

For example, to change the environment variables on a Windows Server 2003 computer, double-click **System**, click the **Advanced** tab, and click **Environment Variables**

On a Windows Server 2008 R2 computer, click **System and Security**, then click **System**, click **Advanced System Settings**, click the **Advanced** tab on System Properties page, and then 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: Intel (x86), AMD64, and Intel EM64T</p> <p><b>Note:</b> Oracle provides 32-bit (Windows x86) and 64-bit (Windows x64) versions of Oracle Database Client. The 32-bit database client version runs on the 32-bit version of Windows on either x86 or x64 hardware. Oracle certifies 32-bit Oracle Database Client on Windows x64.</p>
Operating System	<p>Oracle Database Client for Windows is supported on the following operating systems:</p> <ul style="list-style-type: none"> <li>■ Windows Server 2003 - all editions</li> <li>■ Windows Server 2003 R2 - all editions</li> <li>■ Windows XP Professional</li> <li>■ Windows Vista - Business, Enterprise, and Ultimate editions</li> <li>■ Windows Server 2008 - Standard, Enterprise, Datacenter, Web, and Foundation editions. The specific operating system component that is not supported is Server Core. For information about Hyper-V support, visit My Oracle Support (formerly Oracle<i>MetaLink</i>) at <a href="https://support.oracle.com">https://support.oracle.com</a></li> <li>■ Windows 7 - Professional, Enterprise, and Ultimate editions</li> </ul> <p>Windows Multilingual User Interface Pack is supported.</p>

**Table 3 (Cont.) Software Requirements**

<b>Requirement</b>	<b>Value</b>
Compiler	<p>Pro*Cobol has been tested and certified with Net Express 5.0.</p> <p>Object Oriented COBOL (OOCOBOL) specifications are not supported.</p> <p>The following components are supported with the Microsoft Visual C++ .NET 2005 8.0, Microsoft Visual C++ .NET 2008 9.0, and Intel 10.1 C compilers:</p> <ul style="list-style-type: none"><li>■ Oracle Call Interface</li><li>■ External callouts</li><li>■ Pro*C/C++</li><li>■ XDK</li></ul> <p>Oracle C++ Call Interface is supported with</p> <ul style="list-style-type: none"><li>■ Microsoft Visual C++ .NET 2005 8.0</li><li>■ Microsoft Visual C++ .NET 2008 9.0 - OCCI libraries are installed under <i>ORACLE_HOME\oci\lib\msvc\vc9</i>. When developing OCCI applications with MSVC++ 9.0, ensure that the OCCI libraries are correctly selected from this directory for linking and executing.</li><li>■ Intel 10.1 C++ compiler with the relevant Microsoft Visual C++ .NET STLs.</li></ul>
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"><li>■ TCP/IP</li><li>■ TCP/IP with SSL</li><li>■ Named Pipes</li></ul>

### **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, the applications must use the following languages and character sets:

- **Language:** Any language that is supported by Oracle, but only US English error messages are returned for errors generated on the client side.
- **Territory:** Any territory that is supported by Oracle.
- **Character sets:**
  - Single byte
    - \* US7ASCII
    - \* WE8DEC
    - \* WE8ISO8859P1
    - \* WE8MSWIN1252
  - Unicode
    - \* UTF8
    - \* AL16UTF16

\* AL32UTF8

Instant Client Light can connect to databases having one of the following database character sets. An error is returned if a character set other than those in the list is used as the client or database character set.

- US7ASCII
- WE8DEC
- WE8MSWIN1252
- WE8ISO8859P1
- WE8EBCDIC37C
- WE8EBCDIC1047
- UTF8
- AL32UTF8

Instant Client Light can also operate with the OCI Environment handles created in the OCI\_UTF16 mode.

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\KEY\_HomeName\NLS\_LANG subkey, where HomeName is the unique name identifying the Oracle home.

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**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 an irrecoverable 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 terminates parsing and raises an exception.

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## 4 Web Browser Support

The following Web browsers are supported for Oracle Enterprise Manager Database Control:

- Microsoft Internet Explorer 6.0 SP2
- Microsoft Internet Explorer 7.0
- Microsoft Internet Explorer 7.0 SP1
- Microsoft Internet Explorer 8.0
- Netscape 8.1
- Netscape 9.0

- Firefox 2.0
- Firefox 3.0.7
- Safari 3.0.4
- Safari 3.1
- Safari 3.2

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**Note:** Microsoft Internet Explorer 7.0 is the only web browser certified on Windows Vista.

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## 5 Install the Oracle Database Client Software

The following sections describe how to install the Oracle software:

- [Guidelines for Installing Oracle Database Client](#)
- [Procedure for Installing Oracle Database Client](#)

### 5.1 Guidelines for Installing Oracle Database Client

In most cases, you use the graphical user interface (GUI) provided by Oracle Universal Installer to install Oracle Database Client. However, you can also use Oracle Universal Installer to complete silent or noninteractive installations using a response file, without using the GUI. This method is particularly useful if you need to perform multiple installations of Oracle Database Client.

As you install Oracle Database Client, follow these guidelines:

**See Also:** Appendix B, "Installing Oracle Database Client Using Response Files" in *Oracle Database Client Installation Guide for Microsoft Windows* for information on silent or noninteractive installations

- Do not use Oracle Universal Installer from an earlier Oracle product release to install components from this release.
- Use the same installation media to install Oracle Database Client on all supported Windows platforms.
- If you reinstall Oracle software into an Oracle home directory where Oracle Database Client is already installed, you must reinstall any components that were installed before you began the reinstallation.
- Do not modify the Java Runtime Environment (JRE) except by using a patch provided by Oracle Support Services. Oracle Universal Installer automatically installs the Oracle-supplied version of the JRE. This version is required to run Oracle Universal Installer and several Oracle assistants.
- If you encounter errors during installation, click **Help** or see Appendix D, "Troubleshooting the Oracle Database Client Installation" in *Oracle Database Client Installation Guide for Microsoft Windows* for advice.
- Products not installed by default, in case of Custom installation:
  - Oracle Connection Manager
  - Oracle Net Listener

- Oracle Scheduler Agent
- Oracle Services for Microsoft Transaction Server
- Oracle Counters for Windows Performance Monitor

## 5.2 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 you want 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 Client 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 Select Installation Type screen, select the type of installation that you want: Instant Client, Administrator, Runtime, or Custom and click **Next**.

**See Also:** "Oracle Database Client Installation Types" section in *Oracle Database Client Installation Guide for Microsoft Windows* for more information on these installation types

5. The Select Product Languages screen enables you to select the language in which you want to run the product.

Select the product language from the Available Languages list, transfer it to the Selected Languages list. Click **Next**.

This screen is not displayed if you select Instant Client as the type of installation in step 4.

6. In the Specify Installation Location screen, enter the following details:

Oracle Base: This path appears by default. You can change the path based on your requirement.

The Oracle Base section is not displayed if you select Instant Client as the type of installation in step 4.

In the **Software Location** section, accept the default values or enter the Oracle home name and directory path in which you want to install Oracle components. The directory path should not contain spaces. Click **Next**.

7. If you selected Custom as the type of installation in step 4, in the Available Product Components screen, select the components you want to install and click **Next** or **Install**.

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**Note:** Starting with Oracle Database 11g Release 2 (11.2), you can install Oracle Connection Manager, Oracle Net Listener, and Oracle Scheduler Agent using the Custom install option.

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8. In step 7, if you select Oracle Scheduler Agent as one of the components that you want to install, then the Oracle Database Scheduler Agent screen is displayed. Enter the Scheduler Agent Host Name, and the Scheduler Agent Port Number. Click **Next**.
9. The Perform Prerequisite Checks screen verifies if your computer meets the minimum system requirements to install the desired product. From the list, select one of the following options:
  - Show Failed: To get a failed prerequisites list.
  - Show All: To get a list of all the prerequisite checks run.
  - Show Succeeded: To get a list of the prerequisite checks that were successful.Click **Next**.
10. Review the information displayed in the Summary screen, and click **Finish**.

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**Note:** Starting with Oracle Database 11g Release 2 (11.2), you can save all the installation steps into a response file by clicking **Save Response File**. Later, this file can be used for a silent installation.

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11. The Install Product screen shows the progress of a client installation. After Oracle Database Client is installed, click **OK**.
12. In the Finish screen, click **Close** to exit from Oracle Universal Installer.

## 6 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* for information about required and optional postinstallation steps.

## 7 Documentation Accessibility

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E10876-01

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