Contents

Send Us Your Comments........................................................................................................ v

Preface........................................................................................................................................ xiii

1 Introducing Oracle8/Client
   Supported Operating Systems ................................................................................................. 1-2
   New Features and Components on Windows ............................................................................ 1-3
      What Is New With 8.1.7? ...................................................................................................... 1-3
      What Is New With 8.1.6? .................................................................................................... 1-4
   What Documentation Do I Read First? ................................................................................... 1-6
      Viewing Documentation on the CD-ROM ........................................................................... 1-7

2 Installation Overview
   Oracle Universal Installer ....................................................................................................... 2-2
   Installation Types Available for Installation ......................................................................... 2-3
      Licensing Information ......................................................................................................... 2-3
   Oracle Universal Installer Component Installation Overview ............................................. 2-4
   Getting Started with Installation ......................................................................................... 2-5
3 Installation Requirements

System Requirements for FAT and NTFS File Systems .......................................................... 3-2
Oracle8i Client ..................................................................................................................... 3-3
Migration and Upgrade Requirements ................................................................................... 3-4
Mandatory Individual Component Requirements .................................................................. 3-4
Single Oracle Home Components ......................................................................................... 3-6
Networking Protocol Vendor Requirements ....................................................................... 3-7

4 Selecting Net8 Configuration Methods

Network Configuration Methods ........................................................................................... 4-2
Selecting a Net8 Configuration Method ............................................................................... 4-3
Client Network Configuration ............................................................................................. 4-4

5 Installing Oracle Components and Documentation

Installation Differences Between Windows NT and UNIX .................................................. 5-2
Keyboard Navigation ............................................................................................................ 5-2
Preinstallation Tasks ............................................................................................................ 5-3
Installing Oracle8i Client ...................................................................................................... 5-5
  Administrator, Programmer, or Application User ............................................................. 5-6
  Custom ............................................................................................................................... 5-7
  Reviewing a Log of an Installation Session ...................................................................... 5-9
Installing and Viewing the Oracle8i Client Online Documentation .................................. 5-10
  Installing the Oracle8i Client Online Documentation ..................................................... 5-10
  Installing a Web Browser and Adobe Acrobat Reader .................................................... 5-11
  Viewing Documentation With a Web Browser ................................................................. 5-12
  Viewing Documentation Without a Web Browser ........................................................... 5-13

6 Post-installation Configuration Tasks

Setting NTFS File System and Windows NT Registry Permissions ................................... 7-2
  NTFS File System Security ............................................................................................... 7-2
  Windows NT Registry Security ......................................................................................... 7-3
Individual Component Post-installation Configuration Tasks ............................................ 7-4
7 Deinstalling Oracle Components and Services

Deinstalling Oracle Components with Oracle Universal Installer ........................................... 8-2
  Task 1: Deinstall Net8 Services and Registry Entries ......................................................... 8-2
  Task 2: Deinstall Components with Oracle Universal Installer ....................................... 8-3
Manually Removing All Oracle Components and Services from Your Computer ........ 8-4
  Removing Components on Windows NT ............................................................................ 8-4
  Removing Components on Windows 95 or Windows 98 .................................................. 8-6

A Individual Components Available for Installation

Oracle8i Client Components .................................................................................................. A-2
Components Not Available with 8.1.7 .................................................................................. A-6

B Individual Component Descriptions

Component Descriptions ..................................................................................................... B-2

C Advanced Installation Topics

Installing Oracle Components in Non-Interactive Mode ...................................................... C-2
  Copying and Modifying a Response File ........................................................................... C-2
  Running Oracle Universal Installer and Specifying a Response File ............................ C-3
Customizing Installations with Oracle Software Packager .............................................. C-4
Installing and Using Oracle Components in Different Languages ................................. C-5
  Running Oracle Universal Installer in Different Languages ...................................... C-5
  Using Oracle Components in Different Languages ..................................................... C-6

D National Language Support

NLS_LANG Parameters ........................................................................................................ D-2
Commonly Used Values for NLS_LANG .............................................................................. D-3
NLS_LANG Settings in MS-DOS Mode and Batch Mode ................................................... D-5
E  Installing and Removing Legato Components

LSM Server ........................................................................................................................................... E-2
  Updating LSM Server ........................................................................................................... E-2
  Installing LSM Server .......................................................................................................... E-3
  Removing LSM Server ........................................................................................................... E-5
LSM Administrator GUI .................................................................................................................... E-6
  Updating LSM Administrator GUI ............................................................................................ E-6
  Installing LSM Administrator GUI ........................................................................................... E-7
  Removing LSM Administrator GUI ........................................................................................... E-8

F  Getting Started with Your Documentation

Documentation Formats .................................................................................................................... F-2
Documentation Types ........................................................................................................................ F-3
  Online Documentation Set ........................................................................................................ F-4
    Oracle8i Client for Windows .................................................................................................. F-5
    Oracle8i Documentation Addendum ................................................................................... F-6
    Oracle8i Generic Documentation Master Index and Master Glossary ................................ F-6
    Oracle8i Server and SQL*Plus ............................................................................................. F-6
    Oracle8i Server Application Development .................................................................... F-7
    Oracle8i Directory, Networking, and Security ................................................................. F-8
    Oracle Enterprise Manager ................................................................................................. F-8
    Oracle8i Java Documentation ............................................................................................... F-9
    Oracle8i Integration Server ................................................................................................ F-9
    Oracle8i Parallel Server ....................................................................................................... F-10
    Oracle8i interMedia, Spatial, Time Series, and Visual Information Retrieval Options .... F-10
    Oracle WebDB ......................................................................................................................... F-11

Glossary

Index
Send Us Your Comments

**Oracle8i Client Installation Guide, Release 3 (8.1.7) for Windows NT**

Part No. A85303-01

This document describes how to contact Oracle Corporation if you have issues with the documentation or software. It also provides a list of useful resources for Oracle partners and developers.

<table>
<thead>
<tr>
<th>Read the section...</th>
<th>If you...</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;How to Contact Oracle Technical Publications&quot; on page viii</td>
<td>Have issues with Documentation</td>
</tr>
<tr>
<td>&quot;How to Contact Oracle Support Services&quot; on page ix</td>
<td>Have issues with Software</td>
</tr>
<tr>
<td>&quot;Resources for Oracle Partners and Developers&quot; on page xii</td>
<td>Want to join an Oracle partner or application developer program</td>
</tr>
</tbody>
</table>
How to Contact Oracle Technical Publications

Oracle Corporation welcomes your comments and suggestions on the quality and usefulness of this publication. Your input is an important part of the information used for revision.

- Did you find any errors?
- Is the information clearly presented?
- Do you need more information? If so, where?
- Are the examples correct? Do you need more examples?
- What features did you like most about this guide?
- Do you have suggestions for improvement? Please indicate the chapter, section, and page number (if available).

You can send comments regarding documentation in the following ways:

- Electronic mail - ntdoc@us.oracle.com
- FAX - (650) 506-7370  Attn: Oracle Windows NT Server Documentation
- Postal service:
  Oracle Corporation
  Windows Server Documentation Manager
  500 Oracle Parkway, MS
  Redwood Shores, CA 94065
  USA

If you would like a reply, please provide your name, address, and telephone number.
How to Contact Oracle Support Services

*Please copy this form and distribute within your organization as necessary.*

Oracle Support Services can be reached at the following telephone numbers. The hours of business are detailed in your support contract and the *Oracle Customer Support Guide* in your kit.

<table>
<thead>
<tr>
<th>Oracle Support Services In...</th>
<th>Call...</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States of America</td>
<td>+ (650) 506-1500 for customers with support contracts + (650) 506-5577 to obtain a support contract</td>
</tr>
<tr>
<td>Europe</td>
<td>+44 1344 860 160 or the local support center in your country.</td>
</tr>
<tr>
<td>All other locations</td>
<td>The telephone number for your country listed at the following Web site:  <a href="http://www.oracle.com/support/">http://www.oracle.com/support/</a> Oracle Support Services telephone numbers are also listed in the <em>Oracle Customer Support Guide</em> in your kit.</td>
</tr>
</tbody>
</table>

Please complete the following checklist before you call. If you have this information ready, your call can be processed much quicker.

- Your CPU Support Identification Number (CSI Number) if applicable.

- The hardware name on which your application is running.

- The operating system name and release number on which your application is running.
- The release numbers of the Oracle Server and associated products involved in the current problem. For example, Oracle8i Enterprise Edition release 8.1.7.0.0 and Oracle Enterprise Manager release 2.2.0.0.0.

- The third-party software version you are using.

- The exact error codes and messages. Please write these down as they occur. They are critical in helping Oracle Support Services to quickly resolve your problem.

- A description of the issue, including:
  - What happened? For example, the command used and its result.
- **When did it happen?** For example, during peak system load, or after a certain command, or after an operating system upgrade.

- **Where did it happen?** For example, on a particular system, or within a certain procedure or table.

- **What is the extent of the problem?** For example, production system unavailable, or moderate impact but increasing with time, or minimal impact and stable.

- Keep copies of any trace files, core dumps, and redo log files recorded at or near the time of the incident. Oracle Support Services may need these to further investigate your problem.
# Resources for Oracle Partners and Developers

This section provides information on partner programs and resources for Oracle database administrators and application developers.

<table>
<thead>
<tr>
<th>Information Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Corporation Home Page</td>
<td>This Web site is the starting point for general information on Oracle Corporation.</td>
</tr>
<tr>
<td><a href="http://www.oracle.com">http://www.oracle.com</a></td>
<td></td>
</tr>
<tr>
<td>Alliance Online</td>
<td>Oracle provides leading-edge technology, education, and technical support that enables you to effectively integrate Oracle into your business. By joining the Oracle Partner Program, you demonstrate to customers that you are committed to delivering innovative Oracle-based solutions and services. The greater your commitment to Oracle, the more we can help you grow your business. It's that simple. The value you derive is associated directly with your level of commitment.</td>
</tr>
<tr>
<td><a href="http://alliance.oracle.com">http://alliance.oracle.com</a></td>
<td></td>
</tr>
<tr>
<td>Oracle Education</td>
<td>Customers come to Oracle Education with a variety of needs. You may require a complete curriculum based on your job role to enable you to implement new technology. Or you may seek an understanding of technology related to your key area of responsibility to help you meet technical challenges. You may be looking for self-paced training that can be used as an ongoing resource for reference and hands-on practice. Or, you may be interested in an overview of a new product upgrade. Whatever your training need, Oracle Education has the solution.</td>
</tr>
<tr>
<td><a href="http://education.oracle.com/">http://education.oracle.com/</a></td>
<td></td>
</tr>
<tr>
<td>Oracle Technology Network</td>
<td>The Oracle Technology Network is your definitive source for Oracle technical information for developing for the Internet platform. You will be part of an online community with access to free software, Oracle Technology Network-sponsored Internet developer conferences, and discussion groups on up-to-date Oracle technology. Membership is free.</td>
</tr>
<tr>
<td><a href="http://technet.oracle.com/">http://technet.oracle.com/</a></td>
<td></td>
</tr>
<tr>
<td>Oracle Store</td>
<td>This is Oracle’s online shopping center. Visit this site to find special deals on Oracle software, documentation, publications, computer-based training products, and much more.</td>
</tr>
<tr>
<td><a href="http://oraclestore.oracle.com/">http://oraclestore.oracle.com/</a></td>
<td></td>
</tr>
<tr>
<td>Oracle Support Services’ Support Web Center</td>
<td>Oracle Support Services offers a range of programs so you can select the support services you need and access them in the way you prefer: by telephone, electronically, or face to face. These award-winning programs help you maintain your investment in Oracle technology and expertise.</td>
</tr>
<tr>
<td><a href="http://www.oracle.com/support/">http://www.oracle.com/support/</a></td>
<td></td>
</tr>
</tbody>
</table>
This guide is your primary source of introduction, preinstallation, installation, and post-installation information for Oracle8i Client.

Specific topics discussed:

- Audience
- Organization
- Conventions
This guide assumes that you are familiar with the following:

- Windows NT, 2000, 95, or 98, and have installed and tested it on your computer system
- Object-relational database management concepts

This guide is necessary for anyone installing or configuring Oracle8i Client.

This guide describes only the features of Oracle8i Client software that apply to the Windows NT, Windows 95, Windows 98, and Windows 2000 operating systems.

**Organization**

This guide is organized as follows:

**Chapter 1, "Introducing Oracle8i Client"**
Introduces you to Oracle8i Client, the supported operating systems, new features on Windows since release 8.1.6, and getting started with your Oracle documentation

**Chapter 2, "Installation Overview"**
Provides an overview of how to install Oracle components

**Chapter 3, "Installation Requirements"**
Describes requirements for Oracle8i Client installation types and individual components

**Chapter 4, "Selecting Net8 Configuration Methods"**
Describes the Net8 client/server network configuration methods available during installation

**Chapter 5, "Installing Oracle Components and Documentation"**
Describes how to install Oracle components

**Chapter 6, "Post-installation Configuration Tasks"**
Describes post-installation configuration tasks
Chapter 7, "Deinstalling Oracle Components and Services"
Describes how to remove Oracle components and services

Appendix A, "Individual Components Available for Installation"
Describes the individual components available with each installation type of Oracle8i Client

Appendix B, "Individual Component Descriptions"
Provides descriptions and release numbers of the individual components available with each installation type of Oracle8i Client

Appendix C, "Advanced Installation Topics"
Describes advanced installation topics not covered in Chapter 5

Appendix D, "National Language Support"
Describes National Language Support (NLS)

Appendix E, "Installing and Removing Legato Components"
Describes how to install and remove Legato components

Appendix F, "Getting Started with Your Documentation"
Provides a complete introduction to the Oracle documentation set
### Conventions

The following conventions are used in this guide:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Example</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>All uppercase plain</td>
<td>C:\ORACLE\ORA81</td>
<td>Indicates command names, SQL reserved words, and keywords, as in ALTER DATABASE. All uppercase plain is also used for directory names and file names.</td>
</tr>
<tr>
<td>Italic</td>
<td>Used to indicate a variable:</td>
<td>Indicates a value that you must provide. For example, if a command asks you to type <em>file name</em>, you must type the actual name of the file.</td>
</tr>
<tr>
<td></td>
<td><em>file name</em></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Used to indicate the title of a guide.</td>
<td></td>
</tr>
<tr>
<td>Square brackets [ ]</td>
<td>X:[PATHNAME]\ORACLE\HOME_NAME</td>
<td>Encloses optional items. For example, when you create an Oracle home directory, you can place an optional pathname before the \ORACLE pathname. Square brackets also indicate a function key, for example [Enter].</td>
</tr>
<tr>
<td>Choose Start &gt;</td>
<td>Choose Start &gt; Programs &gt; Oracle - HOME_NAME &gt; Network Administration &gt; Net8 Assistant</td>
<td>How to start a program. For example, to start Net8 Assistant, you must click the Start button on the taskbar and then choose Programs &gt; Oracle - HOME_NAME &gt; Network Administration &gt; Net8 Assistant.</td>
</tr>
<tr>
<td>C:&gt;</td>
<td>C:\ORACLE\ORADATA&gt;</td>
<td>Represents the Windows NT command prompt of the current hard disk drive. Your prompt reflects the subdirectory in which you are working. Referred to as the MS-DOS command prompt in this guide.</td>
</tr>
<tr>
<td>Backslash () before a directory name</td>
<td>\ORADATA</td>
<td>Indicates that the directory is a subdirectory of the root directory.</td>
</tr>
</tbody>
</table>
In releases prior to 8.1, when you installed Oracle components, all subdirectories were located under a top level Oracle home directory that by default was:

- C:\ORANT for Windows NT
- C:\ORAWIN95 for Windows 95
- C:\ORAWIN98 for Windows 98

or whatever you may have called your Oracle home.

In this Optimal Flexible Architecture (OFA)-compliant release, all subdirectories are no longer under a top level `ORACLE_HOME` directory. There is now a top-level directory called `ORACLE_BASE` that by default is `C:\ORACLE`. If you install Oracle release 8.1.7 components on a clean computer (that is, there is no other Oracle software on the computer), the default settings for the first Oracle home directory are `C:\ORACLE\ORA81`. If you run Oracle Universal Installer again and install release 8.2.x, the second Oracle home directory is called `\ORA82`. These Oracle home directories are located directly under `ORACLE_BASE`. All directory path examples in this guide follow OFA conventions.

See the *Oracle8i Client Administrator’s Guide for Windows* for additional information on OFA compliance and for information on installing Oracle products in non-OFA compliant directories.

### Convention Example Meaning

<table>
<thead>
<tr>
<th>Convention</th>
<th>Example</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ORACLE_HOME</code> and <code>ORACLE_BASE</code></td>
<td>Go to the <code>ORACLE_BASE\ORACLE_HOME\RDBMS\ADMIN</code> directory.</td>
<td>In releases prior to 8.1, when you installed Oracle components, all subdirectories were located under a top level Oracle home directory that by default was: C:\ORANT for Windows NT C:\ORAWIN95 for Windows 95 C:\ORAWIN98 for Windows 98 or whatever you may have called your Oracle home. In this Optimal Flexible Architecture (OFA)-compliant release, all subdirectories are no longer under a top level <code>ORACLE_HOME</code> directory. There is now a top-level directory called <code>ORACLE_BASE</code> that by default is <code>C:\ORACLE</code>. If you install Oracle release 8.1.7 components on a clean computer (that is, there is no other Oracle software on the computer), the default settings for the first Oracle home directory are <code>C:\ORACLE\ORA81</code>. If you run Oracle Universal Installer again and install release 8.2.x, the second Oracle home directory is called <code>\ORA82</code>. These Oracle home directories are located directly under <code>ORACLE_BASE</code>. All directory path examples in this guide follow OFA conventions. See the <em>Oracle8i Client Administrator’s Guide for Windows</em> for additional information on OFA compliance and for information on installing Oracle products in non-OFA compliant directories.</td>
</tr>
<tr>
<td><code>%ORACLE_HOME%</code></td>
<td>SQL&gt; @%ORACLE_HOME%\ADMIN\DB_NAME\ADHOC\CATALOG.SQL</td>
<td>In SQL<em>Plus commands, you may see <code>%ORACLE_HOME%</code>. SQL</em>Plus is able to locate your Oracle home directory using the <code>%ORACLE_HOME%</code> variable. This convention can be used in Server Manager, SQL*Plus, Export Utility, and Import Utility.</td>
</tr>
</tbody>
</table>
### HOME_NAME

**Example:** OracleHOME_NAME\_TNSListener  
**Meaning:** Represents the Oracle home name.  
The home name can be up to sixteen alphanumeric characters. The only special character allowed in the home name is the underscore.

### HOMEID

**Example:** HOME0, HOME1, HOME2  
**Meaning:** Represents a unique registry subkey for each Oracle home directory in which you install products. A new HOMEID is created and incremented each time you install products in a different Oracle home directory on one computer. Each HOMEID contains its own configuration parameter settings for installed Oracle products.

### Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Example</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>period</td>
<td>.</td>
<td>Symbols other than brackets and vertical bars must be entered in commands exactly as shown.</td>
</tr>
<tr>
<td>comma</td>
<td>,</td>
<td></td>
</tr>
<tr>
<td>hyphen</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>semicolon</td>
<td>;</td>
<td></td>
</tr>
<tr>
<td>colon</td>
<td>:</td>
<td></td>
</tr>
<tr>
<td>equal sign</td>
<td>=</td>
<td></td>
</tr>
<tr>
<td>backslash</td>
<td>\</td>
<td></td>
</tr>
<tr>
<td>single quote</td>
<td>'</td>
<td></td>
</tr>
<tr>
<td>double quote</td>
<td>&quot;</td>
<td></td>
</tr>
<tr>
<td>parentheses</td>
<td>(</td>
<td></td>
</tr>
</tbody>
</table>
This chapter introduces you to Oracle8i Client.
Specific topics discussed are:

- Supported Operating Systems
- New Features and Components on Windows
- What Documentation Do I Read First?
Supported Operating Systems

Oracle8i client software operates on a personal computer (PC) running the following Microsoft operating systems:

- Windows NT 4.0, includes:
  - Windows NT Workstation 4.0
  - Windows NT Server 4.0
  - Windows NT Server Enterprise Edition 4.0
- Windows 2000, includes:
  - Windows 2000 Professional
  - Windows 2000 Server
  - Windows 2000 Advanced Server
  - Windows 2000 Datacenter
- Windows 95
- Windows 98

See Also: Oracle8i Release Notes for Windows NT for information on Oracle8i support for Windows Terminal Server
New Features and Components on Windows

This section describes some of the new features and components available on Windows for releases 8.1.7 and 8.1.6.

---

**Note:** Each component on the component CD-ROM may also have new features available with this release. See the documentation in Appendix F, "Getting Started with Your Documentation" to find out about any new features for each component.

---

What Is New With 8.1.7?

This table describes some of the new features and components of release 8.1.7 on Windows.

<table>
<thead>
<tr>
<th>Feature/Component</th>
<th>Description</th>
<th>See...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Provider for OLE DB</td>
<td>Oracle Provider for OLE DB now provides support for:</td>
<td></td>
</tr>
<tr>
<td>enhancements</td>
<td>- Returning multiple rowsets</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Use this feature to access all the REF CURSORs being returned by a stored procedure.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- The Unicode character set</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Use this feature to access data in multiple languages on the same client machine. This is useful for creating global Internet applications supporting as many languages as the Unicode standard entails. For example, you can write a single active service page (ASP) that accesses an Oracle8i database to dynamically generate content in Japanese, Arabic, English, and Thai.</td>
<td></td>
</tr>
<tr>
<td>Oracle Objects for OLE (OO4O)</td>
<td>Commands can now be executed using asynchronous processing. This enables you to execute SQL statements and PL/SQL blocks in non-blocking mode. With non-blocking mode, control is returned to the application immediately even if the execution is not complete. This allows the application to execute other tasks not dependent on the results of the last execution.</td>
<td></td>
</tr>
<tr>
<td>enhancements</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Introducing Oracle8i Client
What Is New With 8.1.6?

This table describes some of the new features and components of release 8.1.6 on Windows.

<table>
<thead>
<tr>
<th>Feature/Component</th>
<th>Description</th>
<th>See...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Provider for OLE DB</td>
<td>OLE DB is an open standard data access methodology that utilizes a set of interfaces for accessing and manipulating all types of data. These interfaces are available from various database providers. The Oracle Provider for OLE DB interfaces offer high performance and efficient access to Oracle data by applications, compilers, and other database components.</td>
<td>Oracle Provider for OLE DB User’s Guide</td>
</tr>
</tbody>
</table>
Active Directory support

<table>
<thead>
<tr>
<th>Feature/Component</th>
<th>Description</th>
<th>See...</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- Oracle objects representing databases and net service names to be created in Active Directory and used by various Oracle applications when connecting to an Oracle8i database</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- A single, centralized location to store net service name information, which eliminates the need for maintaining a separate TNSNAMES.ORA file on each client computer</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- An administrator to create and store enterprise users and roles for the Oracle8i database in Active Directory, which helps centralize the administration of users and roles across multiple databases</td>
<td></td>
</tr>
</tbody>
</table>

*See Also:* See *Getting to Know Oracle8i* for the list of new components and features common to all operating systems
What Documentation Do I Read First?

Appendix F, “Getting Started with Your Documentation” includes a description of your Oracle documentation set. This appendix provides a list of:

- Available online documentation formats
- Documentation available on your Oracle8i Client Online Documentation CD-ROM and the component CD-ROM

Oracle Corporation recommends that you read or review the following documentation before you install Oracle components. This helps ensure that you make the correct decisions during Oracle component installation.

<table>
<thead>
<tr>
<th>For Information About...</th>
<th>See...</th>
</tr>
</thead>
<tbody>
<tr>
<td>How to obtain customer support</td>
<td><em>Oracle Customer Support Guide</em></td>
</tr>
</tbody>
</table>
| Important last-minute installation and configuration information | *The Oracle8i Release Notes for Windows NT* (click INDEX.HTM in the \DOC directory on the component CD-ROM)  
*Note:* After installation, view README files for additional components in the ORACLE_BASE\ORACLE_HOME\RELNOTES directory. |
| Installing Oracle components in multiple homes on a computer | Chapter 3, “Multiple Oracle Homes and Optimal Flexible Architecture” of *Oracle8i Client Administrator’s Guide for Windows* |
| Installing all Oracle components available on the CD-ROM | Chapter 5, “Installing Oracle Components and Documentation” of this guide |
| Networking concepts and administration | *Net8 Administrator’s Guide* |
| Oracle Enterprise Manager concepts and administration | *Oracle Enterprise Manager Concepts Guide* |
| | *Oracle Enterprise Manager Administrator’s Guide* |
| | *Oracle Enterprise Manager Configuration Guide* |
Viewing Documentation on the CD-ROM

Most Oracle documentation is included on a separate Oracle8i Client Online Documentation CD-ROM.

---

**Note:** This installation guide and the Oracle8i Release Notes for Windows NT are not included on the Oracle8i Client Online Documentation CD-ROM. Access those documents after installation from the Start Menu or by clicking INSTALL.HTM in the \\DOC directory on your hard drive. You can also access those documents on the component CD-ROM by going to the \\DOC directory and clicking INDEX.HTM.

---

When you insert the Oracle8i Client Online Documentation CD-ROM into the CD-ROM drive, the Autorun window automatically appears. This window provides easy access to the Oracle8i Client Online Documentation. Follow these instructions to view the documentation.

**To view the documentation library on the Oracle8i Client Online Documentation CD-ROM:**

1. Insert the Oracle8i Client Online Documentation CD-ROM into the CD-ROM drive.

   The Autorun window appears. If the Autorun window does not appear:

   a. Choose Start > Run.

   b. Enter the following:

   ```
   DRIVE_LETTER:\AUTORUN\AUTORUN.EXE
   ```

   The Autorun window appears.

2. Click Browse Documentation to view the Oracle8i Client Online Documentation for all components. These documents are in hypertext markup language (HTML) and portable document format (PDF) formats. The Oracle Information Navigator, a Java-based search and navigation applet, also starts.

3. Review the documentation described in the table in "What Documentation Do I Read First?" on page 1-6 and any other appropriate documentation. See "Online Documentation Set" on page F-4 for a list of documentation titles.
What Documentation Do I Read First?

**Note:** You can also access your Oracle8i Client Online Documentation without using the *Autorun* window. To do this:

1. Exit the *Autorun* window.
2. Go to the `\DOC` directory at the root of the Oracle8i Client Online Documentation CD-ROM.
3. Double-click either:
   - `INDEX.HTM` (to start the Oracle8i Client Online Documentation and Oracle Information Navigator, a Java-based search and navigation applet)
   - `PRODUCTS.HTM` (to start the Oracle8i Client Online Documentation *without* starting the Oracle Information Navigator)
   - `INDEX.PDF` (if you do not have a Web browser, but do have an Adobe Acrobat Reader installed).

**See Also:** "Installing and Viewing the Oracle8i Client Online Documentation" on page 5-10 for instructions on installing your Oracle8i Client Online Documentation
This chapter provides an overview of Oracle component installation. Specific topics discussed are:

- Oracle Universal Installer
- Installation Types Available for Installation
- Oracle Universal Installer Component Installation Overview
- Getting Started with Installation
Oracle Universal Installer

Oracle Universal Installer is a Java-based graphical user interface (GUI) tool that enables you to install Oracle components from your CD-ROM. Oracle Universal Installer provides the following capabilities:

- Component and suite installations
- Web-based installations
- National language and globalization support
- Distributed installation support (Oracle Parallel Server)
- Unattended "silent" installations using response files
- Deinstallation of installed components
- Multiple Oracle homes support

See Also: *Oracle Universal Installer Concepts Guide* for more information on Oracle Universal Installer. This guide is not included in your Oracle8i Client Online Documentation, but is automatically installed on your hard drive during an Oracle Universal Installer installation. Choose Start > Programs > Oracle Installation Products > Universal Installer Concepts Guide to access this guide.
Installation Types Available for Installation

When you run Oracle Universal Installer from the component CD-ROM, you can choose to install Oracle8i Client components from four different installation types. Each installation type contains a series of individual installable components. The following table lists the four installation types.

<table>
<thead>
<tr>
<th>Installation Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrator</td>
<td>Installs an Oracle Enterprise Manager Console (including enterprise management tools), networking services, utilities, and basic client software</td>
</tr>
<tr>
<td>Programmer</td>
<td>Installs development tools (including precompilers) and interfaces for creating applications that access an Oracle8i database</td>
</tr>
<tr>
<td>Application User</td>
<td>Installs networking services and support files that enable database application users to connect to and interact with an Oracle8i database</td>
</tr>
<tr>
<td>Custom</td>
<td>Lets you selectively install components from the above installation types</td>
</tr>
</tbody>
</table>

See Also: Appendix A, "Individual Components Available for Installation" for a list of individual components installed with each installation type

Licensing Information

Although the component CD-ROM in your kit contains many Oracle components, you may use only those components for which you have purchased licenses. Those components that require separately purchasable licenses are identified in their descriptions.

Oracle Support Services does not provide support for components for which licenses have not been purchased.

See Also:

- Global License Terms for additional licensing information
- "Component Descriptions" on page B-2 for component descriptions
Oracle Universal Installer Component Installation Overview

When you run Oracle Universal Installer from the component CD-ROM, the following windows appear, and enable you to install Oracle components. This section provides an overview of your component installation choices. Chapter 5, "Installing Oracle Components and Documentation" provides specific installation instructions.

First window: Welcome

Welcomes you to Oracle Universal Installer.

Second window: File Locations

Enables you to enter the following in the Destination fields:
- Oracle home name
- Directory location in which to install Oracle components

If you are running Oracle Universal Installer from the component CD-ROM, the Source field automatically displays the location of your CD-ROM. Do not modify this field.

Third window: Installation Types

Enables you to select an installation type to install:
- Administrator
- Programmer
- Application User
- Custom

Oracle8i Client Installation Guide for Windows
Getting Started with Installation

You are now ready to begin the installation process. To get started quickly, follow these chapters in the *exact* order listed:

<table>
<thead>
<tr>
<th>To...</th>
<th>See...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Find out about installation requirements for:</td>
<td>Chapter 3, &quot;Installation Requirements&quot;</td>
</tr>
<tr>
<td>■ Each installation type</td>
<td></td>
</tr>
<tr>
<td>■ Individual components</td>
<td></td>
</tr>
<tr>
<td>■ Single Oracle home components</td>
<td></td>
</tr>
<tr>
<td>■ Networking protocols and vendors</td>
<td></td>
</tr>
<tr>
<td>Select a method for creating your Net8 client/server environment</td>
<td>Chapter 4, &quot;Selecting Net8 Configuration Methods&quot;</td>
</tr>
<tr>
<td>Install Oracle components</td>
<td>Chapter 5, &quot;Installing Oracle Components and Documentation&quot;</td>
</tr>
</tbody>
</table>
This chapter describes installation requirements. Specific topics discussed are:

- System Requirements for FAT and NTFS File Systems
- Oracle8i Client
- Migration and Upgrade Requirements
- Mandatory Individual Component Requirements
- Single Oracle Home Components
- Networking Protocol Vendor Requirements
System Requirements for FAT and NTFS File Systems

This chapter lists system requirements for both the File Allocation Table (FAT) and NT File System (NTFS) file systems. The values required were obtained from installations on 2 GB partitions for a FAT file system with a default block size of 32K and an NTFS file system with a default block size of 2K. Because of the difference in space allocation on both file systems, the hard disk requirements vary.

**Important:** Review the FAT and NTFS system requirements listed in this section to determine if you have enough hard disk space for installation. These values are more accurate than the hard disk values reported by the Oracle Universal Installer *Installation Types* window and *Summary* window. These windows do not include:

- Accurate FAT disk space values
- The size of compressed files that are expanded on the hard drive
Oracle8i Client

The Oracle8i Client top-level component consists of the following installation types:

- Administrator
- Programmer
- Application User
- Custom

The system requirements for Administrator, Programmer, and Application User are described below. The requirements for Custom depend upon the components selected for installation.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Administrator¹</th>
<th>Programmer</th>
<th>Application User</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows NT 4.0 Service Pack</td>
<td>Certified with 5.0 and 6.0a</td>
<td>Certified with 5.0 and 6.0a</td>
<td>Certified with 5.0 and 6.0a</td>
</tr>
<tr>
<td>Minimal Processor</td>
<td>Pentium 166</td>
<td>Pentium 133</td>
<td>Pentium 133</td>
</tr>
<tr>
<td>Recommended Processor</td>
<td>Pentium 1 266</td>
<td>Pentium 166</td>
<td>Pentium 166</td>
</tr>
<tr>
<td>RAM</td>
<td>64 MB (minimal)</td>
<td>32 MB (64 MB recommended)</td>
<td>32 MB (64 MB recommended)</td>
</tr>
<tr>
<td></td>
<td>128 (recommended)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FAT file system:

- Oracle home drive: 861 MB, 270 MB, 180 MB
- System drive: 51 MB, 40 MB, 36 MB

NTFS file system:

- Oracle home drive: 336 MB, 192 MB, 120 MB
- System drive: 51 MB, 40 MB, 36 MB

Web browser (if using Oracle Enterprise Manager Web Site):

- Netscape Navigator 4.7 or higher
- Microsoft Internet Explorer 5.0 or higher
- None

¹ The operating system, service pack, processor, and RAM requirements for Oracle Enterprise Manager Client are the same as the requirements for Oracle Enterprise Manager Web Site.

See Also: "Oracle8i Client Components" on page A-2 for a list of individual components installed with each installation type
Migration and Upgrade Requirements

This document does not cover Oracle database migration and upgrade requirements. See Oracle8i Migration for that information.

Mandatory Individual Component Requirements

This table identifies mandatory individual component requirements that must be met before installation. See Appendix A, "Individual Components Available for Installation" for the installation types with which these individual components can be installed. Appropriate documentation for preinstallation procedures is also identified.

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>See Also...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Advanced Security</td>
<td>You must satisfy hardware and software requirements to use authentication support with Oracle components. In addition, using Oracle Advanced Security with Secure Socket Layer (SSL) and Private Key Infrastructure (PKI) requires preinstallation of an LDAP directory such as Oracle Internet Directory (provided on the component CD-ROM).</td>
<td>Chapter 1 of the Oracle Advanced Security Administrator's Guide</td>
</tr>
<tr>
<td>Oracle Enterprise Manager Paging Server</td>
<td>If you want Oracle Enterprise Manager administrators to receive paging notifications of event and job status changes, you can install the Oracle Enterprise Manager Paging Server on a Windows NT or Windows 2000 computer that contains a modem configured to dial an outside line.</td>
<td>Oracle Enterprise Manager Configuration Guide</td>
</tr>
<tr>
<td>Oracle Workflow Builder and Mailer</td>
<td>Ensure that you have configured the required hardware and software.</td>
<td>Oracle Workflow Installation Supplement</td>
</tr>
<tr>
<td>Oracle8i integration with Active Directory</td>
<td>The user performing the Oracle8i installation must perform pre-installation requirements for integration to be successful.</td>
<td>Chapter 4, &quot;Using Oracle8i Client Directory Features with Active Directory&quot; of the Oracle8i Client Administrator’s Guide for Windows</td>
</tr>
</tbody>
</table>
Recovery Manager (part of Oracle Utilities)  
To back up to nondisk media, Recovery Manager requires a media management layer such as Legato Storage Manager (LSM) server, which is included on the CD-ROM. LSM server requires the following system configuration:
- Minimum Processor: Intel Pentium 200 MHz.
- Recommended Processor: Intel Pentium 450 MHz or higher
- RAM: 128 MB
- Hard disk: 64 MB
- Backup for Windows NT and Windows 95/98: Additional 5% of total backup data or 100 MB for online indexes

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>See Also...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recovery Manager</td>
<td>To back up to nondisk media, Recovery Manager requires a media management layer such as Legato Storage Manager (LSM) server, which is included on the CD-ROM. LSM server requires the following system configuration:</td>
<td><em>Legato Storage Manager</em>&lt;br&gt;  <em>Administrator's Guide</em></td>
</tr>
</tbody>
</table>
Single Oracle Home Components

Most Oracle components can be installed multiple times on the same computer. However, the following components can only be installed once per computer:

- Oracle Objects for OLE
- Oracle Open Database Connectivity (ODBC) Driver
- Oracle Provider for OLE DB

If you attempt to install these components a second time, Oracle Universal Installer detects that these products are already installed in another Oracle home and automatically removes them from the installation process without prompting you. The following information is logged to the INSTALLATIONS.LOG file in the X:\PROGRAM FILES\ORACLE\INVENTORY\LOGS directory.

# product_name is a single oracle home product. It is already installed in currently_installed_location.

If you are performing an installation and notice that one or more single Oracle home components are not available for installation during the current session, check to see if any of these components or any previous versions of these components are installed in another Oracle home. If you want to install these in the currently selected Oracle home, you must first deinstall the conflicting version(s).

See Also: Appendix A, "Individual Components Available for Installation" for the installation types under which these components are installed.
## Networking Protocol Vendor Requirements

The table below lists the supported vendor for each networking protocol:

<table>
<thead>
<tr>
<th>Net8 Protocol Feature</th>
<th>Platform</th>
<th>Supported Vendor</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCP/IP protocol</td>
<td>Windows NT and Windows 95/98</td>
<td>Microsoft TCP/IP</td>
</tr>
<tr>
<td>SPX protocol</td>
<td>Windows NT and Windows 95/98</td>
<td>Microsoft NW Link for Windows NT, Windows 95/98</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Novell NetWare Client 32 release 4.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Novell IntranetWare Client release 4.1 for Windows NT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Novell IntranetWare Client release 2.2 for Windows 95</td>
</tr>
<tr>
<td>Note:</td>
<td></td>
<td>For Microsoft NW Link, Client Service for NetWare must be installed.</td>
</tr>
<tr>
<td>Named Pipes protocol</td>
<td>Windows NT and Windows 95/98</td>
<td>Microsoft NETBEUI</td>
</tr>
<tr>
<td>Logical Unit Type 6.2 (LU6.2) protocol</td>
<td>Windows NT</td>
<td>Microsoft SNA Server, release 3.0</td>
</tr>
<tr>
<td>Host naming method</td>
<td>Windows NT</td>
<td>Microsoft TCP/IP</td>
</tr>
<tr>
<td>NDS naming method</td>
<td>Windows NT and Windows 95</td>
<td>Novell NetWare Client 32 release 4.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Novell IntranetWare Client release 4.1 for Windows NT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Novell IntranetWare Client release 2.2 for Windows 95</td>
</tr>
<tr>
<td>Note:</td>
<td></td>
<td>An Oracle Server release 7.2.2 or above for NetWare release 4.1 is required.</td>
</tr>
<tr>
<td>NDS authentication method</td>
<td>Windows NT and Windows 95</td>
<td>Novell NetWare Client 32 release 4.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Novell IntranetWare Client release 4.1 for Windows NT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Novell IntranetWare Client release 2.2 for Windows 95</td>
</tr>
<tr>
<td>Note:</td>
<td></td>
<td>An Oracle Server release 7.2.2 or above for NetWare release 4.1 is required.</td>
</tr>
<tr>
<td>Windows native authentication method</td>
<td>Windows NT and Windows 95/98</td>
<td>Microsoft</td>
</tr>
</tbody>
</table>
This chapter describes the Net8 client/server configuration methods available during installation. You must understand these methods before performing an installation.

Specific topics discussed are:

- Network Configuration Methods
- Selecting a Net8 Configuration Method

**Note:** This chapter uses networking terms and concepts with which you may be unfamiliar. See the Glossary for definitions of terms used in this chapter and the Net8 Administrator’s Guide for detailed descriptions of concepts.
Network Configuration Methods

Oracle Universal Installer provides several methods for configuring your Net8 client/server networking environment during installation.

The method to select during installation depends upon:

- Your own expertise with network configuration
- The requirements of your network environment

You must understand these methods before you begin installation. By reviewing the information in this chapter, you can ensure that you configure a networking environment that best matches your needs from the beginning.

Net8 components are installed through several installation types. Review the installation types in this table to identify how much user input is required for network configuration during installation. The "X" indicates whether you are prompted to provide no, minimal, or extensive input during installation. See the remaining sections of this chapter for specific details on what information is automatically created for you, and what information you must manually provide.

<table>
<thead>
<tr>
<th>Installation Types</th>
<th>User Input Required for Database Creation</th>
<th>User Input Required for Net8 Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None</td>
<td>Minimal</td>
</tr>
<tr>
<td>Oracle8i Client</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administrator</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Programmer</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Application User</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Custom, and select:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net8 Client(^1)</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

\(^1\) Selecting Net8 Client through the Custom installation type prompts you to create either a configuration requiring minimal user input or a configuration requiring extensive user input.
Selecting a Net8 Configuration Method

Net8 Configuration Assistant is a tool that enables you to configure your network environment to enable Oracle clients to connect to an Oracle8i database. Net8 Configuration Assistant can be automatically started from Oracle Universal Installer through most installation types or manually started as a standalone tool.

Note: This chapter describes running Net8 Configuration Assistant from within Oracle Universal Installer. See the Net8 Administrator’s Guide or the Net8 Configuration Assistant online help for information on running Net8 Configuration Assistant in standalone mode. See Chapter 2, "Database Tools Overview" of Oracle8i Client Administrator’s Guide for Windows for instructions on starting this tool in standalone mode.

Depending on the installation type selected, Net8 Configuration Assistant configures your network in either of two ways:

- Automatically configures your network for standard database connection methods
- Creates a customized network by prompting you for input

Configuration consists of creating and modifying a series of network files located in the ORACLE_BASE\ORACLE_HOME\NETWORK\ADMIN directory.
Client Network Configuration

The type of network configurations created with the client installation types and the amount of user input required are described below. Review the selections below and identify the network configuration that best matches your requirements and network configuration expertise:

<table>
<thead>
<tr>
<th>If You Perform These Steps...</th>
<th>Then...</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Select Oracle8i Client.</td>
<td>Net8 Configuration Assistant first prompts you to select one of the following methods by which to configure access to your Oracle8i database:</td>
</tr>
</tbody>
</table>
| 2. Select Administrator, Programmer, or Application User. | Directory naming  

- A directory server

- Local naming

A net service name enables you to make client connections to the Oracle8i database

Depending on what you select, you are prompted to provide additional information.

Net8 Configuration Assistant then automatically creates your Net8 client environment by configuring information in the following files:

- LDAPORA file, if the directory naming method was selected above
  
  Configures directory server access by identifying the directory server type. It may also identify the directory location and the administrative context from which the client can look up net service names.

- TNSNAMES.ORA file
  
  Configures a net service name, if a local naming method was selected above

- SQLNET.ORA file
  
  Configures the client’s domain as the default domain (the domain in which your computer is located). This domain is automatically appended to any unqualified net service name given in the connect string.
  
  Configures the naming methods the client uses to resolve a name to a connect descriptor
Client Network Configuration

### Selecting Net8 Configuration Methods

<table>
<thead>
<tr>
<th>If You Perform These Steps...</th>
<th>Then...</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Select Oracle8i Client.</td>
<td>Net8 Configuration Assistant first prompts you to:</td>
</tr>
<tr>
<td>2. Select Custom.</td>
<td>- Complete directory server access configuration, including entering a directory server type and location and administrative context from which the client can look up, create, and modify net service names.</td>
</tr>
<tr>
<td>3. Select Net8 Client.</td>
<td>- Select the naming method to use to connect to databases. For example, selecting the local naming method enables the TNSNAMES.ORA file to be used. Depending on your selection, you are prompted for additional information. For the local naming method, you are prompted to enter a net service name, a database SID, and a networking protocol to use.</td>
</tr>
</tbody>
</table>

Net8 Configuration Assistant then automatically creates your Net8 client environment by configuring information in the following files:

- **SQLNET.ORA file**
  - Configures the client to request operating system authenticated connections (OPS$)
  - Configures the client’s domain as the default domain (the domain in which your computer is located). This domain is automatically appended to any unqualified name.
  - Configures the naming methods the client uses to resolve a name to a connect descriptor

- **TNSNAMES.ORA file**
  - Configures a net service name, if the local naming method was selected above to connect to your Oracle8i database

- **LDAP.ORA file**, if directory access configuration was selected above
  - Configures directory server access by identifying the directory server type. It may also identify the directory location and the administrative context.

1 You are prompted for this information if you have never configured this Oracle home for directory server access.
This chapter describes how to install Oracle components.

Specific topics discussed are:

- Installation Differences Between Windows NT and UNIX
- Keyboard Navigation
- Preinstallation Tasks
- Installing Oracle8i Client
- Installing and Viewing the Oracle8i Client Online Documentation

**Note:** This chapter describes how to install components from the component CD-ROM and documentation from the Oracle8i Client Online Documentation CD-ROM. See Appendix C, "Advanced Installation Topics" for information on advanced installation topics, such as using response files, using Oracle Software Packager, and installing and using Oracle components in different languages.
Installation Differences Between Windows NT and UNIX

Database administrators experienced with installing Oracle components in UNIX environments must note that many manual setup tasks required on UNIX are not required on Windows operating systems. For example, on Windows operating systems, you do not need to manually:

- Set environmental variables
- Create a UNIX DBA group for database administrators
- Create a UNIX group for users running Oracle Universal Installer
- Create a UNIX account solely dedicated to installing and upgrading Oracle components

All preinstallation tasks required on Windows operating systems are described in this chapter.

Keyboard Navigation

This guide describes how to navigate Oracle Universal Installer windows with a mouse. You can also navigate with keyboard commands. Windows operating systems include a series of keyboard commands that can be used with Oracle Universal Installer. For example, the tab key enables you to navigate from item to item in a window. Oracle Universal Installer includes several windows that require navigation through components in a hierarchical tree. These windows include:

- Available Product Components window (lists the components available for installation)
- Summary window (lists the components about to be installed)
- Inventory window (lists the installed components)

This table describes how to navigate these windows with keyboard commands:

<table>
<thead>
<tr>
<th>To...</th>
<th>Use The...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Move up and down a list of components</td>
<td>Up and down arrows</td>
</tr>
<tr>
<td>Open an expandable tree of components</td>
<td>Right arrow</td>
</tr>
<tr>
<td>Close an expanded tree of components</td>
<td>Left arrow</td>
</tr>
<tr>
<td>Select or deselect a component</td>
<td>Space bar</td>
</tr>
</tbody>
</table>
Preinstallation Tasks

Perform the following tasks before installing Oracle components.

See Also: The Microsoft Web site for information on standard keyboard navigational commands:
http://www.microsoft.com

Preinstallation Tasks

Perform the following tasks before installing Oracle components.

Note: Reboot your computer after first time Oracle installations on Windows 95 or 98. Subsequent installations only require a reboot if the Oracle home changes.

To perform preinstallation tasks:

1. Ensure that you have read the appropriate online documentation described in "What Documentation Do I Read First?" on page 1-6 before you begin installation.

2. Ensure that you have reviewed and satisfied applicable system and component requirements in Chapter 3, "Installation Requirements" before you begin installation.

3. Start your operating system.

4. If you are installing on Windows NT, log on as a member of the Administrators group to the computer on which to install Oracle components.

Note: Do not manually set ORACLE_HOME in the environment. This is automatically done in the registry. Setting ORACLE_HOME in the environment is not necessary or recommended and prevents multiple Oracle home environments from functioning properly. See Chapter 3, "Multiple Oracle Homes and Optimal Flexible Architecture" of the Oracle8i Client Administrator’s Guide for Windows for more information.

5. If applicable, install and test your network hardware and software.
6. Stop all Oracle services (if any are running) for the Oracle home into which you want to install Oracle components:
   b. If any Oracle services (their names begin with Oracle) exist and have the status Started, select the service and choose Stop.
   c. Choose Close to exit the Services window.
7. Insert the component CD-ROM into your CD-ROM drive.
   The Autorun window automatically appears. If the Autorun window does not appear:
   a. Choose Start > Run.
   b. Enter the following:

```
DRIVE_LETTER:\AUTORUN\AUTORUN.EXE
```
   The Autorun window appears.
8. See "Installing Oracle8i Client" on page 5-5 for instructions on installing Oracle components.
Installing Oracle8i Client

Follow these procedures to install Oracle8i components.

---

**Note:** Using the old Oracle Installer (the pre-Oracle Universal Installer shipped with releases 7.x and 8.0.x) to install components into a release 8.1 Oracle home directory is not supported. Likewise, you cannot install release 8.1.7 components into a release 7.x, 8.0.x, 8.1.3, or 8.1.4 Oracle home.

---

**Note:** Oracle Universal Installer automatically installs Oracle’s version of the Java Runtime Environment (JRE). This version is required to run Oracle Universal Installer and several Oracle assistants. Do not modify the JRE, unless doing so with a patch provided by Oracle Support Services. Visit:

http://www.oracle.com/support

---

To install Oracle components:

1. Ensure that you have followed all preinstallation steps described in "Preinstallation Tasks" on page 5-3.

2. Choose Install/Deinstall Products from the Autorun window.
   The Welcome window appears.

3. Choose Next.
   The File Locations window appears. Do not change the directory path in the Source field. This is the CD-ROM location of files for installation.

4. Enter the Oracle home name and directory path in which to install Oracle components in the Destination fields.
   The home name can be up to 16 characters in length and must only include alphanumeric characters and underscores. The default directory path is <drive with the most available space>:\ORACLE\ORA81. Spaces are not allowed.

---

**Attention:** If you have an existing Oracle home created with a pre-8.1.x release, you must change the default installation location to a different location.
5. Choose Next.
   The *Installation Types* window appears.

6. Select the installation type you want to install and choose Next.

7. See the appropriate section based on the selection you made in step 6.

<table>
<thead>
<tr>
<th>If You Selected...</th>
<th>See This Section...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrator, Programmer, or Application User</td>
<td>“Administrator, Programmer, or Application User” on page 5-6</td>
</tr>
<tr>
<td>Custom</td>
<td>“Custom” on page 5-7</td>
</tr>
</tbody>
</table>

**Administrator, Programmer, or Application User**

The *Summary* window appears.

1. Review the space requirements to ensure that you have enough disk space and choose Install.

2. Wait until the selected components are installed.

   The *Configuration Tools* window appears and Net8 Configuration Assistant starts and prompts you to select a method by which to configure client access to your Oracle8i database if Net8 Client release 8.1.7 is not already installed in the currently-specified Oracle home. Net8 Client release 8.1.6 or earlier installations in this Oracle home will be upgraded.

3. Select a method for configuring client access to your Oracle8i database. See the online Help and "Client Network Configuration" on page 4-4 for more information on your choices.

   The *End of Installation* window appears.

4. Choose Exit to exit Oracle Universal Installer or choose Next Install to install additional components.

   **See Also:** See "Reviewing a Log of an Installation Session" on page 5-9 for a summary of your installation session
Custom

The Available Product Components window appears if you selected Custom at step 6 on page 5-6. The Install Status column of the Available Product Components window displays the status of all components available for installation:

<table>
<thead>
<tr>
<th>This Status...</th>
<th>Means the Component Is...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installed</td>
<td>Already installed</td>
</tr>
<tr>
<td>New Install</td>
<td>Selected to be installed for the first time</td>
</tr>
<tr>
<td>Not Installed</td>
<td>Not currently installed or selected for installation</td>
</tr>
<tr>
<td>Reinstall</td>
<td>Currently installed, but you have chosen to reinstall</td>
</tr>
<tr>
<td>Upgrade</td>
<td>Currently installed, but will be upgraded</td>
</tr>
</tbody>
</table>

1. Ensure that components you want to install are checked in their corresponding check box.

   **Note:** Be careful when selecting or deselecting components for installation. If you uncheck a check box of a component, that component will not be installed.

2. Select appropriate components to install and choose Next.

   The Component Locations window appears and enables you to select alternate locations in which to install some components.

3. Choose Next to accept the default locations. Otherwise, choose a component to enable a text box for changing the default location, and choose Next.
4. If you selected any of the following components, provide appropriate responses when prompted. Note that most components install silently without prompting you for additional information.

<table>
<thead>
<tr>
<th>If You Selected...</th>
<th>You Are...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net8 Client</td>
<td>Not prompted to enter any information. However, Net8 Configuration Assistant starts at the end of installation and prompts you to configure client access to your Oracle8i database if Net8 Client release 8.1.7 is not already installed in the currently-specified Oracle home. <strong>Note:</strong> Net8 Client release 8.1.6 or earlier installations in this Oracle home will be upgraded. <strong>See Also:</strong> &quot;Client Network Configuration&quot; on page 4-4 for a description of the configuration procedures performed.</td>
</tr>
<tr>
<td>Oracle Advanced Security</td>
<td>Prompted to select the authentication methods for which you want Oracle support. Kerberos, SecurID, and Radius automatically appear for selection. Identix, CyberSafe, and Entrust only appear if the appropriate third-party software is installed.</td>
</tr>
<tr>
<td>Oracle Protocol Support</td>
<td>Prompted to select the network protocol adapters for which to provide Oracle support. See the online help for a description of the Status column on this window.</td>
</tr>
<tr>
<td>Oracle Services for Microsoft Transaction Server</td>
<td>Prompted to install Microsoft Transaction Server after installation, if it is not currently installed.</td>
</tr>
</tbody>
</table>

The Summary window appears.

5. Review the space requirements to ensure that you have enough disk space and choose Install.

6. Wait until the selected components are installed and any configuration tools have completed running.

The End of Installation window appears.

7. Choose Exit to exit Oracle Universal Installer or choose Next Install to install additional components.

**See Also:** "Reviewing a Log of an Installation Session" on page 5-9 for a summary of your installation session.
Reviewing a Log of an Installation Session

A log that describes the actions performed and the components installed for the most recent installation session is located in the file:

```
X:\PROGRAM FILES\ORACLE\INVENTORY\LOGS\INSTALLACTIONS.LOG
```

where X is the hard drive on which your operating system is located.

INSTALLACTIONS.LOG is the most recent log file. Log file names of previous installation sessions are also in this directory and take the form INSTALLACTIONSDATE_TIME.LOG (for example, INSTALLACTIONS1999-07-14_09-00-56-AM.LOG).

You can also view a list of installed components by choosing Installed Products on any window of Oracle Universal Installer. A window of installed programs appears.
Installing and Viewing the Oracle8i Client Online Documentation

The Oracle8i Client Online Documentation is included on a separate CD-ROM. Documentation is available in both hypertext markup language (HTML) and portable document format (PDF) formats. You can install and view your Oracle8i Client Online Documentation on your hard drive. This section describes the following topics:

- Installing the Oracle8i Client Online Documentation
- Installing a Web Browser and Adobe Acrobat Reader
- Viewing Documentation With a Web Browser
- Viewing Documentation Without a Web Browser

See Also: Appendix F, "Getting Started with Your Documentation" for a list of documents available on the Oracle8i Client Online Documentation CD-ROM

Installing the Oracle8i Client Online Documentation

To install the Oracle8i Client Online Documentation:

1. Insert the Oracle8i Client Online Documentation CD-ROM into your CD-ROM drive.

   The Autorun window appears. If the Autorun window does not appear:
   a. Choose Start > Run.
   b. Enter the following:
      
      DRIVE_LETTER:\AUTORUN\AUTORUN.EXE
      
      The Autorun window appears.

2. Choose Install/Deinstall Products from the Autorun window.

   The Oracle Universal Installer Welcome window appears.

3. Choose Next.

   The File Locations window appears. Do not change the directory path in the Source field. This is the CD-ROM location of files for installation.

4. Enter the Oracle home name and directory path in which to install the Oracle8i Client Online Documentation in the Destination fields.

   The home name can be up to 16 characters in length and must only include alphanumeric characters and underscores. The default directory path is <drive with the most available space>:\ORACLE\ORA81.
5. Choose Next.
   The Summary window appears.

6. Review the space requirements to ensure that you have enough disk space and choose Install.

7. Wait for installation to complete.
   The End of Installation window appears.

8. Choose Exit to exit Oracle Universal Installer.

### Installing a Web Browser and Adobe Acrobat Reader

Installing a Web browser and Adobe Acrobat Reader enables you to take advantage of all documentation formats and functionality.

**To install a Web browser and Adobe Acrobat Reader:**

1. Ensure that you have the following Web browser and Adobe Acrobat Reader installed.

<table>
<thead>
<tr>
<th>For...</th>
<th>Use...</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Web browser</td>
<td>One of the following Java-enabled browsers:</td>
</tr>
<tr>
<td></td>
<td>- Netscape Navigator version 3.0 or later</td>
</tr>
<tr>
<td></td>
<td>Visit <a href="http://www.netscape.com">http://www.netscape.com</a></td>
</tr>
<tr>
<td></td>
<td>- Microsoft Internet Explorer version 3.0 or later</td>
</tr>
<tr>
<td></td>
<td>Visit <a href="http://www.microsoft.com">http://www.microsoft.com</a></td>
</tr>
</tbody>
</table>

**Note:** The Oracle Information Navigator can work only with a Java-enabled browser.
Viewing Documentation With a Web Browser

You can view HTML and PDF documentation from a Web browser if both a Web browser and Adobe Acrobat Reader are installed.

To view your documentation from a Web browser:

1. Follow the procedures in "Installing a Web Browser and Adobe Acrobat Reader" on page 5-11.

2. Choose Start > Programs > Oracle - HOME_NAME > Documentation Library.

   Your Web browser is automatically started, and a welcome page listing the documentation categories described in "Online Documentation Set" on page F-4 appears.

   Oracle Information Navigator also appears shortly thereafter.

3. Navigate through your Oracle8i Client Online Documentation. Nearly all documents are available for viewing in both HTML and PDF formats.

4. Choose the question mark icon to access help for instructions on using Oracle Information Navigator.

An Adobe Acrobat Reader version 3.0 or later. This component is available from either of two locations:

   From the component CD-ROM:
   1. Go to the \ACROREAD directory on the component CD-ROM.
   2. Double-click AR405ENG.EXE (or run this file from the MS-DOS command prompt).

      A wizard guides you through Adobe Acrobat Reader installation.

   From the Adobe Web site:
   Visit http://www.adobe.com
Viewing Documentation Without a Web Browser

If you do not have a Web browser installed, you can view the PDF formats of your documentation set if Adobe Acrobat Reader is installed.

To view documentation without a Web browser:

1. Open Acrobat Reader or Acrobat Exchange.
2. Choose the File > Open menu option.
3. Select the following documents based on your needs.

<table>
<thead>
<tr>
<th>If You Want to View...</th>
<th>Then...</th>
</tr>
</thead>
</table>
| A table of contents of all PDF documentation | 1. Go to the \DOC directory.  
2. Double-click INDEX.PDF.  
A top-level library of all categories appears.  
3. Select a category to access a list of individual documents. |
| An individual PDF file directly without browsing the table of contents | 1. Go to the \DOC directory.  
2. Go to an appropriate subdirectory (for example, WIN.817 contains Oracle on Windows documentation).  
3. Double-click the file you want to view. PDF files are named for the part number located on the title page of each guide (for example, A12345.PDF). |

Each individual PDF file contains a "PDF Directory" bookmark at the top of the bookmark list. Choosing this bookmark takes you up one level to the table of contents in which your individual file is located.

**Note:** Changes to Microsoft’s Internet Explorer release 3.02 to address security issues can prevent Oracle Information Navigator from starting and displaying properly. This does not affect your access to the Oracle8i Client Online Documentation.

**Note:** After several documents are opened in Adobe Acrobat Reader, you can receive an error message when trying to open an additional document, stating that the document does not exist. This error message occurs because memory is low. To solve the problem, close any open documents that you are not using, and continue.
Post-installation Configuration Tasks

This chapter identifies post-installation configuration tasks. Where appropriate, this chapter references other guides for procedures on performing these configuration tasks.

Specific topics discussed are:

- Setting NTFS File System and Windows NT Registry Permissions
- Individual Component Post-installation Configuration Tasks
Setting NTFS File System and Windows NT Registry Permissions

Oracle Corporation recommends that you configure Oracle8i database files, directories, and registry settings to allow only authorized database administrators (DBAs) to have full control. These topics describe how to perform these tasks:

- NTFS File System Security
- Windows NT Registry Security

See Also: Your Windows NT documentation for more information about modifying NTFS file system and Windows NT registry settings

NTFS File System Security

The Oracle8i database uses files to store database data, backup data, log information, and so on. To do this, the Oracle8i database process runs under a security account. This security account (the Windows NT LocalSystem account called SYSTEM) includes the ability to create and access these files. The security account is assigned to the service that the Oracle8i database uses (in the Control Panel). This account requires full file system permissions to create, read, write, delete, and execute files.

To ensure that only authorized users have full file system permissions:

1. Go into Windows NT Explorer.
2. Right-click Oracle8i database files (in the ORACLE_BASE\ORADATA\DB_NAME directory), executables and dynamic link libraries (in the ORACLE_BASE\ORACLE_HOME\BIN directory), and directories.
3. Select Properties from the menu that appears.
4. Adjust the file and directory permissions to ensure that:
   - Only the security account that the Oracle8i database is configured to use has full control permissions to these files
   - User accounts that must run Oracle applications (for example, SQL*Plus, Server Manager, and Pro*C) have read privileges on their executables (for example, SQLPLUS.EXE for SQL*Plus)

Note: The Oracle8i database uses the Windows NT LocalSystem built-in security account. Therefore, file permissions must be granted to the SYSTEM account of the local computer running the Oracle8i database.
Windows NT Registry Security

Oracle Corporation recommends that you remove write permissions from users who are not Oracle8i DBAs or system administrators in HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE of the Windows NT registry.

To remove write permissions:

1. Open the registry.
2. Go to HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE.
3. Select Permissions from the Security main menu.
   The Registry Key Permissions dialog box appears.
4. Remove write permissions from any users who are not Oracle8i DBAs or system administrators. Note that the SYSTEM account must have Full Control, since this is the account with which the Oracle8i database runs.
5. Ensure that user accounts that must run Oracle applications have read privileges.
6. Choose OK.
7. Exit the registry.
Individual Component Post-installation Configuration Tasks

Some individual components require post-installation configuration tasks. Review the following table for configuration requirements and see the sections or documents referenced for specific configuration procedures:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>See Also...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net8 network software</td>
<td>Net8 Configuration Assistant is a tool that assists you in configuring your Oracle network. If you installed Net8 Client, Net8 Configuration Assistant automatically started at the end of installation to guide you through network configuration. You can also configure your Oracle network after installation with the Net8 Configuration Assistant and Net8 Assistant tools.</td>
<td>• Net8 Administrator’s Guide and the online help available with both tools</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• “Selecting a Net8 Configuration Method” on page 4-3 for a discussion of available configuration choices</td>
</tr>
<tr>
<td>Oracle Advanced Security</td>
<td>Authentication, encryption, integrity support, and enterprise user security require configuration.</td>
<td>Oracle Advanced Security Administrator’s Guide</td>
</tr>
<tr>
<td>Oracle Enterprise Manager Console</td>
<td>After Oracle Enterprise Manager Console installation, you must perform additional setup tasks (for example, discover services, create administrator accounts, and specify preferred credentials) to manage and monitor services with Oracle Enterprise Manager.</td>
<td>Oracle Enterprise Manager Configuration Guide</td>
</tr>
<tr>
<td>Oracle Services for Microsoft Transaction Server</td>
<td>You must manually create and configure a special Windows NT service. In addition, you must install Microsoft Transaction Server, if it is not already installed.</td>
<td>• Using Microsoft Transaction Server With Oracle8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Your Microsoft documentation</td>
</tr>
<tr>
<td>Oracle Workflow Builder and Mailer</td>
<td>Perform a number of configuration procedures, including:  ■ Editing the INIT.ORA parameter file  ■ Installing and configuring a Web server  ■ Verifying your base URL  ■ Setting up Oracle Workflow Monitor and HTML help</td>
<td>• Oracle Workflow Installation Supplement</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Oracle Workflow Guide</td>
</tr>
<tr>
<td>Pro*COBOL</td>
<td>Pro*COBOL supports specific compilers.</td>
<td>Chapter 1, “Introducing Pro<em>COBOL” of Pro</em>COBOL Precompiler Getting Started for Windows</td>
</tr>
<tr>
<td>SQL*Plus help file</td>
<td>If you want to use online help with SQL<em>Plus, you must populate the SQL</em>Plus tables with help files.</td>
<td>Chapter 2, “Installing SQL<em>Plus Help and Demonstration Tables” of SQL</em>Plus Getting Started for Windows</td>
</tr>
</tbody>
</table>
This chapter describes how to deinstall Oracle components and services.
Specific topics discussed are:
- Deinstalling Oracle Components with Oracle Universal Installer
- Manually Removing All Oracle Components and Services from Your Computer
Deinstalling Oracle Components with Oracle Universal Installer

This section describes how to use Oracle Universal Installer to deinstall Oracle components (which deinstalls them from the Oracle Universal Installer inventory) instead of removing them manually. If you delete an Oracle home manually (for example, by deleting the directory structure with Windows NT Explorer), the components in that Oracle home remain registered in the Oracle Universal Installer inventory. If you then attempt an installation in the same Oracle home, some or all of the components selected may not be installed because Oracle Universal Installer determines they are already installed.

**Note:** Manual removal of components is permitted only if you exit Oracle Universal Installer during an installation. For example:

- Choosing Cancel
- Turning off the computer
- If the installation does not complete (that is, all required configuration tools do not run at the end)

In these cases, Oracle Universal Installer does not register the installation in its inventory. However, files may have been copied to your Oracle home. Remove these files manually and restart the installation.

**Task 1: Deinstall Net8 Services and Registry Entries**

If you want to deinstall Net8 Client components on Windows NT, you must first deinstall the registry entries for their services by following these steps. If you do not want to deinstall these components, go to step "Task 2: Deinstall Components with Oracle Universal Installer" on page 7-3 to complete deinstallation.

To deinstall Net8 services and registry entries:

2. If any Oracle services (names begin with Oracle) exist and have the status *Started*, select the service, and choose Stop.
3. Choose Close to exit the *Services* window.
4. Exit the Control Panel.
5. Start the registry at the MS-DOS command prompt:

```
C:\> REGEDT32
```
6. Go to HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services and delete the OracleHOME_NAME TNSListener registry entry. All other Net8 services will be automatically deleted through Oracle Universal Installer.

7. Exit the registry.

**Task 2: Deinstall Components with Oracle Universal Installer**

**To deinstall components with Oracle Universal Installer:**

1. If you want to deinstall the Net8 listener, ensure that you first follow the instructions in "Task 1: Deinstall Net8 Services and Registry Entries" on page 7-2.

2. Choose Start > Programs > Oracle Installation Products > Universal Installer.
   
   The *Welcome* window for Oracle Universal Installer appears.

3. Choose Deinstall Products.
   
   The *Inventory* window appears.

4. Expand the tree of installed components until you find the components to deinstall.

5. Check the boxes of components to deinstall.

6. Choose Remove.
   
   The *Inventory Confirmation* window appears.

7. Choose Yes to deinstall the selected components.

________________________________________________________________________

**Note:** A message may appear indicating that removing some components may cause other components to not function properly.

________________________________________________________________________

The components are deinstalled from your computer. The *Inventory* window appears without the deinstalled components.

8. Choose Close to close the *Inventory* window.

9. Choose Exit to exit Oracle Universal Installer.
Manually Removing All Oracle Components and Services from Your Computer

In rare situations, you may want to correct serious system problems by completely removing Oracle components from the computer.

Remove all Oracle components from your computer only as a last resort, and only if you want to remove all Oracle components from your system.

Removing Components on Windows NT

To remove all Oracle components from a computer on Windows NT:

Caution: These instructions remove all Oracle components, services, and registry entries from your computer. In addition, any database files under ORACLE_BASE\ORADATA\DB_NAME are also removed. Exercise extreme care when removing registry entries. Removing incorrect entries can break your system.

1. Ensure you are logged in as a user with Administrator privileges.
2. Stop all Oracle services (if any are running):
   b. If any Oracle services (their names begin with Oracle) exist and have the status Started, select the service and choose Stop.
   c. Choose Close to exit the Services window.
3. Start the registry at the MS-DOS command prompt:
   C:\> REGEDT32
4. Go to HKEY_CLASSES_ROOT.
5. Delete any key that starts with Oracle or ORCL.
6. Go to HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE.
7. Delete the ORACLE key.
8. Delete the Oracle ODBC Driver key under HKEY_LOCAL_MACHINE\SOFTWARE\ODBC\ODBCINST.INI.
Manually Removing All Oracle Components and Services from Your Computer

9. Go to HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services and remove all keys under here that begin with ORACLE.

10. Go to HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services \EventLog\Application, and remove all keys under here that begin with ORACLE.

11. Go to HKEY_CURRENT_USER\SOFTWARE\ORACLE.

12. Delete keys that start with Oracle or ORCL (if any exist).

13. Go to HKEY_CURRENT_USER\SOFTWARE\ODBC\ODBCINST.INI.

14. Delete any Oracle keys (if any exist).

15. Close the registry.


17. Choose the system variable path and modify the Path variable.

18. Remove any Oracle entries from the path. For example, if JRE was installed by Oracle, remove the %ORACLE_HOME%\BIN path and the JRE path. You may see a path similar to this one:

   C:\ORACLE\ORA81\BIN;G:\PROGRAM FILES\ORACLE\JRE\1.1.7\BIN

19. Exit the Control Panel.

20. Go to SYSTEM_DRIVE:\WINNT\PROFILES\ALL USERS\START MENU\PROGRAMS.

21. Delete the following icons:
   - Oracle - HOME_NAME
   - Oracle Installation Products
     where HOME_NAME is the previous Oracle home name.

22. Delete SYSTEM_DRIVE:\Program Files\Oracle through Windows NT Explorer.

23. Delete all ORACLE_BASE directories on your hard drive.

24. Reboot your computer.
Manually Removing All Oracle Components and Services from Your Computer

Removing Components on Windows 95 or Windows 98

To remove all Oracle components from a computer on Windows 95 or 98:

1. Start the registry at the MS-DOS command prompt:
   
   C:\> REGEDIT

2. Go to HKEY_CLASSES_ROOT.

3. Delete any key that starts with Oracle or ORCL.

4. Go to HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE.

5. Delete the ORACLE key.

6. Delete the Oracle ODBC Driver key under HKEY_LOCAL_MACHINE\SOFTWARE\ODBC\ODBCINST.INI.

7. Go to HKEY_CURRENT_USER\SOFTWARE\ORACLE.

8. Delete keys that start with Oracle or ORCL (if any exist).

9. Go to HKEY_CURRENT_USER\SOFTWARE\ODBC\ODBCINST.INI.

10. Delete any Oracle keys.

11. Edit your AUTOEXEC.BAT file and remove your %ORACLE_HOME%\BIN and JRE paths from the path setting.

12. Delete SYSTEM_DRIVE:\Program Files\Oracle through Windows Explorer.

13. Delete icons from:
   - SYSTEM_DRIVE:\WINDOWS\START MENU\PROGRAMS\ORACLE - HOME_NAME
   - SYSTEM_DRIVE:\WINDOWS\START MENU\PROGRAMS\ORACLE INSTALLATION PRODUCTS

   where HOME_NAME is the previous Oracle home name.

14. Delete all ORACLE_BASE directories on your hard drive.

15. Reboot your computer.
Individual Components Available for Installation

This appendix lists the individual components available with each installation type. Specific topics discussed are:

- Oracle8i Client Components
- Components Not Available with 8.1.7

**Note:** The Custom installation type is not listed for any of the above three top-level components since it allows you to install all components in the current category. Some components can only be installed through a Custom installation. Such components have an availability of "No" listed for other installation types in the tables in this appendix.

**Note:** This appendix identifies higher-level components available with each installation type. To access a list of all components and features installed (including lower-level components such as Required Support Files or Common Files), see "Reviewing a Log of an Installation Session" on page 5-9.
## Oracle8i Client Components

This table alphabetically lists the components available with each installation type of Oracle8i Client.

<table>
<thead>
<tr>
<th>Component</th>
<th>Oracle8i Client</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Administrator</td>
</tr>
<tr>
<td>Advanced Queueing API</td>
<td>Yes</td>
</tr>
<tr>
<td>Net8 Client, includes:</td>
<td>Yes</td>
</tr>
<tr>
<td>- Net8 Assistant</td>
<td>Yes</td>
</tr>
<tr>
<td>- Net8 Configuration Assistant</td>
<td>Yes</td>
</tr>
<tr>
<td>- Oracle Protocol Support</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Note:</strong> When Net8 Client is installed through the Typical or Minimal installation type, Oracle Protocol Support is automatically installed for the networking protocols detected. If Oracle Protocol Support is selected through the Custom installation type, you are prompted to select the additional networking protocols for which you want support (SPX and LU6.2). Named Pipes and TCP/IP protocol support is automatically installed and cannot be de-installed.</td>
<td></td>
</tr>
<tr>
<td>Object Type Translator, includes:</td>
<td>Yes</td>
</tr>
<tr>
<td>- Oracle INTYPE File Assistant</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle Advanced Security, includes:</td>
<td>Yes</td>
</tr>
<tr>
<td>1. Encryption and Integrity Support, includes:</td>
<td>Yes</td>
</tr>
<tr>
<td>- DES40 Encryption</td>
<td>Yes</td>
</tr>
<tr>
<td>- DES56 Encryption</td>
<td>Yes</td>
</tr>
<tr>
<td>- 3DES_112 Encryption (2-key option)</td>
<td>Yes</td>
</tr>
<tr>
<td>- 3DES_168 Integrity (3-key option)</td>
<td>Yes</td>
</tr>
<tr>
<td>- RC4_40 Encryption</td>
<td>Yes</td>
</tr>
<tr>
<td>- RC4_56 Encryption</td>
<td>Yes</td>
</tr>
<tr>
<td>- RC4_128 Encryption</td>
<td>Yes</td>
</tr>
<tr>
<td>- RC4_256 Integrity</td>
<td>Yes</td>
</tr>
<tr>
<td>- SHA-1 Integrity</td>
<td>Yes</td>
</tr>
<tr>
<td>- MD5 Integrity</td>
<td>Yes</td>
</tr>
<tr>
<td>Component</td>
<td>Oracle8i Client Components</td>
</tr>
<tr>
<td>-----------</td>
<td>----------------------------</td>
</tr>
<tr>
<td><strong>2. Thin JDBC Java-based Encryption Support, includes:</strong></td>
<td><strong>Administrator</strong></td>
</tr>
<tr>
<td>- DES40 Encryption</td>
<td>Yes</td>
</tr>
<tr>
<td>- DES56 Encryption</td>
<td>Yes</td>
</tr>
<tr>
<td>- RC4_40 Encryption</td>
<td>Yes</td>
</tr>
<tr>
<td>- RC4_56 Encryption</td>
<td>Yes</td>
</tr>
<tr>
<td>- RC4_128 Encryption</td>
<td>Yes</td>
</tr>
<tr>
<td>- RC4_256 Integrity</td>
<td>Yes</td>
</tr>
<tr>
<td>- SHA-1 Integrity</td>
<td>Yes</td>
</tr>
<tr>
<td>- MD5 Integrity</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>3. Authentication Support, includes:</strong></td>
<td></td>
</tr>
<tr>
<td>- CyberSafe (with SSO support)</td>
<td>No</td>
</tr>
<tr>
<td>- DCE (with SSO support)</td>
<td>No</td>
</tr>
<tr>
<td>- Entrust</td>
<td>No</td>
</tr>
<tr>
<td>- Identix (for Biometrics)</td>
<td>Yes</td>
</tr>
<tr>
<td>- Kerberos (with SSO support)</td>
<td>Yes</td>
</tr>
<tr>
<td>- RADIUS (for Smart Cards, Token Cards, and Biometrics)</td>
<td>Yes</td>
</tr>
<tr>
<td>- SecurID (for Token Cards)</td>
<td>Yes</td>
</tr>
<tr>
<td>- Secure Socket Layer (with X.509 version 3 and SSO support)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Note:** Kerberos, SecurID, and Radius are installable through the Custom installation *Authentication Methods* window. Identix, CyberSafe, and Entrust only appear for installation in this window if the appropriate third-party software is installed. DCE is only installable through the Custom installation *Available Product Components* window.

**4. Enterprise User Security, includes:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Oracle8i Client Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Oracle Enterprise Login Assistant</td>
<td>Yes</td>
</tr>
<tr>
<td>- Oracle Enterprise Security Manager (started through Oracle Enterprise Manager Integrated Applications)</td>
<td>Yes</td>
</tr>
<tr>
<td>- Oracle Wallet Manager</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Note:** Oracle Enterprise Login Assistant, Oracle Enterprise Security Manager, and Oracle Wallet Manager are features of Oracle Advanced Security and can only be used if you have purchased an Oracle Advanced Security license.
### Oracle8i Client Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Administrator</th>
<th>Programmer</th>
<th>Application User</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Call Interface</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle Enterprise Java Beans and CORBA Tools</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Oracle Enterprise Manager, includes:</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>1. Oracle Enterprise Manager Client, includes:</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>■ Oracle Enterprise Manager Console</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>■ Oracle Enterprise Manager Events</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>■ Oracle Enterprise Manager Migration Assistant</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>■ Oracle DBA Management Pack, includes:</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><em>Oracle DBA Studio</em>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Oracle Instance Manager</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Oracle Schema Manager</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Oracle Security Manager</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Oracle Storage Manager</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>SQL*Plus Worksheet</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>■ Oracle Enterprise Manager Integrated Applications, includes:</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Oracle Enterprise Security Manager</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Note: Licensed through Oracle Advanced Security.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle Parallel Server Manager</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Oracle <em>inter</em>Media Text Manager</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Oracle Forms Server Manager</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Oracle Spatial Index Advisor</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Oracle Directory Manager</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2. Oracle Enterprise Manager Paging Server</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>3. Oracle Enterprise Manager Quick Tours</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Oracle <em>inter</em>Media Client Option</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle Internet Directory Client</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

---

A-4  Oracle8i Client Installation Guide for Windows
<table>
<thead>
<tr>
<th>Component</th>
<th>Administrator</th>
<th>Programmer</th>
<th>Application User</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle JDBC Drivers, includes:</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle JDBC Thin Driver for JDK 1.1</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle JDBC Thin Driver for JDK 1.2</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle JDBC/OCI Driver for JDK 1.1</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle JDBC/OCI Driver for JDK 1.2</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Oracle Migration Workbench</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Oracle Objects for OLE</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle ODBC Driver</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle Provider for OLE DB</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle Services for Microsoft Transaction Server</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle SQLJ, includes:</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>SQLJ Runtime</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>SQLJ Translator</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Oracle Universal Installer, includes:</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle’s version of Java Runtime Environment</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle Home Selector</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle Utilities, includes:</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Export</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Import</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Recovery Manager</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>SQL*Loader</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle Visual Information Retrieval Client</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle Workflow Builder</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Oracle Workflow Mailer</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Oracle XML Developer’s Kit</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle XML SQL Utility</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Oracle8i Windows Documentation (installation guide and release notes)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Components Not Available with 8.1.7

The following components that were part of 8.1.6 are not available for installation with 8.1.7:

- Oracle Web Publishing Assistant
- Oracle AppWizard for Microsoft Visual C++

---

<table>
<thead>
<tr>
<th>Component</th>
<th>Oracle8/Client</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Administrator</td>
</tr>
<tr>
<td>PL/SQL</td>
<td>Yes</td>
</tr>
<tr>
<td>Pro*C/C++</td>
<td>Yes</td>
</tr>
<tr>
<td>Pro*COBOL 8.1.7</td>
<td>No</td>
</tr>
<tr>
<td>Pro*COBOL 1.8.52</td>
<td>Yes</td>
</tr>
<tr>
<td>Replication API</td>
<td>Yes</td>
</tr>
<tr>
<td>SQL*Plus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

1 Includes functionality for Oracle Replication Manager.

See Also: "Component Descriptions" on page B-2 for descriptions and release numbers of these components.
Individual Component Descriptions

This appendix provides descriptions and release numbers of the individual components available with each installation type.

The specific topic discussed is:

- Component Descriptions

---

**Note:** Components that require a separate license are identified in their descriptions in this appendix.

---

**Note:** Component descriptions are also provided in the Available Product Components window that appears when you select the Custom installation type in Oracle Universal Installer. Drag your cursor over a specific component to display a description.
## Component Descriptions

This table provides descriptions and release numbers of individual components available for installation. References are made to documentation that more fully describes these components. Some components described below are automatically installed with other components.

<table>
<thead>
<tr>
<th>Component</th>
<th>Release</th>
<th>Description</th>
<th>See Also...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Queueing API</td>
<td>8.1.7</td>
<td>A component that provides the functionality to support the Advanced Queueing application programming interface (API).</td>
<td>Oracle8i Application Developer’s Guide - Advanced Queuing</td>
</tr>
<tr>
<td>Assistant Common Files</td>
<td>8.1.7</td>
<td>A collection of automatically installed files required by Oracle assistants. These files include:</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- BaliShare 1.0.8 (compressed)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- DBUI 1.1.2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- EWT 3.3.6 (compressed)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- ICE Browser 4.06.6 (compressed)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Java Swing Components 1.1.1 (compressed)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Kodiak 1.1.3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Oracle Help for Java 3.1.8 (compressed)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- SMUI 1.0.8</td>
<td></td>
</tr>
<tr>
<td>Java Runtime Environment</td>
<td>1.1.7.30</td>
<td>Required for running Java applications, such as Oracle Universal Installer.</td>
<td>Not applicable</td>
</tr>
<tr>
<td>(Oracle’s version)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LSM Administrator GUI</td>
<td>8.1.7</td>
<td>A client tool for administering the Legato Storage Manager (LSM) server from a separate Windows NT computer.</td>
<td>Legato Storage Manager Administrator’s Guide for Windows 2000 and Windows NT</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Appendix E, &quot;Installing and Removing Legato Components&quot;</td>
</tr>
</tbody>
</table>

B-2  Oracle8i Client Installation Guide for Windows
### Component Descriptions

<table>
<thead>
<tr>
<th>Component</th>
<th>Release</th>
<th>Description</th>
<th>See Also...</th>
</tr>
</thead>
</table>
| Legato Storage Manager (LSM) server| 8.1.7   | If you are using Recovery Manager (RMAN) for Oracle database backups, a media management component such as LSM server is required for backing up and restoring from tape. You can choose to install the media management component on your CD-ROM, which is LSM server, or use a third-party media management component that also complies with Oracle’s Backup Solutions Program. LSM server also includes a scaled-down version of Legato NetWorker. For more information on this component, call toll free (1) 888-8-LEGATO in the United States of America. | Legato Storage Manager Administrator’s Guide for Windows 2000 and Windows NT  
Appendix E, “Installing and Removing Legato Components” |
| Net8 Assistant (installed with Net8 Client) | 8.1.7   | A tool that combines configuration abilities with component control to provide an integrated environment for configuring and managing Net8. It can be used on either the client or server. Use Net8 Assistant to configure the following network components:  
- **Naming**  
  Define simple names, connect identifiers, and map them to connect descriptors to identify the network location and identification of a service. Net8 Assistant supports configuration of connect descriptors in local TNSNAMES.ORA files, a centralized LDAP-compliant directory server, or an Oracle Names server.  
- **Naming Methods**  
  Configure the different ways in which connect identifiers are resolved into connect descriptors.  
- **Listeners**  
  Create and configure listeners to receive client connections.  
If an Oracle Names server is configured, you start, stop, tune, or gather statistics with Net8 Assistant. | Net8 Administrator’s Guide |
# Component Descriptions

<table>
<thead>
<tr>
<th>Component</th>
<th>Release</th>
<th>Description</th>
<th>See Also...</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Net8 Client</strong></td>
<td>8.1.7</td>
<td>A component that provides features that enable client connections to databases across a network. A client-side application sends a request to Net8 to be transported across the network to the server. Net8 Client (and not Oracle Universal Installer) installs TCP/IP and Named Pipes, and auto-detects SPX. SPX is only installed if the appropriate software is detected on your computer. If you explicitly select this component through the Custom installation type, it will be installed even if you do not have the appropriate software on your computer.</td>
<td><strong>Net8 Administrator’s Guide</strong></td>
</tr>
<tr>
<td><strong>Net8 Configuration Assistant</strong> (installed with Net8 Client)</td>
<td>8.1.7</td>
<td>A tool that enables you to configure network components. Net8 Configuration Assistant runs automatically after installation, as described in this guide. Use it on either the client or server. It may also be run in standalone mode to configure naming methods usage, the listener, net service names in the TNSNAMES.ORA file, and directory server access.</td>
<td><strong>Net8 Administrator’s Guide</strong></td>
</tr>
<tr>
<td><strong>Object Type Translator (OTT)</strong></td>
<td>8.1.7</td>
<td>OTT is used to create C-struct representations of Abstract Data Types that have been created and stored in an Oracle database. To take advantage of objects, run OTT against the database, and a header file is generated that includes the C-structs.</td>
<td><strong>Oracle Call Interface Programmer’s Guide</strong></td>
</tr>
</tbody>
</table>
| **Oracle Advanced Security** | 8.1.7   | Oracle Advanced Security provides the following comprehensive suite of security services for Oracle8i. This multicomponent product requires a separate license.  

1. **Authentication support**  
   Strong authentication support is provided. See Appendix A, “Individual Components Available for Installation” for more information.

2. **Authorization support**  
   Authorization solutions are provided with the distributed computing environment (DCE), and with the enterprise role management functionality in Oracle Advanced Security.

3. **Encryption and Integrity support**  
   Data confidentiality is ensured using the encryption and data integrity types listed in Appendix A, “Individual Components Available for Installation”.  
   **Note:** Recent changes in United States Export Administration Regulations (EAR) make it possible for Oracle Corporation to ship one edition of Oracle Advanced Security worldwide. Oracle Advanced Security includes strong encryption for protocols into the Oracle8i database that were previously available only to the U.S. and Canadian markets. | **Oracle Advanced Security Administrator’s Guide** |
<table>
<thead>
<tr>
<th>Component</th>
<th>Release</th>
<th>Description</th>
<th>See Also...</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Enterprise User Security support</td>
<td></td>
<td>Integration with Lightweight Directory Access Protocol (LDAP) v3-compliant directory services is provided, such as Oracle Internet Directory, for centralized enterprise user management, enterprise role management, and single sign-on.</td>
<td></td>
</tr>
<tr>
<td>5. Single Sign On support</td>
<td></td>
<td>Single sign on is provided (users authenticate once). Strong authentication then occurs transparently in subsequent connections. Kerberos, CyberSafe, DCE, and secure socket layer (SSL)-based single sign on are supported.</td>
<td></td>
</tr>
<tr>
<td>Oracle Call Interface (OCI)</td>
<td>8.1.7</td>
<td>An API for accessing an Oracle database from a C or C++ program. You make calls directly to the OCI functions from within your C or C++ program to direct the execution of your SQL statements.</td>
<td>Oracle Call Interface Programmer’s Guide, Oracle Call Interface Getting Started for Windows</td>
</tr>
<tr>
<td>Oracle DBA Management Pack</td>
<td>2.2</td>
<td>A set of tools and wizards bundled with Oracle Enterprise Manager. The Oracle DBA Management Pack performs most database administration tasks, and supports all versions of Oracle databases.</td>
<td>Oracle Enterprise Manager Administrator’s Guide</td>
</tr>
<tr>
<td>Oracle DBA Studio (part of Oracle DBA Management Pack)</td>
<td>2.2</td>
<td>A tool that integrates the functionality of schema, security, storage, instance, and replication management into one management tool.</td>
<td>Oracle Enterprise Manager Administrator’s Guide</td>
</tr>
<tr>
<td>Oracle Directory Manager (part of Oracle Enterprise Manager Integrated Applications)</td>
<td>2.1.1</td>
<td>A Java-based tool for administering most functional areas of Oracle Internet Directory and its related processes.</td>
<td>Oracle Internet Directory Administrator’s Guide</td>
</tr>
<tr>
<td>Oracle Enterprise Java Beans and CORBA Tools</td>
<td>8.1.7</td>
<td>An architecture for developing transactional applications as distributed components in Java.</td>
<td>Oracle8i Enterprise JavaBeans Developer’s Guide and Reference</td>
</tr>
<tr>
<td>Oracle Enterprise Login Assistant</td>
<td>1.1</td>
<td>A tool that enables single sign on, which implements a subset of Oracle Wallet Manager functionality for opening a user wallet and enabling applications to use it.</td>
<td>Oracle Advanced Security Administrator’s Guide</td>
</tr>
<tr>
<td>Component</td>
<td>Release</td>
<td>Description</td>
<td>See Also...</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>---------</td>
<td>-------------------------------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Oracle Enterprise Manager</td>
<td>2.2</td>
<td>A suite of components that provide an integrated solution for centrally managing your heterogeneous environment. Oracle Enterprise Manager combines a graphical console, Oracle Management Servers, Oracle Intelligent Agents, common services, and tools to provide an integrated, comprehensive systems management platform for managing Oracle and third-party components.</td>
<td>Oracle Enterprise Manager Administrator’s Guide</td>
</tr>
<tr>
<td>Oracle Enterprise Manager Client</td>
<td>2.2</td>
<td>The first tier of Oracle Enterprise Manager is comprised of clients such as consoles and management applications, which present graphical user interfaces to administrators for all management tasks. These client components can be installed locally or brought up with a Web browser.</td>
<td>Oracle Enterprise Manager Concepts Guide</td>
</tr>
<tr>
<td>Oracle Enterprise Manager Console</td>
<td>2.2</td>
<td>Client interface for the first tier of Oracle Enterprise Manager, which:</td>
<td>Oracle Enterprise Manager Administrator’s Guide</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Centrally administers, diagnoses, and tunes multiple databases</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Manages other Oracle components and services</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Monitors and responds to the status of Oracle components and third-party services 24 hours a day</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Schedules jobs on multiple nodes at varying time intervals</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Monitors networked services for events</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Customizes your display by organizing databases and other services into logical administrative groups</td>
<td></td>
</tr>
<tr>
<td>Oracle Enterprise Manager Events</td>
<td>2.2</td>
<td>A set of predefined event tests used to monitor your global environment for problem occurrences.</td>
<td>Oracle Enterprise Manager Administrator’s Guide</td>
</tr>
<tr>
<td>Oracle Enterprise Manager Integrated Applications</td>
<td>2.2</td>
<td>Applications integrated with Oracle Enterprise Manager for managing your Oracle environment, and installed with Oracle Enterprise Manager if your environment requires them. The applications can be accessed from the Oracle Enterprise Manager Navigator pane and/or the console application drawers, or from your operating system.</td>
<td>Oracle Enterprise Manager Administrator’s Guide</td>
</tr>
</tbody>
</table>
## Component Descriptions

<table>
<thead>
<tr>
<th>Component</th>
<th>Release</th>
<th>Description</th>
<th>See Also...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Enterprise Manager Migration Assistant</td>
<td>2.2</td>
<td>A tool that performs migration of an Oracle Enterprise Manager release 1.6 and above repository to a version 2.2 repository.   Note: Oracle Enterprise Manager Migration Assistant is only supported on Windows NT, Windows 95, Windows 2000, and Windows 98. However, the Oracle Enterprise Manager Migration Assistant can remotely migrate repository data from any release 1.x repository to release 2.2, regardless of the source and destination repository database platforms.</td>
<td>Oracle Enterprise Manager Administrator’s Guide</td>
</tr>
<tr>
<td>Oracle Enterprise Manager Paging Server</td>
<td>2.2</td>
<td>A feature that enables administrators to receive paging notifications from the console.</td>
<td>Oracle Enterprise Manager Configuration Guide</td>
</tr>
</tbody>
</table>
| Oracle Enterprise Manager Quick Tours          | 2.2     | HTML-based training tools that provide a fast and easy way to learn about a variety of Oracle Enterprise Manager components without having to actually install them. Quick tours are provided for the following components:  
- Oracle Enterprise Manager  
- Oracle DBA Management Pack  
- Change Management Pack  
- Diagnostics Pack  
- Tuning Pack  
- Management Pack for Oracle Applications  
- Management Pack for SAP R/3  
- Standard Management Pack | Oracle Enterprise Manager Administrator’s Guide |
| Oracle Enterprise Security Manager             | 2.0     | A tool that helps you administer the Oracle environment for user security using an LDAP-compliant directory server. This tool allows an administrator to manage enterprise-level role authorization among multiple databases simultaneously. | Oracle Advanced Security Administrator’s Guide   |
| Oracle Forms Server Manager                    | 2.1     | A tool that enables you to control and monitor Forms Listener, Forms Server, Load Balancer Server, and Load Balancer Client. In addition to providing basic controls such as startup and shutdown, this tool can also monitor for events that include service down, excessive memory usage, and excessive CPU usage, and can also automatically fix the problem when it occurs. | Oracle Enterprise Manager Administrator’s Guide   |
### Component Descriptions

<table>
<thead>
<tr>
<th>Component</th>
<th>Release</th>
<th>Description</th>
<th>See Also...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Home Selector</td>
<td>1.7.0</td>
<td>A tool that enables you to edit your environment path to make an appropriate Oracle home directory your primary home.</td>
<td>Chapter 3, &quot;Multiple Oracle Homes and Optimal Flexible Architecture&quot; of Oracle8i Client Administrator's Guide for Windows</td>
</tr>
<tr>
<td>(installed with Oracle Universal Installer)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle Instance Manager</td>
<td>2.2</td>
<td>A tool that manages database instances and sessions in your Oracle environment.</td>
<td>Oracle Enterprise Manager Administrator's Guide</td>
</tr>
<tr>
<td>(part of Oracle DBA Management Pack)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle Internet Directory Client</td>
<td>2.1.1</td>
<td>A component that enables the various components of the Oracle8i database to use Oracle Internet Directory for centralized storage.</td>
<td>Oracle Internet Directory Administrator's Guide</td>
</tr>
</tbody>
</table>
| Oracle Internet File System (Oracle iFS) | 1.1     | Oracle iFS makes the Oracle8i database look and act like a file system that can be accessed through Windows, the Web, FTP, and e-mail clients. Oracle iFS is also a superior development platform for many content management applications. Using Java and XML, you can leverage all the capabilities of the file system, customizing its appearance and behavior to fit your needs. | Oracle Internet File System Setup and Administration Guide  
Oracle8i Release Notes for Windows NT for information on the CD-ROMs on which Oracle iFS is shipped. |
<p>| Oracle INTYPE File Assistant      | 8.1.7   | An assistant that helps you to create an INTYPE file, which provides a list of types for the Object Type Translator to translate. This component is automatically installed with the Object Type Translator. | Oracle Call Interface Getting Started for Windows                               |
| (installed with the Object Type Translator) |         |                                                                                                                                           |                                                                             |
| Oracle Java Database Connectivity (JDBC) Drivers | 8.1.7 | A standard set of Java classes, specified by JavaSoft, that provide vendor-independent access to relational data from Java. See the component listings in Appendix A, &quot;Individual Components Available for Installation&quot; for a list of individual release numbers. | Oracle8i JDBC Developer's Guide and Reference                                |</p>
<table>
<thead>
<tr>
<th>Component</th>
<th>Release</th>
<th>Description</th>
<th>See Also...</th>
</tr>
</thead>
</table>
| Oracle Migration Workbench                    | 1.3     | Tools that simplify the process of migrating data and applications from non-Oracle databases to Oracle8i. The Oracle Migration Workbench allows you to quickly and easily migrate an entire application system (that is, the database schema including triggers and stored procedures) in an integrated, visual environment. Migrations from the following non-Oracle databases are supported:  
- Microsoft Access  
- Microsoft SQL Server  
- Sybase Adaptive Server | Oracle Migration Workbench Reference for MS Access Reference Guide  
- Oracle Migration Workbench Reference for MS SQL Server and Sybase Adaptive Server Reference Guide |
| Oracle Objects for Object Linking and Embedding (OO4O) | 8.1.7   | A custom control (OCX or ActiveX) combined with an OLE in-process server that lets you plug native Oracle8i database functionality into your Windows applications.                                                            | Online help available from the Start Menu.                                  |
| Oracle Open Database Connectivity (ODBC) Driver | 8.1.7   | A component that provides support for ODBC connections from Windows NT, Windows 2000, Windows 95, and Windows 98 client systems to Oracle8i databases. The Oracle ODBC Driver complies with Version 3.51 of the Microsoft ODBC specification.  
The SQLBulkOperations ODBC function is not supported.                                                                 | Online help available from the Start Menu.                                  |
| Oracle Parallel Server Manager (part of Oracle Enterprise Manager Integrated Applications) | 2.2     | A component that discovers and manages databases that use Oracle Parallel Server. An extension to the Oracle Enterprise Manager Console, Oracle Parallel Server Manager lists all discovered parallel servers alongside single-instance databases in the Navigator’s Databases folder. Using property sheets, you can start up and shut down databases using Oracle Parallel Server, as well as check the status of instances, datafiles, in-doubt transactions, profiles, redo log groups, roles, rollback segments, schema objects, users, and tablespaces. | Oracle Parallel Server Administrator’s Guide for Windows NT  
- Oracle8i Parallel Server Setup and Configuration Guide |
### Component Descriptions

<table>
<thead>
<tr>
<th>Component</th>
<th>Release</th>
<th>Description</th>
<th>See Also...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Protocol Support - Logical Unit Type 6.2 (LU6.2)</td>
<td>8.1.7</td>
<td>This adapter is part of the IBM Advanced Program-to-Program Communication (APPC) architecture. APPC is the IBM peer-to-peer (program-to-program) protocol for a Systems Network Architecture (SNA) network. SNA is an IBM reference model similar to the Open Systems Interconnect (OSI) model of the International Standards Organization (ISO). An SNA network with the LU6.2 and Physical Unit Type 2.1 (PU2.1) protocols provides APPC. The LU6.2 protocol defines a session between two application programs; LU6.2 is a component-independent LU-type. LU6.2 protocol support enables an Oracle application on a personal computer to communicate with an Oracle database. This communication occurs over an SNA network with the Oracle database on a host system that supports APPC.</td>
<td>Net8 Administrator’s Guide</td>
</tr>
<tr>
<td>Oracle Protocol Support - Named Pipes</td>
<td>8.1.7</td>
<td>A protocol that enables client/server conversation over a network using Named Pipes and Net8. This combination of Oracle components enables an Oracle application on a client to communicate with remote Oracle databases through Named Pipes (if the Oracle database is running on a host system that supports network communication using Named Pipes).</td>
<td>Net8 Administrator’s Guide</td>
</tr>
<tr>
<td>Oracle Protocol Support - SPX</td>
<td>8.1.7</td>
<td>A protocol that enables client/server conversation over a network using SPX/IPX and Net8. This combination of Oracle components enables an Oracle application on a client to communicate with remote Oracle databases through SPX/IPX (if the Oracle database is running on a host system that supports network communication using SPX/IPX). This protocol is predominantly used in Novell Directory Services (NDS) environments.</td>
<td>Net8 Administrator’s Guide</td>
</tr>
<tr>
<td>Oracle Protocol Support - TCP/IP</td>
<td>8.1.7</td>
<td>A protocol that enables client/server conversation over a network using TCP/IP and Net8. This combination of Oracle components enables an Oracle application on a client to communicate with remote Oracle databases through TCP/IP (if the Oracle database is running on a host system that supports network communication using TCP/IP).</td>
<td>Net8 Administrator’s Guide</td>
</tr>
<tr>
<td>Oracle Provider for OLE DB</td>
<td>8.1.7</td>
<td>Interfaces that offer high performance and efficient access to Oracle data by applications, compilers, and other database components.</td>
<td>Oracle Provider for OLE DB User’s Guide</td>
</tr>
<tr>
<td>Component</td>
<td>Release</td>
<td>Description</td>
<td>See Also...</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>---------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Oracle Schema Manager</td>
<td>2.2</td>
<td>A tool that enables you to create, alter, or drop schema objects such as clusters, indexes, snapshots, tables, and views.</td>
<td>Oracle Enterprise Manager Administrator’s Guide</td>
</tr>
<tr>
<td>(part of Oracle DBA Management Pack)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle Security Manager</td>
<td>2.2</td>
<td>A tool that manages database users and their corresponding privileges, profiles, and roles.</td>
<td>Oracle Enterprise Manager Administrator’s Guide</td>
</tr>
<tr>
<td>(part of Oracle DBA Management Pack)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle Services for Microsoft Transaction Server</td>
<td>8.1.7</td>
<td>A component that provides full integration of Oracle8 database releases 8.0.6 and 8.1.x with Microsoft Transaction Server. This component enables you to develop and deploy COM-based applications using Microsoft Transaction Server.</td>
<td>Using Microsoft Transaction Server With Oracle8</td>
</tr>
<tr>
<td>Oracle Spatial Index Advisor</td>
<td>2.2</td>
<td>A tool that helps you analyze and tune spatial indexes on data. With the analyzer, you can see if indexes are properly defined for optimum query performance. The analyzer also provides an understanding of distribution of the data through visual inspection.</td>
<td>Oracle Enterprise Manager Administrator’s Guide</td>
</tr>
<tr>
<td>(part of Oracle Enterprise Manager Integrated Applications)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle SQLJ</td>
<td>8.1.7</td>
<td>A preprocessor for Java programs with embedded SQL statements. It generates Java programs with JDBC calls.</td>
<td>Oracle8i JDBC Developer’s Guide and Reference</td>
</tr>
<tr>
<td>Oracle Storage Manager</td>
<td>2.2</td>
<td>A tool that enables you to administer tablespaces, datafiles, redo logs, and rollback segments for optimum database storage.</td>
<td>Oracle Enterprise Manager Administrator’s Guide</td>
</tr>
<tr>
<td>(part of Oracle DBA Management Pack)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle Universal Installer</td>
<td>1.7.1</td>
<td>A graphical user interface (GUI) application that lets you quickly install, update, and remove Oracle components.</td>
<td>Choose Start &gt; Programs &gt; Oracle Installation Products &gt; Universal Installer Concepts Guide</td>
</tr>
<tr>
<td>Oracle Utilities</td>
<td>8.1.7</td>
<td>A suite of components used for database administration. Oracle Utilities include Export Utility, Import Utility, SQL*Loader, and Recovery Manager.</td>
<td>Oracle8i Utilities</td>
</tr>
<tr>
<td>Oracle Visual Information Retrieval Client</td>
<td>8.1.7</td>
<td>This component provides the ability to store, retrieve, and manipulate image data managed by an Oracle8i database.</td>
<td>Oracle Visual Information Retrieval User’s Guide and Reference</td>
</tr>
<tr>
<td>Component</td>
<td>Release</td>
<td>Description</td>
<td>See Also...</td>
</tr>
<tr>
<td>------------------------</td>
<td>---------</td>
<td>----------------------------------------------------------------------------------------------</td>
<td>-------------------------------------------------</td>
</tr>
<tr>
<td>Oracle Wallet Manager</td>
<td>2.1</td>
<td>A tool that generates a public-private key pair and creates a certificate request for submission to a certificate authority, installs a certificate for the identity, and configures trusted certificates for the identity.</td>
<td>Oracle Advanced Security Administrator's Guide</td>
</tr>
<tr>
<td>Oracle Workflow Builder</td>
<td>2.5.2</td>
<td>Oracle Workflow Builder is a graphical user interface tool for creating, viewing, and modifying workflow process definitions. It contains a Navigator window to define the activities and components of your business process.</td>
<td>Oracle Workflow Guide</td>
</tr>
<tr>
<td>Oracle Workflow Mailer</td>
<td>2.5.2</td>
<td>This component performs e-mail send and response processing for the Oracle Workflow Notification System. The program sends notification e-mail messages to users and interprets user responses to complete the notifications. This component has implementations that can integrate directly with any MAPI-compliant mail application on Windows NT. Install the MAPI-compliant implementation on a Windows NT computer by selecting Oracle Workflow Mailer through the Custom installation type. This implementation requires a MAPI-compliant mail application installed on the computer and acting as your mail server.</td>
<td>Oracle Workflow Guide</td>
</tr>
</tbody>
</table>
| Oracle XML Developer's Kit | 8.1.7 | This kit consists of a set of APIs for parsing and generating XML data. These interfaces have been written for Java, C, C++, and PL/SQL. This kit consists of the following components:  
  - XML Parser for Java  
  - XML Parser for C  
  - XML Parser for C++  
  - XML Parser for PL/SQL  
  - XML Class Generator for Java  
  - XML Class Generator for C++  
  - XML Transviewer Beans  
  - XSQL Servlet | Oracle8i Application Developer's Guide - XML  
  Oracle8i XML Reference |
| Oracle XML SQL Utility  | 2.0     | This utility is a set of Java classes and PL/SQL wrappers that permit queries to return result sets or objects wrapped in XML. | Oracle8i Application Developer's Guide - XML  
  Oracle8i XML Reference |
<table>
<thead>
<tr>
<th>Component</th>
<th>Release</th>
<th>Description</th>
<th>See Also...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle8i Client Online</td>
<td>8.1.7</td>
<td>Available in HTML and PDF formats on a separate Oracle8i Client Online Documentation CD-ROM. This installation guide and the Oracle8i Release Notes for Windows NT are not on this CD-ROM.</td>
<td>Appendix F, “Getting Started with Your Documentation”</td>
</tr>
<tr>
<td>Oracle8i Windows Documentation (Installation Guide and Release Notes)</td>
<td>8.1.7</td>
<td>The installation guide (this guide) describes how to install Oracle components. The Oracle8i Release Notes for Windows NT contain important last minute information not included in the documentation library of your Oracle8i Client Online Documentation CD-ROM.</td>
<td>This installation guide Oracle8i Release Notes for Windows NT</td>
</tr>
<tr>
<td>PL/SQL</td>
<td>8.1.7</td>
<td>PL/SQL, Oracle's procedural extension of SQL, is an advanced fourth-generation programming language (4GL). It offers modern features such as data encapsulation, overloading, collection types, exception handling, and information hiding. PL/SQL also offers seamless SQL access, tight integration with the Oracle server and tools, portability, and security.</td>
<td>PL/SQL User's Guide and Reference</td>
</tr>
<tr>
<td>Pro*C/C++</td>
<td>8.1.7</td>
<td>The Pro*C/C++ precompiler takes SQL statements embedded in your C and C++ programs and converts them to standard C code. When you precompile this code, the result is a C or C++ program that you compile and use to build applications that access an Oracle database.</td>
<td>Pro<em>C/C++ Precompiler Programmer’s Guide Pro</em>C/C++ Precompiler Getting Started for Windows</td>
</tr>
<tr>
<td>Pro*COBOL</td>
<td>8.1.7</td>
<td>To access an Oracle8i database, you use a high-level query language called Structured Query Language (SQL). You often use SQL through an interactive interface, such as SQL<em>Plus. Pro</em>COBOL is a precompiler that converts SQL statements embedded within COBOL programs into standard Oracle run-time library calls. The output file can then be compiled by a COBOL compiler.</td>
<td>Pro<em>COBOL Precompiler Programmer’s Guide Pro</em>COBOL Precompiler Getting Started for Windows</td>
</tr>
<tr>
<td>and</td>
<td>1.8.52</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replication API</td>
<td>8.1.7</td>
<td>A tool that provides an API to build customized scripts for replication administration</td>
<td>Oracle8i Replication Management API Reference</td>
</tr>
<tr>
<td>SQL*Plus</td>
<td>8.1.7</td>
<td>A tool that lets you use the SQL and PL/SQL database languages in Windows environments. SQL*Plus has both command line and GUI versions.</td>
<td>SQL*Plus User’s Guide and Reference</td>
</tr>
</tbody>
</table>
## Component Descriptions

<table>
<thead>
<tr>
<th>Component</th>
<th>Release</th>
<th>Description</th>
<th>See Also...</th>
</tr>
</thead>
<tbody>
<tr>
<td>SQL*Plus Worksheet (part of Oracle DBA Management Pack)</td>
<td>2.2</td>
<td>A GUI application for manually entering SQL, PL/SQL, and database administrator commands or running stored scripts.</td>
<td>Oracle Enterprise Manager Administrator’s Guide</td>
</tr>
<tr>
<td>SQLJ Runtime (installed with Oracle SQLJ)</td>
<td>8.1.7</td>
<td>A thin layer of pure Java code that runs above the JDBC driver. When Oracle SQLJ translates your SQLJ source code, embedded SQL commands in your Java application are replaced by calls to the SQLJ runtime.</td>
<td>Oracle8i SQLJ Developer’s Guide and Reference</td>
</tr>
<tr>
<td>SQLJ Translator (installed with Oracle SQLJ)</td>
<td>8.1.7</td>
<td>A preprocessor for Java programs that contains embedded SQL statements. SQLJ Translator converts the SQL statements to JDBC calls.</td>
<td>Oracle8i SQLJ Developer’s Guide and Reference</td>
</tr>
</tbody>
</table>
| WINSOCK2 on Windows NT support | 8.1.7 | Net8 supports both the WINSOCK 1.1 and WINSOCK2 socket interface. Net8 automatically detects WINSOCK2 on Windows NT and uses it if it is available. WINSOCK2 is a standard feature of the Windows NT release 4.0 operating system. Oracle uses these WINSOCK2 features in Net8:  
- Overlapped I/O with events  
- Shared sockets (can be enabled as an optional feature) | Appendix E, "Net8 Configuration" of Oracle8i Client Administrator’s Guide for Windows |

**See Also:** Appendix A, "Individual Components Available for Installation" for the installation types under which these individual components are installed

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**B-14** Oracle8i Client Installation Guide for Windows
This appendix describes advanced installation topics.

Specific topics discussed are:

- Installing Oracle Components in Non-Interactive Mode
- Customizing Installations with Oracle Software Packager
- Installing and Using Oracle Components in Different Languages
Installing Oracle Components in Non-Interactive Mode

Typically, you run Oracle Universal Installer in interactive mode, which means you are prompted to provide information in windows. However, experienced users can also run Oracle Universal Installer in non-interactive (also called silent) mode by using response files. These are text files containing variables and values used by Oracle Universal Installer during the installation process.

Silent installations are recommended in cases when no interaction with the user is intended or when a non-graphical terminal is used. The user needs to first edit a response file to specify the components to install. With Oracle Universal Installer (OUI) release 1.7.x or earlier, the target installation system still requires login to a desktop system on Windows NT.

Using silent installation enables you to bypass the graphical user interface (GUI) of Oracle Universal Installer interactive mode. Response files are available for the following components in the \RESPONSE directory on the component CD-ROM:

<table>
<thead>
<tr>
<th>Response File Name</th>
<th>This File Silently Runs The...</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLIENTADMIN.RSP</td>
<td>Oracle8i Client Administrator installation type</td>
</tr>
<tr>
<td>CLIENTPROGR.RSP</td>
<td>Oracle8i Client Programmer installation type</td>
</tr>
<tr>
<td>CLIENTAPPUSER.RSP</td>
<td>Oracle8i Client Application User installation type</td>
</tr>
<tr>
<td>CLIENTCUSTOM.RSP</td>
<td>Oracle8i Client Custom installation</td>
</tr>
<tr>
<td>NETCA.RSP</td>
<td>Net8 Configuration Assistant to perform the configuration you receive with an Administrator, Programmer, or Application User installation type</td>
</tr>
</tbody>
</table>

Copying and Modifying a Response File

To copy and modify a response file:

1. Copy the appropriate files from the \RESPONSE directory on the component CD-ROM to your hard drive.


   The Oracle Universal Installer Concepts Guide appears in HTML format.

3. Modify the templates with any text file editor by following the instructions in both the response files and the Oracle Universal Installer Concepts Guide.
Running Oracle Universal Installer and Specifying a Response File

To run Oracle Universal Installer and specify the response file:

1. Go to the MS-DOS command prompt.
2. Go to the directory where Oracle Universal Installer is installed:
   
   ```
   C:\PROGRAM FILES\ORACLE\OUI\INSTALL> SETUP.EXE -RESPONSEFILE FILENAME [-SILENT] [-NOWELCOME]
   ```

<table>
<thead>
<tr>
<th>Where...</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILENAME</td>
<td>Identifies the specific response file</td>
</tr>
<tr>
<td>-SILENT</td>
<td>Runs Oracle Universal Installer in complete silent mode. The Welcome window is suppressed automatically. This parameter is optional. If you use -SILENT, -NOWELCOME is not necessary.</td>
</tr>
<tr>
<td>-NOWELCOME</td>
<td>Suppresses the Welcome window that appears during installation. This parameter is optional.</td>
</tr>
</tbody>
</table>

Customizing Installations with Oracle Software Packager

Oracle Software Packager enables application developers to create customized component installations with Oracle Universal Installer. Oracle Software Packager provides the following features:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step-by-step wizards</td>
<td>Enables you to define all installation properties for your computer using a graphical interface</td>
</tr>
<tr>
<td>Code block grammar</td>
<td>Enables you to define calculations and conditions with Oracle Software Packager’s own code language, which uses similar constructs to C/C++ and Java</td>
</tr>
<tr>
<td>Extensible Java libraries</td>
<td>Enables you to perform tasks through predefined action, query, and dialog libraries, including copying files, setting environment variables, and creating registry entries. Custom Java libraries can be imported into Oracle Software Packager for your specific needs.</td>
</tr>
<tr>
<td>Easy integration with other component installations</td>
<td>Does not require editing access to an installation definition for it to be defined as a dependent of the component being packaged. This makes it easy for customers, independent software vendors (ISVs), and value-added resellers (VARs) to integrate multiple components into one common bundle.</td>
</tr>
</tbody>
</table>

To find out more about Oracle Software Packager:

1. Visit the Oracle Technology Network:
   http://technet.oracle.com/
2. Choose Documentation.
3. Choose Software Packager.
4. Enter your Oracle Technology Network user name and password when prompted.

**Note:** If you do not have a user name and password, choose Cancel. You are directed to a site at which you can become a free member of the Oracle Technology Network.

Installing and Using Oracle Components in Different Languages

This section describes the following features:
- Running Oracle Universal Installer in Different Languages
- Using Oracle Components in Different Languages

Running Oracle Universal Installer in Different Languages

Oracle Universal Installer runs by default in the selected language of your operating system. Oracle Universal Installer can also be run in the following languages:

- Brazilian Portuguese
- German
- Japanese
- Simplified Chinese
- French
- Italian
- Korean
- Spanish

To run Oracle Universal Installer in a different language:
1. Change the language in which your operating system is running. For example, on Windows NT:
   a. Choose Start > Settings > Control Panel > Regional Settings.
   b. Select a language from the above list and choose OK.
2. Run Oracle Universal Installer by following the instructions in "Installing Oracle8i Client" on page 5-5.

Note: The selected language is assigned to the NLS_LANG registry parameter.

See Also: Appendix B, "Oracle8i Configuration Parameters and the Registry" of Oracle8i Client Administrator’s Guide for Windows for more information on using the registry.
Using Oracle Components in Different Languages

You can select other languages in which to use Oracle components (for example, Net8 Configuration Assistant, and so on). Note that this does not change the language in which Oracle Universal Installer is run. For the Oracle component to run in the selected language, it must be the same as the language set for your operating system. You can change your operating system language in the Control Panel’s Regional Settings window.

To use components in different languages:

1. Follow the instructions in "Installing Oracle8i Client" on page 5-5 to start Oracle Universal Installer.
2. Select Oracle8i Client.
3. Select the Custom installation type.
   The Available Product Components window appears.
4. Choose Product Languages.
   The Language Selection window appears.
5. Select a language in which to use Oracle components from the Available Languages field.
6. Use the > arrow to move the language to the Selected Languages field and choose OK.
7. Select appropriate components for installation and choose Next.

After installation is complete, the dialog box wording, messages, and online help for the installed components display in the language you selected.
This appendix describes National Language Support (NLS).
Specific topics discussed are:
- NLS_LANG Parameters
- Commonly Used Values for NLS_LANG
- NLS_LANG Settings in MS-DOS Mode and Batch Mode
NLS_LANG Parameters

Oracle provides NLS that enables users to interact with a database in their own language, as defined by the NLS_LANG parameter. When you install Oracle8i components, the NLS_LANG parameter is registered by the Net8 Client installation script.

The default value of the NLS_LANG parameter at installation is either that of the existing NLS_LANG parameter of the currently selected Oracle home, or the default language of the operating system. The default language and NLS_LANG value mappings are listed under "Commonly Used Values for NLS_LANG" on page D-3.

The NLS_LANG parameter uses the following format:

NLS_LANG = LANGUAGE_TERRITORY.CHARACTER_SET

where:

LANGUAGE Specifies the language and conventions for displaying messages, day name, and month name.

TERRITORY Specifies the territory and conventions for calculating week and day numbers.

CHARACTER_SET Controls the character set used for displaying messages.

See Also:

- Appendix B of Oracle8i Client Administrator’s Guide for Windows for more information on the subkey locations for multiple Oracle homes
- Oracle8i National Language Support Guide for information on the NLS_LANG parameter and NLS initialization parameters
Commonly Used Values for NLS_LANG

The following table lists commonly used NLS_LANG values for various languages:

<table>
<thead>
<tr>
<th>Language</th>
<th>NLS_LANG Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arabic</td>
<td>ARABIC_UNITED ARAB EMIRATES.AR8MSWIN1256</td>
</tr>
<tr>
<td>Brazilian Portuguese</td>
<td>BRAZILIAN PORTUGUESE_BRAZIL.WE8ISO8859P1</td>
</tr>
<tr>
<td>Bulgarian</td>
<td>BULGARIAN_BULGARIA.CL8MSWIN1251</td>
</tr>
<tr>
<td>Canadian French</td>
<td>CANADIAN FRENCH_CANADA.WE8ISO8859P1</td>
</tr>
<tr>
<td>Catalan</td>
<td>CATALAN_CATALONIA.WE8ISO8859P1</td>
</tr>
<tr>
<td>Croatian</td>
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<td>Dutch</td>
<td>DUTCH_THE NETHERLANDS.WE8ISO8859P1</td>
</tr>
<tr>
<td>Egyptian</td>
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</tr>
<tr>
<td>English (UK)</td>
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</tr>
<tr>
<td>Estonian</td>
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</tr>
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<td>Finnish</td>
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</tr>
<tr>
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<td>FRENCH_FRANCE.WE8ISO8859P1</td>
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<tr>
<td>German</td>
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<tr>
<td>Hebrew</td>
<td>HEBREW_ISRAEL.IW8MSWIN1255</td>
</tr>
<tr>
<td>Hungarian</td>
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</tr>
<tr>
<td>Icelandic</td>
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</tr>
<tr>
<td>Indonesian</td>
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</tr>
<tr>
<td>Italian</td>
<td>ITALIAN_ITALY.WE8ISO8859P1</td>
</tr>
<tr>
<td>Japanese</td>
<td>JAPANESE_JAPAN.JA16SJIS</td>
</tr>
<tr>
<td>Korean</td>
<td>KOREAN_KOREA.KO16KSC5601</td>
</tr>
<tr>
<td>Language</td>
<td>NLS_LANG Value</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------------------------------------</td>
</tr>
<tr>
<td>Latin American Spanish</td>
<td>LATIN_AMERICAN_SPANISH_AMERICA.WE8ISO8859P1</td>
</tr>
<tr>
<td>Latvian</td>
<td>LATVIAN_LATVIA.BLT8MSWIN1257</td>
</tr>
<tr>
<td>Lithuanian</td>
<td>LITHUANIAN_LITHUANIA.BLT8MSWIN1257</td>
</tr>
<tr>
<td>Mexican Spanish</td>
<td>MEXICAN_SPANISH_MEXICO.WE8ISO8859P1</td>
</tr>
<tr>
<td>Norwegian</td>
<td>NORWEGIAN_NORWAY.WE8ISO8859P1</td>
</tr>
<tr>
<td>Polish</td>
<td>POLISH_POLAND.EE8MSWIN1250</td>
</tr>
<tr>
<td>Portuguese</td>
<td>PORTUGUESE_PORTUGAL.WE8ISO8859P1</td>
</tr>
<tr>
<td>Romanian</td>
<td>ROMANIAN_ROMANIA.EE8MSWIN1250</td>
</tr>
<tr>
<td>Russian</td>
<td>RUSSIAN_CIS.CL8MSWIN1251</td>
</tr>
<tr>
<td>Simplified Chinese</td>
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</tr>
<tr>
<td>Slovak</td>
<td>SLOVAK_SLOVAKIA.EE8MSWIN1250</td>
</tr>
<tr>
<td>Spanish</td>
<td>SPANISH_SPAIN.WE8ISO8859P1</td>
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<tr>
<td>Swedish</td>
<td>SWEDISH_SWEDEN.WE8ISO8859P1</td>
</tr>
<tr>
<td>Thai</td>
<td>THAI_THAILAND.TH8TISASCII</td>
</tr>
<tr>
<td>Traditional Chinese</td>
<td>TRADITIONAL_CHINESE_TAIWAN.ZHT16MSWIN950</td>
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<tr>
<td>Turkish</td>
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</tr>
<tr>
<td>Ukrainian</td>
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</tr>
<tr>
<td>Vietnamese</td>
<td>VIETNAMESE_VIETNAM.VN8MSWIN1258</td>
</tr>
</tbody>
</table>
NLS_LANG Settings in MS-DOS Mode and Batch Mode

When using the Oracle Internet Directory command line tools and Oracle utilities such as SQL*Plus, SQL Loader, Import, and Export in MS-DOS mode, the character set field of the NLS_LANG parameter for the session must first be set to the correct value.

Note: Oracle Internet Directory command line tools are run from the computer’s MS-DOS command prompt. You do not need a UNIX emulation utility for Windows NT to run these tools. An emulation utility is only required for running Oracle Internet Directory’s shell script tools. See Oracle Internet Directory Administrator’s Guide for more information.

This is required because MS-DOS mode uses, with a few exceptions, a different character set (or code-page), for example, OEM code-page, from Windows (ANSI code-page), and the default Oracle home NLS_LANG parameter in the registry is always set to the appropriate Windows code-page. If the NLS_LANG parameter for the MS-DOS mode session is not set appropriately, error messages and data can be corrupted due to incorrect character set conversion.

For Japanese, Korean, Simplified Chinese, and Traditional Chinese, the OEM code-page is identical to the ANSI code-page. In this case, there is no need to set the NLS_LANG parameter in MS-DOS mode.

Similarly, in batch mode, set the correct character set value of the NLS_LANG by inserting a SET NLS_LANG command at the start of the batch procedure, according to the character set of the files to be processed in the procedure.

The following table lists the Oracle character sets that correspond to the OEM primary code-page in MS-DOS mode for each of the supported languages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Character Set</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arabic</td>
<td>AR8ASMO8X</td>
</tr>
<tr>
<td>Brazilian Portuguese</td>
<td>WE8PC850</td>
</tr>
<tr>
<td>Catalan</td>
<td>WE8PC850</td>
</tr>
<tr>
<td>Czech</td>
<td>EE8PC852</td>
</tr>
<tr>
<td>Danish</td>
<td>WE8PC850</td>
</tr>
<tr>
<td>Dutch</td>
<td>WE8PC850</td>
</tr>
<tr>
<td>English</td>
<td>US8PC437</td>
</tr>
<tr>
<td>Language</td>
<td>Character Set</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Finnish</td>
<td>WE8PC850</td>
</tr>
<tr>
<td>French</td>
<td>WE8PC850</td>
</tr>
<tr>
<td>German</td>
<td>WE8PC850</td>
</tr>
<tr>
<td>Greek</td>
<td>EL8PC737</td>
</tr>
<tr>
<td>Hungarian</td>
<td>EE8PC852</td>
</tr>
<tr>
<td>Italian</td>
<td>WE8PC850</td>
</tr>
<tr>
<td>Japanese</td>
<td>JA16SJIS</td>
</tr>
<tr>
<td>Korean</td>
<td>KO16KSC5601</td>
</tr>
<tr>
<td>Latin American Spanish</td>
<td>WE8PC850</td>
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<tr>
<td>Norwegian</td>
<td>WE8PC850</td>
</tr>
<tr>
<td>Polish</td>
<td>EE8PC852</td>
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<tr>
<td>Portuguese</td>
<td>WE8PC850</td>
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<td>Romanian</td>
<td>EE8PC852</td>
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<tr>
<td>Russian</td>
<td>RU8PC866</td>
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<tr>
<td>Simplified Chinese</td>
<td>ZHS16GBK</td>
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<tr>
<td>Slovak</td>
<td>EE8PC852</td>
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<td>Traditional Chinese</td>
<td>ZHT16MSWIN950</td>
</tr>
<tr>
<td>Turkish</td>
<td>TR8PC857</td>
</tr>
</tbody>
</table>

**See Also:** Chapter 11 of the *Oracle Internet Directory Administrator’s Guide* for Oracle Internet Directory NLS issues and required NLS_LANG environment variables for the various components and tools in an Oracle Internet Directory environment.
Installing and Removing Legato Components

This appendix describes how to install and remove Legato Storage Manager (LSM) components.

Specific topics discussed are:

- LSM Server
- LSM Administrator GUI

**Note:** You do not need to separately install these two Legato components on the same computer. The LSM server software includes LSM Administrator GUI. If you install LSM server, do not separately install LSM Administrator GUI on the same computer. To administer LSM server from a separate Windows NT or Windows 2000 computer, install LSM Administrator GUI on that Windows NT or Windows 2000 computer using the instructions in "Installing LSM Administrator GUI" on page E-7.
LSM Server

LSM server is a media management layer (MML). An MML, such as LSM, is required for backing up and restoring from tape storage if you are using Recovery Manager (RMAN) for Oracle database backups and restores. LSM is a scaled-down version of Legato NetWorker.

This section describes how to perform the following steps:

- Updating LSM Server
- Installing LSM Server
- Removing LSM Server

Note: If you install LSM server software according to the instructions in this section, you do not need to separately install LSM Administrator GUI on the same computer.

Updating LSM Server

To update to a newer version of LSM server on Windows NT:

1. Perform a partial removal of LSM server by following the steps in "Removing LSM Server" on page E-5 and selecting Partial Removal.

2. Install the updated version of LSM server by following the steps in "Installing LSM Server" on page E-3.
Installing LSM Server

Install LSM server without using Oracle Universal Installer.

To install LSM server:

1. Log on to the computer as a member of the Administrator’s group of Windows NT or Windows 2000.
2. Shut down all Oracle instances on the Windows system, using SQL*Plus.
3. Stop all Oracle database services. Oracle database services are of the form OracleServiceSID.
   a. Choose Start > Settings > Control Panel.
   b. Choose Services.
   c. Select OracleServiceSID, and choose Stop.
   d. Choose Close to exit from the Services window.
4. Insert the component CD-ROM into the CD-ROM drive. The Autorun window appears.
   If the Autorun window does not appear:
   a. Choose Start > Run.
   b. Enter the following:

      DRIVE_LETTER: \AUTORUN\AUTORUN.EXE

      The Autorun window appears.
5. Choose Explore CD.
6. Go to the LSM directory.
7. Double-click the LSM57_NT.EXE self-extracting zip file.
8. Specify a directory in which to unzip the files when prompted.
9. Double-click the LSMINST.EXE file icon.

When the installation is complete, the LSM server software is installed in the C:\WIN32APP\NSR directory by default.
10. Verify that Legato services have started:
   a. Choose Start > Settings > Control Panel.
   b. Double-click Services.
   c. Check that the Status of the following services is marked Started:
      NetWorker Backup and Recover Server
      NetWorker Power Monitor (on Windows 2000 only)
      NetWorker Remote Exec Service

11. Add the LSM installation directory to your system search path:
   a. Open the Control Panel.
   b. Double-click System.
   c. Choose the Environment tab.
   d. Select Path from the System Variables list box.
   e. Add the following to the Value field:
      ;C:\WIN32APP\NSR\BIN
      where the semicolon (;) separates the new entry from the existing entries. If you installed LSM in a nondefault drive or directory, replace C:\WIN32APP\NSR\BIN above with the correct drive and pathname, where the pathname always ends in \BIN.

Important: Running LMINST.EXE installs the LSM server software in C:\WIN32APP\NSR by default. If you do not want LSM server installed in this directory due to insufficient space, lack of a C: drive, and so on, follow these instructions:

1. Copy the entire LSM directory from the CD-ROM to the drive in which you want to install LSM server.
2. Modify the SERVER.ISS file located in the LSM directory. Change Path=C:\WIN32APP\NSR\ to Path=<drive>:<pathname>. You can change either the drive name (from the default C:) or the directory pathname (from the default \WIN32APP\NSR\), or both. The Path must end with \NSR and must not contain any spaces. Save the updated SERVER.ISS file.
3. Double-click the LMINST.EXE file icon.
   Follow the instructions below to verify the installation.
f. Choose Set.
g. Choose OK.
h. Restart your computer for all changes to take effect.

See Also: The "Media Management" section in the Legato Storage Manager Administrator’s Guide for storage device configuration information

Removing LSM Server

Important: Do not remove your indexes if you are upgrading from LSM to Legato NetWorker Module for Oracle. Select Partial Removal. Ensure that you have a recent, full backup of the file indexes (\NSR\INDEX), server resource files (\NSR\RES), and media database (\NSR\MM) available. See the Installation Guide for the Legato NetWorker Module for the Oracle version to which you are upgrading.

You cannot remove LSM server using Oracle Universal Installer. Follow the steps below to remove the LSM server software.

To remove LSM server:

1. Log on to the computer as a member of the Administrator’s group of Windows NT or Windows 2000.
2. Shut down all Oracle instances on the Windows system, using SQL*Plus.
3. Stop all Oracle database services. Oracle database services are of the form OracleServiceSID.
   a. Choose Start > Settings > Control Panel.
   b. Double-click Services.
   c. Select OracleServiceSID, and choose Stop.
   d. Choose Close to exit from the Services window.
4. Choose Start > Programs > NetWorker Group > Uninstall NetWorker.
5. Select either Complete Removal or Partial Removal.

Note: Select Complete Removal only if you want to remove all your database, index, and resource files.
The NetWorker Uninstaller removes LSM from your computer.

6. If you are updating from a previous version of the LSM server software on Windows NT, remove the interface file, ORASBT.DLL, from the C:\WINNT\SYSTEM32 directory, where WINNT is the installation directory for Windows NT.

7. If you selected Partial Removal, be sure to remove the NSR\BIN directory manually. For example, if LSM was installed in the default directory, be sure to remove the C:\WIN32APP\NSR\BIN directory.

**LSM Administrator GUI**

If you want to administer LSM server from a separate Windows NT or Windows 2000 computer, you need to install LSM Administrator GUI (included on the component CD-ROM) on the computer.

This section describes how to perform the following steps:

- Updating LSM Administrator GUI
- Installing LSM Administrator GUI
- Removing LSM Administrator GUI

**Updating LSM Administrator GUI**

To update to a newer version of LSM Administrator GUI on your Windows NT client computer:

1. Perform a complete removal of the existing LSM Administrator GUI using the procedure in "Removing LSM Administrator GUI" on page E-8.

2. Install the updated version of LSM Administrator GUI using the procedure in "Installing LSM Administrator GUI" on page E-7.
Installing LSM Administrator GUI

If you plan to use LSM server to back up to tape, and want to administer LSM server from a Windows NT or Windows 2000 client computer, you need to install LSM Administrator GUI on the client computer.

---

**Note:** Installation of LSM Administrator GUI is supported only on Windows NT and Windows 2000. Also, before you install LSM Administrator GUI, be sure that LSM server and NetWorker software are not currently installed on your Windows NT or Windows 2000 client computer.

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To install LSM Administrator GUI on your Windows NT or Windows 2000 client computer:

1. Log on to the computer as a member of the Administrator’s group of Windows NT or Windows 2000.
2. Insert the component CD-ROM into your CD-ROM drive.
3. Navigate to the LSM folder on the CD-ROM.
5. Specify a directory in which to unzip the files when prompted.
6. Double-click the SETUP.EXE icon, or run SETUP.EXE from the MS-DOS command prompt without any command options. SETUP Options appears.
7. Select Client Only and choose Next.
8. Choose Next in the Choose destination directory window to accept the default destination directory, C:\Program Files\NSR, for LSM Administrator GUI installation. To choose an alternate destination directory for the installation, choose Browse and select the desired location.
9. Leave the field blank and choose Next in the Authorize NetWorker Servers window.
   A message box appears stating that the software has been installed successfully.
10. Choose OK.
11. Verify that Legato services have started:
   a. Choose Start > Settings > Control Panel.
   b. Double-click Services.
   c. Check that the Status of the following services is marked *Started*:
      - NetWorker Power Monitor (on Windows 2000 only)
      - NetWorker Remote Exec

*See Also:* *Legato Storage Manager Administrator’s Guide* for more information on using LSM Administrator GUI

**Removing LSM Administrator GUI**

To remove LSM Administrator GUI from your Windows NT or Windows 2000 client computer:

1. Log on to the computer as a member of the Administrator's group of Windows NT or Windows 2000.
2. Shut down all Oracle instances on the Windows system, using SQL*Plus.
3. Stop all Oracle database services. Oracle database services are of the form OracleServiceSID.
   a. Choose Start > Settings > Control Panel.
   b. Double-click Services.
   c. Select OracleServiceSID, and choose Stop.
   d. Choose Close to exit from the *Services* window.
4. Choose Start > Programs > NetWorker Group > Uninstall NetWorker.
5. Select Complete as the uninstall option in the *Uninstall NetWorker* window, and choose OK.
6. When a message box appears stating that the client has been removed successfully, choose OK.
Getting Started with Your Documentation

This appendix introduces you to the documentation set.

Specific topics discussed are:

- Documentation Formats
- Documentation Types

See Also:

- "Viewing Documentation on the CD-ROM" on page 1-7 for instructions on viewing the Oracle8i Client Online Documentation from the CD-ROM
- "Installing and Viewing the Oracle8i Client Online Documentation" on page 5-10 for instructions on installing the Oracle8i Client Online Documentation on your hard drive

Note: The Oracle8i Client Online Documentation CD-ROM does not include this installation guide or the Oracle8i Release Notes for Windows NT. Access those documents after installation by:

- Choosing Start > Programs > Oracle - Home Name > Installation Guide and Release Notes
- Clicking INSTALL.HTM in the \DOC directory on your hard drive

You can also access those documents on the component CD-ROM by clicking INDEX.HTM in the \DOC directory.
Documentation Formats

The Oracle documentation library is included on a separate Oracle8i Client Online Documentation CD-ROM. This table describes the format and availability of Oracle8i Client Online Documentation and the tools required to view them.

<table>
<thead>
<tr>
<th>Format</th>
<th>Availability</th>
<th>Tools Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hypertext Markup Language (HTML)</td>
<td>Oracle documentation is available in HTML.</td>
<td>Use a Web browser to view your HTML documentation set. The Oracle Information Navigator, a tool that enables you to search your entire HTML documentation library for information, is also available for viewing your HTML documentation set. See &quot;Installing and Viewing the Oracle8i Client Online Documentation&quot; on page 5-10 for information on Web browser requirements.</td>
</tr>
<tr>
<td>Portable Document Format (PDF)</td>
<td>Oracle documentation is available in PDF.</td>
<td>Use Adobe Acrobat Reader to view your PDF documentation set. See &quot;Installing and Viewing the Oracle8i Client Online Documentation&quot; on page 5-10 for information on Adobe Acrobat Reader requirements.</td>
</tr>
<tr>
<td>Text file format</td>
<td>Some Oracle components are also documented in README files located in the ORACLE_BASE\ORACLE_HOME\RELNOTES directory.</td>
<td>Use an ASCII text editor.</td>
</tr>
<tr>
<td>Printed</td>
<td>The How To Get Started CD-ROM insert describes how to access your Oracle documentation and get started with installation.</td>
<td>None required.</td>
</tr>
</tbody>
</table>

Note: To order printed guides, contact: http://oraclestore.oracle.com/
## Documentation Types

Your Oracle8i Client Online Documentation consists of two types of documentation.

<table>
<thead>
<tr>
<th>Documentation Type</th>
<th>Describes...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system-specific</td>
<td>Installation, configuration, and use of Oracle8i components in a Windows NT, Windows 95, Windows 98, or Windows 2000 environment. Operating system-specific documents are occasionally referred to in the generic documentation set. These documents are easy to identify because their titles typically mention their specific operating system or make reference to a Microsoft feature.</td>
</tr>
<tr>
<td>Generic</td>
<td>Oracle8i, Net8 networking information, and application programming interface (API) information that is uniform across all operating system platforms. Most of the documents in your documentation set belong to this category. While reading through the generic documentation set, you are occasionally asked to refer to your platform-specific or operating system-specific documentation for procedures specific to the Windows NT, Windows 95, or Windows 98 operating systems. To easily identify where these generic documentation references are described in your operating system documentation, see the index of this guide and the Oracle8i Client Administrator’s Guide for Windows for the following entry: generic documentation references All generic documentation references described in this guide appear under this index entry.</td>
</tr>
</tbody>
</table>

**IMPORTANT:** Documentation may be included in your package detailing components that you did not buy or license, or whose functionality is not included in the current release. The presence of such documentation does not mean that these components are included in your package or that you are licensed to use them.
Online Documentation Set

Your Oracle8i Client Online Documentation is divided into the following categories:

- Oracle8i Client for Windows
- Oracle8i Documentation Addendum
- Oracle8i Generic Documentation Master Index and Master Glossary
- Oracle8i Server and SQL*Plus
- Oracle8i Server Application Development
- Oracle8i Directory, Networking, and Security
- Oracle Enterprise Manager
- Oracle8i Java Documentation
- Oracle8i Integration Server
- Oracle8i Parallel Server
- Oracle8i interMedia, Spatial, Time Series, and Visual Information Retrieval Options
- Oracle WebDB

**Note:** Some manuals have not been updated for this release. The header at the top of each HTML page indicates the most recent revision for that document. An asterisk (*) by a title in the HTML table of contents indicates that a manual is from an earlier release and that some updated information can be found in the Oracle8i Documentation Addendum.

**Note:** Oracle Migration Workbench documentation is not included on the Oracle8i Client Online Documentation CD-ROM. The documentation is included in the \OMWB directory after Oracle Migration Workbench installation. You can also visit the Oracle Technology Network for the latest Oracle Migration Workbench documentation:

http://technet.oracle.com/
Oracle8i Client for Windows

1. Administration, Concepts, and Reference
   - Oracle8i Client Administrator’s Guide for Windows
   - Oracle Parallel Server Administrator’s Guide for Windows NT

2. SQL*Plus
   - SQL*Plus Getting Started for Windows

3. Language and Interfaces
   - Oracle Call Interface Getting Started for Windows
   - Pro*C/C++ Precompiler Getting Started for Windows
   - Pro*COBOL Precompiler Getting Started for Windows

4. Application Development
   - Oracle COM Automation Developer’s Guide
   - Oracle Objects for OLE
   - Oracle Objects for OLE C++ Class Library
   - Oracle Provider for OLE DB User’s Guide
   - Using Microsoft Transaction Server With Oracle8

5. Oracle Message Broker
   - Oracle Message Broker Installation Guide for Windows NT
     (for preinstallation and post-installation information)

6. Oracle Applications InterConnect
   - Oracle Applications InterConnect Installation Guide
     (for preinstallation, installation, and post-installation information)

7. Legato Storage Manager for Windows
   - Legato Storage Manager Administrator’s Guide for Windows 2000 and NT
   - Legato Storage Manager Command Reference Guide for Windows 2000 and NT
Oracle8i Documentation Addendum

- Oracle8i Documentation Addendum

Oracle8i Generic Documentation Master Index and Master Glossary

- Oracle8i Generic Documentation Master Index
- Oracle8i Generic Documentation Master Glossary

Oracle8i Server and SQL*Plus

1. Administration, Concepts, and Reference
   - Getting to Know Oracle8i
   - Oracle8i Administrator's Guide
   - Oracle8i Concepts
   - Oracle8i Designing and Tuning for Performance *
   - Oracle8i Error Messages *
   - Oracle8i Migration
   - Oracle8i National Language Support Guide *
   - Oracle8i Reference
   - Oracle8i SQL Reference *
   - Oracle8i Supplied Java Packages Reference
   - Oracle8i Supplied PL/SQL Packages Reference *
   - Oracle8i Utilities

2. Backup and Recovery
   - Oracle8i Backup and Recovery Guide
   - Oracle8i Recovery Manager User’s Guide and Reference *
   - Oracle8i Standby Database Concepts and Administration *
   - Legato Storage Manager Administrator’s Guide
3. SQL*Plus
   - SQL*Plus User’s Guide and Reference
   - SQL*Plus Quick Reference
   - SQL*Plus Accessibility Guide for Windows
4. Data Warehousing
   - Oracle8i Data Warehousing Guide
5. Distributed Databases and Replication
   - Oracle8i Distributed Database Systems
   - Oracle8i Replication *
   - Oracle8i Replication Management API Reference *

Oracle8i Server Application Development

1. Application Development
   - Oracle8i Application Developer’s Guide - Fundamentals
   - Oracle8i Application Developer’s Guide - Advanced Queuing
   - Oracle8i Application Developer’s Guide - Object-Relational Features
   - Oracle8i Application Developer’s Guide - Large Objects (LOBs)
   - Oracle8i Application Developer’s Guide - XML
   - Oracle8i Data Cartridge Developer’s Guide
2. Language and Interface
   - Oracle Call Interface Programmer’s Guide
   - PL/SQL User’s Guide and Reference
   - Pro*C/C++ Precompiler Programmer’s Guide
   - Pro*COBOL Precompiler Programmer’s Guide
   - SQL*Module for Ada Programmer’s Guide
3. Application Reference
   - Oracle8i SQL Reference
   - Oracle8i Supplied Java Packages Reference
   - Oracle8i Supplied PL/SQL Packages Reference *
   - Oracle8i XML Reference

Oracle8i Directory, Networking, and Security

1. Networking and Security
   - Net8 Administrator’s Guide *
   - Oracle Advanced Security Administrator’s Guide
2. Oracle Internet Directory, Release 2.1.1
   - Oracle Internet Directory Administrator’s Guide
   - Oracle Internet Directory Application Developer’s Guide

Oracle Enterprise Manager

   - Oracle Enterprise Manager Administrator’s Guide
   - Oracle Enterprise Manager Concepts Guide
   - Oracle Enterprise Manager Configuration Guide
   - Oracle Enterprise Manager Messages Manual
   - Oracle Intelligent Agent User’s Guide
   - Oracle SNMP Support Reference Guide
Oracle8i Java Documentation

- Oracle8i CORBA Developer’s Guide and Reference
- Oracle8i Enterprise JavaBeans Developer’s Guide and Reference
- Oracle8i Java Developer’s Guide
- Oracle8i Java Stored Procedures Developer’s Guide
- Oracle8i Java Tools Reference
- Oracle8i JDBC Developer’s Guide and Reference
- Oracle8i JPublisher User’s Guide
- Oracle8i Oracle Servlet Engine Release Notes
- Oracle8i Oracle Servlet Engine User’s Guide
- Oracle8i SQLJ Developer’s Guide and Reference
- Oracle8i Supplied Java Packages Reference
- Oracle JavaServer Pages Developer’s Guide and Reference

Oracle8i Integration Server

1. Oracle8i Integration Server
   - Oracle8i Integration Server Overview
2. Oracle Applications Interconnect, Release 3.1.3
   - Oracle Applications Interconnect User’s Guide
3. Oracle Message Broker, Release 2.0.1
   - Oracle Message Broker Administration Guide
   - Oracle Message Broker Release Notes
4. Oracle Workflow, Release 2.5.2
   - Oracle Workflow Guide
   - Oracle Workflow Installation Supplement
5. **Other Related Component Documentation**
   - Oracle Enterprise Manager Administrator’s Guide
   - Oracle Internet Directory Application Developer’s Guide
   - Oracle8i Application Developer’s Guide - Advanced Queuing
   - Oracle8i CORBA Developer’s Guide and Reference
   - Oracle8i Distributed Database Systems
   - Oracle8i Replication *

**Oracle8i Parallel Server**

- Oracle8i Parallel Server Documentation Online Roadmap
- Oracle8i Parallel Server Concepts *
- Oracle8i Parallel Server Setup and Configuration Guide
- Oracle8i Parallel Server Administration, Deployment, and Performance

**Oracle8i interMedia, Spatial, Time Series, and Visual Information Retrieval Options**

1. **Oracle8i interMedia Options**
   - Oracle8i interMedia Text Migration
   - Oracle8i interMedia Text Reference *
   - Oracle interMedia Audio, Image, and Video User’s Guide and Reference
   - Oracle interMedia Audio, Image, and Video Java Classes User’s Guide and Reference
   - Oracle interMedia Locator User’s Guide and Reference

2. **Oracle Spatial, Time Series, and Visual Information Retrieval Options**
   - Oracle Spatial User’s Guide and Reference
   - Oracle8i Time Series User’s Guide
   - Oracle Visual Information Retrieval User’s Guide and Reference
   - Oracle Visual Information Retrieval Java Classes User’s Guide and Reference
Oracle WebDB

- Oracle WebDB Tutorial
- Oracle WebDB Installation Guide
- Oracle WebDB Release Notes
- Oracle WebDB Creating and Managing Components - Task Help
- Oracle WebDB Creating and Managing Components - Field-Level Help
- Oracle WebDB Creating and Managing Sites - Task Help
- Oracle WebDB Creating and Managing Sites - Field-Level Help
administrative context
A directory entry under which an Oracle Context resides. An administrative context can be a directory naming context. During directory access configuration, clients are configured with an administrative context in the directory configuration file (LDAP.ORA). The administrative context specifies the location of the Oracle Context in the directory whose entries a client expects to access. On Windows 2000, your domain is your administrative context.

connect descriptor
A specially formatted description of the destination for a network connection. A connect descriptor contains destination service and network route information.

The destination service is indicated by using its service name for the Oracle8i database or its Oracle system identifier (SID) for Oracle release 8.0 or version 7 databases. The network route provides, at a minimum, the location of the listener through use of a network address.

connect identifier
A name, net service name, or service name that resolves to a connect descriptor. Users initiate a connect request by passing a user name and password along with a connect identifier in a connect string for the service to which they want to connect, for example:

SQL> CONNECT USERNAME/PASSWORD@CONNECT_IDENTIFIER

default domain
The network domain within which most client requests take place. It can be the domain where the client resides, or a domain from which the client often requests network services. The default domain is also the client configuration parameter that
determines what domain to append to unqualified network name requests. A name request is unqualified if it does not have a ",," character within it.

**Directory Information Tree (DIT)**

A hierarchical tree-like structure in a directory server of the Distinguished Names (DNs) of the entries.

**directory naming context**

A subtree which is of significance within a directory server. It is usually the top of some organizational subtree. Some directories only allow one such context that is fixed; others allow none to many to be configured by the directory administrator.

**directory naming method**

A naming method that resolves a database service or net service name to a connect descriptor, stored in a central directory server.

A directory provides central administration of database services and net service names, reducing the work effort associated with adding or relocating services. Although net service names can be configured to alias a service, the directory can refer to a database service directly without using a net service name. To further aid with configuration ease, the database service is automatically added as an entry to the directory during installation.

**directory server**

An LDAP-compliant directory server that is accessed with the Lightweight Directory Access Protocol (LDAP). A directory can provide centralized storage and retrieval of database network components, user and corporate policies preferences, user authentication, and security information, replacing client-side and server-side localized files.

**IPC**

A protocol used by client applications that reside on the same node as the listener to communicate with the database.
installation types

When you run Oracle Universal Installer from the component CD-ROM, you are prompted to install an installation type. Each installation type contains a series of individual components. The following installation types are available for installation:

- Administrator
- Programmer
- Application User
- Custom

See Also: Appendix A, "Individual Components Available for Installation" for a list of individual components installed with each installation type

LDAP.ORA file

A file created by the Net8 Configuration Assistant that contains the following directory access information:

- Type of directory
- Location of directory
- Default administrative context the client or server uses to look up or configure connect identifiers for connections to database services

The LDAP.ORA file resides in ORACLE_BASE\ORACLE_HOME\NETWORK\ADMIN.

listener

A process that resides on the server whose responsibility is to listen for incoming client connection requests and manage the traffic to the server.

Every time a client requests a network session with a server, a listener receives the actual request. If the client’s information matches the listener’s information, the listener grants a connection to the server.
LISTENER.ORA file
A configuration file for the listener that identifies the:

- Listener name
- Protocol addresses on which it is accepting connection requests
- Services for which it is listening

The LISTENER.ORA file resides in ORACLE_BASE\ORACLE_HOME\NETWORK\ADMIN.

An Oracle8i database does not require identification of the database service because of service registration. However, static service configuration is required for an Oracle8i database if you plan to use Oracle Enterprise Manager.

local naming method
A naming method that resolves a net service name, stored in a client’s TNSNAMES.ORA file, to the network address and identification of the service. Local naming is most appropriate for simple distributed networks with a small number of services that change infrequently.

naming method
A resolution method used by a client application to resolve a connect identifier to a network address when attempting to connect to a database service. Net8 supports the following naming methods:

- Local naming
- Directory naming
- Oracle Names
- Host naming
- External naming

net service name
A simple name for a service that resolves to a connect descriptor. Users initiate a connect request by passing a user name and password along with a net service name in a connect string for the service to which they want to connect:

SQL> CONNECT USERNAME/PASSWORD@NET_SERVICE_NAME
Depending on your needs, net service names can be stored in a variety of places, including:

- Local configuration file, TNSNAMES.ORA, on each client
- Directory server
- Oracle Names server
- External naming service, such as Novell Directory Services (NDS), Network Information Service (NIS), or Cell Directory Service (CDS)

**operating system authenticated connections**

Windows NT login credentials can be used to authenticate users connecting to an Oracle8i database. The benefits of Windows NT native authentication include:

- Enabling users to connect to multiple Oracle8i databases without supplying a user name or password
- Centralizing Oracle8i database user authorization information in Windows NT, which frees Oracle8i from storing or managing user passwords

**OPSS$**

The initialization file parameter OS_AUTHENT_PREFIX enables users to specify a prefix that Oracle uses to authenticate users attempting to connect to the database. Oracle concatenates the value of this parameter to the beginning of the user’s operating system account name and password. When a connection request is attempted, Oracle compares the prefixed user name with Oracle user names in the database.

The default value of this parameter is "" (a null string), thereby eliminating the addition of any prefix to operating system account names. In earlier releases, OPSS$ (short for operating system specific) was the default setting.

**Oracle Context**

The root of a directory subtree with a relative distinguished name of cn=OracleContext, under which all Oracle software information is kept. There may be one (or more than one) Oracle Context in a directory. An Oracle Context can be associated with a directory naming context.

The Oracle Context can contain the following Oracle entries:

- Connect identifiers for use with Net8 directory naming to make database connections
- Enterprise user security for use with Oracle Advanced Security
Oracle home name
The name of the current Oracle home. Each Oracle home has a home name that distinguishes it from all other Oracle homes on your computer. During installation, you are prompted to enter an Oracle home name in the Name field of the Oracle Universal Installer’s File Locations window.

Oracle home
The directory path in which to install Oracle components (for example, D:\Oracle\Ora81). You are prompted to enter an Oracle home in the Path field of the Oracle Universal Installer’s File Locations window.

Oracle schema
A set of rules that determine what can be stored in an LDAP-compliant directory server. Oracle has its own schema that is applied to many types of Oracle entries, including Net8 entries. The Oracle schema for Net8 entries includes the attributes the entries may contain.

Oracle8i Client Online Documentation CD-ROM
The CD-ROM in your kit that includes the Oracle8i Client Online Documentation. The Oracle8i Client Online Documentation CD-ROM is separate from the component CD-ROM. The Oracle8i Client Online Documentation CD-ROM does not include this installation guide or the Oracle8i Release Notes for Windows NT. Those documents are only included on the component CD-ROM.

protocol address
An address that identifies the network address of a network object.
When a connection is made, the client and the receiver of the request, such as the listener, Oracle Names Server, or Oracle Connection Manager, are configured with identical protocol addresses. The client uses this address to send the connection request to a particular network object location, and the recipient “listens” for requests on this address. It is important to install the same protocols for the client and the connection recipient, as well as configure the same addresses.
A protocol used by client applications that reside on the same node as the listener to communicate with the database.
**SQLNET.ORA file**

A configuration file for the client or server that specifies the:
- Client domain to append to unqualified service names or net service names
- Order of naming methods for the client to use when resolving a name
- Logging and tracing features to use
- Route of connections
- Preferred Oracle Names servers
- External naming parameters
- Oracle Advanced Security parameters

The SQLNET.ORA file resides in `ORACLE_BASE\ORACLE_HOME\NETWORK\ADMIN`.

**Service registration**

A feature by which the PMON process (an instance background process) automatically registers information with a listener. Since this information is registered with the listener, the LISTENER.ORA file does not need to be configured with this static information.

Service registration provides the listener with the following information:
- Service name(s) for each running instance of the database
- Instance name(s) of the database
- Service handlers (dispatchers and dedicated servers) available for each instance
  - This allows the listener to direct a client’s request appropriately.
- Dispatcher, instance, and node load information
  - This allows the listener to determine which dispatcher can best handle a client connection’s request. If all dispatchers are blocked, the listener can spawn a dedicated server for the connection.

**TNSNAMES.ORA file**

A configuration file that contains net service names mapped to connect descriptors. This file is used for the local naming method. The TNSNAMES.ORA file resides in `ORACLE_BASE\ORACLE_HOME\NETWORK\ADMIN`.

**Unqualified name**

A net service name that does not contain a network domain.
Numerics

3DES_112 encryption support
   installation types available with, A-2
3DES_168 integrity support
   installation types available with, A-2

A

Active Directory support
   new feature for 8.1.6, 1-5
   preinstallation requirements for integration with Oracle, 3-4
administrative context
   configuration, 4-4, 4-5
   defined, Glossary-1
Administrator installation type
   components installed with, A-2
   defined, 2-3
   installing, 5-6
   system requirements for, 3-3
Administrators group
   requirements for Oracle installations, 5-3
Adobe Acrobat Reader
   installing from the component CD-ROMs, 5-12
   memory error, 5-13
   viewing documentation after installation, 5-13
   viewing PDF documentation only from the CD-ROM, 1-8
Advanced Program-to-Program Communication (APPC)
   defined, B-10
Advanced Queueing API
   defined, B-2
   installation types available with, A-2
APPC architecture, B-10

Application User installation type
   components installed with, A-2
   defined, 2-3
   installing, 5-6
   system requirements for, 3-3
Assistant Common Files
   defined, B-2
authentication support
   defined, B-4
   installation types available with, A-3
   preinstallation requirements, 3-4
authorization support
   defined, B-4

B

backslash (\)
   defined, xvi
BaliShare, B-2
batch mode
   setting the NLS_LANG parameter, D-5
browsers
   Java-enabled, 5-11

C

C:\>
   defined, xvi
Choose Start >
   defined, xvi
CLIENTADMIN.RSP file
   description, C-2
CLIENTAPPUSER.RSP file
   description, C-2
CLIENTCUSTOM.RSP file
description, C-2
CLIENTPROGMR.RSP file
description, C-2
code
conventions used in this guide, xvi
components
available for installation, 2-3, A-1
descriptions, B-1
for single Oracle homes, 3-6
installing, 5-5
installing single Oracle home components a second time, 3-6
mandatory preinstallation requirements, 3-4
new for 8.1.6, 1-4
new for 8.1.7, 1-3
not available with 8.1.7, A-6
post-installation configuration guidelines, 7-4
removing manually on Windows 95/98, 8-6
removing manually on Windows NT, 8-4
removing Net8 services and registry entries, 8-2
removing with Oracle Universal Installer, 8-2
using in different languages, C-6
connect descriptor
defined, Glossary-1
connect identifier
defined, Glossary-1
contact information
Legato, B-3
Custom installation type
defined, 2-3
installing, 5-7
CyberSafe support
installation types available with, A-3
installing through the Custom installation type, 5-8

D

databases
migration requirements, 3-4
DBUI, B-2
DCE support
installation types available with, A-3
default domain
configuration, 4-4, 4-5
defined, Glossary-1
deinstallation

Index-2
CD-ROM, 1-8
viewing PDF documentation only after installation, 5-13
viewing with a Web browser, 5-12
viewing without a Web browser, 5-13

E
encryption and integrity support
defined, B-4
installation types available with, A-2
enterprise user security support
declared, B-5
installation types available with, A-3
Entrust support
installation types available with, A-3
installing through the Custom installation type, 5-8
environment
restrictions on setting ORACLE_HOME, 5-3
EWT, B-2
Export Utility, B-11
installation types available with, A-5

F
FAT
system requirements, 3-2
features
new for 8.1.6, 1-4
new for 8.1.7, 1-3
file names
convention used, xvi
file systems
system requirements, 3-2

G
generic documentation references
Windows NT-specific NLS_LANG values, D-3
Windows NT-specific NLS_TERRITORY values, D-3
getting started
overview of, 2-5

H
HOME_NAME
defined, xviii
HOMEID
defined, xviii
host naming adapter
supported vendors, 3-7
How To Get Started
CD-ROM insert, F-2
HTML
documentation format, F-2

I
ICE Browser, B-2
Identix support
installation types available with, A-3
installing through the Custom installation type, 5-8
Import Utility, B-11
installation types available with, A-5
INSTALLACTIONS.LOG file, 3-6, 5-9
installation
accessing installation documentation on the CD-ROM, 1-7
Administrator installation type, 5-6
Application User installation type, 5-6
available components, 2-3, A-1
available installation types, A-1
Custom installation type, 5-7
customizing component installations, C-4
differences between installing Oracle on UNIX and Windows NT, 5-2
in non-interactive mode, C-2
keyboard navigation, 5-2
of documentation, 5-10
overview, 2-4
preinstallation, 5-3
Programmer installation type, 5-6
restrictions on installing in pre-8.1.5 homes, 5-5
restrictions on using old Oracle Installer, 5-5
reviewing a log of an installation session, 5-9
steps, 5-5
installation documentation
defined, B-13
installation types available with, A-5
location of, F-1
installation types
available, 2-3
defined, Glossary-3
with Oracle8 Client, 3-3, A-2
IPC
defined, Glossary-2
italic letters
defined, xvi

J
Java Runtime Environment
defined, B-2
installation types available with, A-5
Oracle's version of, 5-5
restrictions on modifying, 5-5
Java Swing Components, B-2
Java-enabled browsers, 5-11
JDBC, B-8
JRE. See Java Runtime Environment

K
Kerberos support
installation types available with, A-3
installing through the Custom installation type, 5-8
keyboard
navigation, 5-2
Kodiak, B-2

L
languages
installing Oracle components in different languages, C-5
using Oracle components in different languages, C-6
LDAP-compliant directory server
configuring clients with a directory server, 4-4, 4-5
LDAP.ORA file
configuring with Net8 Configuration Assistant, 4-4, 4-5
defined, Glossary-3
Legato
component descriptions, B-2
configuring with Recovery Manager, 3-5
installing Legato components, E-1
removing Legato components, E-1
licensing issues, 2-3
listener
defined, Glossary-3
stopping before installation, 5-4
LISTENER.ORA file
defined, Glossary-4
local naming method
defined, Glossary-4
log files
reviewing an installation session, 5-9
Logical Unit Type 6.2 (LU6.2) protocol support
defined, B-10
LSM Administrator GUI
administering LSM server from a client computer, E-7
defined, B-2
installing, E-7
removing, E-8
updating, E-6
using with LSM server, E-2, E-6
LSM server
configuring with Recovery Manager, 3-5, E-2
defined, B-3, E-2
installing manually, E-3
removing, E-5
updating, E-2
using with LSM Administrator GUI, E-2, E-6
Windows NT services of, E-4, E-8
LSMINST.EXE file, E-4
LU6.2 protocol support
supported vendors, 3-7
supporting networks, B-10
supporting topologies, B-10

Index-4
M

mandatory individual component
requirements, 3-4
MD5 integrity support
installation types available with, A-2, A-3
Media Management Layer
defined, E-2
Microsoft ODBC specification
Oracle ODBC Driver compliance with, B-9
migration
from non-Oracle databases, B-9
requirements, 3-4
MS-DOS mode
setting the NLS_LANG parameter, D-5
multiple Oracle homes
defined, xvii

N

Named Pipes protocol support
defined, B-10
supported vendors, 3-7
naming method
configuration, 4-4, 4-5
defined, Glossary-4
NDS external naming support
supported vendors, 3-7
NDS Native Naming Adapter
supported vendors, 3-7
net service name
configuration, 4-4
defined, Glossary-4
Net8
configuring clients with a directory server, 4-4, 4-5
centering the client environment, 4-4
location of network configuration files, 4-3
post-installation configuration tasks, 7-4
removing, 8-2
selecting a configuration method, 4-3
supported configuration methods, 4-2
user input required for configuration, 4-2
Net8 Assistant
defined, B-3
installation types available with, A-2
Net8 Client
defined, B-4
installation types available with, A-2
installing through the Custom installation
type, 5-8
Net8 Configuration Assistant
configuring client access to a directory
server, 4-4
configuring the client environment, 4-4
configuring the LDAP.ORA file, 4-4, 4-5
configuring the SQLNET.ORA file, 4-4, 4-5
configuring the TNSNAMES.ORA file, 4-4, 4-5
defined, B-4
installation types available with, A-2
NETCA.RSP file
description, C-2
network
location of network configuration files, 4-3
selecting a Net8 configuration method, 4-3
topologies supporting LU6.2 protocol, B-10
network protocols
Oracle support for, A-2
new features and components
for 8.1.6, 1-4
for 8.1.7, 1-3
NLS support, D-3
NLS_LANG parameter, D-2
setting in MS-DOS mode and batch mode, D-5
territory and character set defaults, D-3
non-interactive installation
overview, C-2
NTFS
file system permission setting, 7-2
system requirements, 3-2

O

Object INTYPE File Assistant
installation types available with, A-2
Object Type Translator
defined, B-4
installation types available with, A-2
OCI
defined, B-5

Index-5
Oracle Forms Server Manager
  defined, B-7
  installation types available with, A-4
Oracle Help for Java, B-2
Oracle home
  defined, Glossary-6
  installing single homes components a second time, 3-6
  single Oracle homes components, 3-6
Oracle home name
  defined, Glossary-6
  maximum length, 5-5
Oracle Home Selector
  defined, B-8
  installation types available with, A-5
Oracle Information Navigator
  disabling, 1-8
  starting, 1-7
  using, 1-8
Oracle Instance Manager
  defined, B-8
  installation types available with, A-4
Oracle interMedia Client Option
  installation types available with, A-4
Oracle interMedia Text Manager
  installation types available with, A-4
Oracle Internet Directory
  NLS issues, D-6
  required NLS_LANG environment variables for tools, D-6
  running command line tools in MS-DOS mode, D-5
Oracle Internet Directory Client
  defined, B-8
  installation types available with, A-4
Oracle Internet File System
  CD-ROMs available on, B-8
  defined, B-8
Oracle INTYPE File Assistant
  defined, B-8
Oracle JDBC Drivers
  defined, B-8
  installation types available with, A-5
Oracle JDBC Thin Driver for JDK 1.1
  installation types available with, A-5
Oracle JDBC/OCI Driver for JDK 1.1
  installation types available with, A-5
Oracle JDBC/OCI Driver for JDK 1.2
  installation types available with, A-5
Oracle JDBC Thin Driver for JDK 1.2
  installation types available with, A-5
Oracle JDBC/OCI Driver for JDK 1.2
  installation types available with, A-5
Oracle Migration Workbench
  defined, B-9
  documentation available in OMWB directory, F-4
  installation types available with, A-5
  latest documentation on Oracle Technology Network, F-4
  non-Oracle databases from which migration is supported, B-9
Oracle Objects for OLE
  defined, B-9
  installation types available with, A-5
  single Oracle home component, 3-6
Oracle ODBC Driver
  compliance with Microsoft ODBC specification, B-9
  defined, B-9
  installation types available with, A-5
  single Oracle home component, 3-6
Oracle ODBC Driver
  Oracle Open Database Connectivity Driver. See Oracle ODBC Driver
Oracle Parallel Server Manager
  defined, B-9
  installation types available with, A-4
Oracle Protocol Support
  defined for LU6.2, B-10
  defined for Named Pipes, B-10
  defined for SPX, B-10
  defined for TCP/IP, B-10
  installation types available with, A-2
  installing through the Custom installation type, 5-8
Oracle Provider for OLE DB
  defined, B-10
  installation types available with, A-5
  new component for 8.1.6, 1-4
  single Oracle home component, 3-6
Oracle Replication Manager
  functionality included in Oracle DBA

Index-7
Studio, A-4

Oracle schema
defined, Glossary-6

Oracle Schema Manager
defined, B-11
installation types available with, A-4

Oracle Security Manager
defined, B-11
installation types available with, A-4

Oracle services
stopping, 5-4

Oracle Services for Microsoft Transaction Server
defined, B-11
installation types available with, A-5
installing through the Custom installation
type, 5-8
post-installation configuration tasks, 7-4
requires installation of Microsoft Transaction
Server, 5-8

Oracle Software Packager
overview, C-4
where to obtain further information, C-4

Oracle Spatial Index Advisor
defined, B-11
installation types available with, A-4

Oracle SQLJ
defined, B-11
installation types available with, A-5

Oracle Storage Manager
defined, B-11
installation types available with, A-4

Oracle Support Services
URL address of, ix

Oracle Universal Installer
configuring Net8 environment, 4-2
defined, 2-2, B-11
documentation on using, 2-2
installation types available with, A-5
installing components, 2-4
keyboard navigation, 5-2
overview of installation, 2-4
removing components, 8-3
removing Oracle components, 8-2
restrictions on installing in pre-8.1.5 homes, 5-5
running components in different languages, C-6
running in different languages, C-5
running in non-interactive mode, C-2
running Net8 Configuration Assistant, 4-3
running silently, C-2
selecting a Net8 configuration method, 4-3

Oracle Utilities
defined, B-11
Export Utility, B-11
Import Utility, B-11
installation types available with, A-5
Migration Utility, B-11
Recovery Manager, B-11
Server Manager, B-11
setting in MS-DOS mode, D-5
SQL*Loader, B-11

Oracle Visual Information Retrieval Client
defined, B-11
installation types available with, A-5
separately licensed, B-11

Oracle Wallet Manager
defined, B-12
installation types available with, A-3

Oracle Web Publishing Assistant
not available with 8.1.7, A-6

Oracle Windows NT services
stopping, 5-4

Oracle Workflow Builder
defined, B-12
installation types available with, A-5
post-installation configuration tasks, 7-4
preinstallation requirements for integration with
Oracle, 3-4

Oracle Workflow Mailer
defined, B-12
installation types available with, A-5
post-installation configuration tasks, 7-4
preinstallation requirements for integration with
Oracle, 3-4

Oracle XML Developer’s Kit
defined, B-12
installation types available with, A-5

Oracle XML SQL Utility
defined, B-12
installation types available with, A-5

ORACLE_BASE
defined, xvii
ORACLE_HOME
defined, xvii
restrictions on setting in the environment, 5-3
ORACLE_HOME environment parameter
do not set in path, 5-3
Oracle8i
differences between installing on Windows NT
and UNIX, 5-2
features of, 1-2
Oracle8i Client
installation types available with, 3-3, A-2
Oracle8i Client Online Documentation CD-ROM
defined, Glossary-6
installing, 5-10
viewing, 1-7
Oracle8i Windows Documentation
defined, B-13
installation types available with, A-5
ORASBT.DLL file, E-3, E-6
OTT
defined, B-4
installation types available with, A-2
overview
of Oracle8i for Windows NT, 1-2

P
PDF
documentation format, F-2
installing Adobe Acrobat Reader from the
component CD-ROMs, 5-12
viewing from the component CD-ROMs, 1-8
PL/SQL
defined, B-13
installation types available with, A-6
post-installation
configuration requirements for individual
components, 7-4
setting NTFS file system permissions, 7-2
setting Windows NT registry security, 7-3
preinstallation
requirements for individual components, 3-4
requirements for Oracle Advanced Security, 3-4
requirements for Oracle Enterprise Manager
Paging Server, 3-4
requirements for Oracle Workflow Builder, 3-4
requirements for Oracle Workflow Mailer, 3-4
requirements for Oracle8i integration with Active
Directory, 3-4
requirements for Recovery Manager, 3-5
stop services, 5-4
tasks, 5-3
Pro*C/C++
defined, B-13
installation types available with, A-6
Pro*COBOL
defined, B-13
installation types available with, A-6
post-installation configuration tasks, 7-4
Programmer installation type
components installed with, A-2
defined, 2-3
installing, 5-6
system requirements for, 3-3
protocol address
defined, Glossary-6
protocol stack vendors
requirements, 3-7
protocol support
 supported vendors, 3-7
protocols
 Oracle support for, A-2

R
RADIUS support
 installation types available with, A-3
Radius support
installing through the Custom installation
type, 5-8
RC4_128 encryption support
installation types available with, A-2, A-3
RC4_256 integrity support
installation types available with, A-2, A-3
RC4_40 encryption support
installation types available with, A-2, A-3
RC4_56 encryption support
installation types available with, A-2, A-3
README files
INDEX-10

SecurID Authentication Adapter

S

SecurID Support
installation types available with, A-3
installing through the Custom installation type, 5-8

Server Manager, B-11
service registration
defined, Glossary-7

services
stopping, 5-4
SHA-1 encryption support
installation types available with, A-2, A-3
silent installation
overview, C-2
single Oracle home components, 3-6
installing single home components a second time, 3-6

SMUI, B-2
SNA, B-10
SPX protocol support
defined, B-10
supported vendors, 3-7

SQL*Loader, B-11
installation types available with, A-5

SQL*Plus
defined, B-13
installation types available with, A-6
installing online help of, 7-4
setting the NLS_LANG parameter in MS-DOS mode, D-5

SQL*Plus Worksheet
defined, B-14
installation types available with, A-4

SQLJ Runtime
defined, B-14
installation types available with, A-5

SQLJ Translator
defined, B-14
installation types available with, A-5

SQLNET.ORA file
configuring with Net8 Configuration Assistant, 4-4, 4-5
defined, Glossary-7

SSL support
installation types available with, A-3
SSO support
defined, B-5
installation types available with, A-3
support
URL address of, ix
symbols
list of, xviii
System Network Architecture (SNA), B-10
system requirements
for Administrator installation type, 3-3
for Application User installation type, 3-3
for FAT and NTFS file systems, 3-2
for Oracle8i Client installation types, 3-3
for Programmer installation type, 3-3

TCP/IP protocol support
defined, B-10
supported vendors, 3-7
technical support
URL address of, ix
terminal servers
supported, 1-2
Thin JDBC Java-based encryption support
installation types available with, A-3
TNSNAMES.ORA file
configuring with Net8 Configuration Assistant, 4-4, 4-5
defined, Glossary-7

UNIX
differences between installing Oracle on Windows NT, 5-2
unqualified name
defined, Glossary-7

variables
convention used, xvi

Web browser
installing, 5-11
Microsoft Internet Directory security issues, 5-13
supported browsers for running Oracle Enterprise Manager Web Site, 3-3
viewing documentation after installation, 5-12
Windows 95
rebooting after first-time Oracle installations, 5-3
Windows 98
rebooting after first-time Oracle installations, 5-3
Windows native authentication
supported vendors, 3-7
Windows NT
differences in Oracle installation with UNIX, 5-2
Windows Terminal Server
supported, 1-2
WINSOCK2 on Windows NT support
defined, B-14

X.509 support
installation types available with, A-3
XML
Oracle XML Developer’s Kit, A-5, B-12
Oracle XML SQL Utility, A-5