Oracle8*i* Client

Installation Guide

Release 3 (8.1.7) for Windows

November 2000

Part No. A85303-01

ORACLE

Oracle8*i* Client Installation Guide, Release 3 (8.1.7) for Windows

Part No. A85303-01

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Send Us Your Comments

Oracle8*i* Client Installation Guide, Release 3 (8.1.7) for Windows NT

Part No. A85303-01

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

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 in the following ways:

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

If you would like a reply, please provide your name, address, and telephone number.

How to Contact Oracle Support Services

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

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

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/` Oracle Support Services telephone numbers are also listed in the *Oracle Customer Support Guide* 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, Oracle8*i* Enterprise Edition release 8.1.7.0.0 and Oracle Enterprise Manager release 2.2.0.0.0.

_____

_____

_____

_____

- ❑ The third-party software version you are using.

_____

_____

_____

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

_____

_____

_____

_____

_____

- ❑ A description of the issue, including:
  - **What happened?** For example, the command used and its result.

    _____

    _____

    _____

- **When did it happen?** For example, during peak system load, or after a certain command, or after an operating system upgrade.

  _____

  _____

  _____

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

  _____

  _____

  _____

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

  _____

  _____

  _____

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

Resources for Oracle Partners and Developers

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

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. Visit this site to find special deals on Oracle software, documentation, publications, computer-based training products, and much more.
Oracle Support Services' Support Web Center `http://www.oracle.com/support/`	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.

Preface

This guide is your primary source of introduction, preinstallation, installation, and post-installation information for Oracle8*i* Client.

Specific topics discussed:

- Audience
- Organization
- Conventions

Audience

This guide assumes that you are familiar with the following:

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

This guide is necessary for anyone installing or configuring Oracle8*i* Client.

This guide describes *only* the features of Oracle8*i* Client software that apply to the Windows NT, Windows 95, Windows 98, and Windows 2000 operating systems.

Organization

This guide is organized as follows:

Chapter 1, "Introducing Oracle8i Client"

Introduces you to Oracle8*i* Client, the supported operating systems, new features on Windows since release 8.1.6, and getting started with your Oracle documentation

Chapter 2, "Installation Overview"

Provides an overview of how to install Oracle components

Chapter 3, "Installation Requirements"

Describes requirements for Oracle8*i* Client installation types and individual components

Chapter 4, "Selecting Net8 Configuration Methods"

Describes the Net8 client/server network configuration methods available during installation

Chapter 5, "Installing Oracle Components and Documentation"

Describes how to install Oracle components

Chapter 6, "Post-installation Configuration Tasks"

Describes post-installation configuration tasks

Chapter 7, "Deinstalling Oracle Components and Services"

Describes how to remove Oracle components and services

Appendix A, "Individual Components Available for Installation"

Describes the individual components available with each installation type of Oracle8*i* Client

Appendix B, "Individual Component Descriptions"

Provides descriptions and release numbers of the individual components available with each installation type of Oracle8*i* Client

Appendix C, "Advanced Installation Topics"

Describes advanced installation topics not covered in Chapter 5

Appendix D, "National Language Support"

Describes National Language Support (NLS)

Appendix E, "Installing and Removing Legato Components"

Describes how to install and remove Legato components

Appendix F, "Getting Started with Your Documentation"

Provides a complete introduction to the Oracle documentation set

Conventions

The following conventions are used in this guide:

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	■ Used to indicate a variable: *file name* ■ Used to indicate the title of a guide.	Indicates a value that you must provide. For example, if a command asks you to type *file name*, 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 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 NT command prompt of the current hard disk drive. Your prompt reflects the subdirectory in which you are working. Referred to as the MS-DOS command prompt in this guide.
Backslash (\) before a directory name	`\ORADATA`	Indicates that the directory is a subdirectory of the root directory.

Convention	Example	Meaning
ORACLE_HOME and *ORACLE_BASE*	Go to the *ORACLE_BASE**ORACLE_HOME*\RDBMS\ADMIN directory.	In releases prior to 8.1, when you installed Oracle components, all subdirectories were located under a top level Oracle home directory that by default was: C:\ORANT for Windows NT C:\ORAWIN95 for Windows 95 C:\ORAWIN98 for Windows 98 or whatever you may have called your Oracle home. In this Optimal Flexible Architecture (OFA)-compliant release, all subdirectories are no longer under a top level *ORACLE_HOME* directory. There is now a top-level directory called *ORACLE_BASE* that by default is C:\ORACLE. If you install Oracle release 8.1.7 components on a clean computer (that is, there is no other Oracle software on the computer), the default settings for the first Oracle home directory are C:\ORACLE\ORA81. If you run Oracle Universal Installer again and install release 8.2.*x*, the second Oracle home directory is called \ORA82. These Oracle home directories are located directly under *ORACLE_BASE*. All directory path examples in this guide follow OFA conventions. See the *Oracle8i Client Administrator's Guide for Windows* for additional information on OFA compliance and for information on installing Oracle products in non-OFA compliant directories.
`%ORACLE_HOME%`	`SQL> @%ORACLE_HOME%\ADMIN\DB_NAME\ADHOC\CATALOG.SQL`	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.

Convention	Example	Meaning
HOME_NAME	Oracle*HOME_NAME*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.
HOME*ID*	HOME0, HOME1, HOME2	Represents a unique registry subkey for each Oracle home directory in which you install products. A new HOME*ID* is created and incremented each time you install products in a different Oracle home directory on one computer. Each HOME*ID* 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.

1

Introducing Oracle8*i* Client

This chapter introduces you to Oracle8*i* Client.

Specific topics discussed are:

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

Supported Operating Systems

Oracle8*i* client software operates on a personal computer (PC) running the following Microsoft operating systems:

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

See Also: *Oracle8i Release Notes for Windows NT* for information on Oracle8*i* support for Windows Terminal Server

New Features and Components on Windows

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

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

What Is New With 8.1.7?

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

Feature/Component	Description	See...
Oracle Provider for OLE DB enhancements	Oracle Provider for OLE DB now provides support for: ■ Returning multiple rowsets Use this feature to access all the REF CURSORs being returned by a stored procedure. ■ The Unicode character set Use this feature to access data in multiple languages on the same client machine. This is useful for creating global Internet applications supporting as many languages as the Unicode standard entails. For example, you can write a single active service page (ASP) that accesses an Oracle8*i* database to dynamically generate content in Japanese, Arabic, English, and Thai.	*Oracle Provider for OLE DB User's Guide*
Oracle Objects for OLE (OO4O) enhancements	Commands can now be executed using asynchronous processing. This enables you to execute SQL statements and PL/SQL blocks in non-blocking mode. With non-blocking mode, control is returned to the application immediately even if the execution is not complete. This allows the application to execute other tasks not dependent on the results of the last execution.	OO4O online help available from the Start Menu after installation

Feature/Component	Description	See...
New components integrated into Oracle Universal Installer installation for 8.1.7	New components are integrated into the installation: ■ Oracle XML Developer's Kit ■ Oracle XML SQL Utility ■ Oracle Workflow Builder ■ Oracle Workflow Mailer	■ Appendix A, "Individual Components Available for Installation" ■ Appendix B, "Individual Component Descriptions"

What Is New With 8.1.6?

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

Feature/Component	Description	See...
Oracle Provider for OLE DB	OLE DB is an open standard data access methodology that utilizes a set of interfaces for accessing and manipulating all types of data. These interfaces are available from various database providers. The Oracle Provider for OLE DB interfaces offer high performance and efficient access to Oracle data by applications, compilers, and other database components.	*Oracle Provider for OLE DB User's Guide*

Feature/Component	Description	See...
Active Directory support	Active Directory is a Lightweight Directory Access Protocol (LDAP)-compliant directory server included with Windows 2000. Active Directory stores all Windows 2000 information, including users, groups, and policies. Oracle8*i* release 8.1.6 and above enables users to store database service and Net8 net service names as directory objects in Active Directory. Integration with Active Directory enables: ■ Oracle objects representing databases and net service names to be created in Active Directory and used by various Oracle applications when connecting to an Oracle8*i* database ■ A single, centralized location to store net service name information, which eliminates the need for maintaining a separate TNSNAMES.ORA file on each client computer ■ An administrator to create and store enterprise users and roles for the Oracle8*i* database in Active Directory, which helps centralize the administration of users and roles across multiple databases	Chapter 4, "Using Oracle8*i* Client Directory Features with Active Directory" of *Oracle8i Client Administrator's Guide for Windows*

See Also: See *Getting to Know Oracle8i* for the list of new components and features common to *all* operating systems

What Documentation Do I Read First?

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

- Available online documentation formats
- Documentation available on your Oracle8*i* Client Online Documentation CD-ROM and the component CD-ROM

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

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

Viewing Documentation on the CD-ROM

Most Oracle documentation is included on a separate Oracle8*i* Client Online Documentation CD-ROM.

> **Note:** This installation guide and the *Oracle8i Release Notes for Windows NT* are not included on the Oracle8*i* Client Online Documentation CD-ROM. Access those documents after installation from the Start Menu or by clicking INSTALL.HTM in the \DOC directory on your hard drive. You can also access those documents on the component CD-ROM by going to the \DOC directory and clicking INDEX.HTM.

When you insert the Oracle8*i* Client Online Documentation CD-ROM into the CD-ROM drive, the *Autorun* window automatically appears. This window provides easy access to the Oracle8*i* Client Online Documentation. Follow these instructions to view the documentation.

To view the documentation library on the Oracle8*i* Client Online Documentation CD-ROM:

1. Insert the Oracle8*i* Client Online Documentation CD-ROM into the CD-ROM drive.

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

   a. Choose Start > Run.

   b. Enter the following:

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

      The *Autorun* window appears.

2. Click *Browse Documentation* to view the Oracle8*i* Client Online Documentation for all components. These documents are in hypertext markup language (HTML) and portable document format (PDF) formats. The Oracle Information Navigator, a Java-based search and navigation applet, also starts.

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

Note: You can also access your Oracle8*i* Client Online Documentation without using the *Autorun* window. To do this:

1. Exit the *Autorun* window.
2. Go to the \DOC directory at the root of the Oracle8*i* Client Online Documentation CD-ROM.
3. Double-click either:

- INDEX.HTM (to start the Oracle8*i* Client Online Documentation and Oracle Information Navigator, a Java-based search and navigation applet)
- PRODUCTS.HTM (to start the Oracle8*i* Client Online Documentation *without* starting the Oracle Information Navigator)
- INDEX.PDF (if you do not have a Web browser, but do have an Adobe Acrobat Reader installed).

See Also: "Installing and Viewing the Oracle8i Client Online Documentation" on page 5-10 for instructions on installing your Oracle8*i* Client Online Documentation

2

Installation Overview

This chapter provides an overview of Oracle component installation.

Specific topics discussed are:

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

Oracle Universal Installer

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

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

> **See Also:** *Oracle Universal Installer Concepts Guide* for more information on Oracle Universal Installer. This guide is *not* included in your Oracle8*i* Client Online Documentation, but is automatically installed on your hard drive during an Oracle Universal Installer installation. Choose Start > Programs > Oracle Installation Products > Universal Installer Concepts Guide to access this guide.

Installation Types Available for Installation

When you run Oracle Universal Installer from the component CD-ROM, you can choose to install Oracle8*i* Client components from four different installation types. Each installation type contains a series of individual installable components. The following table lists the four installation types.

Installation Type	Description
Administrator	Installs an Oracle Enterprise Manager Console (including enterprise management tools), networking services, utilities, and basic client software
Programmer	Installs development tools (including precompilers) and interfaces for creating applications that access an Oracle8*i* database
Application User	Installs networking services and support files that enable database application users to connect to and interact with an Oracle8*i* database
Custom	Lets you selectively install components from the above installation types

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

Licensing Information

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

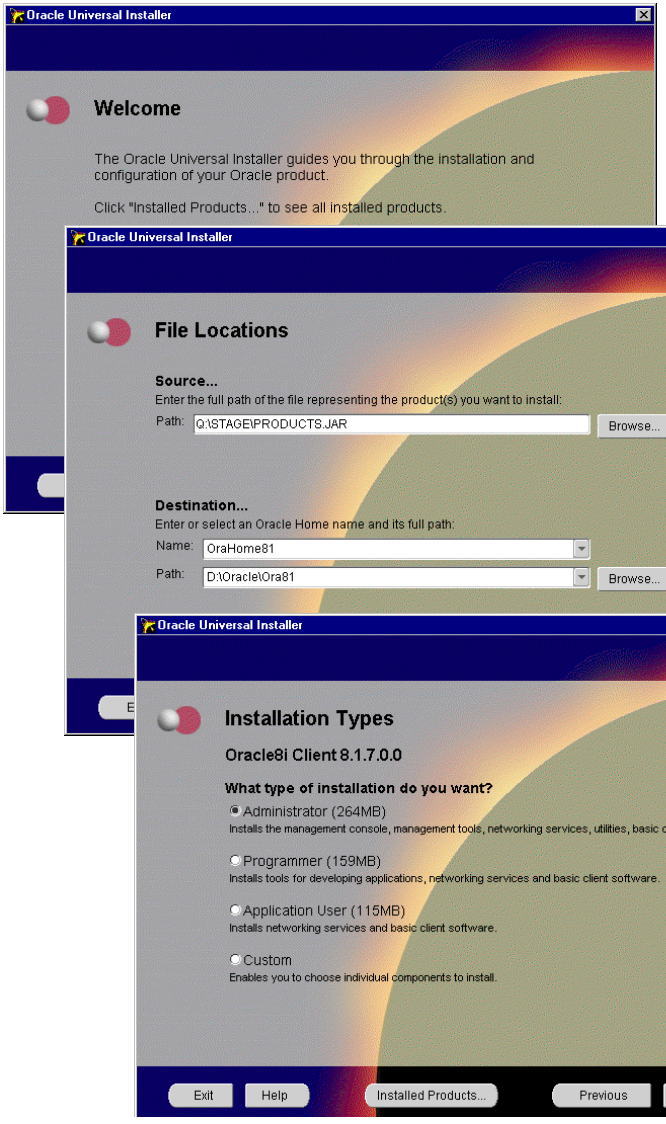
Oracle Support Services does not provide support for components for which licenses have not been purchased.

See Also:

- *Global License Terms* for additional licensing information
- "Component Descriptions" on page B-2 for component descriptions

Oracle Universal Installer Component Installation Overview

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



First window: *Welcome*

Welcomes you to Oracle Universal Installer.

Second window: *File Locations*

Enables you to enter the following in the Destination fields:

- Oracle home name
- Directory location in which to install Oracle components

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

Third window: *Installation Types*

Enables you to select an installation type to install:

- Administrator
- Programmer
- Application User
- Custom

Getting Started with Installation

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

To...	See...
Find out about installation requirements for: ■ Each installation type ■ Individual components ■ Single Oracle home components ■ Networking protocols and vendors	Chapter 3, "Installation Requirements"
Select a method for creating your Net8 client / server environment	Chapter 4, "Selecting Net8 Configuration Methods"
Install Oracle components	Chapter 5, "Installing Oracle Components and Documentation"

3

Installation Requirements

This chapter describes installation requirements.

Specific topics discussed are:

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

System Requirements for FAT and NTFS File Systems

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

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

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

---

Oracle8*i* Client

The Oracle8*i* Client top-level component consists of the following installation types:

- Administrator
- Programmer
- Application User
- Custom

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

Requirement	Administrator[1]	Programmer	Application User
Operating System	Windows NT 4.0, Windows 95, Windows 98, and Windows 2000	Windows NT 4.0, Windows 95, Windows 98, and Windows 2000	Windows NT 4.0, Windows 95, Windows 98, and Windows 2000
Windows NT 4.0 Service Pack	Certified with 5.0 and 6.0a	Certified with 5.0 and 6.0a	Certified with 5.0 and 6.0a
Minimal Processor	Pentium 166	Pentium 133	Pentium 133
Recommended Processor	Pentium I 266	Pentium 166	Pentium 166
RAM	64 MB (minimal) 128 (recommended)	32 MB (64 MB recommended)	32 MB (64 MB recommended)
FAT file system:			
■ Oracle home drive	861 MB	270 MB	180 MB
■ System drive	51 MB	40 MB	36 MB
NTFS file system:			
■ Oracle home drive	336 MB	192 MB	120 MB
■ System drive	51 MB	40 MB	36 MB
Web browser (if using Oracle Enterprise Manager Web Site)	■ Netscape Navigator 4.7 or higher ■ Microsoft Internet Explorer 5.0 or higher	None	None

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

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

Migration and Upgrade Requirements

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

Mandatory Individual Component Requirements

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

Component	Description	See Also...
Oracle Advanced Security	You must satisfy hardware and software requirements to use authentication support with Oracle components. In addition, using Oracle Advanced Security with Secure Socket Layer (SSL) and Private Key Infrastructure (PKI) requires preinstallation of an LDAP directory such as Oracle Internet Directory (provided on the component CD-ROM).	Chapter 1 of the *Oracle Advanced Security Administrator's Guide*
Oracle Enterprise Manager Paging Server	If you want Oracle Enterprise Manager administrators to receive paging notifications of event and job status changes, you can install the Oracle Enterprise Manager Paging Server on a Windows NT or Windows 2000 computer that contains a modem configured to dial an outside line.	*Oracle Enterprise Manager Configuration Guide*
Oracle Workflow Builder and Mailer	Ensure that you have configured the required hardware and software.	*Oracle Workflow Installation Supplement*
Oracle8*i* integration with Active Directory	The user performing the Oracle8*i* installation must perform pre-installation requirements for integration to be successful.	Chapter 4, "Using Oracle8*i* Client Directory Features with Active Directory" of the *Oracle8i Client Administrator's Guide for Windows*

Component	Description	See Also...
Recovery Manager (part of Oracle Utilities)	To back up to nondisk media, Recovery Manager requires a media management layer such as Legato Storage Manager (LSM) server, which is included on the CD-ROM. LSM server requires the following system configuration: ■ Minimum Processor: Intel Pentium 200 MHz. ■ Recommended Processor: Intel Pentium 450 MHz or higher ■ RAM: 128 MB ■ Hard disk: 64 MB ■ Backup for Windows NT and Windows 95/98: Additional 5% of total backup data or 100 MB for online indexes	*Legato Storage Manager Administrator's Guide*

Single Oracle Home Components

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

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

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

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

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

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

Networking Protocol Vendor Requirements

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

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	■ 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 **Note:** For Microsoft NW Link, Client Service for NetWare must be installed.
Named Pipes protocol	Windows NT and Windows 95/98	Microsoft NETBEUI
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	■ 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	■ 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

4

Selecting Net8 Configuration Methods

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

Specific topics discussed are:

- Network Configuration Methods
- Selecting a Net8 Configuration Method

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

Network Configuration Methods

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

The method to select during installation depends upon:

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

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

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

Installation Types	User Input Required for Database Creation			User Input Required for Net8 Configuration		
	None	Minimal	Extensive	None	Minimal	Extensive
Oracle8*i* Client						
■ Administrator	Not applicable				X	
■ Programmer	Not applicable				X	
■ Application User	Not applicable				X	
■ Custom, and select:						
Net8 Client[1]	Not applicable				X	X

[1] Selecting Net8 Client through the Custom installation type prompts you to create either a configuration requiring minimal user input or a configuration requiring extensive user input.

Selecting a Net8 Configuration Method

Net8 Configuration Assistant is a tool that enables you to configure your network environment to enable Oracle clients to connect to an Oracle8*i* database. Net8 Configuration Assistant can be automatically started from Oracle Universal Installer through most installation types or manually started as a standalone tool.

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

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

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

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

Client Network Configuration

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

If You Perform These Steps...	Then...
1. Select Oracle8*i* Client.	Net8 Configuration Assistant first prompts you to select one of the following methods by which to configure access to your Oracle8*i* database:
2. Select Administrator, Programmer, or Application User.	■ Directory naming A directory server ■ Local naming A net service name enables you to make client connections to the Oracle8*i* database Depending on what you select, you are prompted to provide additional information. Net8 Configuration Assistant then automatically creates your Net8 client environment by configuring information in the following files: ■ LDAP.ORA file, if the directory naming method was selected above Configures directory server access by identifying the directory server type. It may also identify the directory location and the administrative context from which the client can look up net service names. ■ TNSNAMES.ORA file Configures a net service name, if a local naming method was selected above ■ SQLNET.ORA file Configures the client's domain as the default domain (the domain in which your computer is located). This domain is automatically appended to any unqualified net service name given in the connect string. Configures the naming methods the client uses to resolve a name to a connect descriptor

If You Perform These Steps...	Then...
1. Select Oracle8*i* Client. **2.** Select Custom. **3.** Select Net8 Client.	Net8 Configuration Assistant first prompts you to: ■ Complete directory server access configuration, including entering a directory server type and location and administrative context from which the client can look up, create, and modify net service names[1] ■ Select the naming method to use to connect to databases. For example, selecting the local naming method enables the TNSNAMES.ORA file to be used. Depending on your selection, you are prompted for additional information. For the local naming method, you are prompted to enter a net service name, a database SID, and a networking protocol to use. Net8 Configuration Assistant then automatically creates your Net8 client environment by configuring information in the following files: ■ SQLNET.ORA file Configures the client to request operating system authenticated connections (OPS$) Configures the client's domain as the default domain (the domain in which your computer is located). This domain is automatically appended to any unqualified name. Configures the naming methods the client uses to resolve a name to a connect descriptor ■ TNSNAMES.ORA file Configures a net service name, if the local naming method was selected above to connect to your Oracle8*i* database ■ LDAP.ORA file, if directory access configuration was selected above Configures directory server access by identifying the directory server type. It may also identify the directory location and the administrative context.

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

5

Installing Oracle Components and Documentation

This chapter describes how to install Oracle components.

Specific topics discussed are:

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

> **Note:** This chapter describes how to install components from the component CD-ROM and documentation from the Oracle8*i* Client Online Documentation CD-ROM. See Appendix C, "Advanced Installation Topics" for information on advanced installation topics, such as using response files, using Oracle Software Packager, and installing and using Oracle components in different languages.

Installation Differences Between Windows NT and UNIX

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

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

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

Keyboard Navigation

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

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

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

To...	Use The...
Move up and down a list of components	Up and down arrows
Open an expandable tree of components	Right arrow
Close an expanded tree of components	Left arrow
Select or deselect a component	Space bar

See Also: The Microsoft Web site for information on standard keyboard navigational commands:

`http://www.microsoft.com`

Preinstallation Tasks

Perform the following tasks before installing Oracle components.

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

To perform preinstallation tasks:

1. Ensure that you have read the appropriate online documentation described in "What Documentation Do I Read First?" on page 1-6 before you begin installation.
2. Ensure that you have reviewed and satisfied applicable system and component requirements in Chapter 3, "Installation Requirements" before you begin installation.
3. Start your operating system.
4. If you are installing on Windows NT, log on as a member of the Administrators group to the computer on which to install Oracle components.

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

   ---

5. If applicable, install and test your network hardware and software.

6. Stop all Oracle services (if any are running) for the Oracle home into which you want to install Oracle components:

   a. Choose Start > Settings > Control Panel > Services.

   b. If any Oracle services (their names begin with Oracle) exist and have the status *Started*, select the service and choose Stop.

   c. Choose Close to exit the *Services* window.

7. Insert the component CD-ROM into your CD-ROM drive.

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

   a. Choose Start > Run.

   b. Enter the following:

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

      The *Autorun* window appears.

8. See "Installing Oracle8i Client" on page 5-5 for instructions on installing Oracle components.

Installing Oracle8*i* Client

Follow these procedures to install Oracle8*i* components.

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

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

`http://www.oracle.com/support`

To install Oracle components:

1. Ensure that you have followed all preinstallation steps described in "Preinstallation Tasks" on page 5-3.
2. Choose Install/Deinstall Products from the *Autorun* window.

   The *Welcome* window appears.
3. Choose Next.

   The *File Locations* window appears. Do *not* change the directory path in the *Source* field. This is the CD-ROM location of files for installation.
4. Enter the Oracle home name and directory path in which to install Oracle components in the *Destination* fields.

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

Attention: If you have an existing Oracle home created with a pre-8.1.*x* release, you *must* change the default installation location to a different location.

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5. Choose Next.

   The *Installation Types* window appears.

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

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

If You Selected...	See This Section...
Administrator, Programmer, or Application User	"Administrator, Programmer, or Application User" on page 5-6
Custom	"Custom" on page 5-7

Administrator, Programmer, or Application User

The *Summary* window appears.

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

2. Wait until the selected components are installed.

   The *Configuration Tools* window appears and Net8 Configuration Assistant starts and prompts you to select a method by which to configure client access to your Oracle8*i* database if Net8 Client release 8.1.7 is not already installed in the currently-specified Oracle home. Net8 Client release 8.1.6 or earlier installations in this Oracle home will be upgraded.

3. Select a method for configuring client access to your Oracle8*i* database. See the online Help and "Client Network Configuration" on page 4-4 for more information on your choices.

   The *End of Installation* window appears.

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

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

Custom

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

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

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

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

2. Select appropriate components to install and choose Next.

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

3. Choose Next to accept the default locations. Otherwise, choose a component to enable a text box for changing the default location, and choose Next.

4. If you selected any of the following components, provide appropriate responses when prompted. Note that most components install silently without prompting you for additional information.

If You Selected...	You Are...
Net8 Client	*Not* prompted to enter any information. However, Net8 Configuration Assistant starts at the end of installation and prompts you to configure client access to your Oracle8*i* database if Net8 Client release 8.1.7 is not already installed in the currently-specified Oracle home. **Note:** Net8 Client release 8.1.6 or earlier installations in this Oracle home will be upgraded. **See Also:** "Client Network Configuration" on page 4-4 for a description of the configuration procedures performed
Oracle Advanced Security	Prompted to select the authentication methods for which you want Oracle support. Kerberos, SecurID, and Radius automatically appear for selection. Identix, CyberSafe, and Entrust only appear if the appropriate third-party software is installed.
Oracle Protocol Support	Prompted to select the network protocol adapters for which to provide Oracle support. See the online help for a description of the Status column on this window.
Oracle Services for Microsoft Transaction Server	Prompted to install Microsoft Transaction Server after installation, if it is not currently installed.

   The *Summary* window appears.

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

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

   The *End of Installation* window appears.

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

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

Reviewing a Log of an Installation Session

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

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

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

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

You can also view a list of installed components by choosing Installed Products on any window of Oracle Universal Installer. A window of installed programs appears.

Installing and Viewing the Oracle8*i* Client Online Documentation

The Oracle8*i* Client Online Documentation is included on a separate CD-ROM. Documentation is available in both hypertext markup language (HTML) and portable document format (PDF) formats. You can install and view your Oracle8*i* Client Online Documentation on your hard drive. This section describes the following topics:

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

> **See Also:** Appendix F, "Getting Started with Your Documentation" for a list of documents available on the Oracle8*i* Client Online Documentation CD-ROM

Installing the Oracle8*i* Client Online Documentation

To install the Oracle8*i* Client Online Documentation:

1. Insert the Oracle8*i* Client Online Documentation CD-ROM into your CD-ROM drive.

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

   a. Choose Start > Run.

   b. Enter the following:

      DRIVE_LETTER:\AUTORUN\AUTORUN.EXE

      The *Autorun* window appears.

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

   The Oracle Universal Installer *Welcome* window appears.

3. Choose Next.

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

4. Enter the Oracle home name and directory path in which to install the Oracle8*i* Client Online Documentation in the *Destination* fields.

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

Attention: If you have an existing Oracle home created with a pre-8.1.*x* release, you *must* change the default installation location to a different location.

5. Choose Next.

   The *Summary* window appears.

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

7. Wait for installation to complete.

   The *End of Installation* window appears.

8. Choose Exit to exit Oracle Universal Installer.

Installing a Web Browser and Adobe Acrobat Reader

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

To install a Web browser and Adobe Acrobat Reader:

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

For...	Use...
A Web browser	One of the following Java-enabled browsers: ■ 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` **Note:** The Oracle Information Navigator can work only with a Java-enabled browser.

For...	Use...
An Adobe Acrobat Reader	Adobe Acrobat Reader version 3.0 or later. This component is available from either of two locations: **From the component CD-ROM:** 1. Go to the \ACROREAD directory on the component CD-ROM. 2. Double-click AR405ENG.EXE (or run this file from the MS-DOS command prompt). A wizard guides you through Adobe Acrobat Reader installation. **From the Adobe Web site:** Visit `http://www.adobe.com`

Viewing Documentation With a Web Browser

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

To view your documentation from a Web browser:

1. Follow the procedures in "Installing a Web Browser and Adobe Acrobat Reader" on page 5-11.
2. Choose Start > Programs > Oracle - *HOME_NAME* > Documentation Library.

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

   Oracle Information Navigator also appears shortly thereafter.
3. Navigate through your Oracle8*i* Client Online Documentation. Nearly all documents are available for viewing in both HTML and PDF formats.
4. Choose the question mark icon to access help for instructions on using Oracle Information Navigator.

Viewing Documentation Without a Web Browser

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

To view documentation without a Web browser:

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

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

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

Note: Changes to Microsoft's Internet Explorer release 3.02 to address security issues can prevent Oracle Information Navigator from starting and displaying properly. This does not affect your access to the Oracle8*i* Client Online Documentation.

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

6

Post-installation Configuration Tasks

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

Specific topics discussed are:

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

Setting NTFS File System and Windows NT Registry Permissions

Oracle Corporation recommends that you configure Oracle8*i* database files, directories, and registry settings to allow only authorized database administrators (DBAs) to have full control. These topics describe how to perform these tasks:

- NTFS File System Security
- Windows NT Registry Security

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

NTFS File System Security

The Oracle8*i* database uses files to store database data, backup data, log information, and so on. To do this, the Oracle8*i* database process runs under a security account. This security account (the Windows NT LocalSystem account called SYSTEM) includes the ability to create and access these files. The security account is assigned to the service that the Oracle8*i* database uses (in the Control Panel). This account requires full file system permissions to create, read, write, delete, and execute files.

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

1. Go into Windows NT Explorer.
2. Right-click Oracle8*i* database files (in the *ORACLE_BASE*\ORADATA*DB_NAME* directory), executables and dynamic link libraries (in the *ORACLE_BASE**ORACLE_HOME*\BIN directory), and directories.
3. Select Properties from the menu that appears.
4. Adjust the file and directory permissions to ensure that:
   - *Only* the security account that the Oracle8*i* database is configured to use has full control permissions to these files
   - User accounts that must run Oracle applications (for example, SQL*Plus, Server Manager, and Pro*C) have read privileges on their executables (for example, SQLPLUS.EXE for SQL*Plus)

Note: The Oracle8*i* database uses the Windows NT LocalSystem built-in security account. Therefore, file permissions must be granted to the SYSTEM account of the local computer running the Oracle8*i* database.

Windows NT Registry Security

Oracle Corporation recommends that you remove write permissions from users who are *not* Oracle8*i* DBAs or system administrators in HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE of the Windows NT registry.

To remove write permissions:

1. Open the registry.
2. Go to HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE.
3. Select Permissions from the Security main menu.

   The *Registry Key Permissions* dialog box appears.
4. Remove write permissions from any users who are not Oracle8*i* DBAs or system administrators. Note that the SYSTEM account must have Full Control, since this is the account with which the Oracle8*i* database runs.
5. Ensure that user accounts that must run Oracle applications have read privileges.
6. Choose OK.
7. Exit the registry.

Individual Component Post-installation Configuration Tasks

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

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

7

Deinstalling Oracle Components and Services

This chapter describes how to deinstall Oracle components and services.

Specific topics discussed are:

- Deinstalling Oracle Components with Oracle Universal Installer
- Manually Removing All Oracle Components and Services from Your Computer

Deinstalling Oracle Components with Oracle Universal Installer

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

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

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

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

Task 1: Deinstall Net8 Services and Registry Entries

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

To deinstall Net8 services and registry entries:

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

```
C:\> REGEDT32
```

6. Go to HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services and delete the Oracle*HOME_NAME*TNSListener registry entry. All other Net8 services will be automatically deleted through Oracle Universal Installer.
7. Exit the registry.

Task 2: Deinstall Components with Oracle Universal Installer

To deinstall components with Oracle Universal Installer:

1. If you want to deinstall the Net8 listener, ensure that you first follow the instructions in "Task 1: Deinstall Net8 Services and Registry Entries" on page 7-2.
2. Choose Start > Programs > Oracle Installation Products > Universal Installer.

   The *Welcome* window for Oracle Universal Installer appears.
3. Choose Deinstall Products.

   The *Inventory* window appears.
4. Expand the tree of installed components until you find the components to deinstall.
5. Check the boxes of components to deinstall.
6. Choose Remove.

   The *Inventory Confirmation* window appears.
7. Choose Yes to deinstall the selected components.

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

   The components are deinstalled from your computer. The *Inventory* window appears without the deinstalled components.
8. Choose Close to close the *Inventory* window.
9. Choose Exit to exit Oracle Universal Installer.

Manually Removing All Oracle Components and Services from Your Computer

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

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

Removing Components on Windows NT

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

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

1. Ensure you are logged in as a user with Administrator privileges.
2. Stop all Oracle services (if any are running):
   a. Choose Start > Settings > Control Panel > Services.
   b. If any Oracle services (their names begin with Oracle) exist and have the status *Started*, select the service and choose Stop.
   c. Choose Close to exit the *Services* window.
3. Start the registry at the MS-DOS command prompt:

   ```
   C:\> REGEDT32
   ```

4. Go to HKEY_CLASSES_ROOT.
5. Delete any key that starts with Oracle or ORCL.
6. Go to HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE.
7. Delete the ORACLE key.
8. Delete the Oracle ODBC Driver key under HKEY_LOCAL_MACHINE\SOFTWARE\ODBC\ODBCINST.INI.

9. Go to HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services and remove all keys under here that begin with ORACLE.
10. Go to HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\Application, and remove all keys under here that begin with ORACLE.
11. Go to HKEY_CURRENT_USER\SOFTWARE\ORACLE.
12. Delete keys that start with Oracle or ORCL (if any exist).
13. Go to HKEY_CURRENT_USER\SOFTWARE\ODBC\ODBCINST.INI.
14. Delete any Oracle keys (if any exist).
15. Close the registry.
16. Go to Start > Settings > Control Panel > System > Environment tab.
17. Choose the system variable path and modify the Path variable.
18. Remove any Oracle entries from the path. For example, if JRE was installed by Oracle, remove the %ORACLE_HOME%\BIN path and the JRE path. You may see a path similar to this one:

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

19. Exit the Control Panel.
20. Go to *SYSTEM_DRIVE*:\WINNT\PROFILES\ALL USERS\START MENU\PROGRAMS.
21. Delete the following icons:
    - Oracle - *HOME_NAME*
    - Oracle Installation Products

      where *HOME_NAME* is the previous Oracle home name.
22. Delete *SYSTEM_DRIVE*:\Program Files\Oracle through Windows NT Explorer.
23. Delete all *ORACLE_BASE* directories on your hard drive.
24. Reboot your computer.

Removing Components on Windows 95 or Windows 98

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

1. Start the registry at the MS-DOS command prompt:

   ```
   C:\> REGEDIT
   ```

2. Go to HKEY_CLASSES_ROOT.
3. Delete any key that starts with Oracle or ORCL.
4. Go to HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE.
5. Delete the ORACLE key.
6. Delete the Oracle ODBC Driver key under HKEY_LOCAL_MACHINE\SOFTWARE\ODBC\ODBCINST.INI.
7. Go to HKEY_CURRENT_USER\SOFTWARE\ORACLE.
8. Delete keys that start with Oracle or ORCL (if any exist).
9. Go to HKEY_CURRENT_USER\SOFTWARE\ODBC\ODBCINST.INI.
10. Delete any Oracle keys.
11. Edit your AUTOEXEC.BAT file and remove your %ORACLE_HOME%\BIN and JRE paths from the path setting.
12. Delete *SYSTEM_DRIVE*:\Program Files\Oracle through Windows Explorer.
13. Delete icons from:
    - *SYSTEM_DRIVE*:\WINDOWS\START MENU\PROGRAMS\ORACLE - *HOME_NAME*
    - *SYSTEM_DRIVE*:\WINDOWS\START MENU\PROGRAMS\ORACLE INSTALLATION PRODUCTS

      where *HOME_NAME* is the previous Oracle home name.
14. Delete all *ORACLE_BASE* directories on your hard drive.
15. Reboot your computer.

A

Individual Components Available for Installation

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

Specific topics discussed are:

- Oracle8i Client Components
- Components Not Available with 8.1.7

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

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

Oracle8*i* Client Components

This table alphabetically lists the components available with each installation type of Oracle8*i* Client.

Component	Oracle8*i* Client		
	Administrator	Programmer	Application User
Advanced Queueing API	Yes	Yes	Yes
Net8 Client, includes:	Yes	Yes	Yes
■ Net8 Assistant	Yes	Yes	Yes
■ Net8 Configuration Assistant	Yes	Yes	Yes
■ Oracle Protocol Support	Yes	Yes	Yes
Note: When Net8 Client is installed through the Typical or Minimal installation type, Oracle Protocol Support is automatically installed for the networking protocols detected. If Oracle Protocol Support is selected through the Custom installation type, you are prompted to select the additional networking protocols for which you want support (SPX and LU6.2). Named Pipes and TCP/IP protocol support is automatically installed and cannot be de-installed.			
Object Type Translator, includes:	Yes	Yes	No
■ Oracle INTYPE File Assistant	Yes	Yes	No
Oracle Advanced Security, includes:	Yes	Yes	Yes
1. Encryption and Integrity Support, includes:	Yes	Yes	Yes
■ DES40 Encryption	Yes	Yes	Yes
■ DES56 Encryption	Yes	Yes	Yes
■ 3DES_112 Encryption (2-key option)	Yes	Yes	Yes
■ 3DES_168 Integrity (3-key option)	Yes	Yes	Yes
■ RC4_40 Encryption	Yes	Yes	Yes
■ RC4_56 Encryption	Yes	Yes	Yes
■ RC4_128 Encryption	Yes	Yes	Yes
■ RC4_256 Integrity	Yes	Yes	Yes
■ SHA-1 Integrity	Yes	Yes	Yes
■ MD5 Integrity	Yes	Yes	Yes

Component	Oracle8*i* Client		
	Administrator	Programmer	Application User
2. Thin JDBC Java-based Encryption Support, includes:	Yes	Yes	Yes
■ DES40 Encryption	Yes	Yes	Yes
■ DES56 Encryption	Yes	Yes	Yes
■ RC4_40 Encryption	Yes	Yes	Yes
■ RC4_56 Encryption	Yes	Yes	Yes
■ RC4_128 Encryption	Yes	Yes	Yes
■ RC4_256 Integrity	Yes	Yes	Yes
■ SHA-1 Integrity	Yes	Yes	Yes
■ MD5 Integrity	Yes	Yes	Yes
3. Authentication Support, includes:	Yes	Yes	Yes
■ CyberSafe (with SSO support)	No	No	No
■ DCE (with SSO support)	No	No	No
■ Entrust	No	No	No
■ Identix (for Biometrics)	Yes	Yes	Yes
■ Kerberos (with SSO support)	Yes	Yes	Yes
■ RADIUS (for Smart Cards, Token Cards, and Biometrics)	Yes	Yes	Yes
■ SecurID (for Token Cards)	Yes	Yes	Yes
■ Secure Socket Layer (with X.509 version 3 and SSO support)	Yes	Yes	Yes
Note: Kerberos, SecurID, and Radius are installable through the Custom installation *Authentication Methods* window. Identix, CyberSafe, and Entrust only appear for installation in this window if the appropriate third-party software is installed. DCE is only installable though the Custom installation *Available Product Components* window.			
4. Enterprise User Security, includes:			
■ Oracle Enterprise Login Assistant	Yes	Yes	Yes
■ Oracle Enterprise Security Manager (started through Oracle Enterprise Manager Integrated Applications)	Yes	No	No
■ Oracle Wallet Manager	Yes	Yes	Yes
Note: Oracle Enterprise Login Assistant, Oracle Enterprise Security Manager, and Oracle Wallet Manager are features of Oracle Advanced Security and can only be used if you have purchased an Oracle Advanced Security license.			

Component	Oracle8*i* Client		
	Administrator	Programmer	Application User
Oracle Call Interface	Yes	Yes	Yes
Oracle Enterprise Java Beans and CORBA Tools	Yes	Yes	No
Oracle Enterprise Manager, includes:	Yes	No	No
1. Oracle Enterprise Manager Client, includes:	Yes	No	No
■ Oracle Enterprise Manager Console	Yes	No	No
■ Oracle Enterprise Manager Events	Yes	No	No
■ Oracle Enterprise Manager Migration Assistant	Yes	No	No
■ Oracle DBA Management Pack, includes:	Yes	No	No
Oracle DBA Studio[1]	Yes	No	No
Oracle Instance Manager	No	No	No
Oracle Schema Manager	No	No	No
Oracle Security Manager	No	No	No
Oracle Storage Manager	No	No	No
SQL*Plus Worksheet	Yes	No	No
■ Oracle Enterprise Manager Integrated Applications, includes:	Yes	No	No
Oracle Enterprise Security Manager **Note:** Licensed through Oracle Advanced Security.	Yes	No	No
Oracle Parallel Server Manager	Yes	No	No
Oracle *inter*Media Text Manager	Yes	No	No
Oracle Forms Server Manager	Yes	No	No
Oracle Spatial Index Advisor	Yes	No	No
Oracle Directory Manager	Yes	No	No
2. Oracle Enterprise Manager Paging Server	No	No	No
3. Oracle Enterprise Manager Quick Tours	Yes	No	No
Oracle *inter*Media Client Option	Yes	Yes	Yes
Oracle Internet Directory Client	Yes	No	No

Component	Oracle8*i* Client		
	Administrator	Programmer	Application User
Oracle JDBC Drivers, includes:	Yes	Yes	Yes
■ Oracle JDBC Thin Driver for JDK 1.1	Yes	Yes	Yes
■ Oracle JDBC Thin Driver for JDK 1.2	Yes	Yes	Yes
■ Oracle JDBC / OCI Driver for JDK 1.1	Yes	Yes	Yes
■ Oracle JDBC / OCI Driver for JDK 1.2	Yes	Yes	No
Oracle Migration Workbench	No	No	No
Oracle Objects for OLE	Yes	Yes	Yes
Oracle ODBC Driver	Yes	Yes	Yes
Oracle Provider for OLE DB	Yes	Yes	Yes
Oracle Services for Microsoft Transaction Server	No	No	No
Oracle SQLJ, includes:	Yes	Yes	No
■ SQLJ Runtime	Yes	Yes	No
■ SQLJ Translator	Yes	Yes	No
Oracle Universal Installer, includes:	Yes	Yes	Yes
■ Oracle's version of Java Runtime Environment	Yes	Yes	Yes
■ Oracle Home Selector	Yes	Yes	Yes
Oracle Utilities, includes:	Yes	Yes	Yes
■ Export	Yes	Yes	Yes
■ Import	Yes	Yes	Yes
■ Recovery Manager	Yes	Yes	No
■ SQL*Loader	Yes	Yes	Yes
Oracle Visual Information Retrieval Client	Yes	Yes	Yes
Oracle Workflow Builder	No	No	No
Oracle Workflow Mailer	No	No	No
Oracle XML Developer's Kit	Yes	Yes	Yes
Oracle XML SQL Utility	Yes	Yes	Yes
Oracle8*i* Windows Documentation (installation guide and release notes)	Yes	Yes	Yes

Component	Oracle8*i* Client		
	Administrator	Programmer	Application User
PL/SQL	Yes	Yes	No
Pro*C/C++	Yes	Yes	No
Pro*COBOL 8.1.7	No	No	No
Pro*COBOL 1.8.52	Yes	Yes	No
Replication API	Yes	Yes	No
SQL*Plus	Yes	Yes	Yes

[1] Includes functionality for Oracle Replication Manager.

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

Components Not Available with 8.1.7

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

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

B

Individual Component Descriptions

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

The specific topic discussed is:

- Component Descriptions

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

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

Component Descriptions

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

Component	Release	Description	See Also...
Advanced Queueing API	8.1.7	A component that provides the functionality to support the Advanced Queueing application programming interface (API).	*Oracle8i Application Developer's Guide - Advanced Queuing*
Assistant Common Files (installed with Oracle assistants, such as Net8 Assistant)	8.1.7	A collection of automatically installed files required by Oracle assistants. These files include: ■ 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
Java Runtime Environment (Oracle's version)	1.1.7.30	Required for running Java applications, such as Oracle Universal Installer.	Not applicable
LSM Administrator GUI	8.1.7	A client tool for administering the Legato Storage Manager (LSM) server from a separate Windows NT computer.	■ *Legato Storage Manager Administrator's Guide for Windows 2000 and Windows NT* ■ Appendix E, "Installing and Removing Legato Components"

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

Component	Release	Description	See Also...
Net8 Client	8.1.7	A component that provides features that enable client connections to databases across a network. A client-side application sends a request to Net8 to be transported across the network to the server. Net8 Client (and not Oracle Universal Installer) installs TCP/IP and Named Pipes, and auto-detects SPX. SPX is only installed if the appropriate software is detected on your computer. If you explicitly select this component through the Custom installation type, it will be installed even if you do not have the appropriate software on your computer.	*Net8 Administrator's Guide*
Net8 Configuration Assistant (installed with Net8 Client)	8.1.7	A tool that enables you to configure network components. Net8 Configuration Assistant runs automatically after installation, as described in this guide. Use it on either the client or server. It may also be run in standalone mode to configure naming methods usage, the listener, net service names in the TNSNAMES.ORA file, and directory server access.	*Net8 Administrator's Guide*
Object Type Translator (OTT)	8.1.7	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.	*Oracle Call Interface Programmer's Guide*
Oracle Advanced Security	8.1.7	Oracle Advanced Security provides the following comprehensive suite of security services for Oracle8*i*. *This multicomponent product requires a separate license.*	*Oracle Advanced Security Administrator's Guide*
1. Authentication support		Strong authentication support is provided. See Appendix A, "Individual Components Available for Installation" for more information.	
2. Authorization support		Authorization solutions are provided with the distributed computing environment (DCE), and with the enterprise role management functionality in Oracle Advanced Security.	
3. Encryption and Integrity support		Data confidentiality is ensured using the encryption and data integrity types listed in Appendix A, "Individual Components Available for Installation". **Note:** Recent changes in United States Export Administration Regulations (EAR) make it possible for Oracle Corporation to ship one edition of Oracle Advanced Security worldwide. Oracle Advanced Security includes strong encryption for protocols into the Oracle8*i* database that were previously available only to the U.S. and Canadian markets.	

Component	Release	Description	See Also...
4. **Enterprise User Security support**		Integration with Lightweight Directory Access Protocol (LDAP) v3-compliant directory services is provided, such as Oracle Internet Directory, for centralized enterprise user management, enterprise role management, and single sign-on.	
5. **Single Sign On support**		Single sign on is provided (users authenticate once). Strong authentication then occurs transparently in subsequent connections. Kerberos, CyberSafe, DCE, and secure socket layer (SSL)-based single sign on are supported.	
Oracle Call Interface (OCI)	8.1.7	An API for accessing an Oracle database from a C or C++ program. You make calls directly to the OCI functions from within your C or C++ program to direct the execution of your SQL statements.	■ *Oracle Call Interface Programmer's Guide* ■ *Oracle Call Interface Getting Started for Windows*
Oracle DBA Management Pack	2.2	A set of tools and wizards bundled with Oracle Enterprise Manager. The Oracle DBA Management Pack performs most database administration tasks, and supports all versions of Oracle databases.	*Oracle Enterprise Manager Administrator's Guide*
Oracle DBA Studio (part of Oracle DBA Management Pack)	2.2	A tool that integrates the functionality of schema, security, storage, instance, and replication management into one management tool.	*Oracle Enterprise Manager Administrator's Guide*
Oracle Directory Manager (part of Oracle Enterprise Manager Integrated Applications)	2.1.1	A Java-based tool for administering most functional areas of Oracle Internet Directory and its related processes.	*Oracle Internet Directory Administrator's Guide*
Oracle Enterprise Java Beans and CORBA Tools	8.1.7	An architecture for developing transactional applications as distributed components in Java.	*Oracle8i Enterprise JavaBeans Developer's Guide and Reference*
Oracle Enterprise Login Assistant	1.1	A tool that enables single sign on, which implements a subset of Oracle Wallet Manager functionality for opening a user wallet and enabling applications to use it.	*Oracle Advanced Security Administrator's Guide*

Component	Release	Description	See Also...
Oracle Enterprise Manager	2.2	A suite of components that provide an integrated solution for centrally managing your heterogeneous environment. Oracle Enterprise Manager combines a graphical console, Oracle Management Servers, Oracle Intelligent Agents, common services, and tools to provide an integrated, comprehensive systems management platform for managing Oracle and third-party components.	*Oracle Enterprise Manager Administrator's Guide*
Oracle Enterprise Manager Client	2.2	The first tier of Oracle Enterprise Manager is comprised of clients such as consoles and management applications, which present graphical user interfaces to administrators for all management tasks. These client components can be installed locally or brought up with a Web browser.	*Oracle Enterprise Manager Concepts Guide*
Oracle Enterprise Manager Console	2.2	Client interface for the first tier of Oracle Enterprise Manager, which: ■ Centrally administers, diagnoses, and tunes multiple databases ■ Manages other Oracle components and services ■ Monitors and responds to the status of Oracle components and third-party services 24 hours a day ■ Schedules jobs on multiple nodes at varying time intervals ■ Monitors networked services for events ■ Customizes your display by organizing databases and other services into logical administrative groups	*Oracle Enterprise Manager Administrator's Guide*
Oracle Enterprise Manager Events	2.2	A set of predefined event tests used to monitor your global environment for problem occurrences.	*Oracle Enterprise Manager Administrator's Guide*
Oracle Enterprise Manager Integrated Applications	2.2	Applications integrated with Oracle Enterprise Manager for managing your Oracle environment, and installed with Oracle Enterprise Manager if your environment requires them. The applications can be accessed from the Oracle Enterprise Manager Navigator pane and/or the console application drawers, or from your operating system.	*Oracle Enterprise Manager Administrator's Guide*

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

Component	Release	Description	See Also...
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, "Multiple Oracle Homes and Optimal Flexible Architecture" of *Oracle8i Client Administrator's Guide for Windows*
Oracle Instance Manager (part of Oracle DBA Management Pack)	2.2	A tool that manages database instances and sessions in your Oracle environment.	*Oracle Enterprise Manager Administrator's Guide*
Oracle Internet Directory Client	2.1.1	A component that enables the various components of the Oracle8*i* database to use Oracle Internet Directory for centralized storage.	*Oracle Internet Directory Administrator's Guide*
Oracle Internet File System (Oracle iFS)	1.1	Oracle iFS makes the Oracle8*i* database look and act like a file system that can be accessed through Windows, the Web, FTP, and e-mail clients. Oracle iFS is also a superior development platform for many content management applications. Using Java and XML, you can leverage all the capabilities of the file system, customizing its appearance and behavior to fit your needs.	*Oracle Internet File System Setup and Administration Guide* *Oracle8i Release Notes for Windows NT* for information on the CD-ROMs on which Oracle iFS is shipped.
Oracle INTYPE File Assistant (installed with the Object Type Translator)	8.1.7	An assistant that helps you to create an INTYPE file, which provides a list of types for the Object Type Translator to translate. This component is automatically installed with the Object Type Translator.	*Oracle Call Interface Getting Started for Windows*
Oracle Java Database Connectivity (JDBC) Drivers	8.1.7	A standard set of Java classes, specified by JavaSoft, that provide vendor-independent access to relational data from Java. See the component listings in Appendix A, "Individual Components Available for Installation" for a list of individual release numbers.	*Oracle8i JDBC Developer's Guide and Reference*

Component	Release	Description	See Also...
Oracle Migration Workbench	1.3	Tools that simplify the process of migrating data and applications from non-Oracle databases to Oracle8*i*. The Oracle Migration Workbench allows you to quickly and easily migrate an entire application system (that is, the database schema including triggers and stored procedures) in an integrated, visual environment. Migrations from the following non-Oracle databases are supported: ■ Microsoft Access ■ Microsoft SQL Server ■ Sybase Adaptive Server	■ *Oracle Migration Workbench Reference for MS Access Reference Guide* ■ *Oracle Migration Workbench Reference for MS SQL Server and Sybase Adaptive Server Reference Guide*
Oracle Objects for Object Linking and Embedding (OO4O)	8.1.7	A custom control (OCX or ActiveX) combined with an OLE in-process server that lets you plug native Oracle8*i* database functionality into your Windows applications.	Online help available from the Start Menu.
Oracle Open Database Connectivity (ODBC) Driver	8.1.7	A component that provides support for ODBC connections from Windows NT, Windows 2000, Windows 95, and Windows 98 client systems to Oracle8*i* databases. The Oracle ODBC Driver complies with Version 3.51 of the Microsoft ODBC specification. The SQLBulkOperations ODBC function is not supported.	Online help available from the Start Menu.
Oracle Parallel Server Manager (part of Oracle Enterprise Manager Integrated Applications)	2.2	A component that discovers and manages databases that use Oracle Parallel Server. An extension to the Oracle Enterprise Manager Console, Oracle Parallel Server Manager lists all discovered parallel servers alongside single-instance databases in the Navigator's Databases folder. Using property sheets, you can start up and shut down databases using Oracle Parallel Server, as well as check the status of instances, datafiles, in-doubt transactions, profiles, redo log groups, roles, rollback segments, schema objects, users, and tablespaces.	■ *Oracle Parallel Server Administrator's Guide for Windows NT* ■ *Oracle8i Parallel Server Setup and Configuration Guide*

Component	Release	Description	See Also...
Oracle Protocol Support - Logical Unit Type 6.2 (LU6.2)	8.1.7	This adapter is part of the IBM Advanced Program-to-Program Communication (APPC) architecture. APPC is the IBM peer-to-peer (program-to-program) protocol for a Systems Network Architecture (SNA) network. SNA is an IBM reference model similar to the Open Systems Interconnect (OSI) model of the International Standards Organization (ISO). An SNA network with the LU6.2 and Physical Unit Type 2.1 (PU2.1) protocols provides APPC. The LU6.2 protocol defines a session between two application programs; LU6.2 is a component-independent LU-type. LU6.2 protocol support enables an Oracle application on a personal computer to communicate with an Oracle database. This communication occurs over an SNA network with the Oracle database on a host system that supports APPC.	*Net8 Administrator's Guide*
Oracle Protocol Support - Named Pipes	8.1.7	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).	*Net8 Administrator's Guide*
Oracle Protocol Support - SPX	8.1.7	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.	*Net8 Administrator's Guide*
Oracle Protocol Support - TCP/IP	8.1.7	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).	*Net8 Administrator's Guide*
Oracle Provider for OLE DB	8.1.7	Interfaces that offer high performance and efficient access to Oracle data by applications, compilers, and other database components.	*Oracle Provider for OLE DB User's Guide*

Component	Release	Description	See Also...
Oracle Schema Manager (part of Oracle DBA Management Pack)	2.2	A tool that enables you to create, alter, or drop schema objects such as clusters, indexes, snapshots, tables, and views.	*Oracle Enterprise Manager Administrator's Guide*
Oracle Security Manager (part of Oracle DBA Management Pack)	2.2	A tool that manages database users and their corresponding privileges, profiles, and roles.	*Oracle Enterprise Manager Administrator's Guide*
Oracle Services for Microsoft Transaction Server	8.1.7	A component that provides full integration of Oracle8 database releases 8.0.6 and 8.1.*x* with Microsoft Transaction Server. This component enables you to develop and deploy COM-based applications using Microsoft Transaction Server.	*Using Microsoft Transaction Server With Oracle8*
Oracle Spatial Index Advisor (part of Oracle Enterprise Manager Integrated Applications)	2.2	A tool that helps you analyze and tune spatial indexes on data. With the analyzer, you can see if indexes are properly defined for optimum query performance. The analyzer also provides an understanding of distribution of the data through visual inspection.	*Oracle Enterprise Manager Administrator's Guide*
Oracle SQLJ	8.1.7	A preprocessor for Java programs with embedded SQL statements. It generates Java programs with JDBC calls.	*Oracle8i JDBC Developer's Guide and Reference*
Oracle Storage Manager (part of Oracle DBA Management Pack)	2.2	A tool that enables you to administer tablespaces, datafiles, redo logs, and rollback segments for optimum database storage.	*Oracle Enterprise Manager Administrator's Guide*
Oracle Universal Installer	1.7.1	A graphical user interface (GUI) application that lets you quickly install, update, and remove Oracle components.	Choose Start > Programs > Oracle Installation Products > Universal Installer Concepts Guide
Oracle Utilities	8.1.7	A suite of components used for database administration. Oracle Utilities include Export Utility, Import Utility, SQL*Loader, and Recovery Manager.	*Oracle8i Utilities*
Oracle Visual Information Retrieval Client	8.1.7	This component provides the ability to store, retrieve, and manipulate image data managed by an Oracle8*i* database. *This component requires a separate license.*	*Oracle Visual Information Retrieval User's Guide and Reference*

Component	Release	Description	See Also...
Oracle Wallet Manager	2.1	A tool that generates a public-private key pair and creates a certificate request for submission to a certificate authority, installs a certificate for the identity, and configures trusted certificates for the identity.	*Oracle Advanced Security Administrator's Guide*
Oracle Workflow Builder	2.5.2	Oracle Workflow Builder is a graphical user interface tool for creating, viewing, and modifying workflow process definitions. It contains a Navigator window to define the activities and components of your business process.	*Oracle Workflow Guide*
Oracle Workflow Mailer	2.5.2	This component performs e-mail send and response processing for the Oracle Workflow Notification System. The program sends notification e-mail messages to users and interprets user responses to complete the notifications. This component has implementations that can integrate directly with any MAPI-compliant mail application on Windows NT. Install the MAPI-compliant implementation on a Windows NT computer by selecting Oracle Workflow Mailer through the Custom installation type. This implementation requires a MAPI-compliant mail application installed on the computer and acting as your mail server.	*Oracle Workflow Guide*
Oracle XML Developer's Kit	8.1.7	This kit consists of a set of APIs for parsing and generating XML data. These interfaces have been written for Java, C, C++, and PL/SQL. This kit consists of the following components: ■ XML Parser for Java ■ XML Parser for C ■ XML Parser for C++ ■ XML Parser for PL/SQL ■ XML Class Generator for Java ■ XML Class Generator for C++ ■ XML Transviewer Beans ■ XSQL Servlet	■ *Oracle8i Application Developer's Guide - XML* ■ *Oracle8i XML Reference*
Oracle XML SQL Utility	2.0	This utility is a set of Java classes and PL/SQL wrappers that permit queries to return result sets or objects wrapped in XML.	■ *Oracle8i Application Developer's Guide - XML* ■ *Oracle8i XML Reference*

Component	Release	Description	See Also...
Oracle8*i* Client Online Documentation	8.1.7	Available in HTML and PDF formats on a separate Oracle8*i* Client Online Documentation CD-ROM. This installation guide and the *Oracle8i Release Notes for Windows NT* are not on this CD-ROM.	Appendix F, "Getting Started with Your Documentation"
Oracle8*i* Windows Documentation (Installation Guide and Release Notes)	8.1.7	The installation guide (this guide) describes how to install Oracle components. The *Oracle8i Release Notes for Windows NT* contain important last minute information not included in the documentation library of your Oracle8*i* Client Online Documentation CD-ROM.	This installation guide *Oracle8i Release Notes for Windows NT*
PL/SQL	8.1.7	PL/SQL, Oracle's procedural extension of SQL, is an advanced fourth-generation programming language (4GL). It offers modern features such as data encapsulation, overloading, collection types, exception handling, and information hiding. PL/SQL also offers seamless SQL access, tight integration with the Oracle server and tools, portability, and security.	*PL/SQL User's Guide and Reference*
Pro*C/C++	8.1.7	The Pro*C/C++ precompiler takes SQL statements embedded in your C and C++ programs and converts them to standard C code. When you precompile this code, the result is a C or C++ program that you compile and use to build applications that access an Oracle database.	■ *Pro*C/C++ Precompiler Programmer's Guide* ■ *Pro*C/C++ Precompiler Getting Started for Windows*
Pro*COBOL	8.1.7 and 1.8.52	To access an Oracle8*i* database, you use a high-level query language called Structured Query Language (SQL). You often use SQL through an interactive interface, such as SQL*Plus. Pro*COBOL is a precompiler that converts SQL statements embedded within COBOL programs into standard Oracle run-time library calls. The output file can then be compiled by a COBOL compiler.	■ *Pro*COBOL Precompiler Programmer's Guide* ■ *Pro*COBOL Precompiler Getting Started for Windows*
Replication API	8.1.7	A tool that provides an API to build customized scripts for replication administration	*Oracle8i Replication Management API Reference*
SQL*Plus	8.1.7	A tool that lets you use the SQL and PL/SQL database languages in Windows environments. SQL*Plus has both command line and GUI versions.	*SQL*Plus User's Guide and Reference*

Component	Release	Description	See Also...
SQL*Plus Worksheet (part of Oracle DBA Management Pack)	2.2	A GUI application for manually entering SQL, PL/SQL, and database administrator commands or running stored scripts.	*Oracle Enterprise Manager Administrator's Guide*
SQLJ Runtime (installed with Oracle SQLJ)	8.1.7	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.	*Oracle8i SQLJ Developer's Guide and Reference*
SQLJ Translator (installed with Oracle SQLJ)	8.1.7	A preprocessor for Java programs that contains embedded SQL statements. SQLJ Translator converts the SQL statements to JDBC calls.	*Oracle8i SQLJ Developer's Guide and Reference*
WINSOCK2 on Windows NT support	8.1.7	Net8 supports both the WINSOCK 1.1 and WINSOCK2 socket interface. Net8 automatically detects WINSOCK2 on Windows NT and uses it if it is available. WINSOCK2 is a standard feature of the Windows NT release 4.0 operating system. Oracle uses these WINSOCK2 features in Net8: ■ Overlapped I/O with events ■ Shared sockets (can be enabled as an optional feature)	Appendix E, "Net8 Configuration" of *Oracle8i Client Administrator's Guide for Windows*

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

C

Advanced Installation Topics

This appendix describes advanced installation topics.

Specific topics discussed are:

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

Installing Oracle Components in Non-Interactive Mode

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

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

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

Response File Name	This File Silently Runs The...
CLIENTADMIN.RSP	Oracle8*i* Client Administrator installation type
CLIENTPROGMR.RSP	Oracle8*i* Client Programmer installation type
CLIENTAPPUSER.RSP	Oracle8*i* Client Application User installation type
CLIENTCUSTOM.RSP	Oracle8*i* Client Custom installation
NETCA.RSP	Net8 Configuration Assistant to perform the configuration you receive with an Administrator, Programmer, or Application User installation type

Copying and Modifying a Response File

To copy and modify a response file:

1. Copy the appropriate files from the \RESPONSE directory on the component CD-ROM to your hard drive.
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 both the response files and the *Oracle Universal Installer Concepts Guide*.

Running Oracle Universal Installer and Specifying a Response File

To run Oracle Universal Installer and specify the response file:

1. Go to the MS-DOS command prompt.
2. Go to the directory where Oracle Universal Installer is installed:

   ```
   C:\PROGRAM FILES\ORACLE\OUI\INSTALL> SETUP.EXE -RESPONSEFILE FILENAME
   [-SILENT] [-NOWELCOME]
   ```

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

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 component installations	Does not require editing access to an installation definition for it to be defined as a dependent of the component being packaged. This makes it easy for customers, independent software vendors (ISVs), and value-added resellers (VARs) to integrate multiple components into one common bundle.

To find out more about Oracle Software Packager:

1. Visit the Oracle Technology Network:

   `http://technet.oracle.com/`

2. Choose Documentation.
3. Choose Software Packager.
4. Enter your Oracle Technology Network user name and password when prompted.

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

5. Choose the *Oracle Software Packager User's Guide*.

Installing and Using Oracle Components in Different Languages

This section describes the following features:

- Running Oracle Universal Installer in Different Languages
- Using Oracle Components in Different Languages

Running Oracle Universal Installer in Different Languages

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

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

To run Oracle Universal Installer in a different language:

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

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

See Also: Appendix B, "Oracle8*i* Configuration Parameters and the Registry" of *Oracle8i Client Administrator's Guide for Windows* for more information on using the registry

Using Oracle Components in Different Languages

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

To use components in different languages:

1. Follow the instructions in "Installing Oracle8i Client" on page 5-5 to start Oracle Universal Installer.
2. Select Oracle8*i* Client.
3. Select the Custom installation type.

   The *Available Product Components* window appears.
4. Choose Product Languages.

   The *Language Selection* window appears.
5. Select a language in which to use Oracle components from the Available Languages field.
6. Use the > arrow to move the language to the Selected Languages field and choose OK.
7. Select appropriate components for installation and choose Next.

   After installation is complete, the dialog box wording, messages, and online help for the installed components display in the language you selected.

D

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

Oracle provides NLS that enables users to interact with a database in their own language, as defined by the NLS_LANG parameter. When you install Oracle8*i* components, the NLS_LANG parameter is registered by the Net8 Client installation script.

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

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

The NLS_LANG parameter uses the following format:

```
NLS_LANG = LANGUAGE_TERRITORY.CHARACTER_SET
```

where:

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

See Also:

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

Commonly Used Values for NLS_LANG

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

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.ZHT16MSWIN950
Turkish	TURKISH_TURKEY.WE8ISO8859P9
Ukrainian	UKRAINIAN_UKRAINE.CL8MSWIN1251
Vietnamese	VIETNAMESE_VIETNAM.VN8MSWIN1258

NLS_LANG Settings in MS-DOS Mode and Batch Mode

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

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

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

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

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

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

Language	Character Set
Arabic	AR8ASMO8X
Brazilian Portuguese	WE8PC850
Catalan	WE8PC850
Czech	EE8PC852
Danish	WE8PC850
Dutch	WE8PC850
English	US8PC437

Language	Character Set
Finnish	WE8PC850
French	WE8PC850
German	WE8PC850
Greek	EL8PC737
Hungarian	EE8PC852
Italian	WE8PC850
Japanese	JA16SJIS
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	ZHT16MSWIN950
Turkish	TR8PC857

See Also: Chapter 11 of the *Oracle Internet Directory Administrator's Guide* for Oracle Internet Directory NLS issues and required NLS_LANG environment variables for the various components and tools in an Oracle Internet Directory environment

E

Installing and Removing Legato Components

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

Specific topics discussed are:

- LSM Server
- LSM Administrator GUI

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

LSM Server

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

This section describes how to perform the following steps:

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

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

Updating LSM Server

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

1. Perform a partial removal of LSM server by following the steps in "Removing LSM Server" on page E-5 and selecting Partial Removal.
2. Install the updated version of LSM server by following the steps in "Installing LSM Server" on page E-3.

Installing LSM Server

Install LSM server without using Oracle Universal Installer.

To install LSM server:

1. Log on to the computer as a member of the Administrator's group of Windows NT or Windows 2000.
2. Shut down all Oracle instances on the Windows system, using SQL*Plus.
3. Stop all Oracle database services. Oracle database services are of the form OracleService*SID*.
   a. Choose Start > Settings > Control Panel.
   b. Choose Services.
   c. Select OracleService*SID*, and choose Stop.
   d. Choose Close to exit from the *Services* window.
4. Insert the component CD-ROM into the CD-ROM drive. The *Autorun* window appears.

   If the *Autorun* window does not appear:
   a. Choose Start > Run.
   b. Enter the following:

      DRIVE_LETTER:\AUTORUN\AUTORUN.EXE

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

   When the installation is complete, the LSM server software is installed in the C:\WIN32APP\NSR directory by default.

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

1. Copy the entire LSM directory from the CD-ROM to the drive in which you want to install LSM server.
2. Modify the SERVER.ISS file located in the LSM directory. Change Path=C:\WIN32APP\NSR\ to Path=<*drive*>:<*pathname*>. You can change either the drive name (from the default C:) or the directory pathname (from the default \WIN32APP\NSR\), or both. The Path must end with \NSR and must not contain any spaces. Save the updated SERVER.ISS file.
3. Double-click the LSMINST.EXE file icon.

Follow the instructions below to verify the installation.

10. Verify that Legato services have started:
    a. Choose Start > Settings > Control Panel.
    b. Double-click Services.
    c. Check that the Status of the following services is marked *Started*:

       ```
       NetWorker Backup and Recover Server
       NetWorker Power Monitor (on Windows 2000 only)
       NetWorker Remote Exec Service
       ```

11. Add the LSM installation directory to your system search path:
    a. Open the Control Panel.
    b. Double-click System.
    c. Choose the Environment tab.
    d. Select Path from the System Variables list box.
    e. Add the following to the Value field:

       ```
       ;C:\WIN32APP\NSR\BIN
       ```

       where the semicolon (;) separates the new entry from the existing entries. If you installed LSM in a nondefault drive or directory, replace C:\WIN32APP\NSR\BIN above with the correct drive and pathname, where the pathname always ends in \BIN.

f. Choose Set.

g. Choose OK.

h. Restart your computer for all changes to take effect.

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

Removing LSM Server

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

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

To remove LSM server:

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

Note: Select Complete Removal only if you want to remove all your database, index, and resource files.

The NetWorker Uninstaller removes LSM from your computer.

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

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

LSM Administrator GUI

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

This section describes how to perform the following steps:

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

Updating LSM Administrator GUI

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

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

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

Installing LSM Administrator GUI

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

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

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

1. Log on to the computer as a member of the Administrator's group of Windows NT or Windows 2000.
2. Insert the component CD-ROM into your CD-ROM drive.
3. Navigate to the LSM folder on the CD-ROM.
4. Double-click the LSM57_NT.EXE self-extracting zip file.
5. Specify a directory in which to unzip the files when prompted.
6. Double-click the SETUP.EXE icon, or run SETUP.EXE from the MS-DOS command prompt without any command options. *SETUP Options* appears.
7. Select *Client Only* and choose Next.
8. Choose Next in the *Choose destination directory* window to accept the default destination directory, C:\Program Files\NSR, for LSM Administrator GUI installation. To choose an alternate destination directory for the installation, choose Browse and select the desired location.
9. Leave the field blank and choose Next in the *Authorize NetWorker Servers* window.

   A message box appears stating that the software has been installed successfully.
10. Choose OK.

11. Verify that Legato services have started:
    a. Choose Start > Settings > Control Panel.
    b. Double-click Services.
    c. Check that the Status of the following services is marked *Started*:

       `NetWorker Power Monitor (on Windows 2000 only)`

       `NetWorker Remote Exec`

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

Removing LSM Administrator GUI

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

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

F

Getting Started with Your Documentation

This appendix introduces you to the documentation set.

Specific topics discussed are:

- Documentation Formats
- Documentation Types

See Also:

- "Viewing Documentation on the CD-ROM" on page 1-7 for instructions on viewing the Oracle8*i* Client Online Documentation from the CD-ROM
- "Installing and Viewing the Oracle8i Client Online Documentation" on page 5-10 for instructions on installing the Oracle8*i* Client Online Documentation on your hard drive

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Note: The Oracle8*i* Client Online Documentation CD-ROM does not include this installation guide or the *Oracle8i Release Notes for Windows NT*. Access those documents after installation by:

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

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

Documentation Formats

The Oracle documentation library is included on a separate Oracle8*i* Client Online Documentation CD-ROM. This table describes the format and availability of Oracle8*i* Client Online Documentation and the tools required to view them.

Format	Availability	Tools Required
Hypertext Markup Language (HTML)	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 Client Online Documentation" on page 5-10 for information on Web browser requirements.
Portable Document Format (PDF)	Oracle documentation is available in PDF.	Use Adobe Acrobat Reader to view your PDF documentation set. See "Installing and Viewing the Oracle8i Client Online Documentation" on page 5-10 for information on Adobe Acrobat Reader requirements.
Text file format	Some Oracle components are also documented in README files located in the *ORACLE_BASE**ORACLE_HOME*\RELNOTES directory.	Use an ASCII text editor.
Printed	The How To Get Started CD-ROM insert describes how to access your Oracle documentation and get started with installation.	None required.

Note: To order printed guides, contact:

`http://oraclestore.oracle.com/`

Documentation Types

Your Oracle8*i* Client Online Documentation consists of two types of documentation.

Documentation Type	Describes...
Operating system-specific	Installation, configuration, and use of Oracle8*i* components in a Windows NT, Windows 95, Windows 98, or Windows 2000 environment. Operating system-specific documents are occasionally referred to in the generic documentation set. These documents are easy to identify because their titles typically mention their specific operating system or make reference to a Microsoft feature.
Generic	Oracle8*i*, Net8 networking information, and application programming interface (API) information that is uniform across all operating system platforms. Most of the documents in your documentation set belong to this category. While reading through the generic documentation set, you are occasionally asked to refer to your platform-specific or operating system-specific documentation for procedures specific to the Windows NT, Windows 95, or Windows 98 operating systems. To easily identify where these generic documentation references are described in your operating system documentation, see the index of this guide and the *Oracle8i Client Administrator's Guide for Windows* for the following entry: generic documentation references All generic documentation references described in this guide appear under this index entry.

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

Online Documentation Set

Your Oracle8*i* Client Online Documentation is divided into the following categories:

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

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

Note: Oracle Migration Workbench documentation is not included on the Oracle8*i* Client Online Documentation CD-ROM. The documentation is included in the \OMWB directory after Oracle Migration Workbench installation. You can also visit the Oracle Technology Network for the latest Oracle Migration Workbench documentation:

`http://technet.oracle.com/`

Oracle8*i* Client for Windows

1. **Administration, Concepts, and Reference**

- *Oracle8i Client Administrator's Guide for Windows*
- *Oracle Parallel Server Administrator's Guide for Windows NT*

2. **SQL*Plus**

- *SQL*Plus Getting Started for Windows*

3. **Language and Interfaces**

- *Oracle Call Interface Getting Started for Windows*
- *Pro*C/C++ Precompiler Getting Started for Windows*
- *Pro*COBOL Precompiler Getting Started for Windows*

4. **Application Development**

- *Oracle COM Automation Developer's Guide*
- *Oracle Objects for OLE*
- *Oracle Objects for OLE C++ Class Library*
- *Oracle Provider for OLE DB User's Guide*
- *Using Microsoft Transaction Server With Oracle8*

5. **Oracle Message Broker**

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

6. **Oracle Applications InterConnect**

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

7. **Legato Storage Manager for Windows**

- *Legato Storage Manager Administrator's Guide for Windows 2000 and NT*
- *Legato Storage Manager Command Reference Guide for Windows 2000 and NT*

Oracle8*i* Documentation Addendum

- *Oracle8i Documentation Addendum*

Oracle8*i* Generic Documentation Master Index and Master Glossary

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

Oracle8*i* Server and SQL*Plus

1. **Administration, Concepts, and Reference**

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

2. **Backup and Recovery**

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

3. **SQL*Plus**

- *SQL*Plus User's Guide and Reference*
- *SQL*Plus Quick Reference*
- *SQL*Plus Accessibility Guide for Windows*

4. **Data Warehousing**

- *Oracle8i Data Warehousing Guide*

5. **Distributed Databases and Replication**

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

Oracle8*i* Server Application Development

1. **Application Development**

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

2. **Language and Interface**

- *Oracle Call Interface Programmer's Guide*
- *PL/SQL User's Guide and Reference*
- *Pro*C/C++ Precompiler Programmer's Guide*
- *Pro*COBOL Precompiler Programmer's Guide*
- *SQL*Module for Ada Programmer's Guide*

3. **Application Reference**

- *Oracle8i SQL Reference*
- *Oracle8i Supplied Java Packages Reference*
- *Oracle8i Supplied PL/SQL Packages Reference* *
- *Oracle8i XML Reference*

Oracle8*i* Directory, Networking, and Security

1. **Networking and Security**

- *Net8 Administrator's Guide* *
- *Oracle Advanced Security Administrator's Guide*

2. **Oracle Internet Directory, Release 2.1.1**

- *Oracle Internet Directory Administrator's Guide*
- *Oracle Internet Directory Application Developer's Guide*

Oracle Enterprise Manager

- *Oracle Enterprise Manager Administrator's Guide*
- *Oracle Enterprise Manager Concepts Guide*
- *Oracle Enterprise Manager Configuration Guide*
- *Oracle Enterprise Manager Messages Manual*
- *Oracle Intelligent Agent User's Guide*
- *Oracle SNMP Support Reference Guide*

Oracle8*i* Java Documentation

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

Oracle8*i* Integration Server

1. **Oracle8i Integration Server**
   - *Oracle8i Integration Server Overview*
2. **Oracle Applications Interconnect, Release 3.1.3**
   - *Oracle Applications Interconnect User's Guide*
3. **Oracle Message Broker, Release 2.0.1**
   - *Oracle Message Broker Administration Guide*
   - *Oracle Message Broker Release Notes*
4. **Oracle Workflow, Release 2.5.2**
   - *Oracle Workflow Guide*
   - *Oracle Workflow Installation Supplement*

5. **Other Related Component Documentation**

- *Oracle Enterprise Manager Administrator's Guide*
- *Oracle Internet Directory Application Developer's Guide*
- *Oracle8i Application Developer's Guide - Advanced Queuing*
- *Oracle8i CORBA Developer's Guide and Reference*
- *Oracle8i Distributed Database Systems*
- *Oracle8i Replication **

Oracle8*i* Parallel Server

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

Oracle8*i inter*Media, Spatial, Time Series, and Visual Information Retrieval Options

1. **Oracle8*i inter*Media Options**

- *Oracle8i interMedia Text Migration*
- *Oracle8i interMedia Text Reference **
- *Oracle interMedia Audio, Image, and Video User's Guide and Reference*
- *Oracle interMedia Audio, Image, and Video Java Classes User's Guide and Reference*
- *Oracle interMedia Locator User's Guide and Reference*

2. **Oracle Spatial, Time Series, and Visual Information Retrieval Options**

- *Oracle Spatial User's Guide and Reference*
- *Oracle8i Time Series User's Guide*
- *Oracle Visual Information Retrieval User's Guide and Reference*
- *Oracle Visual Information Retrieval Java Classes User's Guide and Reference*

Oracle WebDB

- *Oracle WebDB Tutorial*
- *Oracle WebDB Installation Guide*
- *Oracle WebDB Release Notes*
- *Oracle WebDB Creating and Managing Components - Task Help*
- *Oracle WebDB Creating and Managing Components - Field-Level Help*
- *Oracle WebDB Creating and Managing Sites - Task Help*
- *Oracle WebDB Creating and Managing Sites - Field-Level Help*

Glossary

administrative context

A directory entry under which an Oracle Context resides. An administrative context can be a directory naming context. During directory access configuration, clients are configured with an administrative context in the directory configuration file (LDAP.ORA). The administrative context specifies the location of the Oracle Context in the directory whose entries a client expects to access. On Windows 2000, your domain is your administrative context.

connect descriptor

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

The destination service is indicated by using its service name for the Oracle8*i* database or its Oracle system identifier (SID) for Oracle release 8.0 or version 7 databases. The network route provides, at a minimum, the location of the listener through use of a network address.

connect identifier

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

```
SQL> CONNECT USERNAME/PASSWORD@CONNECT_IDENTIFIER
```

default domain

The network domain within which most client requests take place. It can be the domain where the client resides, or a domain from which the client often requests network services. The default domain is also the client configuration parameter that

determines what domain to append to unqualified network name requests. A name request is unqualified if it does not have a "." character within it.

Directory Information Tree (DIT)

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

directory naming context

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

directory naming method

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

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

directory server

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

IPC

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

installation types

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

- Administrator
- Programmer
- Application User
- Custom

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

LDAP.ORA file

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

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

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

listener

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

Every time a client requests a network session with a server, a listener receives the actual request. If the client's information matches the listener's information, the listener grants a connection to the server.

LISTENER.ORA file

A configuration file for the listener that identifies the:

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

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

An Oracle8*i* database does not require identification of the database service because of service registration. However, static service configuration is required for an Oracle8*i* database if you plan to use Oracle Enterprise Manager.

local naming method

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

naming method

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

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

net service name

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

```
SQL> CONNECT USERNAME/PASSWORD@NET_SERVICE_NAME
```

Depending on your needs, net service names can be stored in a variety of places, including:

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

operating system authenticated connections

Windows NT login credentials can be used to authenticate users connecting to an Oracle8*i* database. The benefits of Windows NT native authentication include:

- Enabling users to connect to multiple Oracle8*i* databases without supplying a user name or password
- Centralizing Oracle8*i* database user authorization information in Windows NT, which frees Oracle8*i* from storing or managing user passwords

OPS$

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

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

Oracle Context

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

The Oracle Context can contain the following Oracle entries:

- Connect identifiers for use with Net8 directory naming to make database connections
- Enterprise user security for use with Oracle Advanced Security

Oracle home name

The name of the current Oracle home. Each Oracle home has a home name that distinguishes it from all other Oracle homes on your computer. During installation, you are prompted to enter an Oracle home name in the Name field of the Oracle Universal Installer's *File Locations* window.

Oracle home

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

Oracle schema

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

Oracle8*i* Client Online Documentation CD-ROM

The CD-ROM in your kit that includes the Oracle8*i* Client Online Documentation. The Oracle8*i* Client Online Documentation CD-ROM is separate from the component CD-ROM. The Oracle8*i* Client Online Documentation CD-ROM does not include this installation guide or the *Oracle8i Release Notes for Windows NT*. Those documents are only included on the component CD-ROM.

protocol address

An address that identifies the network address of a network object.

When a connection is made, the client and the receiver of the request, such as the listener, Oracle Names Server, or Oracle Connection Manager, are configured with identical protocol addresses. The client uses this address to send the connection request to a particular network object location, and the recipient "listens" for requests on this address. It is important to install the same protocols for the client and the connection recipient, as well as configure the same addresses.

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

SQLNET.ORA file

A configuration file for the client or server that specifies the:

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

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

service registration

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

Service registration provides the listener with the following information:

- Service name(s) for each running instance of the database
- Instance name(s) of the database
- Service handlers (dispatchers and dedicated servers) available for each instance

  This allows the listener to direct a client's request appropriately.
- Dispatcher, instance, and node load information

  This allows the listener to determine which dispatcher can best handle a client connection's request. If all dispatchers are blocked, the listener can spawn a dedicated server for the connection.

TNSNAMES.ORA file

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

unqualified name

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

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