

Oracle8TM Personal Edition

Installation Guide

Release 2 (8.1.6) for Windows 98

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ORACLE[®]

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Contents

| | |
|--|-----|
| Contact Us! | vii |
| Before You Begin | xv |
| 1 Introducing Oracle8i Personal Edition for Windows 98 | |
| Oracle8i Personal Edition Overview | 1-2 |
| Supported Operating Systems..... | 1-2 |
| New on Windows 98 in this Release | 1-2 |
| New Features | 1-3 |
| What Documentation Do I Read First? | 1-4 |
| Viewing Documentation on the CD-ROM..... | 1-5 |
| 2 Installation Overview | |
| What Is Oracle Universal Installer? | 2-2 |
| What Top-Level Components are Available for Installation? | 2-3 |
| Installing Components with Oracle Universal Installer | 2-4 |
| How Do I Get Started? | 2-5 |
| 3 Installation Requirements | |
| Top-Level Component System Requirements | 3-2 |
| Migrating and Upgrading Requirements | 3-3 |
| Oracle7 and Oracle8 Migration and Upgrade Requirements | 3-3 |
| Migrating from Releases Prior to 7.1.3.3.6 | 3-3 |
| Using Oracle Command Line Tools with the Migration Utility..... | 3-3 |
| Required Oracle7 Server SQL*Net Patch Releases | 3-4 |
| Networking Protocol Vendor Requirements | 3-4 |
| 4 Selecting Database Creation and Net8 Configuration Methods | |
| Understanding Your Methods Before Installation | 4-2 |

| | |
|--|-------------|
| Selecting a Database Creation Method | 4-3 |
| Selecting a Net8 Configuration Method | 4-6 |
| Server Network Configuration | 4-7 |
| 5 Installing Oracle Components | |
| Preinstallation Tasks | 5-2 |
| Installing Oracle Components | 5-3 |
| Oracle8i Typical or Minimal Installation..... | 5-5 |
| Oracle8i Custom Installation..... | 5-7 |
| Reviewing a Log of an Installation Session..... | 5-9 |
| Installing Oracle Components in Non-Interactive Mode | 5-9 |
| Copying and Modifying a Response File | 5-10 |
| Running Oracle Universal Installer and Specifying a Response File..... | 5-10 |
| Customizing Installations with Oracle Software Packager..... | 5-11 |
| Installing and Viewing the Oracle8i Online Documentation..... | 5-12 |
| 6 Reviewing Your Installed Starter Database Contents | |
| User Names and Passwords | 6-2 |
| Database Identification | 6-4 |
| Tablespaces and Data Files | 6-5 |
| Initialization Parameter File | 6-7 |
| Redo Log Files | 6-8 |
| Control Files..... | 6-9 |
| Rollback Segments | 6-10 |
| Data Dictionary | 6-10 |
| 7 Post-installation Configuration Tasks | |
| Validating Invalid PL/SQL Modules with the UTLRP.SQL Script | 7-2 |
| Configuring Additional Components | 7-3 |
| 8 Deinstalling Oracle Components | |
| Deinstalling Oracle Components with Oracle Universal Installer..... | 8-2 |
| Task 1: Deinstall Database, Net8 Components 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 98 | 8-4 |
| A Individual Components Available for Installation | |
| Oracle8i Personal Edition Components | A-2 |
| B Individual Component Descriptions | |
| Component Descriptions | B-2 |
| C National Language Support | |
| NLS_LANG Parameters..... | C-2 |
| Commonly Used Values for NLS_LANG | C-3 |
| NLS_LANG Settings in MS-DOS Mode and Batch Mode | C-5 |
| D Getting Started with Your Documentation | |
| Documentation Formats | D-2 |
| What Documentation did I receive?..... | D-3 |
| Online Documentation Set | D-4 |
| Oracle8i for Windows, Release 8.1.6..... | D-4 |
| Oracle8i Generic Documentation Master Index, Release 8.1.6 | D-4 |
| Oracle8i Server, Release 8.1.6..... | D-5 |
| Oracle8i Server Application Development, Release 8.1.6..... | D-5 |
| Oracle8i Server Networking, Release 8.1.6 | D-6 |
| SQL*Plus, Release 8.1.6..... | D-6 |
| Oracle8i Java Developer's Documentation, Release 8.1.6..... | D-6 |

Glossary

Index

Contact Us!

Oracle8i Personal Edition Installation Guide, Release 2 (8.1.6) for Windows 98

Part No. A85314-01

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.

| Read the section... | If you... |
|---|---|
| "How to Contact Oracle Technical Publications" on page viii | Have issues with Documentation |
| "How to Contact Oracle Support Services" on page ix | Have issues with Software |
| "Resources for Oracle Partners and Developers" on page xii | Want to join an Oracle partner or application developer program |

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 by sending an e-mail to: *win98doc@in.oracle.com*

If you would like a reply, please provide your name, address, e-mail id 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.

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

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 8.1.6.0.0 and Oracle Enterprise Manager Release 2.1.0.0.0.

- ☐ 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.

| Information Source | Description |
|--|---|
| Oracle Corporation Home Page http://www.oracle.com | This Web site is the starting point for general information on Oracle Corporation. |
| Alliance Online http://alliance.oracle.com | 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. |
| Oracle Education http://education.oracle.com/ | 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. |
| Oracle Technology Network http://technet.oracle.com/ | 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. |
| Oracle Store http://oraclestore.oracle.com/ | This is Oracle's online shopping center. Come to this site to find special deals on Oracle software, documentation, publications, computer-based training products, and much more. |

| Information Source | Description |
|--|--|
| <p>Oracle Support Services' Support Web Center</p> <p>http://www.oracle.com/support/</p> | <p>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.</p> <p>Here are some of the resources available in the Support Web Center:</p> |
| <p>OracleMetaLink</p> <p>http://www.oracle.com/support/elec_sup/index.html</p> | <p><i>OracleMetaLink</i> is Oracle Support Services' premier Web support service. It is available to <i>Oraclemetals</i> customers (Gold, Silver, Bronze), 24 hours a day, seven days a week.</p> |
| <p>OracleLifecycle</p> <p>http://www.oracle.com/support/sup_serv/lifecycle/index.html</p> | <p><i>OracleLifecycle</i> is designed to deliver customized, industry-focused, full life-cycle support solutions that enable industry leaders to use Oracle technology to make smart business decisions, achieve operational excellence, and succeed in their markets.</p> |
| <p>ExpertONLINE</p> <p>http://www.oracle.com/support/sup_serv/online/index.html</p> | <p>Oracle Support Services has launched a new line of services called <i>ExpertONLINE</i>. These services provide online database administration for companies looking to supplement their existing DBA staff or fill a DBA role. Services range from <i>ExpertDETECT</i>, a monitoring, diagnostic, and recommendation service, to <i>ExpertDBA</i>, a full online database administration service.</p> |
| <p>Virtual Support Analyst (VSA)</p> <p>http://www.oracle.com/support/sup_serv/vsa_start.html</p> | <p>VSA is Oracle's Internet e-mail service; it is available to U.S. customers with an <i>Oraclemetals</i> support agreement. With VSA, you can initiate a request for assistance through e-mail, bypassing the queues you may encounter when using telephone support. VSA also enables you to access Oracle's bug database.</p> |
| <p>Customer Service</p> <p>http://www.oracle.com/support/cus_serv/index.html</p> | <p>This site provides resources to make your interactions with Oracle as easy as possible. Among the things you can do are:</p> <ul style="list-style-type: none"> ■ Learn what is a CPU Support Identification (CSI) number ■ Update your technical contact information ■ Find out whom to contact for invoice and collection issues ■ Request product update shipments ■ Access a glossary of Oracle Support Services terms |

| Information Source | Description |
|---|--|
| <p>U.S. Customer Visit Program</p> <p>http://www.oracle.com/support/cus_serv/cus_visit.html</p> | <p>This U.S.-based program has been established to help our customers understand and obtain maximum benefit from the support services they have purchased.</p> <p>The visit typically offers a customized orientation presentation, a comprehensive overview and demonstration of Oracle's electronic services, and helpful tips on working more effectively with Oracle Support Services.</p> |
| <p>Support Web Center Library</p> <p>http://www.oracle.com/support/library/index.html</p> | <p>This site contains articles, guides, and other documentation to help you leverage the wealth of knowledge and reference material that Oracle Support Services produces.</p> |

Before You Begin

This guide is your primary source of introduction, installation, post-installation, and configuration information for Oracle8i Personal Edition for Windows 98.

Specific topics discussed:

- Prerequisites
- Intended Audience
- How This Guide Is Organized
- Documentation and Code Conventions

Prerequisites

This guide assumes that you are familiar with the following:

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

Intended Audience

This guide is necessary for anyone installing or configuring the Oracle8i Personal Edition for Windows 98.

This guide describes *only* the features of Oracle8i Personal Edition for Windows 98 software that apply to the Windows 98 operating system.

How This Guide Is Organized

This guide is organized as follows:

Chapter 1, "Introducing Oracle8i Personal Edition for Windows 98"

Introduces you to Oracle8i Personal Edition for Windows 98, the supported operating systems, new Oracle8i Personal Edition Release 8.1.6 features on Windows 98, and how to get 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 Personal Edition for Windows 98 installation types and individual components

Chapter 4, "Selecting Database Creation and Net8 Configuration Methods"

Describes the Oracle8i database creation and Net8 client/server network configuration methods available during installation

Chapter 5, "Installing Oracle Components"

Describes how to install Oracle components

Chapter 6, "Reviewing Your Installed Starter Database Contents"

Describes the contents of your installed starter database

Chapter 7, "Post-installation Configuration Tasks"

Describes post-installation configuration tasks

Chapter 8, "Deinstalling Oracle Components"

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 the three top-level components

Appendix B, "Individual Component Descriptions"

Provides descriptions and release numbers of the individual components available with each installation type of the three top-level components

Appendix C, "National Language Support"

Describes National Language Support (NLS)

Appendix D, "Getting Started with Your Documentation"

Provides a complete introduction to the Oracle documentation set

Documentation and Code Conventions

The following conventions are used in this guide:

| Convention | Example | Meaning |
|---------------------------------------|--|---|
| All uppercase plain | C:\ORACLE\ORA81 | Indicates command names, SQL reserved words, and keywords, as in ALTER DATABASE. All uppercase plain is also used for directory names and file names. |
| Italic | <ul style="list-style-type: none">■ Used to indicate a variable: <i>file name</i>■ Used to indicate the title of a guide. | Indicates a value that you must provide. For example, if a command asks you to type <i>file name</i> , you must type the actual name of the file. |
| Square brackets [] | X:\[PATHNAME]\ORACLE\ HOME_NAME | Encloses optional items. For example, when you create an OFA-compliant Oracle home directory, you can place an optional pathname before the \ORACLE pathname. Square brackets also indicate a function key, for example [Enter]. |
| Choose Start > | Choose Start > Programs > Oracle - HOME_NAME > Network Administration > Net8 Assistant | How to start a program. For example, to start Net8 Assistant, you must click the Start button on the taskbar and then choose Programs, Oracle - HOME_NAME > Network Administration > Net8 Assistant. |
| C:\> | C:\ORACLE\ORADATA> | Represents the Windows 98 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. |
| Backslash (\) before a directory name | \ORADATA | Indicates that the directory is a subdirectory of the root directory. |

| Convention | Example | Meaning |
|---|--|--|
| <i>ORACLE_HOME</i> and <i>ORACLE_BASE</i> | Go to the <i>ORACLE_BASE\ORACLE_HOME\RDBMS\ADMIN</i> directory | <p>In releases prior to 8.1, when you installed Oracle8i Personal Edition for Windows 95/98 all subdirectories were located under a top level Oracle home directory, that by default was:</p> <p>C:\ORAWIN95 for Windows 98</p> <p>or whatever you may have called your Oracle home.</p> <p>In this Optimal Flexible Architecture (OFA)-compliant release, all subdirectories are no longer under a top level <i>ORACLE_HOME</i> directory. There is now a new top-level directory called <i>ORACLE_BASE</i> that by default is C:\ORACLE. If you install Oracle8i Personal Edition for Windows 98 release 8.1.6 on a clean computer (that is, there is no other Oracle software on the computer), the default settings for the first Oracle home directory is 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 <i>ORACLE_BASE</i>. All directory path examples in this guide follow OFA conventions.</p> <p>See the <i>Oracle8i Personal Edition Administrator's Guide for Windows 98</i> for additional information on OFA compliance and for information on installing Oracle products in non-OFA compliant directories.</p> |
| %ORACLE_HOME% | SQL> @%ORACLE_HOME%\ADMIN\DB_NAME\ADHOC\CATALOG . SQL | <p>In SQL*Plus commands, you may see %ORACLE_HOME%. SQL*Plus is able to locate your Oracle home directory using the %ORACLE_HOME% variable. This convention can be used in Server Manager, SQL*Plus, Export Utility, and Import Utility.</p> |

| Convention | Example | Meaning |
|------------------|--|---|
| <i>HOME_NAME</i> | Oracle <i>HOME_NAME</i> TNSListener | 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. |
| <i>HOMEID</i> | HOME0, HOME1, HOME2 | Represents a unique registry subkey for each Oracle home directory in which you install products. A new <i>HOMEID</i> is created and incremented each time you install products to a different Oracle home directory on one computer. Each <i>HOMEID</i> contains its own configuration parameter settings for installed Oracle products. |
| Symbols | period . comma , hyphen - semicolon ; colon : equal sign = backslash \ single quote ' double quote " parentheses () | Symbols other than brackets and vertical bars must be entered in commands exactly as shown. |

Introducing Oracle8*i* Personal Edition for Windows 98

This chapter introduces you to Oracle8*i* Personal Edition for Windows 98.

Specific topics discussed:

- Oracle8*i* Personal Edition Overview
- New on Windows 98 in this Release
- What Documentation Do I Read First?

Oracle8i Personal Edition Overview

Oracle8i Personal Edition for Windows 98 is a deployment platform for the Internet.

Oracle8i Personal Edition features include the following:

- A built-in Java Virtual Machine (JVM) that lets you store and run Java code within an Oracle8i database.
- Support for SQLJ, a programming syntax that lets you embed SQL statements in Java programs.
- Integration with the Component Object Model (COM).

See Also: *Oracle8i Concepts* and *Getting to Know Oracle8i* for complete descriptions of Oracle8i features

Supported Operating Systems

Oracle8i Personal Edition for Windows 98 operates on a personal computer (PC), running on the Windows 98 operating system.

New on Windows 98 in this Release

This table describes the new products of Oracle8i Personal Edition Release 2 (8.1.6) for Windows 98.

| New Product | Description | See... |
|---|--|---|
| Database Configuration Assistant (DBCA) | Oracle Database Configuration Assistant allows the user to create or delete a database | Chapter 6, "Post-Installation Database Creation" of <i>Oracle8i Personal Edition Administrator's Guide Release 2 (8.1.6) for Windows 98</i> . |

| New Product | Description | See... |
|----------------------------|--|--|
| Oracle Provider for OLE DB | <p>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.</p> <p>The Oracle Provider for OLE DB interfaces offer high performance and efficient access to Oracle data by applications, compilers, and other database components.</p> | <i>Oracle Provider for OLE DB User's Guide</i> |

Additional Information: See *Getting to Know Oracle8i* for the list of new products and features common to *all* operating systems.

New Features

This table describes the new features of Oracle8i Personal Edition Release 2 (8.1.6) specific to Windows 98.

| New Feature | Description | For more information, see... |
|-------------------------------------|--|---|
| Optimal Flexible Architecture (OFA) | Provides a structured method for installing Oracle databases and applications in a manner that helps promote ease of maintenance, improved performance, and reliability. | <p>Chapter 3, section "Optimal Flexible Architecture Overview" of Oracle8i Personal Edition Administrator's Guide Release 2 (8.1.6) for Windows 98.</p> <p>Note: OFA has caused a number of changes to the Oracle directory tree, file names, directory names, and the definition of Oracle home since Release 8.0.x. See Chapter 3, section "Differences Between Directory Trees by Release" of Oracle8i Personal Edition Administrator's Guide Release 2 (8.1.6) for Windows 98 for a list of changes.</p> |

What Documentation Do I Read First?

Your Oracle documentation set is described in Appendix D, "Getting Started with Your Documentation". This appendix provides:

- A list of available online documentation formats
- A list of documentation available on your CD-ROM

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

| For Information About... | See... |
|---|---|
| How to obtain customer support | <i>Oracle Customer Support Guide</i> |
| Important last-minute installation and configuration information | <ul style="list-style-type: none">■ READMEDOC.HTM file located at the top of the product CD-ROM for last-minute additions not included in the <i>Release Notes</i>■ <i>Release Notes</i> <p>Note: After installation, all README files are accessible from the <code>ORACLE_BASE\ORACLE_HOME\RELNOTES</code> directory.</p> |
| Upgrading or migrating your Oracle database from a previous release | <i>Oracle8i Migration</i> <p>Note: Oracle Data Migration Assistant automatically prompts you during installation to migrate a pre-8.1.6 database detected on your hard drive.</p> |
| Installing Oracle components into multiple homes on a single computer | Chapter 3 of <i>Oracle8i Personal Edition Administrator's Guide for Windows 98</i> |
| Installing all Oracle components available on the CD-ROM | Chapter 5, "Installing Oracle Components" of this guide |
| Basic database concepts and administration | <ul style="list-style-type: none">■ <i>Oracle8i Concepts</i>■ <i>Oracle8i Administrator's Guide</i>■ <i>Oracle8i Personal Edition Administrator's Guide for Windows 98</i> |
| Networking concepts and administration | <i>Net8 Administrator's Guide</i> |

Viewing Documentation on the CD-ROM

The Oracle8i Online Documentation is included on a separate CD-ROM. When you insert your CD-ROM into the CD-ROM drive, the *Autorun* window automatically appears. This window provides easy access to the Oracle8i Online Documentation. Follow these instructions to view the documentation.

To view the documentation on the CD-ROM:

1. Insert the Oracle8i 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. Click *Browse Documentation* to view the Oracle8i Online Documentation for all components. These documents are in HTML and 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 1-4 and any other documentation appropriate to your environment.

Note: You can also install your Oracle8i Online Documentation. See "Installing and Viewing the Oracle8i Online Documentation" on page 5-12 for instructions.

Note: You can also access your Oracle8i 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 Online Documentation CD-ROM.
 3. Click either INDEX.HTM (to start both your Oracle8i Online Documentation and the Oracle Information Navigator, a Java-based search and navigation applet) or PRODUCTS.HTM (to start your Oracle8i Online Documentation *without* the Oracle Information Navigator).
-
-

Installation Overview

This chapter provides an overview of the installation of Oracle components.

Specific topics discussed are:

- What Is Oracle Universal Installer?
- What Top-Level Components are Available for Installation?
- Installing Components with Oracle Universal Installer
- How Do I Get Started?

What Is 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/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 Oracle Documentation Library, but is automatically installed on your hard drive during an Oracle Universal Installer installation. See "Copying and Modifying a Response File" on page 5-10 for information on accessing this document.

What Top-Level Components are Available for Installation?

When you run Oracle Universal Installer, you can choose to install products from the Oracle8i Typical Installation, Oracle8i Minimal Installation, or Oracle8i Custom Installation.

The following table describes each installation option:

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

| Installation Option | Installation Type | Platform |
|--|--|------------|
| Oracle8i Typical Installation 8.1.6.0.0 | Installs a pre-configured starter database, networking components, Oracle utilities, Oracle8i Navigator, and online documentation. | Windows 98 |
| Oracle8i Minimal Installation 8.1.6.0.0 | Installs a pre-configured starter database, and minimum number of components necessary to run Oracle8i database server. This option does not install Oracle8i Navigator. | Windows 98 |
| Oracle8i Custom Installation 8.1.6.0.0 | Lets you selectively install the products available in the CD-ROM. Custom Installation is recommended only for advanced users. | Windows 98 |

Installing Components with Oracle Universal Installer

When you run Oracle Universal Installer from the CD-ROM, the following windows appear, and enable you to install Oracle components. This section provides an overview of your component installation choices. Specific installation instructions are provided in Chapter 4, "Selecting Database Creation and Net8 Configuration Methods".



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 product CD-ROM, the Source field automatically displays the location of your CD-ROM. Do not modify this field.



Third window: *Available Products*

Enables you to select a top-level component to install:

- Oracle8i Typical Installation
- Oracle8i Minimal Installation
- Oracle8i Custom Installation

How Do I Get Started?

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

| To... | See... |
|--|---|
| Find out about installation requirements for: <ul style="list-style-type: none">■ Each installation type■ Migrating an Oracle database■ Individual components■ Networking protocols | Chapter 3, "Installation Requirements" |
| Select a method for creating your Oracle8i database and configuring your Net8 client/server environment | Chapter 3, "Installation Requirements" |
| Install Oracle components | Chapter 4, "Selecting Database Creation and Net8 Configuration Methods" |

Installation Requirements

This chapter describes installation requirements.

Specific topics discussed are:

- Top-Level Component System Requirements
- Migrating and Upgrading Requirements
- Networking Protocol Vendor Requirements

Top-Level Component System Requirements

This section lists the system requirements for each top-level component:

- Oracle8i Typical Installation 8.1.6.0.0
- Oracle8i Minimal Installation 8.1.6.0.0
- Oracle8i Custom Installation 8.1.6.0.0

Important: The hard disk requirements for each Oracle8i top-level component include 25 MB required to install Java Runtime Environment (JRE) and Oracle Universal Installer on the partition on which the operating system is installed. If sufficient space is not detected, installation fails and an error message appears.

See Also: "Oracle8i Personal Edition Components" on page A-2 for a list of individual components installed.

| Requirement | Typical |
|-----------------------|---|
| Operating System | Windows 98 (Second Edition) |
| Minimal Processor | Pentium 166 or Pentium 200 |
| Recommended Processor | Pentium 233 or Pentium 266 |
| RAM | 96 MB (128 MB recommended) ¹ |
| Hard disk | 510 MB (plus an additional 15 MB on the system drive) |
| Video | 16 color |

¹ You cannot run Oracle Universal Installer and Oracle Data Migration Assistant or Oracle Database Configuration Assistant during the same installation session on a 64 MB computer. To run these assistants, answer No when asked if you want to migrate or create a database. After installation is complete and Oracle Universal Installer has exited, run these assistants. In addition, Oracle Corporation recommends that you increase virtual memory to 200 MB (modify it in the Performance tab of System Properties in the Control Panel).

Migrating and Upgrading Requirements

The following sections describe specific migration requirements:

- Oracle7 and Oracle8 Migration and Upgrade Requirements

Oracle7 and Oracle8 Migration and Upgrade Requirements

Oracle7 and Oracle8 database migration and upgrade procedures on Windows 98 are covered in *Oracle8i Migration*. This section describes several Windows 98-specific issues to understand before following the instructions in *Oracle8i Migration*.

Migrating from Releases Prior to 7.1.3.3.6

If the database release is prior to Release 7.1.3.3.6, migrate it to at least Release 7.1.3.3.6 before using the Migration Utility or Oracle Data Migration Assistant to migrate it to Release 8.1.6. See the documentation that accompanied your previous database release for information on how to migrate it to Release 7.1.3.3.6.

Using Oracle Command Line Tools with the Migration Utility

If you use the Migration Utility to migrate or upgrade your Oracle database, the instructions in *Oracle8i Migration* prompt you to enter information at the command prompt of an Oracle tool. The command tool to use (SQL*DBA, Server Manager, or SQL*Plus) depends upon the database release from which you are migrating or upgrading. This table describes the tools to use and the method for starting these tools:

| If... | From Oracle Release... | Use... | By Entering... |
|-----------|------------------------|-------------------------------|------------------------------------|
| Migrating | 7.1.x | SQL*DBA | C:\> SQLDBA71 MODE=LINE |
| | 7.2.x | SQL*DBA | C:\> SQLDBA72 MODE=LINE |
| | 7.3.x | Server Manager | C:\> SVRMGR23 |
| Upgrading | 8.0.x | Server Manager | C:\> SVRMGR30 |
| | 8.1.x | Server Manager or SQL*Plus | C:\> SVRMGRL or C:\> SQLPLUS |

Required Oracle7 Server SQL*Net Patch Releases

When migrating from Oracle7 Server Release 7.3.2 or 7.3.3 to Release 8.1.6, install the appropriate patch of SQL*Net in the 7.3.2 or 7.3.3 Oracle home *before* migrating with either Oracle Data Migration Assistant or the Migration Utility. Migration fails if you do *not* install the appropriate versions of SQL*Net. This table describes the required SQL*Net patch releases. Obtain these patches and installation instructions from Oracle Support Services.

| If Migrating From... | Use This Release... |
|----------------------|---------------------|
| Release 7.3.3 | 2.3.3.0.3 |
| Release 7.3.2 | 2.3.2.1.4 |
| | 2.3.2.1.12 |

Networking Protocol Vendor Requirements

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

Note: The table below describes the protocols supported with Oracle products; many of those protocols are not available for Windows 98 platform.

| Net8 Protocol Feature | Platform | Supported Vendor |
|-----------------------|------------------------------|---|
| TCP/IP protocol | Windows NT and Windows 95/98 | Microsoft TCP/IP |
| SPX protocol | Windows NT and Windows 95/98 | <ul style="list-style-type: none">■ Microsoft NW Link for Windows NT, Windows 95/98■ Novell NetWare Client 32 Release 4.1■ Novell IntranetWare Client Release 4.1 for Windows NT■ Novell IntranetWare Client Release 2.2 for Windows 95 <p>Note: For Microsoft NW Link, Client Service for NetWare must be installed.</p> |
| Named Pipes | Windows NT and Windows 95/98 | Microsoft NETBEUI |

| Net8 Protocol Feature | Platform | Supported Vendor |
|--|------------------------------|--|
| Logical Unit Type 6.2 (LU6.2) protocol | Windows NT | Microsoft SNA Server, Release 3.0 |
| Host naming method | Windows NT | Microsoft TCP/IP |
| NDS naming method | Windows NT and Windows 95 | <ul style="list-style-type: none">■ Novell NetWare Client 32 Release 4.1■ Novell IntranetWare Client Release 4.1 for Windows NT■ Novell IntranetWare Client Release 2.2 for Windows 95 Note: An Oracle Server Release 7.2.2 or above for NetWare Release 4.1 is required. |
| NDS authentication method | Windows NT and Windows 95 | <ul style="list-style-type: none">■ Novell NetWare Client 32 Release 4.1■ Novell IntranetWare Client Release 4.1 for Windows NT■ Novell IntranetWare Client Release 2.2 for Windows 95 Note: An Oracle Server Release 7.2.2 or above for NetWare Release 4.1 is required. |
| Windows native authentication method | Windows NT and Windows 95/98 | Microsoft |

Selecting Database Creation and Net8 Configuration Methods

This chapter describes the Oracle8i database creation and Net8 client/server configuration methods available during installation. You must understand these methods *before* performing an installation.

Specific topics discussed are:

- Understanding Your Methods Before Installation
- Selecting a Database Creation Method
- 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.

Understanding Your Methods Before Installation

Oracle Universal Installer provides several methods for creating an Oracle8i database and configuring your Net8 client/server environment during installation.

The method to select during installation depends upon:

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

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

Oracle8i database and Net8 components are installed through several installation types. Review the installation types in this table to identify how much user input is required for database creation or 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.

| Installation Types | User Input Required for Database Creation | | | User Input Required for Net8 Configuration | | |
|--|---|----------------|-----------|--|----------------|----------------|
| | None | Minimal | Extensive | None | Minimal | Extensive |
| ■ Oracle8i Typical Installation 8.1.6.0.0 | | X | | X | | |
| ■ Oracle8i Minimal Installation 8.1.6.0.0 | | X | | X | | |
| ■ Oracle8i Custom Installation 8.1.6.0.0, and then select: | | | | | | |
| Net8 Client or Net8 Server | | Not applicable | | | X | X ¹ |
| or | | | | | | |
| Oracle8i Server ² | | X | X | | Not applicable | |

¹ Selecting through the Custom installation type prompts you to create a configuration requiring either no user input or a configuration requiring extensive user input. See "Selecting a Net8 Configuration Method" on page 4-6 for more information.

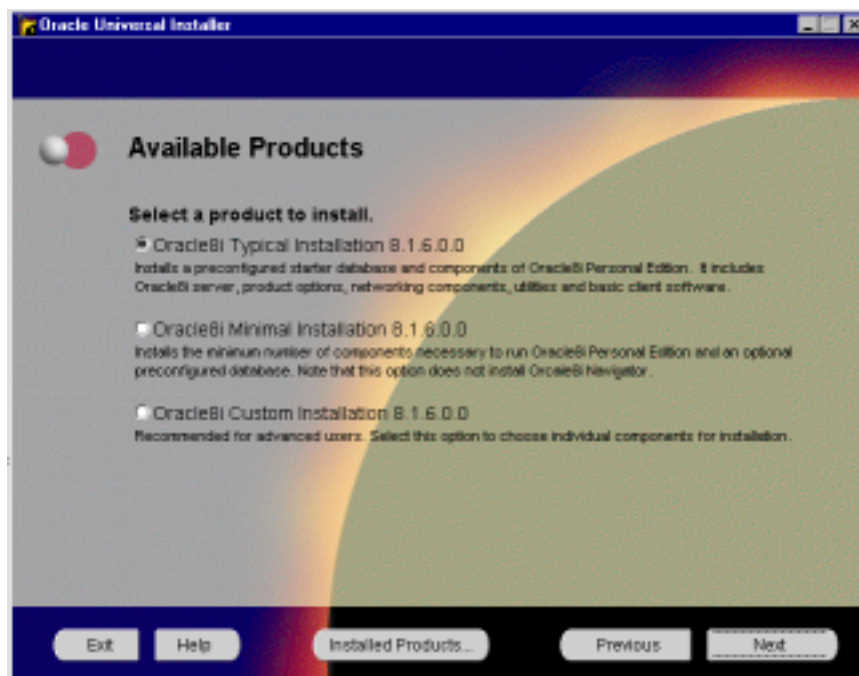
² Selecting Oracle8i Server through the Custom installation type offers several database creation choices, from a complete custom creation to a creation requiring minimal user input. See "Selecting a Database Creation Method" on page 4-3 for more information.

Selecting a Database Creation Method

Oracle Database Configuration Assistant is a tool that enables you to create an Oracle8i database. Oracle Database Configuration Assistant can be automatically started by Oracle Universal Installer when you select to create an Oracle8i database or manually run as a standalone tool.

Note: This chapter describes running Oracle Database Configuration Assistant from within Oracle Universal Installer. See Chapter 6 of the *Oracle8i Personal Edition Administrator's Guide for Windows 98* for information on running Oracle Database Configuration Assistant in standalone mode. See Chapter 2, "Database Tools Overview", of the *Oracle8i Personal Edition Administrator's Guide for Windows 98* for instructions on starting this tool in standalone mode.

When you run Oracle Universal Installer, the *Available Products* window presents you with three installation option. Each installation option enables you to create an Oracle8i database.



The types of databases created with the Typical, Minimal, and Custom installation types and the amount of user input required are described in the following table. Review these selections and identify the database that best matches your database requirements and database creation expertise:

| If You Perform These Steps... Then... | |
|--|--|
| 1. Select the <i>Typical installation type</i> . | <p>Oracle Database Configuration Assistant automatically starts at the end of installation and creates a preconfigured, ready-to-use Multipurpose starter database with:</p> <ul style="list-style-type: none">■ Default initialization parameters■ Automatic installation and configuration of Oracle JServer¹■ Database configured in dedicated server mode■ Archiving mode set to NOARCHIVELOG <p>No user input is required other than the global database name and SID you are prompted to enter prior to Oracle Database Configuration Assistant startup.</p> |
| 1. Select the <i>Minimal installation type</i> . 2. Select Yes when prompted to create a starter database. Note: If you select No, all server components are installed. A database is not created. You can create your database later by manually running Oracle Database Configuration Assistant or a SQL script. See Chapter 6 of the <i>Oracle8i Personal Edition Administrator's Guide for Windows 98</i> for instructions. | <p>Oracle Database Configuration Assistant automatically starts at the end of installation and creates the same Oracle8i database that you receive with the <i>Typical installation type</i>.</p> |

| If You Perform These Steps... | Then... |
|---|--|
| <ol style="list-style-type: none"> 1. Select the <i>Custom installation type</i>. 2. Select Oracle8i Server and additional products in the <i>Available Product Components</i> window. 3. Select Yes when prompted to create a starter database. 4. Oracle Database Configuration Assistant prompts you to select a <i>database creation method</i>: <ul style="list-style-type: none"> ■ <i>Custom</i> ■ <i>Typical</i> | <p>If You Select the Custom database creation method...</p> <p>Oracle Database Configuration Assistant guides you in the creation of a database in dedicated server mode with OracleJServer and replication option. Select this option only if you are experienced with advanced database creation procedures, such as customizing:</p> <ul style="list-style-type: none"> ■ Data, control, and redo log file settings ■ Tablespace and extent sizes ■ Database memory parameters ■ Archiving modes, formats, and destinations <ul style="list-style-type: none"> ■ Trace file destinations ■ Character set values <p>If You Select the Typical database creation method...</p> <p>You have two choices. Oracle Database Configuration Assistant's role in database creation depends on your selection:</p> <p>If you select...</p> <ul style="list-style-type: none"> ■ <i>Copy existing files from CD</i> Oracle Database Configuration Assistant creates the same Oracle8i database as described under Typical Installation Type on page 4-4 with Oracle JServer and replication option. No user input is required other than the global database name and SID you are prompted to enter prior to Oracle Database Configuration Assistant startup. ■ <i>Create new database files</i> Oracle Database Configuration Assistant prompts you to answer several questions, including the number of concurrent connections. Oracle Database Configuration Assistant then creates a database. Oracle JServer and replication are automatically configured if selected. |

¹ Oracle Database Configuration Assistant only configures components that were installed through Oracle Universal Installer.

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 the *Oracle8i Personal Edition Administrator's Guide for Windows 98* for instructions on starting this tool in standalone mode.

Depending on the installation option 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_HOME\NETWORK\ADMIN* directory.

Server Network Configuration

The type of network configuration created with the server 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:

| If You Select These Installation Types... Then... | |
|---|---|
| Oracle8i Personal Edition | Net8 Configuration Assistant automatically creates your Net8 server environment by configuring information in the following files: |
| <ul style="list-style-type: none">▪ Typical▪ Minimal | <ul style="list-style-type: none">▪ LISTENER.ORA file<ul style="list-style-type: none">▪ Configures a listener named LISTENER with protocol addresses for both the Oracle8i database (using your operating system's preferred protocol, which is typically TCP/IP on port 1521) and for external procedures (using the IPC protocol)▪ Configures service information for external procedures▪ TNSNAMES.ORA file<ul style="list-style-type: none">▪ Creates a net service name in the TNSNAMES.ORA file to use for external procedures▪ SQLNET.ORA file<ul style="list-style-type: none">▪ Configures the server'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.▪ Configures the naming methods the server uses to resolve a name to a connect descriptor <p>Oracle Database Configuration Assistant automatically configures additional Net8 server information in the following files during successful creation of the Oracle8i database:</p> <ul style="list-style-type: none">▪ LISTENER.ORA file<ul style="list-style-type: none">▪ Configures service information for the Oracle8i database |

**If You Select These
Installation Types... Then...**

| | |
|---------------------------|---|
| Oracle8i Personal Edition | <p>Net8 Configuration Assistant first prompts you to:</p> <ul style="list-style-type: none"> ■ Complete directory server access configuration, including entering a directory server type and location and administrative context from which the server can look up, create, and modify net service names¹ ■ Create a listener(s) and select network protocols to use for database connections ■ Select the naming method to use to connect to databases. By default, the local naming method is configured; this enables the TNSNAMES.ORA file to be used. Local naming prompts you to enter a net service name or database SID, and a networking protocol to use in accessing a remote database. Other available naming methods include directory naming, Oracle Names, host naming, and additional external naming methods. <p>Net8 Configuration Assistant then automatically creates your Net8 server environment by configuring information in the following files:</p> <ul style="list-style-type: none"> ■ LISTENER.ORA file <ul style="list-style-type: none"> ■ Configures a listener with a name and protocol address that you choose. In addition, a protocol address and service information for external procedures are configured. ■ SQLNET.ORA file <ul style="list-style-type: none"> ■ Configures the server'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. ■ Configures the naming methods the server uses to resolve a name to a connect descriptor ■ TNSNAMES.ORA and LISTENER.ORA files <ul style="list-style-type: none"> ■ Creates a net service name entry for external procedure connections <p>Oracle Database Configuration Assistant automatically configures additional Net8 server information in the following file during successful creation of the Oracle8i database:</p> <ul style="list-style-type: none"> ■ LISTENER.ORA file <ul style="list-style-type: none"> ■ Configures service information for the Oracle8i database |
|---------------------------|---|

¹ You are prompted for this information if you have never configured this Oracle home for directory server access.

Installing Oracle Components

This chapter describes how to install Oracle components.

Specific topics discussed are:

- Preinstallation Tasks
- Installing Oracle Components
- Installing Oracle Components in Non-Interactive Mode
- Customizing Installations with Oracle Software Packager
- Installing and Viewing the Oracle8i Online Documentation

Preinstallation Tasks

Perform the following tasks before installing Oracle components.

To perform preinstallation tasks:

1. Ensure that you have read the appropriate online documentation described in "What Documentation Do I Read First?" on page 1-4 before you begin installation. This is particularly important if you are upgrading or migrating from an existing Oracle database.
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.

Note: Do not manually set ORACLE_HOME in the environment path. This is automatically done in the registry. Setting ORACLE_HOME in the environment path is not necessary or recommended and prevents multiple Oracle home environments from functioning properly. See Chapter 2 of the *Oracle8i Personal Edition Administrator's Guide for Windows 98* for more information.

4. Ensure that you have backed up any databases to migrate or upgrade.
5. If applicable, install and test your network hardware and software.
6. Stop the Oracle instance (if any are running) for the Oracle home into which you want to install Oracle components:
 - a. Choose Start > Programs > Oracle_HOME_NAME > Database Administrator > Stop Database.
 - b. Stop Oracle Listener if running by executing the following command at MS-DOS prompt.

```
C:\>lsnrctl stop
```
7. Insert the 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 Oracle Components" on page 5-3 for instructions on installing Oracle components.

Installing Oracle Components

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 8.1.6 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.

To install Oracle components:

1. Ensure that you have followed all preinstallation steps described in "Preinstallation Tasks" on page 5-2.
2. Choose Install/Deinstall Products from the *Autorun* window.
The *Welcome* window appears.
3. Click 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 Oracle8i Personal Edition for Windows 98 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*.

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.

Note: If you install Oracle8i Personal Edition for Windows 98 into an Oracle home directory that already contains Oracle client software, the listener is not created. Perform the second installation into a different Oracle home to create the listener.

5. Click Next.

The *Available Products* window appears.

6. Select the Oracle top-level component you want to install and click Next.

The following section describes the steps required based on the Oracle top-level components selected.

Oracle8i Typical or Minimal Installation

Note: For a list of components installed with the Oracle8i Typical installation type, see Appendix , "Oracle8i Personal Edition Components" on page A-2.

After you have selected Oracle8i Typical or Minimal Installation option following are the steps you would walk through to complete the installation.

1. If Oracle Universal Installer detects an earlier version of an Oracle database on your hard drive, you are prompted to migrate or upgrade your database with Oracle Data Migration Assistant. Select the *Upgrade or Migrate an Existing Database* check box if you want to have Oracle Data Migration Assistant start immediately *after* installation to migrate or upgrade your database to an 8.1.6 Oracle8i database.

2. Click Next.

The *Database Identification* window appears if you are *not* migrating a database.

3. Enter the Global Database Name and SID in the fields provided:

| In This Field... | Enter The... |
|----------------------|--|
| Global Database Name | Full database name that uniquely distinguishes it from any other database in your network domain. For example: sales.us.acme.com where <i>sales</i> is the name you want to call your database and <i>us.acme.com</i> is the network domain in which the database is located. |
| SID | Database instance name that uniquely distinguishes it from any other database on your computer. The SID automatically defaults to the database name portion of the global database name (<i>sales</i> in the example above) until you reach eight characters or enter a period. You can accept or change the default value. |

This information is used when Oracle Database Configuration Assistant creates your database after installation.

4. Click Next.

The *Summary* window appears.

- 5. Review the information to ensure that you have enough disk space and click Install.
- 6. Wait until the selected components are installed.

The *Configuration Tools* window appears at the end of installation and, based on your selections above, automatically starts the following assistants to create and configure your database and network environments:

| This Assistant... | Starts... | And... |
|---|--|---|
| Net8 Configuration Assistant | If not currently installed on this computer | Automatically configures your Net8 server networking software. See Also: "Server Network Configuration" on page 4-7 for a description of the configuration procedures performed |
| Oracle Database Configuration Assistant | If you selected either: <ul style="list-style-type: none">■ Typical■ Minimal, then answered Yes when prompted at step 1 to install an Oracle8i database | Automatically creates an Oracle8i Release 8.1.6 database |
| Oracle Data Migration Assistant | If you selected to migrate or upgrade a detected database when prompted at step 1 | Migrates or upgrades the selected database to Oracle8i Release 8.1.6 |

The *Configuration Tools* window displays the results of running these assistants.

Note: Oracle Database Configuration Assistant and Oracle Data Migration Assistant are never started together during the same installation session.

- 7. Click Next to continue.
The *End of Installation* window appears.
- 8. Click Exit to exit Oracle Universal Installer or click 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

Oracle8i Custom Installation

The *Available Product Components* window appears if you have selected Oracle8i Custom Installation in the *Available Product* window. The *Install Status* column of the *Available Product Components* window displays the status of all components available for installation:

| This Status... | Means the Component Is... |
|----------------|---|
| Installed | Already installed |
| New Install | Selected to be installed for the first time |
| Not Installed | Not currently installed or selected for installation |
| Reinstall | Currently installed, but you have chosen to reinstall |
| Upgrade | Currently installed, but will be upgraded (for example, a pre-8.1.6 database) |

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. Click Next.

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

3. Click Next to accept the default locations. Otherwise, click a component to enable a text box for changing the default location.
4. If you selected any of the following components at step 1, provide appropriate responses when prompted. Note that most components install silently without prompting you for additional information.

| If You Selected... | You Are... |
|-------------------------|---|
| Net8 Client | <i>Not</i> prompted to enter any information. However, Net8 Configuration Assistant starts at the end of installation to configure your server networking files (if not currently installed). |
| Oracle Protocol Support | Prompted to select the network protocol adapters for which to provide Oracle support. |
| Oracle8i Server | <p>Prompted to:</p> <ul style="list-style-type: none">■ Create a database. Oracle Database Configuration Assistant starts at the end of installation and guides you through database creation.■ Enter the global database name of the database to create. <p>Note: If an earlier release of an Oracle database is detected on your hard drive, you are prompted to upgrade or migrate to Oracle8i database Release 8.1.6. Oracle Data Migration Assistant starts at the end of installation and guides you through database upgrade or migration.</p> |

The *Summary* window appears.

5. Review the information to ensure that you have enough disk space and click Install.
6. Wait until the selected components are installed and any configuration tools have completed running.

The *End of Installation* window appears.

7. Click Exit to exit Oracle Universal Installer or click 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

Note: You must reboot your computer after all first time Oracle installations on Windows 95 and 98. Subsequent installations do not require a reboot if the Oracle home remains the same. If the Oracle home changes, then reboot the computer.

Reviewing a Log of an Installation Session

An installation session log that describes the actions performed and the components installed is located in:

```
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 latest log file. Log file names of previous installation sessions 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 clicking Installed Products on any window of Oracle Universal Installer.

Installing Oracle Components in Non-Interactive Mode

Typically, you run Oracle Universal Installer in interactive mode, which means you are prompted to respond to 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.

Using silent installation enables you to bypass the graphical user interface (GUI) of interactive mode of Oracle Universal Installer. Response files are available for the following components:

| Response File Name | This File Silently Runs The... |
|--------------------|---|
| TYPICAL.RSP | Oracle8i Typical installation type |
| MINIMAL.RSP | Oracle8i Minimal installation type |
| CUSTOM.RSP | Oracle8i Custom installation type |
| DBCA.RSP | Oracle Database Configuration Assistant |
| NET8CA.RSP | Net8 Configuration Assistant |

Copying and Modifying a Response File

To copy and modify a response file:

1. Copy the appropriate templates from the \RESPONSE directory at the top of the CD-ROM to your hard drive.
2. Choose Start > Programs > Oracle Installation Products > Universal Installer Concepts Guide.

The *Oracle Universal Installer Concepts Guide* appears in HTML format.

3. Modify the templates with any text file editor by following the instructions in 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]
```

| Where... | Description |
|-----------------|---|
| <i>FILENAME</i> | Identifies the specific response file |
| -SILENT | Runs Oracle Universal Installer in complete silent mode. The <i>Welcome</i> window is suppressed automatically. |
| -NOWELCOME | Suppresses the <i>Welcome</i> window that appears during installation |

3. See *Oracle Universal Installer Concepts Guide* for more information.

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:

| Feature | Description |
|---|---|
| Step-by-step wizards | Enables you to define all installation properties for your computer using a graphical interface |
| Code block grammar | Enables you to define calculations and conditions with Oracle Software Packager's own code language, which uses similar constructs to C/C++ and Java |
| Extensible Java libraries | 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. |
| Easy integration with other product installations | Does not require editing access to an installation definition for it to be defined as a dependent of the product 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. |

To find out more about Oracle Software Packager:

1. Visit the Oracle Technology Network:
<http://technet.oracle.com/>
2. Click Documentation.
3. Click 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, click Cancel. You are directed to a site at which you can become a free member of the Oracle Technology Network.

The *Oracle Software Packager User's Guide* appears.

Installing and Viewing the Oracle8i Online Documentation

The Oracle8i 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 Online Documentation on your hard drive.

To install the Oracle8i Online Documentation:

1. Insert the Oracle8i 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 *Welcome* window appears.

3. Click 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 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*.

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. Click Next.

The *Summary* window appears.

6. Review the information to ensure that you have enough disk space and click Install.

7. Wait for installation to complete.

The *End of Installation* window appears.

8. Click Exit to exit Oracle Universal Installer.

To view your installed documentation:

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

| For... | Use... |
|-------------------------|--|
| A Web browser | <p>One of the following Java-enabled browsers:</p> <ul style="list-style-type: none"> ■ Netscape Navigator version 3.0 or later Visit http://www.netscape.com ■ Microsoft Internet Explorer version 3.0 or later Visit http://www.microsoft.com <p>Note: The Oracle Information Navigator can work only with a Java-enabled browser.</p> |
| An Adobe Acrobat Reader | <p>Adobe Acrobat Reader version 3.0 or later Visit http://www.adobe.com</p> |

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

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

Oracle Information Navigator also appears shortly thereafter.

3. Navigate through your Oracle8i Online Documentation.
4. Click the question mark icon to access help for instructions on using Oracle Information Navigator.

Notes: Some notes on using Oracle Information Navigator, the Java-based search and navigation applet:

- Changes to Microsoft's Internet Explorer Release 3.02 to address security issues may prevent Oracle Information Navigator from starting and displaying properly. This does not affect your access to the Oracle8i Online Documentation.
-
-

Notes: Some notes on using Adobe Acrobat Reader:

- After several documents are opened in Adobe Acrobat Reader, you may 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.
 - You must use Adobe Acrobat Reader version 3.0 or greater to view the PDF documentation set.
-
-

Reviewing Your Installed Starter Database Contents

This chapter describes the contents of your installed Oracle8i starter database.

Specific topics discussed are:

- User Names and Passwords
- Database Identification
- Tablespaces and Data Files
- Initialization Parameter File
- Redo Log Files
- Control Files
- Rollback Segments
- Data Dictionary

Note: This chapter focuses on the multipurpose starter database created through the Typical or Minimal installation types, since the custom database creation method of Oracle Database Configuration Assistant enables you to customize much of the information described in this chapter. Where possible, references to information applicable to the custom database creation method are made.

User Names and Passwords

This section describes the user names and passwords included in the starter database. Change the password for user names *immediately* after installation.

To change a password:

- 1. Start SQL*Plus:

```
C:\> SQLPLUS
```
- 2. Connect with the user name and password that you want to change:

```
Enter user-name: SYSTEM/PASSWORD
```
- 3. Change the password:

```
SQL> ALTER USER USERNAME IDENTIFIED BY PASSWORD;
```

Note: The SYS, SYSTEM, and DBSNMP user names and INTERNAL alias passwords in the following table are automatically included in *all* databases created by Oracle Database Configuration Assistant.

| User Name | Password | Description | See Also |
|-----------|----------|---|--|
| INTERNAL | ORACLE | <p>INTERNAL is used for performing database administration tasks, including starting up and shutting down a database.</p> <p>Note: INTERNAL is <i>not</i> a true user name; it is an alias for the SYS user name (see below) and SYSDBA privilege.</p> <p>Note: The password is required only for users who did not install the Oracle8i database. The user who installed the Oracle8i database is not prompted to enter a password when connecting as INTERNAL because the user's Windows NT user name was added to a special Windows NT local group called ORA_DBA.</p> | <ul style="list-style-type: none">■ Chapter 8, "Authenticating Database Users with Windows" of <i>Oracle8i Personal Edition Administrator's Guide for Windows 98</i> (for information on manually adding a user to the ORA_DBA user group)■ <i>Oracle8i Administrator's Guide</i> |
| SYSTEM | MANAGER | <p>SYSTEM is used for performing database administration tasks. SYSTEM includes the AQ_ADMINISTRATOR_ROLE and DBA database roles.</p> | <p><i>Oracle8i Administrator's Guide</i></p> |

| User Name | Password | Description | See Also |
|-----------|-------------------|---|--|
| SYS | CHANGE_ON_INSTALL | <p>SYS is used for performing database administration tasks. SYS includes the following database roles:</p> <ul style="list-style-type: none"> ▪ AQ_ADMINISTRATOR_ROLE ▪ AQ_USER_ROLE ▪ CONNECT ▪ CTXAPP ▪ DBA ▪ DELETE_CATALOG_ROLE ▪ EXECUTE_CATALOG_ROLE ▪ EXP_FULL_DATABASE ▪ HS_ADMIN_ROLE ▪ IMP_FULL_DATABASE ▪ JAVA_ADMIN ▪ JAVADEBUGPRIV ▪ JAVAIDPRIV ▪ JAVAUSERPRIV ▪ OEM_MONITOR ▪ RECOVERY_CATALOG_OWNER ▪ RESOURCE ▪ SELECT_CATALOG_ROLE ▪ SNMPAGENT ▪ TIMESERIES_DBA ▪ TIMESERIES_DEVELOPER | <i>Oracle8i Administrator's Guide</i> |
| OUTLN | OUTLN | <p>OUTLN includes the CONNECT and RESOURCE database roles, and supports plan stability. Plan stability allows you to maintain the same execution plans for the same SQL statements. OUTLN acts as a place to centrally manage metadata associated with stored outlines.</p> | <ul style="list-style-type: none"> ▪ <i>Oracle8i Concepts</i> ▪ <i>Oracle8i Designing and Tuning for Performance</i> |
| SCOTT | TIGER | <p>SCOTT includes the CONNECT and RESOURCE database roles.</p> | <i>Oracle8i Administrator's Guide</i> |

| User Name | Password | Description | See Also |
|-----------|----------|--|--|
| COMDEMO | COMDEMO | COMDEMO is the Oracle COM Automation feature user name with DBA and RESOURCE database roles. | <i>Oracle COM Automation Developer's Guide</i> |
| PO8 | PO8 | PO8 is the user name used by Oracle8i Navigator to connect to the local database | <i>Oracle8i Personal Edition Administrator's Guide for Windows 98, Chapter 5</i> |

Database Identification

The Oracle8i database is identified by its global database name, which consists of the database name and network domain in which the database is located. The global database name uniquely distinguishes a database from any other database in the same network domain. You create a global database name when prompted in the *Database Identification* window during Oracle8i database installation. The global database name takes the form:

database_name.database_domain

For example:

sales.us.acme.com

| Where... | Is... |
|-------------|--|
| sales | The name you give your database. The database name portion is a string of no more than 8 characters that can contain alpha, numeric, and additional characters. The database name is also assigned to the DB_NAME parameter in the INIT.ORA file. |
| us.acme.com | The network domain in which the database is located, making the global database name unique. The domain portion is a string of no more than 128 characters that can contain alpha, numeric, period (.), and additional characters. The domain name is also assigned to the DB_DOMAIN parameter in the INIT.ORA file. |

The DB_NAME parameter (value *sales*) and DB_DOMAIN name parameter (value *us.acme.com*) combine to create the global database name value assigned to the SERVICE_NAMES parameter (value *sales.us.acme.com*) in the INIT.ORA file.

The System Identifier (SID) identifies a specific Oracle8i instance that references the database. The SID uniquely distinguishes a database from any other database on the same computer. Multiple Oracle homes enable you to have multiple, active Oracle

databases on a single computer. Each database requires a unique SID and database name.

The SID name is taken from the value you entered for the database name in the *Database Identification* window, although you had the opportunity to change it. The SID can be up to 64 alphanumeric characters in length.

For example, if the SID and database name for an Oracle database are ORCL, each database file is located in the *ORACLE_BASE\ORADATA\ORCL* directory and the initialization parameter file is located in the *ORACLE_BASE\ADMIN\ORCL\PFIL* directory. The directory ORCL is named after the DB_NAME parameter value.

Tablespaces and Data Files

An Oracle8i database is divided into smaller logical areas of space known as tablespaces. Each tablespace corresponds to one or more physical data files. Data files contain the contents of logical database structures such as tables and indexes. A data file can be associated with only one tablespace and database.

The tablespaces in the Oracle8i database contain the following types of data files located in the *ORACLE_BASE\ORADATA\DB_NAME* directory:

Note: Unless you specified different names with Oracle Database Configuration Assistant, the tablespaces and data files described in the following table are also automatically included in the Custom database.

| Tablespace | Data File | Contains... |
|------------|--------------|---|
| SYSTEM | SYSTEM01.DBF | The data dictionary, including definitions of tables, views, and stored procedures needed by the Oracle database. Information in this area is maintained automatically. The SYSTEM tablespace is present in all Oracle databases. |
| USERS | USERS01.DBF | Your application data. As you create and enter data into tables, you fill this space with your data. |

| Tablespace | Data File | Contains... |
|------------|-------------|---|
| TEMP | TEMP01.DBF | Temporary tables and/or indexes created during the processing of your SQL statement. You may need to expand this tablespace if you are executing a SQL statement that involves a lot of sorting, such as ANALYZE COMPUTE STATISTICS on a very large table, or the constructs GROUP BY, ORDER BY, or DISTINCT. |
| RBS | RBS01.DBF | Rolled back transactions that fail to complete normally. You may need to expand this tablespace if you have long-running or high-data-volume transactions. |
| INDX | INDX01.DBF | Indexes associated with the data in the USERS tablespace. |
| TOOLS | TOOLS01.DBF | Nothing. This data file is created for use if the user wants to install any third-party or Oracle tools/products. |

See Also:

- Chapter "Tablespaces and Datafiles" of *Oracle8i Concepts*
- Chapters "Managing Tablespaces" and "Managing Datafiles" of the *Oracle8i Administrator's Guide*

Initialization Parameter File

The starter database contains one database initialization parameter file located in the `ORACLE_BASE\ADMIN\DB_NAME\PFIL` directory:

| Initialization Parameter File | Description |
|-------------------------------|---|
| INIT.ORA | The parameter file INIT.ORA must exist for an instance to start. A parameter file is a text file that contains a list of instance configuration parameters. The starter database INIT.ORA file has preconfigured parameters. No edits are required to this file in order to use the starter database. |

See Also:

- Appendix B of *Oracle8i Personal Edition Administrator's Guide for Windows 98* for a list of Oracle8i database-specific initialization parameters for Windows 98 and their default values
- *Oracle8i Reference* for more information on initialization parameters

Redo Log Files

The starter database contains three redo log files located in the *ORACLE_BASE\ORADATA\DB_NAME* directory:

Note: The redo logs REDO01.LOG, REDO02.LOG, and REDO03.LOG are also automatically included in the Custom database.

| Database Files | Disk Size | Description |
|----------------|-----------|--|
| REDO01.LOG | 1 MB | Redo log files hold a record of all changes made to data in the database buffer cache. If an instance failure occurs, the redo log files are used to recover the modified data that was in memory. Redo log files are used in a cyclical fashion. For example, if three files constitute the online redo log, the first file is filled, then the second file, and then the third file. The first file is then re-used and filled, the second file is re-used and filled, and so on. |
| REDO02.LOG | 1 MB | |
| REDO03.LOG | 1 MB | |

See Also: *Oracle8i Backup and Recovery Guide*

Control Files

The starter database contains three control files located in the *ORACLE_BASE\ORADATA\DB_NAME* directory:

| Control Files | Description |
|---------------|--|
| CONTROL01.CTL | A control file is an administrative file required to start and run the database. The control file records the physical structure of the database. For example, a control file contains the database name, and the names and locations of the database's data files and redo log files. |
| CONTROL02.CTL | |
| CONTROL03.CTL | |

Note: The files CONTROL01.CTL, CONTROL02.CTL, and CONTROL03.CTL are also automatically included in the Custom database.

Note: Oracle Corporation recommends that you keep at least three control files (on separate physical drives) for each database and set the CONTROL_FILES initialization parameter to list each control file. See the chapter "Managing Control Files" of *Oracle8i Administrator's Guide* for information on setting this initialization parameter value.

Rollback Segments

Rollback segments record the old values of data changed by each transaction (whether or not committed). Every database contains one or more rollback segments, which are portions of the database that record the actions of transactions in the event that a transaction is rolled back. Rollback segments are used to provide read consistency, to roll back transactions, and to recover the database.

The starter database contains the following rollback segments:

| Rollback Segment | Contained in this Tablespace... | Used by |
|------------------|---------------------------------|---|
| SYSTEM | SYSTEM | SYS |
| RB_TEMP | SYSTEM (private) | SYS |
| RB1 through RB16 | RBS | PUBLIC (a pool of rollback segments that any instance requiring a rollback segment can use) |

Data Dictionary

The data dictionary is a protected collection of tables and views containing reference information about the database, its structures, and its users. The data stored in the dictionary includes the following:

- Names of the Oracle database users
- Privileges and roles granted to each user
- Names and definitions of schema objects (including tables, views, snapshots, indexes, clusters, synonyms, sequences, procedures, functions, and packages)
- Integrity constraints
- Space allocation for database objects
- Auditing information, such as who accessed or updated various objects

See Also:

- Chapter "The Data Dictionary" of *Oracle8i Concepts*
- Chapter "Static Data Dictionary Views" of *Oracle8i Reference*

Post-installation Configuration Tasks

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

Specific topics discussed are:

- Validating Invalid PL/SQL Modules with the UTLRP.SQL Script
- Configuring Additional Components

Validating Invalid PL/SQL Modules with the UTLRP.SQL Script

Oracle Corporation recommends running the UTLRP.SQL script after creating, upgrading, or migrating a database. This script recompiles all PL/SQL modules that may be in an INVALID state, including packages, procedures, types, and so on. This step is optional, but recommended so that the cost of recompilation is incurred during the installation rather than in the future.

Note: There should be no other data definition language (DDL) statements running on the database while it is running, and packages STANDARD and DBMS_STANDARD must already be valid.

1. Start SQL*Plus:

```
C:\> SQLPLUS
```

2. Connect to the database with the SYS account:

```
SQL> CONNECT SYS/PASSWORD AS SYSDBA
```

where *PASSWORD* is CHANGE_ON_INSTALL by default, unless you changed it after installation.

3. Start the database (if necessary):

```
SQL> STARTUP
```

4. Run the UTLRP.SQL script:

```
SQL> @ORACLE_BASE\ORACLE_HOME\RDBMS\ADMIN\UTLRP.SQL
```


Configuring Additional Components

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:

| Component | Description | See Also... |
|--------------------------|--|--|
| Net8 network software | <p>Net8 Configuration Assistant is a tool that assists you in configuring your Oracle network.</p> <p>If you installed Net8 Server and Net8 Client, Net8 Configuration Assistant automatically started at the end of installation to guide you through network configuration.</p> <p>You can also configure your Oracle network after installation with the Net8 Configuration Assistant and Net8 Assistant tools.</p> | <ul style="list-style-type: none"> ■ <i>Net8 Administrator's Guide</i> and the online help available with both tools ■ "Selecting a Net8 Configuration Method" on page 4-6 for a discussion of available configuration choices |
| PL/SQL External Routines | Configuration is dependent on the network configuration files used. | Chapter 10, "Developing Applications", of <i>Oracle8i Personal Edition Administrator's Guide for Windows 98</i> |
| SQL*Plus help file | If you want to use online help with SQL*Plus, you must populate the SQL*Plus tables with help files. | <i>SQL*Plus Getting Started for Windows</i> |

Deinstalling Oracle Components

This chapter describes how to deinstall Oracle components.

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 98 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:

- Clicking 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 Database, Net8 Components and Registry Entries

If you want to deinstall the Oracle8i database (and its data files) and/or Net8 Client and Net8 Server components, you must first stop those by following these steps. If you do *not* want to deinstall these components, go to step "Task 2: Deinstall Components with Oracle Universal Installer".

Oracle Universal Installer creates registry entries for Oracle components during installation. However, Oracle Universal Installer does *not* delete registry entries created by Oracle Database Configuration Assistant and Net8 Configuration Assistant.

To deinstall database, Net8 components and registry entries:

1. If any database instance is running, stop it by right clicking on the database icon in systray and then selecting "Oracle8i Shutdown".
2. To stop the listener, execute the following command at MS-DOS prompt:

```
C:>lsnrctl stop
```

3. If you want to deinstall the Oracle8i database, follow steps a through c. Otherwise, go to step 6 to deinstall Net8 services.
 - a. Choose Start > Programs > Oracle - *HOME_NAME* > Database Administration > Database Configuration Assistant.
Oracle Database Configuration Assistant starts.
 - b. Select Delete a database and click Next.
 - c. Follow the remaining windows to deinstall the Oracle8i database.
The Oracle8i database is deinstalled.
4. Go to "Task 2: Deinstall Components with Oracle Universal Installer" to complete component removal.

Task 2: Deinstall Components with Oracle Universal Installer

To deinstall components with Oracle Universal Installer:

1. If you want to deinstall the Oracle8i database and Net8 components, ensure that you first follow the instructions in "Task 1: Deinstall Database, Net8 Components and Registry Entries" on page 8-2.
2. Choose Start > Programs > Oracle Installation Products > Universal Installer.
The *Welcome* window for Oracle Universal Installer appears.
3. Click Deinstall Products.
The *Inventory* dialog box appears.
4. Expand the tree of installed components until you find the components to deinstall.
5. Check the boxes of components to deinstall.
6. Click Remove.
The *Inventory Confirmation* window appears.
7. Click Yes to deinstall the selected components.

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

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

8. Click Close to close the *Inventory* dialog box.
9. Click 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 98

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

WARNING: 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. Stop all Oracle database instance and listener by following step 1 and 2 of "Task 1: Deinstall Database, Net8 Components and Registry Entries" on page 8-2
2. Start the registry at the MS-DOS command prompt:

```
C:\> REGEDIT
```
3. Go to HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE.
4. Delete the ORACLE key.
5. Delete any Oracle key under HKEY_LOCAL_MACHINE\SOFTWARE\ODBC.
6. Close the registry.

7. Edit your AUTOEXEC.BAT file and remove your %ORACLE_HOME%\BIN and JRE paths from the path setting.
8. Delete *SYSTEM_DRIVE*:\Program Files\Oracle from Windows Explorer.
9. Delete icons from:
 - *SYSTEM_DRIVE*:\WINDOWS\START MENU\PROGRAMS\ORACLE - *HOME_NAME*
 - *HOME_NAME*: \WINDOWS\START MENU\PROGRAMS\ORACLE INSTALLATION PRODUCTSwhere *HOME_NAME* is the previous Oracle home name.
10. Delete all *ORACLE_BASE* directories on your hard drive.
11. Reboot your computer.

Individual Components Available for Installation

This appendix describes the individual components available with each installation type.

Specific topics discussed are:

- Oracle8i Personal Edition Components

Note: The Custom installation type is not listed since it allows you to install all components.

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 etc.), see "Reviewing a Log of an Installation Session" on page 5-9.

Oracle8i Personal Edition Components

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

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

| Component | Typical | Minimal |
|---|---------|---------|
| Net8 Client, includes: | Yes | Yes |
| ■ Net8 Assistant | Yes | Yes |
| ■ Net8 Configuration Assistant | Yes | Yes |
| Note: When Net8 Client is installed through the Typical or Minimal installation type, protocol support is automatically installed for the networking protocols detected. When Net8 Client is installed through the Custom installation type, you are prompted to select the networking protocols for which you want support. | | |
| Net8 Server | Yes | Yes |
| Object Type Translator, includes: | Yes | Yes |
| ■ Oracle INTYPE File Assistant | Yes | Yes |
| Oracle Call Interface | Yes | Yes |
| Oracle COM Automation Feature | Yes | No |
| Oracle Data Migration Assistant | Yes | Yes |
| Oracle Database Configuration Assistant | Yes | Yes |
| Oracle JDBC Drivers, includes: | Yes | Yes |
| ■ Oracle JDBC Thin Driver for JDK 1.1 | Yes | Yes |
| ■ Oracle JDBC Thin Driver for JDK 1.2 | Yes | Yes |
| ■ Oracle JDBC/OCI Driver for JDK 1.1 | Yes | Yes |
| ■ Oracle JDBC/OCI Driver for JDK 1.2 | Yes | Yes |

| Component | Typical | Minimal |
|--|---------|---------|
| Oracle JServer, includes: | Yes | Yes |
| ■ Java Virtual Machine | Yes | Yes |
| Oracle8i Navigator | Yes | No |
| Oracle Objects for OLE | Yes | Yes |
| Oracle ODBC Driver | Yes | Yes |
| Oracle SQLJ, includes: | Yes | Yes |
| ■ SQLJ Runtime | Yes | Yes |
| ■ SQLJ Translator | Yes | Yes |
| Oracle Trace | Yes | Yes |
| Oracle Universal Installer, includes: | Yes | Yes |
| ■ Oracle's version of Java Runtime Environment | Yes | Yes |
| ■ Oracle Home Selector | Yes | Yes |
| Oracle Utilities, includes: | Yes | Yes |
| ■ Database Verify Utility | Yes | Yes |
| ■ Export | Yes | Yes |
| ■ Import | Yes | Yes |
| ■ Migration Utility | Yes | Yes |
| ■ OCOPY | Yes | Yes |
| ■ Password Utility | Yes | Yes |
| ■ Recovery Manager (RMAN) | Yes | Yes |
| ■ SQL*Loader | Yes | Yes |
| ■ Server Manager | Yes | Yes |
| ■ TKPROF | Yes | Yes |
| Oracle8i Server (Oracle8i Personal Edition for Windows 98) | Yes | Yes |
| OSTART | Yes | Yes |
| OSTOP | Yes | Yes |
| SQL*Plus | Yes | Yes |

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

Component Descriptions

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

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

| Component | Release | Description | See Also... |
|---|---------|---|----------------|
| Assistant Common Files (installed with Oracle assistants, such as Oracle Database Configuration Assistant and Net8 Assistant) | 8.1.6 | A collection of automatically installed files required by Oracle assistants. These files include: <ul style="list-style-type: none">■ BaliShare 1.0.8 (compressed)■ DBUI 1.1.2■ EWT 3.3.6 (compressed)■ ICE Browser 4.06.6 (compressed)■ Java Swing Components 1.1.1 (compressed)■ Kodiak 1.1.3■ Oracle Help for Java 3.1.8 (compressed)■ SMUI 1.0.8 | Not applicable |

| Component | Release | Description | See Also... |
|--|----------|---|--|
| Bequeath protocol support (installed with Net8 Client) | 8.1.6 | <p>A protocol that enables clients to retrieve information from the database without using the listener. The Bequeath protocol internally spawns a server thread for each client application. It basically does the same operation that a remote network listener does for your connection, but locally. Bequeath has the following attributes:</p> <ul style="list-style-type: none"> ▪ Does not use a listener (therefore, no listener configuration is required) ▪ Used for local connections where an Oracle client application (such as SQL*Plus) communicates with an Oracle server running on the <i>same</i> computer ▪ Only works in dedicated server mode. Cannot be used in a multithreaded server mode ▪ Supported on Windows 98 for 32-bit applications. If works on Windows 98 for connections to an Oracle8i Personal Edition database for 32-bit applications | <i>Net8 Administrator's Guide</i> |
| Java Runtime Environment (Oracle's version) | 1.1.7.24 | Required for running Java applications, such as Oracle Universal Installer. | Not applicable |
| Java Virtual Machine (part of Oracle JServer) | 8.1.6 | A complete JDK 1.2-compliant Java execution environment. The Java VM runs in the same process space and address space as the database server, sharing its memory heaps and directly accessing its relational data. This design optimizes memory use, increases throughput, and delivers an open, highly available, secure, and manageable Java server. | <i>Oracle8i Java Developer's Guide</i> |
| Named Pipes protocol support | 8.1.6 | 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). | <i>Net8 Administrator's Guide</i> |

| Component | Release | Description | See Also... |
|---|---------|--|-----------------------------------|
| Net8 Assistant (installed with Net8 Client) | 8.1.6 | <p>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.</p> <p>You can use Net8 Assistant to configure the following network components:</p> <ul style="list-style-type: none">■ 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. <p>If an Oracle Names server is configured, you start, stop, tune, or gather statistics for it with Net8 Assistant.</p> | <i>Net8 Administrator's Guide</i> |
| Net8 Client | 8.1.6 | <p>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.</p> <p>Net8 Client (and not Oracle Universal Installer) installs TCP/IP and Named Pipes, and auto-detects SPX. SPX is only installed in the installation packages 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.</p> | <i>Net8 Administrator's Guide</i> |

| Component | Release | Description | See Also... |
|---|---------|---|---|
| Net8 Configuration Assistant (installed with Net8 Client) | 8.1.6 | A tool that enables you to configure basic network components. Net8 Configuration Assistant runs automatically after software installation, as described in this guide. It can be used on either the client or server. It may be 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. | <i>Net8 Administrator's Guide</i> |
| Net8 Server | 8.1.6 | A component that provides features that allow the listener, through a protocol, to accept connections from client applications on the network. Note: Net8 Server is not installable through any Oracle8i Client installation types. | <i>Net8 Administrator's Guide</i> |
| Object Type Translator (OTT) | 8.1.6 | 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. | <i>Oracle Call Interface Programmer's Guide</i> |
| Oracle8i Navigator | 8.1.6 | Oracle8i Navigator helps managing your database | <i>Chapter 5 of Oracle8i Personal Edition Administrator's Guide for Windows 98</i> |
| OSTART | 8.1.6 | Database start utility | <i>Chapter 7 of Oracle8i Personal Edition Administrator's Guide for Windows 98</i> |
| OSTOP | 8.1.6 | Database stop utility | <i>Chapter 7 of Oracle8i Personal Edition Administrator's Guide for Windows 98</i> |
| Oracle Call Interface (OCI) | 8.1.6 | An application programming interface (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. | <ul style="list-style-type: none"> ▪ <i>Oracle Call Interface Programmer's Guide</i> ▪ <i>Oracle Call Interface Getting Started for Windows</i> |
| Oracle COM Automation Feature | 8.1.6 | A feature that enables PL/SQL developers to programmatically manipulate COM objects through the OLE Automation interface (IDispatch). | <i>Oracle COM Automation Developer's Guide</i> |

| Component | Release | Description | See Also... |
|--|---------|--|--|
| Oracle Data Migration Assistant | 8.1.6 | A tool that migrates existing Oracle7 databases (Release 7.1.3.3.6 or later) to an Oracle8i database and upgrades Oracle8 databases to the current database release. | <i>Oracle8i Migration</i> |
| Oracle Database Configuration Assistant | 8.1.6 | A tool that automates the process of creating, modifying, and deleting an Oracle database. You can create an Oracle database that is customized to the needs of your environment. | <ul style="list-style-type: none"> ■ <i>Oracle8i Administrator's Guide</i> ■ <i>Oracle8i Personal Edition Administrator's Guide for Windows 98</i> |
| Oracle Documentation | 8.1.6 | Available in HTML and PDF formats on a separate Oracle8i Online Documentation CD-ROM. | Appendix D, "Getting Started with Your Documentation" |
| Oracle Home Selector (installed with Oracle Universal Installer) | 1.7.0 | A tool that enables you to edit your environment path to make an appropriate Oracle home directory your primary home. | Chapter 3 of the <i>Oracle8i Personal Edition Administrator's Guide for Windows 98</i> |
| Oracle INTYPE File Assistant (installed with the Object Type Translator) | 8.1.6 | 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. | <i>Oracle Call Interface Getting Started for Windows</i> |
| Oracle Java Database Connectivity (JDBC) Drivers | 8.1.6 | A standard set of Java classes, specified by JavaSoft, that provide vendor-independent access to relational data from Java. | <i>Oracle8i JDBC Developer's Guide and Reference</i> |
| Oracle JServer | 8.1.6 | A component that provides a JDK 1.2-compliant Java Virtual Machine, a CORBA 2.0 Object Request Broker, embedded JDBC drivers, a SQLJ translator, and an Enterprise JavaBeans transaction server. | <i>Oracle8i Java Developer's Guide</i> |

| Component | Release | Description | See Also... |
|--|---------|--|--|
| Oracle Names | 8.1.6 | A distributed naming service developed for Oracle environments to help simplify the setup and administration of global, client/server computing networks. Oracle Names does this by establishing and maintaining an integrated system of Names servers. Oracle Names servers work like a directory server, storing addresses for all the database services on a network and making them available to clients that want to make a connection. | <i>Net8 Administrator's Guide</i> |
| Oracle Objects for Object Linking and Embedding (OLE) | 8.1.6 | 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 | 8.1.6 | A component that provides support for ODBC connections from Windows NT, Windows 95, and Windows 98 client systems to Oracle databases. The Oracle8 ODBC Driver complies with Version 3.51 of the Microsoft ODBC specification. The following ODBC function is not supported: <ul style="list-style-type: none"> ■ SQLBulkOperations | Oracle ODBC online help available from the Start Menu. |
| Oracle Provider for OLE DB | 8.1.6 | Interfaces that offer high performance and efficient access to Oracle data by applications, compilers, and other database components. | <i>Oracle Provider for OLE DB User's Guide</i> |
| Oracle SQLJ | 8.1.6 | A preprocessor for Java programs with embedded SQL statements. It generates Java programs with JDBC calls. | <i>Oracle8i JDBC Developer's Guide and Reference</i> |
| Oracle Trace | 8.1.6 | A component that collects performance and resource utilization data, such as SQL Parse, Execute, Fetch statistics, and Wait statistics. | <i>Oracle8i Designing and Tuning for Performance</i> |
| Oracle Universal Installer | 1.7.0 | A graphical user interface (GUI) application that lets you quickly install, update, and remove Oracle components. | <i>Oracle Universal Installer Concepts Guide</i> See "Copying and Modifying a Response File" on page 5-10 for information on accessing this guide |

| Component | Release | Description | See Also... |
|--|----------------|---|--|
| Oracle Utilities | 8.1.6 | A suite of components used for database administration. Oracle Utilities include Server Manager, Export Utility, Import Utility, SQL*Loader, Database Verify Utility, TKPROF, Migration Utility, Recovery Manager, OCOPY, and the Password Utility. | <i>Oracle8i Utilities</i> <i>Oracle8i Personal Edition Administrator's Guide for Windows 98</i> (for OCOPY) |
| Oracle8i Server | 8.1.6 | The database component of the Oracle8i Personal Edition software. | <i>Getting to Know Oracle8i</i> |
| SQL*Plus | 8.1.6 | A tool that lets you use the SQL and PL/SQL database languages in the Windows 98 environment. SQL*Plus has both command line and GUI versions. | <i>SQL*Plus User's Guide and Reference</i> |
| SQLJ Runtime (installed with Oracle SQLJ) | 8.1.6 | 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. | <i>Oracle8i JDBC Developer's Guide and Reference</i> |
| SQLJ Translator (installed with Oracle SQLJ) | 8.1.6 | A preprocessor for Java programs that contains embedded SQL statements. SQLJ Translator converts the SQL statements to JDBC calls. | <i>Oracle8i JDBC Developer's Guide and Reference</i> |
| Release Notes | 8.1.6 | Important last-minute installation and configuration information to read before installing and using Oracle components. Release Notes are included on the Oracle8i Online Documentation CD-ROM. | Appendix D, "Getting Started with Your Documentation" |
| Required Support Files | 8.1.6 | A collection of files and libraries required by Oracle components. | No documentation |

| Component | Release | Description | See Also... |
|---------------------------------------|---------|--|---|
| SPX protocol support | 8.1.6 | 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. | <i>Net8 Administrator's Guide</i> |
| TCP/IP protocol support | 8.1.6 | 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). | <i>Net8 Administrator's Guide</i> |
| WINSOCK2 on Windows 98 support | 8.1.6 | <p>Net8 supports both the WINSOCK 1.1 and WINSOCK2 socket interface. Net8 automatically detects WINSOCK2 on Windows 98 and uses it if it is available. WINSOCK2 is a standard feature of the Windows 98 operating system. Oracle uses these WINSOCK2 features in Net8:</p> <ul style="list-style-type: none"> ■ Overlapped I/O with events ■ Shared sockets (can be enabled as an optional feature) | <i>Appendix D of the Oracle8i Personal Edition Administrator's Guide for Windows 98</i> |

National Language Support

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

Oracle8i Personal Edition for Windows 98 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 Personal Edition for Windows 98, 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 of 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 C-3.

The NLS_LANG parameter is stored in the registry under the HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE\HOMEID\NLS_LANG subkey, where ID is the unique number identifying the Oracle home.

See Also: Appendix C of *Oracle8i Personal Edition Administrator's Guide for Windows 98* for more information on the subkey locations for multiple Oracle homes

The NLS_LANG parameter uses the following format:

`NLS_LANG = LANGUAGE_TERRITORY.CHARACTER_SET`

where:

- | | |
|----------------------|---|
| <i>LANGUAGE</i> | Specifies the language and conventions for displaying messages, day name, and month name. |
| <i>TERRITORY</i> | Specifies the territory and conventions for calculating week and day numbers. |
| <i>CHARACTER_SET</i> | Controls the character set used for displaying messages. |

See Also: *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:

| Language | NLS_LANG Value |
|-----------------------------|--|
| Arabic | ARABIC_UNITED ARAB EMIRATES.AR8MSWIN1256 |
| Brazilian Portuguese | BRAZILIAN PORTUGUESE_BRAZIL.WE8ISO8859P1 |
| Bulgarian | BULGARIAN_BULGARIA.CL8MSWIN1251 |
| Canadian French | CANADIAN FRENCH_CANADA.WE8ISO8859P1 |
| Catalan | CATALAN_CATALONIA.WE8ISO8859P1 |
| Croatian | CROATIAN_CROATIA.EE8MSWIN1250 |
| Czech | CZECH_CZECH REPUBLIC.EE8MSWIN1250 |
| Danish | DANISH_DENMARK.WE8ISO8859P1 |
| Dutch | DUTCH_THE NETHERLANDS.WE8ISO8859P1 |
| Egyptian | ARABIC_UNITED ARAB EMIRATES.AR8MSWIN1256 |
| English | AMERICAN_AMERICA.WE8ISO8859P1 |
| English (United Kingdom) | ENGLISH_UNITED KINGDOM.WE8ISO8859P1 |
| Estonian | ESTONIAN_ESTONIA.BLT8MSWIN1257 |
| Finnish | FINNISH_FINLAND.WE8ISO8859P1 |
| French | FRENCH_FRANCE.WE8ISO8859P1 |
| German | GERMAN_GERMANY.WE8ISO8859P1 |
| Greek | GREEK_GREECE.EL8MSWIN1253 |
| Hebrew | HEBREW_ISRAEL.IW8MSWIN1255 |
| Hungarian | HUNGARIAN_HUNGARY.EE8MSWIN1250 |
| Icelandic | ICELANDIC_ICELAND.WE8ISO8859P1 |
| Indonesian | INDONESIAN_INDONESIA.WE8ISO8859P1 |
| Italian | ITALIAN_ITALY.WE8ISO8859P1 |
| Japanese | JAPANESE_JAPAN.JA16SJIS |
| Korean | KOREAN_KOREA.KO16KSC5601 |

| Language | NLS_LANG Value |
|------------------------|---|
| Latin American Spanish | LATIN AMERICAN SPANISH_AMERICA.WE8ISO8859P1 |
| Latvian | LATVIAN_LATVIA.BLT8MSWIN1257 |
| Lithuanian | LITHUANIAN_LITHUANIA.BLT8MSWIN1257 |
| Mexican Spanish | MEXICAN SPANISH_MEXICO.WE8ISO8859P1 |
| Norwegian | NORWEGIAN_NORWAY.WE8ISO8859P1 |
| Polish | POLISH_POLAND.EE8MSWIN1250 |
| Portuguese | PORTUGUESE_PORTUGAL.WE8ISO8859P1 |
| Romanian | ROMANIAN_ROMANIA.EE8MSWIN1250 |
| Russian | RUSSIAN_CIS.CL8MSWIN1251 |
| Simplified Chinese | SIMPLIFIED CHINESE_CHINA.ZHS16GBK |
| Slovak | SLOVAK_SLOVAKIA.EE8MSWIN1250 |
| Spanish | SPANISH_SPAIN.WE8ISO8859P1 |
| Swedish | SWEDISH_SWEDEN.WE8ISO8859P1 |
| Thai | THAI_THAILAND.TH8TISASCII |
| Traditional Chinese | TRADITIONAL CHINESE_TAIWAN.ZHT16BIG5 |
| Turkish | TURKISH_TURKEY.WE8ISO8859P9 |
| Ukrainian | UKRAINIAN_UKRAINE.CL8MSWIN1251 |
| Vietnamese | VIETNAMESE_VIETNAM.VN8VN3 |
| Others | AMERICAN_AMERICA.US7ASCII |

NLS_LANG Settings in MS-DOS Mode and Batch Mode

When using 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.

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 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:

| Language | Character Set |
|----------------------|---------------|
| Arabic | AR8ASMO8X |
| Brazilian Portuguese | WE8PC850 |
| Catalan | WE8PC850 |
| Czech | EE8PC852 |
| Danish | WE8PC850 |
| Dutch | WE8PC850 |
| English | US8PC437 |
| Finnish | WE8PC850 |
| French | WE8PC850 |
| German | WE8PC850 |
| Greek | EL8PC737 |
| Hungarian | EE8PC852 |
| Italian | WE8PC850 |
| Japanese | JA16SJIS |

| Language | Character Set |
|------------------------|---------------|
| Korean | KO16KSC5601 |
| Latin American Spanish | WE8PC850 |
| Norwegian | WE8PC850 |
| Polish | EE8PC852 |
| Portuguese | WE8PC850 |
| Romanian | EE8PC852 |
| Russian | RU8PC866 |
| Simplified Chinese | ZHS16GBK |
| Slovak | EE8PC852 |
| Slovenian | EE8PC852 |
| Spanish | WE8PC850 |
| Swedish | WE8PC850 |
| Traditional Chinese | ZHT16BIG5 |
| Turkish | TR8PC857 |

Getting Started with Your Documentation

This appendix introduces you to the Oracle8i Personal Edition for Windows 98 documentation set. Read this chapter *before* installing or using Oracle8i Personal Edition.

Specific topics discussed are:

- Documentation Formats
- What Documentation did I receive?

See Also:

- "What Documentation Do I Read First?" on page 1-4 for instructions on viewing the Oracle8i Online Documentation from the CD-ROM
 - "Installing and Viewing the Oracle8i Online Documentation" on page 5-12 for instructions on installing the Oracle8i Online Documentation on your hard drive
-

Documentation Formats

This table describes the format and availability of Oracle8i Online Documentation and the tools required to view them.

| Format | Availability | Tools Required |
|----------------------------------|--|---|
| Hypertext Markup Language (HTML) | All Oracle documentation is available in HTML. | 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 "Installing and Viewing the Oracle8i Online Documentation" on page 5-12 for information on Web browser requirements. |
| Portable Document Format (PDF) | All Oracle documentation is available in PDF. | Use Adobe Acrobat Reader to view your PDF documentation set. See "Installing and Viewing the Oracle8i Online Documentation" on page 5-12 for information on Adobe Acrobat Reader requirements. |
| Text file format | Some Oracle components are also documented in README files located in the <i>ORACLE_BASE\ORACLE_HOME\RELNOTES</i> directory. | Use an ASCII text editor. |
| Printed | A CD-ROM insert describes how to access your Oracle documentation and get started with installation. | None required. |

Note: To order printed guides, contact Oracle Documentation Sales:

- Telephone 1 (800) 252-0303 in the United States of America.
- Visit:
<http://oraclestore.oracle.com/>

What Documentation did I receive?

Your Oracle8i Online Documentation consists of two types of documentation.

| Documentation Type | Describes... |
|---------------------------|--|
| Operating system-specific | Installation, configuration, and use of Oracle8i Personal Edition products in a Windows 98 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. |
| Generic | <p>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 98 operating system.</p> <p>To easily identify where these generic documentation references are described in your operating system documentation, see the index of this guide and the <i>Oracle8i Personal Edition Administrator's Guide for Windows 98</i> for the following entry:</p> <p>generic documentation references</p> <p>All generic documentation references described in this guide appear under this index entry.</p> |

IMPORTANT: Documentation may be included in your package detailing products 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 products are included in your package or that you are licensed to use them.

Online Documentation Set

Your Oracle8i Online Documentation is divided into the following categories:

- Oracle8i for Windows, Release 8.1.6
- Oracle8i Generic Documentation Master Index, Release 8.1.6
- Oracle8i Server, Release 8.1.6
- Oracle8i Server Application Development, Release 8.1.6
- Oracle8i Server Networking, Release 8.1.6
- SQL*Plus, Release 8.1.6
- Oracle8i Java Developer's Documentation, Release 8.1.6

Oracle8i for Windows, Release 8.1.6

Release Notes and Installation

- *Oracle8i Personal Edition Release Notes for Windows 98*
- *Oracle8i Personal Edition Installation Guide for Windows 98*

Administration, Concepts, and Reference

- *Oracle8i Personal Edition Administrator's Guide for Windows 98*

SQL*Plus

- *SQL*Plus Getting Started*

Language and Interface Documentation

- *Oracle Call Interface Getting Started*

Application Development

- *Oracle COM Automation Developer's Guide*
- *Oracle Objects for OLE*
- *Oracle Objects for OLE C++ Class Library*
- *Oracle Provider for OLE DB*

Oracle8i Generic Documentation Master Index, Release 8.1.6

- *Oracle8i Generic Documentation Master Index*

Oracle8i Server, Release 8.1.6

Concepts, Administration, and Reference

- *Getting to Know Oracle8i*
- *Oracle8i Administrator's Guide*
- *Oracle8i Concepts*
- *Oracle8i Tuning*
- *Oracle8i Error Messages*
- *Oracle8i Migration*
- *Oracle8i National Language Support Guide*
- *Oracle8i Reference*
- *Oracle8i SQL Reference*
- *Oracle8i Supplied Java Packages Reference*
- *Oracle8i Supplied Packages Reference*
- *Oracle8i Utilities*

Backup and Recovery

- *Oracle8i User-Managed Backup and Recovery Guide*
- *Oracle8i Recovery Manager User's Guide and Reference*
- *Oracle8i Standby Database Concepts and Administration*

Distributed Databases

- *Oracle8i Distributed Database Systems*
- *Oracle8i Replication*
- *Oracle8i Replication API Reference*

Oracle8i Server Application Development, Release 8.1.6

Application Development

- *Oracle8i Application Developer's Guide - Fundamentals*
- *Oracle8i Application Developer's Guide - Object-Relational Features*
- *Oracle8i Application Developer's Guide - Advanced Queuing*
- *Oracle8i Application Developer's Guide - Large Objects (LOBs)*
- *Oracle8i Data Cartridge Developer's Guide*

Language and Interface Documentation

- *Oracle Call Interface Programmer's Guide*
- *PL/SQL User's Guide and Reference*

Oracle8i Server Networking, Release 8.1.6

- *Net8 Administrator's Guide*

SQL*Plus, Release 8.1.6

- *SQL*Plus Quick Reference*
- *SQL*Plus User's Guide and Reference*

Oracle8i Java Developer's Documentation, Release 8.1.6

- *Oracle8i Java Developer's Guide*
- *Oracle8i Java Stored Procedures Developer's Guide*
- *Oracle8i JDBC Developer's Guide and Reference*
- *Oracle8i JPublisher User's Guide*
- *Oracle8i SQLJ Developer's Guide and Reference*

Glossary

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 requests network services often. The default domain is also the client configuration parameter that determines what domain should be appended 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 which 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.

external procedures

A PL/SQL procedure executing on an Oracle server can call an external procedure or function that is written in the C programming language and stored in a shared library. In order for the Oracle8i database to connect to external procedures, the server must be configured with a net service name and the listener must be configured with protocol address and service information.

IPC

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

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

operating system authenticated connections on Windows 98 is not supported.

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 username with Oracle usernames 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

Oracle8i Online Documentation CD-ROM

The CD-ROM in your kit that includes the Oracle8i Online Documentation. The Oracle8i Online Documentation CD-ROM is separate from the product CD-ROM.

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.

product CD-ROM

The CD-ROM in your kit that includes the Oracle8i Personal Edition for Windows 98 software. The product CD-ROM is separate from the Oracle8i Online Documentation 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.

repository

A set of database tables used as a back-end store for the middle-tier Oracle Management Server(s). A repository can be located in any Oracle database. A repository is shared by administrators and stores the state and history of registered events and scheduled jobs. A repository also contains accounts of all administrators, including information such as administrator passwords and privileges, and the current view of the network including all system data, application data, and information about the state of managed nodes.

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 the client should 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. Because 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.

This information allows the listener to determine how best a client connection request should be serviced.

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.

Index

A

Administrators group
 requirements for Oracle installations, 5-2
Assistant Common Files
 defined, B-2

B

backslash (\), defined, xviii
BaliShare, B-2
Bequeath protocol support
 defined, B-3
browsers
 Java-enabled, 5-13

C

C:\>, defined, xviii
Choose Start >, defined, xviii
code conventions
 used in this guide, xviii
COMDEMO user name, 6-4
 database roles, 6-4
 password, 6-4
components
 available for installation, 2-3, A-1
 descriptions, B-1
 installing, 5-3
 post-installation configuration guidelines, 7-3
 removing database and Net8 services and
 registry entries, 8-2
 removing with Oracle Universal Installer, 8-2
connect descriptor

 defined, Glossary-11
connect identifier
 defined, Glossary-11
contact information
 documentation sales, D-2
control files
 CONTROL01.CTL, 6-9
 CONTROL02.CTL, 6-9
 CONTROL03.CTL, 6-9
CONTROL01.CTL file, 6-9
CONTROL02.CTL file, 6-9
CONTROL03.CTL file, 6-9
CUSTOM.RSP file
 description, 5-9

D

data dictionary
 description, 6-10
 in starter database, 6-10
data files
 INDX01.DBF, 6-6
 RBS01.DBF, 6-6
 SYSTEM01.DBF, 6-5
 TEMP01.DBF, 6-6
 TOOLS01.DBF, 6-6
 USERS01.DBF, 6-5
database
 available installation types, 4-4
 configuring with a directory server, 4-8
 control files, 6-9
 Custom installation type, 4-5
 data dictionary, 6-10
 data files, 6-5

- database passwords, 6-2
 - database user names, 6-2
 - initialization parameter file, 6-7
 - migration requirements, 3-3
 - Minimal installation type, 4-4
 - redo log files, 6-8
 - removing, 8-2
 - rollback segments, 6-10
 - selecting a creation method, 4-3
 - supported creation methods, 4-2
 - tablespaces, 6-5
 - Typical installation type, 4-4
 - user input required for creation, 4-2
 - database roles
 - of COMDEMO user name, 6-4
 - of OUTLN user name, 6-3
 - of SCOTT user name, 6-3
 - of SYS user name, 6-3
 - of SYSTEM user name, 6-2
 - Database Verify Utility, B-8
 - installation types available with, A-3
 - DB_DOMAIN parameter, 6-4
 - DB_NAME parameter, 6-4
 - DBCA.RSP file
 - description, 5-9
 - DBUI, B-2
 - default control files
 - CONTROL01.CTL, 6-9
 - CONTROL02.CTL, 6-9
 - CONTROL03.CTL, 6-9
 - default data files
 - INDX01.DBF, 6-6
 - RBS01.DBF, 6-6
 - SYSTEM01.DBF, 6-5
 - TEMP01.DBF, 6-6
 - TOOLS.DBF, 6-6
 - USERS01.DBF, 6-5
 - default domain
 - defined, Glossary-11
 - default initialization parameter file
 - INIT.ORA, 6-7
 - default redo log files
 - REDO01.LOG, 6-8
 - REDO02.LOG, 6-8
 - REDO03.LOG, 6-8
 - default tablespaces
 - INDX, 6-6
 - RBS, 6-6
 - SYSTEM, 6-5
 - TEMP, 6-6
 - TOOLS, 6-6
 - USERS, 6-5
 - deinstallation
 - of database and Net8 services and registry
 - entries, 8-2
 - of Oracle components, 8-2
 - Directory Information Tree
 - defined, Glossary-11
 - directory names, convention used, xviii
 - directory naming context
 - defined, Glossary-12
 - directory naming method
 - defined, Glossary-12
 - directory server
 - configuring database access to a directory
 - server, 4-8
 - documentation
 - accessing on the CD-ROM, 1-5
 - complete list of included manuals, D-4
 - disabling the Oracle Information Navigator, 1-5
 - formats supplied, D-2
 - generic, D-3
 - getting started with, 1-4
 - HTML, D-2
 - installing, 5-12
 - operating system-specific, D-3
 - Oracle Information Navigator, D-2
 - order in which to read, 1-4
 - ordering printed guides, D-2
 - PDF, D-2
 - starting the Oracle Information Navigator, 1-5
 - documentation conventions, used in this
 - guide, xviii
- ## E
-
- environment path
 - restrictions on setting ORACLE_HOME, 5-2
 - EWI, B-2
 - Export Utility, B-8

- installation types available with, A-3
- external procedures
 - defined, Glossary-12
- external routines
 - post-installation configuration tasks, 7-3

F

- file names, convention used, xviii

G

- generic documentation references
 - Windows 98-specific NLS_LANG values, C-3
 - Windows 98-specific NLS_TERRITORY values, C-3
 - Windows 98-specific parameter file name and location, 6-7
 - Windows 98-specific redo log file location, 6-8
 - Windows 98-specific redo log file size, 6-8
- getting started
 - overview of, 2-5
- global database name
 - defined, 5-5, 6-4

H

- HOME_NAME*, defined, xx
- HOMEID*, defined, xx
- host naming adapter
 - supported vendors, 3-5
- HTML
 - documentation format, D-2

I

- ICE Browser, B-2
- Import Utility, B-8
 - installation types available with, A-3
- INDX tablespace
 - description, 6-6
- INDX01.DBF
 - data file, 6-6
 - tablespace contained in, 6-6
- initialization parameter file
 - description, 6-7

- in database, 6-7
- INIT.ORA, 6-7
- INSTALLATIONS.LOG file, 5-9
- installation
 - accessing installation documentation on the CD-ROM, 1-5
 - available components, 2-3, A-1
 - available installation types, A-1
 - customizing component installations, 5-11
 - in non-interactive mode, 5-9
 - of documentation, 5-12
 - overview, 2-4
 - preinstallation, 5-2
 - requirements, 3-2
 - restrictions on installing in pre-8.1.5 homes, 5-3
 - restrictions on using old Oracle Installer, 5-3
 - reviewing a log of an installation session, 5-9
 - selecting the Oracle8i Personal Edition top-level component, 5-5
 - steps, 5-3
 - top-level components, 2-3
- installation types
 - available with each top-level component, 2-3
 - with Oracle8i Personal Edition, A-2
 - with Oracle8i Personal Edition top-level component
 - installation types available with, A-2
- INTERNAL
 - alias for SYS and SYSDBA, 6-2
 - password, 6-2
 - user name, 6-2
- IPC
 - defined, Glossary-12
- italic letters, defined, xviii

J

- Java Runtime Environment
 - defined, B-3
 - installation types available with, A-3
 - Oracle's version of, 5-3
 - requirements, 3-2
 - restrictions on modifying, 5-3
- Java Swing Components, B-2
- Java Virtual Machine

- defined, B-3
- installation types available with, A-3

Java-enabled browsers, 5-13

JDBC, B-6

JRE. *See* Java Runtime Environment

K

Kodiak, B-2

L

LDAP-compliant directory server

- configuring the database with a directory server, 4-8

listener

- defined, Glossary-12

LISTENER.ORA file

- defined, Glossary-12

local naming method

- defined, Glossary-13

log files

- reviewing an installation session, 5-9

LU6.2 Protocol Adapter

- supported vendors, 3-5

M

Microsoft ODBC specification

- Oracle ODBC Driver compliance with, B-7

MIG. *See* Migration Utility

migration

- from releases prior to 7.1.3.3.6, 3-3
- Oracle Parallel Server requirements, 3-4
- required Oracle7 Server SQL*Net patch releases, 3-4
- requirements, 3-3
- using Oracle command line tools, 3-3

Migration Utility, B-8

- installation types available with, A-3
- using, 3-3

Minimal installation type

- components installed with, A-2

MINIMAL.RSP

- description, 5-9

multiple Oracle homes

- defined, xix
- system identifier, 6-5

N

Named Pipes Protocol Adapter

- supported vendors, 3-4

Named Pipes protocol support

- defined, B-3

naming method

- defined, Glossary-13

naming methods

- supported, B-5

NDS external naming support

- supported vendors, 3-5

NDS Native Naming Adapter

- supported vendors, 3-5

net service name

- defined, Glossary-13

Net8

- configuring the database with a directory server, 4-8
- configuring the server environment, 4-7
- post-installation configuration tasks, 7-3
- removing, 8-2
- selecting a configuration method, 4-6
- supported configuration methods, 4-2
- user input required for configuration, 4-2

Net8 Assistant

- defined, B-4
- installation types available with, A-2

Net8 Client

- defined, B-4
- installation types available with, A-2

Net8 Configuration Assistant

- automatically starting during installation, 5-6
- configuring the database to access a directory server, 4-7, 4-8
- defined, B-5
- installation types available with, A-2

Net8 Server

- defined, B-5
- installation types available with, A-2

NET8CA.RSP file

- description, 5-9
- network
 - selecting a Net8 configuration method, 4-6
- new Oracle on Windows 98 features
 - Oracle Provider for OLE DB, 1-3
- NLS support, C-3
- NLS_LANG
 - setting in MS-DOS mode and batch mode, C-5
- NLS_LANG parameter, C-2
 - territory and character set defaults, C-3
- non-interactive installation
 - overview, 5-9

O

- Object Type Translator
 - defined, B-5
 - installation types available with, A-2
- OCI
 - defined, B-5
- OCOPY, B-8
 - installation types available with, A-3
- ODBC. *See* Oracle Open Database Connectivity Driver
- operating system authenticated connections
 - defined, Glossary-14
- OPSS
 - defined, Glossary-14
- Oracle Call Interface
 - defined, B-5
 - installation types available with, A-2
- Oracle COM Automation Feature
 - defined, B-5
 - installation types available with, A-2
- Oracle Context
 - defined, Glossary-14
- Oracle Data Migration Assistant
 - defined, B-6
 - installation types available with, A-2
- Oracle Database Configuration Assistant
 - automatically starting during installation, 5-6
 - creating a Custom database type, 4-5
 - creating a Typical or Minimal database type, 4-4
 - defined, B-6

- installation types available with, A-2
- selecting a database creation method, 4-3
- Oracle Database Migration Assistant
 - automatically starting during installation, 5-6
- Oracle Documentation
 - defined, B-6
 - installing, 5-12
 - overview, D-2
 - viewing from the CD-ROM, 1-5
- Oracle Documentation Library CD-ROM
 - defined, Glossary-14
- Oracle Help for Java, B-2
- Oracle Home Selector
 - defined, B-6
 - installation types available with, A-3
- Oracle Information Navigator
 - disabling, 1-5
 - using, 1-5
- Oracle INTYPE File Assistant
 - defined, B-6
 - installation types available with, A-2
- Oracle JDBC Drivers
 - defined, B-6
 - installation types available with, A-2
- Oracle JDBC/OCI Driver for JDK 1.1
 - installation types available with, A-2
- Oracle JDBC/OCI Driver for JDK1.0.2
 - installation types available with, A-2
- Oracle JServer
 - installation types available with, A-3
 - naming convention with Oracle8i database type, B-6
- Oracle Names
 - defined, B-7
 - installation types available with, A-3
- Oracle Objects for OLE
 - defined, B-7
 - installation types available with, A-3
- Oracle ODBC Driver
 - compliance with Microsoft ODBC specification, B-7
 - defined, B-7
 - installation types available with, A-3
- Oracle Open Database Connectivity Driver
 - defined, B-7

- Oracle Parallel Server
 - migration and upgrade requirements, 3-4
- Oracle Provider for OLE DB
 - defined, B-7
 - new feature with 8.1.6 on Windows 98, 1-3, B-7
- Oracle schema
 - defined, Glossary-14
- Oracle Software Packager
 - overview, 5-11
 - where to obtain further information, 5-11
- Oracle SQLJ
 - defined, B-7
 - installation types available with, A-3
- Oracle Thin JDBC Driver for JDK 1.0.2
 - installation types available with, A-2
- Oracle Thin JDBC Driver for JDK 1.1
 - installation types available with, A-2
- Oracle Trace
 - defined, B-7
 - installation types available with, A-3
- Oracle Universal Installer
 - configuring Net8 environment, 4-2
 - creating a database, 4-2
 - defined, 2-2, B-7
 - installation types available with, A-3
 - installing components, 2-4
 - overview of installation, 2-4
 - removing Oracle components, 8-2
 - restrictions on installing in pre-8.1.5 homes, 5-3
 - running in non-interactive mode, 5-9
 - running Oracle Database Configuration Assistant, 4-3
 - selecting a Net8 configuration method, 4-6
- Oracle Utilities, B-8
 - Database Verify Utility, B-8
 - defined, B-8
 - Export Utility, B-8
 - Import Utility, B-8
 - installation types available with, A-3
 - Migration Utility, B-8
 - OCOPY, B-8
 - Password Utility, B-8
 - Recovery Manager, B-8
 - Server Manager, B-8
 - SQL*Loader, B-8
 - TKPROF, B-8
- ORACLE_BASE
 - explained, xix
- ORACLE_HOME
 - explained, xix
 - restrictions on setting in the environment path, 5-2
- ORACLE_HOME*, explained, xix
- Oracle8i Personal Edition for Windows 98
 - installing, 5-5
- Oracle8i Personal Edition top-level component
 - installing, 5-5
- Oracle8i Server
 - defined, B-8
- Oracle8i Server (Oracle*i* Personal Edition for Windows 98)
 - installation types available with, A-3
- Oracle8iCustom installation type
 - installing, 5-7
- Oracle8iPersonal Edition
 - installation types available with, A-2
- OTT
 - defined, B-5
 - installation types available with, A-2
- OUTLN user name, 6-3
 - database roles of, 6-3
 - password of, 6-3

P

- Password Utility, B-8
 - installation types available with, A-3
- passwords
 - changing, 6-2
 - changing for SYS user name, 6-2
 - changing for SYSTEM user name, 6-2
 - for COMDEMO user name, 6-4
 - for INTERNAL user name, 6-2
 - for OUTLN user name, 6-3
 - for SCOTT user name, 6-3
 - for SYS user name, 6-3
 - for SYSTEM user name, 6-2
- PDF
 - documentation format, D-2
- PL/SQL external routines

- post-installation configuration tasks, 7-3
- PL/SQL modules
 - validating, 7-2
- post-installation
 - configuration requirements for individual components, 7-3
 - validating invalid PL/SQL modules, 7-2
- preinstallation
 - tasks, 5-2
- product CD-ROM
 - defined, Glossary-14
- protocol adapters
 - supported vendors, 3-4
- protocol address
 - defined, Glossary-15
- protocol stack vendors
 - requirements, 3-4

R

- RBS tablespace
 - description, 6-6
- RBS01.DBF
 - data file, 6-6
 - tablespace contained in, 6-6
- README files
 - location of, 1-4, D-2
- READMEDOC.HTM
 - location of, 1-4
- Recovery Manager, B-8
 - installation types available with, A-3
- redo log files
 - in starter database, 6-8
 - REDO01.LOG, 6-8
 - REDO02.LOG, 6-8
 - REDO03.LOG, 6-8
- REDO01.LOG file, 6-8
- REDO02.LOG file, 6-8
- REDO03.LOG file, 6-8
- Release Notes
 - defined, B-8
- removing
 - database and Net8 services and registry entries, 8-2
 - Oracle components with Oracle Universal

- Installer, 8-2
- repository
 - defined, Glossary-15
- Required Support Files
 - defined, B-8
- requirements
 - for migrating a database, 3-3
 - for top-level components, 3-2
 - for Typical installation type, 3-2
 - post-installation for Oracle components, 7-3
 - preinstallation, 5-2
- response files
 - modifying, 5-10
 - on CD-ROM, 5-9
 - specifying during installation, 5-10
 - using, 5-9
- roles
 - of COMDEMO user name, 6-4
 - of OUTLN user name, 6-3
 - of SCOTT user name, 6-3
 - of SYS user name, 6-3
 - of SYSTEM user name, 6-2
- rollback segments
 - starter database, 6-10

S

- schema, INTERNAL user name, 6-2
- SCOTT user name, 6-3
 - database roles, 6-3
 - password, 6-3
- SecurID Authentication Adapter
 - supported vendors, 3-4
- Server Manager, B-8
 - installation types available with, A-3
- service registration
 - defined, Glossary-15
- SERVICE_NAMES parameter, 6-4
- silent installation
 - overview, 5-9
- SMUI, B-2
- SPX Protocol Adapter
 - supported vendors, 3-4
- SPX protocol support
 - defined, B-9

- SQL*Loader, B-8
 - installation types available with, A-3
- SQL*Plus
 - defined, B-8
 - installation types available with, A-3
 - installing online help of, 7-3
- SQLJ
 - defined, B-7
 - installation types available with, A-3
- SQLJ Runtime
 - defined, B-8
 - installation types available with, A-3
- SQLJ Translator
 - defined, B-8
 - installation types available with, A-3
- SQLNET.ORA file
 - defined, Glossary-15
- square brackets, defined, xviii
- symbols, list of, xx
- SYS user name, 6-3
 - changing the password, 6-2
 - database roles of, 6-3
 - password of, 6-3
- system identifier
 - multiple Oracle homes, 6-5
- system requirements
 - for Oracle8i installation types, 3-2
 - for top-level components, 3-2
 - for Typical installation type, 3-2
- SYSTEM tablespace
 - description, 6-5
- SYSTEM user name, 6-2
 - changing the password, 6-2
 - database roles of, 6-2
 - password of, 6-2
- SYSTEM01.DBF
 - data file, 6-5
 - tablespace contained in, 6-5

T

- tablespaces
 - containing INDX01.DBF, 6-6
 - containing RBS01.DBF, 6-6
 - containing SYSTEM01.DBF, 6-5

- containing TEMP01.DBF, 6-6
- containing TOOLS.DBF, 6-6
- containing USERS01.DBF, 6-5
- expanding for large sorts, 6-6
- in database, 6-5
- INDX, 6-6
- RBS, 6-6
- SYSTEM, 6-5
- TEMP, 6-6
- TOOLS, 6-6
- USERS, 6-5
- TCP/IP Protocol Adapter
 - supported vendors, 3-4
- TCP/IP protocol support
 - defined, B-9
- TEMP tablespace
 - description, 6-6
- TEMP01.DBF
 - data file, 6-6
 - tablespace contained in, 6-6
- TKPROF, B-8
 - installation types available with, A-3
- TNSNAMES.ORA file
 - defined, Glossary-16
- TOOLS tablespace
 - description, 6-6
- TOOLS01.DBF
 - data file, 6-6
- TOOLS.DBF
 - tablespace contained in, 6-6
- top-level components
 - defined, 2-3
 - system requirements, 3-2
- Typical installation type
 - components installed with, A-2
 - system requirements for, 3-2
- TYPICAL.RSP file
 - description, 5-9

U

- unqualified name
 - defined, Glossary-16
- user names
 - COMDEMO, 6-4

- INTERNAL, 6-2
- OUTLN, 6-3
- SCOTT, 6-3
- SYS, 6-3
- SYSTEM, 6-2
- USERS tablespace
 - description, 6-5
- USERS01.DBF
 - data file, 6-5
 - tablespace contained in, 6-5
- UTLRP.SQL file, 7-2

V

- variables, convention used, xviii

W

- Windows native authentication
 - supported vendors, 3-5
- WINSOCK2 on Windows 98 support
 - defined, B-9

