

Oracle8*i* Client

Installation Guide

Release 2 (8.1.6) for Windows

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ORACLE[®]

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Contact Us!

Oracle8i Client Installation Guide, Release 8.1.6 for Windows

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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 NT Server Documentation Manager
500 Oracle Parkway MS 10P8
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/contact_us/sup_hot_phone.html Oracle Support Services telephone numbers are also listed in the <i>Oracle Customer Support Guide</i> in your kit.

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

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

- ☐ The hardware name on which your application is running.

- ☐ The operating system name and release number on which your application is running.

- ☐ The release numbers of the Oracle Server and associated products involved in the current problem. For example, Oracle8i Enterprise Edition release 8.1.6.0.0 and Oracle Enterprise Manager release 2.1.0.0.0.

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

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

- ☐ A description of the issue, including:

- **What happened?** For example, the command used and its result.

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

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

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

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

Resources for Oracle Partners and Developers

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

Information Source	Description
Oracle Corporation Home Page http://www.oracle.com	This Web site is the starting point for general information on Oracle Corporation.
Alliance Online http://alliance.oracle.com	Oracle provides leading-edge technology, education, and technical support that enables you to effectively integrate Oracle into your business. By joining the Oracle Partner Program, you demonstrate to customers that you are committed to delivering innovative Oracle-based solutions and services. The greater your commitment to Oracle, the more we can help you grow your business. It's that simple. The value you derive is associated directly with your level of commitment.
Oracle Education http://education.oracle.com/	Customers come to Oracle Education with a variety of needs. You may require a complete curriculum based on your job role to enable you to implement new technology. Or you may seek an understanding of technology related to your key area of responsibility to help you meet technical challenges. You may be looking for self-paced training that can be used as an ongoing resource for reference and hands-on practice. Or, you may be interested in an overview of a new product upgrade. Whatever your training need, Oracle Education has the solution.
Oracle Technology Network http://technet.oracle.com/	The Oracle Technology Network is your definitive source for Oracle technical information for developing for the Internet platform. You will be part of an online community with access to free software, Oracle Technology Network-sponsored Internet developer conferences, and discussion groups on up-to-date Oracle technology. Membership is free.
Oracle Store http://oraclestore.oracle.com/	This is Oracle's online shopping center. Come to this site to find special deals on Oracle software, documentation, publications, computer-based training products, and much more.

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

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

Before You Begin

This guide is your primary source of introduction, installation, post-installation, and configuration information for Oracle8i Client.

Specific topics discussed:

- [Prerequisites](#)
- [Intended Audience](#)
- [How This Guide Is Organized](#)
- [Documentation and Code Conventions](#)

Prerequisites

This guide assumes that you are familiar with the following:

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

Intended Audience

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

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

How This Guide Is Organized

This guide is organized as follows:

Chapter 1, "Introducing Oracle8i Client"

Introduces you to Oracle8i Client, the supported operating systems, new Oracle8i release 8.1.6 features on Windows, and how to get started with your Oracle documentation

Chapter 2, "Installation Overview"

Provides an overview of how to install Oracle components

Chapter 3, "Installation Requirements"

Describes requirements for the Oracle8i Client installation types and individual components

Chapter 4, "Selecting Net8 Configuration Methods"

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

Chapter 5, "Installing Oracle Components"

Describes how to install Oracle8i Client components

Chapter 6, "Post-installation Configuration Tasks"

Describes post-installation configuration tasks

Chapter 7, "Deinstalling Oracle Components and Services"

Describes how to remove Oracle8i Client components and services

Appendix A, "Individual Components Available for Installation"

Describes the individual components available with each installation type of Oracle8i Client

Appendix B, "Individual Component Descriptions"

Provides descriptions and release numbers of the individual components available with each installation type of Oracle8i Client

Appendix C, "National Language Support"

Describes National Language Support (NLS)

Appendix D, "Installing and Removing Legato Components"

Describes how to install and remove Legato components

Appendix E, "Getting Started with Your Documentation"

Provides a complete introduction to the Oracle documentation set

Documentation and Code Conventions

The following conventions are used in this guide:

Convention	Example	Meaning
All uppercase plain	C:\ORACLE\ORA81	Indicates command names, SQL reserved words, and keywords, as in ALTER DATABASE. All uppercase plain is also used for directory names and file names.
Italic	<ul style="list-style-type: none">■ Used to indicate a variable: <i>file name</i>■ Used to indicate the title of a guide.	Indicates a value that you must provide. For example, if a command asks you to type <i>file name</i> , you must type the actual name of the file.
Square brackets []	X:[<i>PATHNAME</i>]\ORACLE\ <i>HOME_NAME</i>	Encloses optional items. For example, when you create an OFA-compliant Oracle home directory, you can place an optional pathname before the \ORACLE pathname. Square brackets also indicate a function key, for example [Enter].
Choose Start >	Choose Start > Programs > Oracle - <i>HOME_NAME</i> > 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 - <i>HOME_NAME</i> > 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
<i>ORACLE_HOME</i> and <i>ORACLE_BASE</i>	Go to the <i>ORACLE_BASE\ORACLE_HOME\RDBMS\ADMIN</i> directory	<p>In releases prior to 8.1, when you installed Oracle8i Enterprise Edition or Oracle8i for Windows NT, all subdirectories were located under a top level Oracle home directory, that by default was:</p> <p>C:\ORANT for Windows NT</p> <p>C:\ORAWIN95 for Windows 95</p> <p>C:\ORAWIN95 for Windows 98</p> <p>or whatever you may have called your Oracle home.</p> <p>In this Optimal Flexible Architecture (OFA)-compliant release, all subdirectories are no longer under a top level <i>ORACLE_HOME</i> directory. There is now a new top-level directory called <i>ORACLE_BASE</i> that by default is C:\ORACLE. If you install Oracle8i Enterprise Edition or Oracle8i for Windows NT release 8.1.6 on a clean computer (that is, there is no other Oracle software on the computer), the default settings for the first Oracle home directory is C:\ORACLE\ORA81. If you run Oracle Universal Installer again and install release 8.2.x, the second Oracle home directory is called \ORA82. These Oracle home directories are located directly under <i>ORACLE_BASE</i>. All directory path examples in this guide follow OFA conventions.</p> <p>See the <i>Oracle8i Client Administrator's Guide for Windows</i> for additional information on OFA compliance and for information on installing Oracle products in non-OFA compliant directories.</p>
%ORACLE_HOME%	SQL> @%ORACLE_HOME%\ADMIN\DB_NAME\ADHOC\CATALOG.SQL	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
<i>HOME_NAME</i>	Oracle <i>HOME_NAME</i> TNSListener	Represents the Oracle home name. The home name can be up to sixteen alphanumeric characters. The only special character allowed in the home name is the underscore.
<i>HOMEID</i>	HOME0, HOME1, HOME2	Represents a unique registry subkey for each Oracle home directory in which you install products. A new <i>HOMEID</i> is created and incremented each time you install products to a different Oracle home directory on one computer. Each <i>HOMEID</i> contains its own configuration parameter settings for installed Oracle products.
Symbols	period . comma , hyphen - semicolon ; colon : equal sign = backslash \ single quote ' double quote " parentheses ()	Symbols other than brackets and vertical bars must be entered in commands exactly as shown.

Introducing Oracle8*i* Client

This chapter introduces you to Oracle8*i* Client.

Specific topics discussed are:

- [Supported Operating Systems](#)
- [New on Windows in this Release](#)
- [What Documentation Do I Read First?](#)

Supported Operating Systems

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

- Windows NT Workstation 4.0
- Windows NT Server 4.0
- Windows NT Server Enterprise Edition 4.0
- Windows 95
- Windows 98
- Windows 2000

Attention: Windows 2000 production versions were not available during the development and testing of release 8.1.6 products. Oracle Corporation has used the Release Candidate versions of Windows 2000 for development and testing. See the READMEDOC.HTM file at the top level of the CD-ROM for the latest information on certification and support of release 8.1.6 products on Windows 2000.

New on Windows in this Release

This table describes the new components of release 8.1.6 specific to Windows.

New Product	Description	See...
Oracle Provider for OLE DB	<p>OLE DB is an open standard data access methodology that utilizes a set of interfaces for accessing and manipulating all types of data. These interfaces are available from various database providers.</p> <p>The Oracle Provider for OLE DB interfaces offer high performance and efficient access to Oracle data by applications, compilers, and other database components.</p>	<i>Oracle Provider for OLE DB User's Guide</i>
Active Directory support	<p>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.</p> <p>Oracle8i release 8.1.6 enables users to store database service and Net8 net service names as directory objects in Active Directory. Integration with Active Directory enables:</p> <ul style="list-style-type: none"> ■ Oracle objects representing databases and net service names to be created in Active Directory and used by various Oracle applications when connecting to an Oracle8i database ■ 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 Oracle8i database in Active Directory, which helps centralize the administration of users and roles across multiple databases 	Chapter 4, "Using Oracle8i Client Directory Server Features with Active Directory" of <i>Oracle8i Client Administrator's Guide for Windows</i>

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

What Documentation Do I Read First?

Your Oracle documentation set is described in [Appendix E, "Getting Started with Your Documentation"](#). This appendix provides:

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

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

For Information About...	See...
How to obtain customer support	<i>Oracle Customer Support Guide</i>
Important last-minute installation and configuration information	<ul style="list-style-type: none">■ READMEDOC.HTM file located at the top of the product CD-ROM for last-minute additions not included in the <i>Release Notes</i>■ <i>Release Notes</i> <p>Note: After installation, all README files are accessible from the <code>ORACLE_BASE\ORACLE_HOME\RELNOTES</code> directory.</p>
Installing Oracle components into multiple homes on a single computer	Chapter 3 of <i>Oracle8i Client Administrator's Guide for Windows</i>
Installing all Oracle components available on the CD-ROM	Chapter 5, "Installing Oracle Components" of this guide
Networking concepts and administration	<i>Net8 Administrator's Guide</i>
Oracle Enterprise Manager concepts and administration	<ul style="list-style-type: none">■ <i>Oracle Enterprise Manager Concepts Guide</i>■ <i>Oracle Enterprise Manager Administrator's Guide</i>■ <i>Oracle Enterprise Manager Configuration Guide</i>

Viewing Documentation on the CD-ROM

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

To view the documentation on the CD-ROM:

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

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

- a. Choose Start > Run.
- b. Enter the following:

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

The *Autorun* window appears.

2. Click *Browse Documentation* to view the Oracle8i Online Documentation for all components. These documents are in HTML and PDF formats. The Oracle Information Navigator, a Java-based search and navigation applet, also starts.
3. Review the documentation described in the table in "[What Documentation Do I Read First?](#)" on page 1-4 and any other documentation appropriate to your environment.

Note: You can also install your Oracle8i Online Documentation. See "[Installing the Oracle8i Online Documentation](#)" on page 5-11 for instructions.

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

1. Exit the *Autorun* window.
 2. Go to the DOC directory at the root of the Oracle8i Online Documentation CD-ROM.
 3. Click either INDEX.HTM (to start both your Oracle8i Online Documentation and the Oracle Information Navigator, a Java-based search and navigation applet) or PRODUCTS.HTM (to start your Oracle8i Online Documentation *without* the Oracle Information Navigator).
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-

Installation Overview

This chapter provides an overview of how to install Oracle components.

Specific topics discussed are:

- [What Is Oracle Universal Installer?](#)
- [What Installation Types are Available for Installation?](#)
- [Installing Components with Oracle Universal Installer](#)
- [How Do I Get Started?](#)

What Is Oracle Universal Installer?

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

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

See Also: *Oracle Universal Installer Concepts Guide* for more information on Oracle Universal Installer. This guide is *not* included in your Oracle Documentation Library, but is automatically installed on your hard drive during an Oracle Universal Installer installation. See "[Copying and Modifying a Response File](#)" on page 5-9 for information on accessing this document.

What Installation Types are Available for Installation?

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

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

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 and interfaces for creating applications that access an Oracle8i database. This installation package includes precompilers and networking services
Application User	Provides networking services and support files that enable database application users to connect to and interact with an Oracle8i database
Custom	Lets you selectively install components from the above installation types

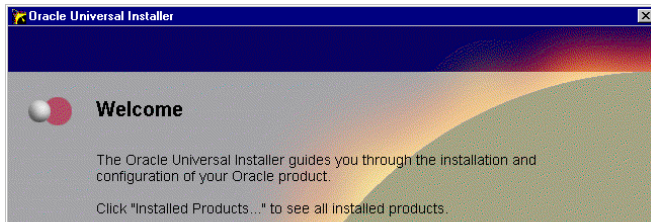
Licensing Information

Although the product CD-ROM in your kit contains many Oracle components, you may use only those components for which you have purchased licenses. For additional licensing information, refer to the *Global License Terms*. See "[Component Descriptions](#)" on page B-2 for products that require separately purchasable licenses.

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

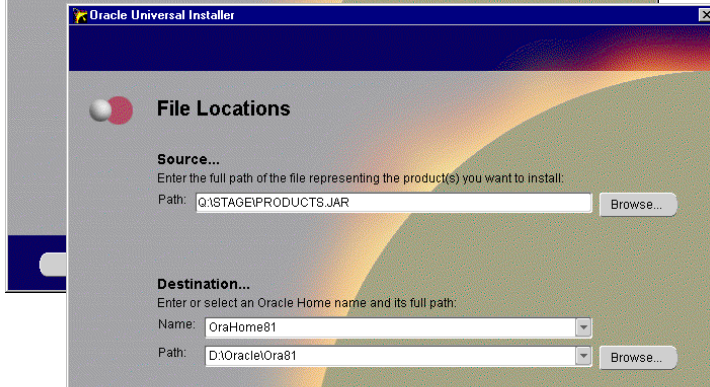
Installing Components with Oracle Universal Installer

When you run Oracle Universal Installer from the CD-ROM, the following windows appear, and enable you to install Oracle8i Client components. This section provides an overview of your component installation choices. Specific installation instructions are provided in [Chapter 5, "Installing Oracle Components"](#).



First window: *Welcome*

Welcomes you to Oracle Universal Installer.

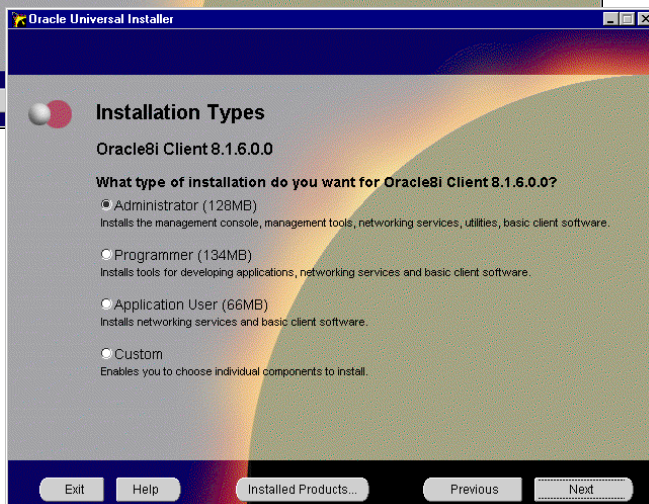


Second window: *File Locations*

Enables you to enter the following in the Destination fields:

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

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



Third window: *Installation Types*

Enables you to select an installation type to install:

- Administrator
- Programmer
- Application User
- Custom

How Do I Get Started?

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

To...	See...
Find out about installation requirements for: <ul style="list-style-type: none">■ Each installation type■ Individual components■ Oracle Enterprise Manager components■ Networking protocols	Chapter 3, "Installation Requirements"
Select a method for configuring your Net8 client/server environment	Chapter 4, "Selecting Net8 Configuration Methods"
Install Oracle components	Chapter 5, "Installing Oracle Components"

Installation Requirements

This chapter describes installation requirements.

Specific topics discussed are:

- [Oracle8i Client](#)
- [Mandatory Individual Component Requirements](#)
- [Oracle Enterprise Manager Requirements](#)
- [Networking Protocol Vendor Requirements](#)

Oracle8i Client

Oracle8i Client 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.

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

Requirement	Administrator	Programmer	Application User
Operating System	Windows NT 4.0, Windows 95, and Windows 98	Windows NT 4.0, Windows 95, and Windows 98	Windows NT 4.0, Windows 95, and Windows 98
Windows NT 4.0 Service Pack	3.0 (with year 2000 fixes), 5.0, or above	3.0 (with year 2000 fixes), 5.0, or above	3.0 (with year 2000 fixes), 5.0, or above
Minimal Processor	Pentium 166	Pentium 133	Pentium 133
Recommended Processor	Pentium I 266	Pentium 166	Pentium 166
RAM	64 MB	32 MB (64 MB recommended)	32 MB (64 MB recommended)
Hard disk	201 MB (plus an additional 18 MB on the system drive) (Includes 200 MB for running the Oracle Enterprise Manager Console, integrated applications, and DBA Applications.)	100 MB (plus an additional 16 MB on the system drive)	46.6 MB (plus an additional 15 MB on the system drive)

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 components can be installed. Appropriate documentation for preinstallation procedures is also identified. This table does not include Oracle Enterprise Manager component preinstallation requirements. That information is described in ["Oracle Enterprise Manager Requirements"](#) on page 3-4.

Product	Description	See Also...
Active Directory integration with Oracle8i	The user performing the Oracle8i installation must perform pre-installation requirements for integration to be successful.	Chapter 4 of the <i>Oracle8i Client Administrator's Guide for Windows</i>
Oracle Advanced Security authentication	You must satisfy specific hardware and software requirements to use authentication support with Oracle components.	Chapter 1 of the <i>Oracle Advanced Security Administrator's Guide</i>
Oracle AppWizard for Microsoft Visual C++	Install Microsoft Visual C++ 5.0 or 6.0 first.	Chapter 1 of the <i>Oracle AppWizard for Microsoft Visual C++ User's Guide</i>
Recovery Manager	<p>To back up to nondisk media, Recovery Manager requires a media management layer such as Legato Storage Manager. Legato Storage Manager requires the following system configuration:</p> <ul style="list-style-type: none"> ■ Minimum Processor: Intel 80486. ■ Recommended Processors: Pentium 133 or Pentium 166 ■ RAM: 32 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 	<i>Legato Storage Manager Administrator's Guide</i>

Oracle Enterprise Manager Requirements

The first tier of Oracle Enterprise Manager (Oracle Enterprise Manager Client) is installable through the Administrator and Custom installation types described in [Appendix A, "Individual Components Available for Installation"](#).

The system requirements for the Administrator installation type were described earlier in "[Oracle8i Client](#)" on page 3-2. In addition to those system requirements, review the following requirements before beginning installation of Oracle Enterprise Manager:

- [Compatibility of Different Oracle Enterprise Manager Releases](#)
- [Oracle Enterprise Manager Web Browser Requirements](#)
- [Repository Migration and Backup Requirements](#)

Compatibility of Different Oracle Enterprise Manager Releases

The Oracle Enterprise Manager Console, DBA Management Pack, separately licensable packs, Oracle Management Server, and repository must all be of the same release. For example, you cannot use a:

- Release 2.0 Oracle Management Server and repository with a release 2.1 Oracle Enterprise Manager Console
- Release 2.1 Oracle Management Server repository with a release 2.0 pack

The following release 2.1 components must use a release 2.1 Oracle Management Server and repository:

- Oracle Enterprise Manager Console
- Oracle DBA Management Pack
- Oracle Tuning Pack
- Oracle Diagnostics Pack
- Oracle Change Management Pack
- Oracle Management Pack for Oracle Applications
- Oracle Management Pack for SAP R/3
- Oracle Standard Management Pack

If the existing Oracle Management Server and repository are of a previous release, then migrate or upgrade them to the most recent release. In the case of migrating or upgrading an Oracle Management Server and repository to release 2.1, ensure that

all Oracle Enterprise Manager components to use with the repository are also release 2.1. For example, do not upgrade the Oracle Management Server and repository to release 2.1 if you are still using Diagnostics Pack release 2.0 or Change Management Pack release 2.0. If you upgrade your Oracle Management Server and repository to release 2.1 before obtaining the release 2.1 pack software, you cannot use the older pack components.

See Also: *Oracle Enterprise Manager Configuration Guide* for more information on migrating and upgrading

Oracle Enterprise Manager Web Browser Requirements

You can also run the Oracle Enterprise Manager Console from a Web browser. The following table describes the system requirements. See [Appendix A, "Individual Components Available for Installation"](#) for the installation types with which you can install Oracle Enterprise Manager Web Site.

Requirement	Description
Minimal Processor	Pentium I 266
Recommended Processor	Pentium II 300
Minimal RAM	64 MB
Recommended RAM	128 MB
Hard disk	105 MB
Web browser	<ul style="list-style-type: none">■ Microsoft Internet Explorer release 4.x or higher■ Netscape Communicator release 4.0.5 or higher
Web server ¹	<ul style="list-style-type: none">■ Oracle Applications Server release 4.0.8 for Windows NT■ Internet Information Server (IIS) release 4.0 for Windows NT

¹ Oracle Enterprise Manager Web Site provides a default Web server listener (Oracle Applications Listener release 4.0.8.1 for Windows NT). If this listener is installed, the Web site is automatically configured. You must manually start the listener (OracleHOME_NAMEAppServerListener) from the Windows NT Control Panel. See the *Oracle Enterprise Manager Configuration Guide* for more information.

Repository Migration and Backup Requirements

If upgrading an Oracle Enterprise Manager release 2.0 repository to release 2.1 or migrating a release 1.x repository to release 2.1, back up or export the existing repository before performing a repository upgrade or migration.

See Also:

- *Oracle Enterprise Manager Configuration Guide*
- *Oracle8i Backup and Recovery Guide*

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	<ul style="list-style-type: none"> ■ Microsoft NW Link for Windows NT, Windows 95/98 ■ Novell NetWare Client 32 release 4.1 ■ Novell IntranetWare Client release 4.1 for Windows NT ■ Novell IntranetWare Client release 2.2 for Windows 95 <p>Note: For Microsoft NW Link, Client Service for NetWare must be installed.</p>
Named Pipes	Windows NT and Windows 95/98	Microsoft NETBEUI
Logical Unit Type 6.2 (LU6.2) protocol	Windows NT	Microsoft SNA Server, release 3.0
Host naming method	Windows NT	Microsoft TCP/IP
NDS naming method	Windows NT and Windows 95	<ul style="list-style-type: none"> ■ Novell NetWare Client 32 release 4.1 ■ Novell IntranetWare Client release 4.1 for Windows NT ■ Novell IntranetWare Client release 2.2 for Windows 95 <p>Note: An Oracle Server release 7.2.2 or above for NetWare release 4.1 is required.</p>
NDS authentication method	Windows NT and Windows 95	<ul style="list-style-type: none"> ■ Novell NetWare Client 32 release 4.1 ■ Novell IntranetWare Client release 4.1 for Windows NT ■ Novell IntranetWare Client release 2.2 for Windows 95 <p>Note: An Oracle Server release 7.2.2 or above for NetWare release 4.1 is required.</p>
Windows native authentication method	Windows NT and Windows 95/98	Microsoft

Selecting Net8 Configuration Methods

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

Specific topics discussed are:

- [Understanding Your Methods Before Installation](#)
- [Selecting a Net8 Configuration Method](#)

Note: This chapter uses networking terms and concepts that may be unfamiliar to a user. See the Glossary for definitions of terms used in this chapter and the *Net8 Administrator's Guide* for detailed descriptions of concepts.

Understanding Your Methods Before Installation

Oracle Universal Installer provides several methods for configuring your Net8 client/server 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 network 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. Then, 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 Net8 Configuration		
	None	Minimal	Extensive
Oracle8i Client			
■ Administrator		X	
■ Programmer		X	
■ Application User		X	
■ Custom, and select: Net8 Client		X ¹	X ¹

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

Selecting a Net8 Configuration Method

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

Note: This chapter describes running Net8 Configuration Assistant from within Oracle Universal Installer. See the *Net8 Administrator's Guide* or the Net8 Configuration Assistant online help for information on running Net8 Configuration Assistant in standalone mode. See Chapter 2, "Database Tools Overview", of the *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 Select These Installation Types... Then...	
Oracle8i Client <ul style="list-style-type: none">■ Administrator■ Programmer■ Application User	<p>Net8 Configuration Assistant first prompts you to select one of the following methods by which to configure access to your Oracle8i database:</p> <ul style="list-style-type: none">■ Directory naming<ul style="list-style-type: none">■ A directory server■ Local naming<ul style="list-style-type: none">■ A net service name enables you to make client connections to the Oracle8i database <p>Depending on what you select, you are prompted to provide additional information.</p> <p>Net8 Configuration Assistant then automatically creates your Net8 client environment by configuring information in the following files:</p> <ul style="list-style-type: none">■ LDAP.ORA, if the directory naming method was selected above<ul style="list-style-type: none">■ 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<ul style="list-style-type: none">■ Configures a net service name, if a local naming method was selected above■ SQLNET.ORA<ul style="list-style-type: none">■ 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 Select These
Installation Types... Then...**

Oracle8i Client	Net8 Configuration Assistant first prompts you to:
<ul style="list-style-type: none"> Custom (and then select Net8 Client) 	<ul style="list-style-type: none"> Complete directory server access configuration, including entering a directory server type and location and administrative context from which the client can look up, create, and modify net service names¹ 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. <p>Net8 Configuration Assistant then automatically creates your Net8 client environment by configuring information in the following files:</p> <ul style="list-style-type: none"> SQLNET.ORA <ul style="list-style-type: none"> Configures the client to request operating system authenticated connections (OPSS) 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 <ul style="list-style-type: none"> Configures a net service name, if the local naming method was selected above to connect to your Oracle8i database LDAP.ORA, if directory naming was selected above <ul style="list-style-type: none"> 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.

Installing Oracle Components

This chapter describes how to install Oracle components.

Specific topics discussed are:

- [Installation Differences Between Windows Operating Systems and UNIX](#)
- [Preinstallation Tasks](#)
- [Installing Oracle8i Client](#)
- [Installing Oracle Components in Non-Interactive Mode](#)
- [Customizing Installations with Oracle Software Packager](#)
- [Installing the Oracle8i Online Documentation](#)

Note: For a list of components installed with each Oracle8i Client installation type, see "[Oracle8i Client Components](#)" on page A-2.

Installation Differences Between Windows Operating Systems and UNIX

DBAs 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 thoroughly described in this chapter.

Preinstallation Tasks

Perform the following tasks before installing Oracle components.

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

To perform preinstallation tasks:

1. Ensure that you have read the appropriate online documentation described in ["What Documentation Do I Read First?"](#) on page 1-4 before you begin installation.
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 path. This is automatically done in the registry. Setting ORACLE_HOME in the environment path is not necessary or recommended and prevents multiple Oracle home environments from functioning properly. See Chapter 3 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 installing on Windows NT and any services 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 click Stop.
 - c. Click Close to exit the *Services* window.

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

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

- a. Choose Start > Run.
- b. Enter the following:

`DRIVE_LETTER:\AUTORUN\AUTORUN.EXE`

The *Autorun* window appears.

8. See "[Installing Oracle8i Client](#)" on page 5-4 for instructions on installing Oracle components.

Installing Oracle8i Client

Follow these procedures to install Oracle8i Client components.

Note: Using the old Oracle Installer (the pre-Oracle Universal Installer shipped with releases 7.x and 8.0.x) to install components into a release 8.1 Oracle home directory is *not* supported. Likewise, you cannot install release 8.1.6 components into a release 7.x, 8.0.x, 8.1.3, or 8.1.4 Oracle home.

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

To install Oracle components:

1. Ensure that you have followed all preinstallation steps described in "[Preinstallation Tasks](#)" on page 5-2.
2. Choose Install/Deinstall Products from the *Autorun* window.
The *Welcome* window appears.
3. Click Next.
The *File Locations* window appears. Do *not* change the directory path in the *Source* field. This is the CD-ROM location of files for installation.
4. Enter the Oracle home name and directory path in which to install Oracle8i Client components in the *Destination* fields.

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

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

5. Click Next.

The *Installation Types* window appears.

6. Select the installation type you want to install and click Next.
7. See the appropriate section based on the selection you made in step 6.

For Installation Instructions On...	See This Section...
Administrator, Programmer, or Application User	"Administrator, Programmer, or Application User" on page 5-5
Custom	"Custom" on page 5-6

Administrator, Programmer, or Application User

The *Summary* window appears.

1. Review the information to ensure that you have enough disk space and click Install.
2. Wait until the selected components are installed.
3. The *Configuration Tools* window appears if Net8 Configuration Assistant is not currently installed on your computer. Net8 Configuration Assistant prompts you to select a method by which to configure client access to your Oracle8i database.
4. Select a method. See the online Help and ["Client Network Configuration"](#) on page 4-4 for more information on your choices. Net8 Configuration Assistant helps you configure client access to your database.

The *End of Installation* window appears.

5. Click Exit to exit Oracle Universal Installer or click Next Install to install additional components.

See Also: See ["Reviewing a Log of an Installation Session"](#) on page 5-7 for a summary of your installation session

Custom

The *Available Product Components* window appears if you selected Custom at step 6 on page 5-5. 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: Exercise care 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 click Next.
The *Component Locations* window appears and enables you to select alternate locations in which to install some components.
3. Click Next to accept the default locations. Otherwise, click a component to enable a text box for changing the default location. Then, click 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...
Oracle Advanced Security	Prompted to select the authentication methods for which you want Oracle support.
Oracle Protocol Support	Prompted to select the network protocol adapters for which to provide Oracle support.
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 information to ensure that you have enough disk space and click **Install**.
6. If you selected Net8 Client for installation, the *Configuration Tools* window appears. Net8 Configuration Assistant automatically starts (if this is the first time that it is being installed on your computer) and prompts you to select a method by which to configure client access to your Oracle8i database.
7. Select a method. See the online Help and "[Client Network Configuration](#)" on page 4-4 for more information on your choices. Net8 Configuration Assistant helps you configure client access to your database.

The *End of Installation* window appears.

8. Click **Exit** to exit Oracle Universal Installer or click **Next Install** to install additional components.

See Also: "[Reviewing a Log of an Installation Session](#)" on page 5-7 for a summary of your installation session

Reviewing a Log of an Installation Session

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

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

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

INSTALLACTIONS.LOG is the latest log file. Log file names of previous installation sessions take the form `INSTALLACTIONS`*DATE_TIME*.LOG (for example, `INSTALLACTIONS1999-07-14_09-00-56-AM.LOG`).

You can also view a list of installed components by clicking **Installed Products** on any window of Oracle Universal Installer.

Installing Oracle Components in Non-Interactive Mode

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

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

Response File Name	This File Silently Runs The...
CLIENTADMIN.RSP	Oracle8i Client Administrator installation
CLIENTPROGMR.RSP	Oracle8i Client Programmer installation
CLIENTAPPUSER.RSP	Oracle8i Client Application User installation
CLIENTCUSTOM.RSP	Oracle8i Client Custom installation
NET8CA.RSP	Net8 Configuration Assistant
EMCA.RSP	Oracle Enterprise Manager Configuration Assistant to create a repository. Note that you cannot perform some advanced features, such as repository upgrade, repository deletion, and repository modification from silent, non-interactive mode. These advanced features must be performed through the interactive mode of Oracle Enterprise Manager Configuration Assistant.

Copying and Modifying a Response File

To copy and modify a response file:

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

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

3. Modify the templates with any text file editor by following the instructions in the response files and the *Oracle Universal Installer Concepts Guide*.

Running Oracle Universal Installer and Specifying a Response File

To run Oracle Universal Installer and specify the response file:

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

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

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

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

Customizing Installations with Oracle Software Packager

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

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

To find out more about Oracle Software Packager:

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

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

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

Installing the Oracle8i Online Documentation

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

To install the Oracle8i Online Documentation:

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

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

- a. Choose Start > Run.
- b. Enter the following:

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

The *Autorun* window appears.

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

The *Welcome* window appears.

3. Click Next.

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

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

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

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

5. Click Next.

The *Summary* window appears.

6. Review the information to ensure that you have enough disk space and click Install.
7. Wait for installation to complete.

The *End of Installation* window appears.

8. Click Exit to exit Oracle Universal Installer.

To view your installed documentation:

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

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

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

Your Web browser is automatically started, and a welcome page listing the documentation categories described in "[Online Documentation Set](#)" on page E-4 appears.

Oracle Information Navigator also appears shortly thereafter.

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

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

- The Java components of Oracle Information Navigator do not work on Windows 3.1. You can still access the Oracle8i Online Documentation; however, you will not be able to use Oracle Information Navigator. You can click PRODUCTS.HTM in the \DOC directory. This starts the Oracle8i Online Documentation without attempting to start the Oracle Information Navigator. To use Oracle Information Navigator, use a 32-bit Microsoft operating system such as Windows NT, Windows 95, or Windows 98.
 - Changes to Microsoft's Internet Explorer release 3.02 to address security issues may prevent Oracle Information Navigator from starting and displaying properly. This does not affect your access to the Oracle8i Online Documentation.
-

Notes: Some notes on using Adobe Acrobat Reader:

- After several documents are opened in Adobe Acrobat Reader, you may receive an error message when trying to open an additional document, stating that the document does not exist. This error message occurs because memory is low. To solve the problem, close any open documents that you are not using, and continue.
 - You must use Adobe Acrobat Reader version 3.0 or greater to view the PDF documentation set.
-

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](#)
- [Configuring Additional Components](#)

Setting NTFS File System and Windows NT Registry Permissions

Oracle Corporation recommends that you configure Oracle8i database files, directories, and registry settings to allow only authorized database administrators (DBAs) to have full control. The following topics describe how to perform these tasks if your Oracle8i database is installed on Windows NT:

- [NTFS File System Security](#)
- [Windows NT Registry Security](#)

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

NTFS File System Security

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

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

1. Go into Windows NT Explorer.
2. Right-click Oracle8 database files (in the *ORACLE_BASE\ORADATA\DB_NAME* directory), executables and dynamic link libraries (in the *ORACLE_BASE\ORACLE_HOME\BIN* directory), and directories.
3. Select Properties from the menu that appears.
4. Adjust the file and directory permissions to ensure that:
 - Only the security account that the Oracle8i database is configured to use has full control permissions to these files
 - User accounts that must run Oracle applications (for example, SQL*Plus, Server Manager, and Pro*C) have read privileges on their executables (for example, SQLPLUS.EXE for SQL*Plus)

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

Windows NT Registry Security

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

To remove write permissions:

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

The *Registry Key Permissions* dialog box appears.

4. Remove write permissions from any users who are not Oracle8i DBAs or system administrators. Note that the SYSTEM account must have Full Control, since this is the account with which the Oracle8i database runs.
5. Ensure that user accounts that must run Oracle applications have read privileges.
6. Click OK.
7. Exit the registry.

Configuring Additional Components

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

Component	Description	See Also...
Net8 network software	<p>Net8 Configuration Assistant is a tool that assists you in configuring your Oracle network.</p> <p>If you installed Net8 Client, Net8 Configuration Assistant automatically started at the end of installation to guide you through network configuration.</p> <p>You can also configure your Oracle network after installation with the Net8 Configuration Assistant and Net8 Assistant tools.</p>	<ul style="list-style-type: none"> ■ <i>Net8 Administrator's Guide</i> and the online help available with both tools ■ "Selecting a Net8 Configuration Method" on page 4-3 for a discussion of available configuration choices
Oracle Advanced Security	Authentication, encryption, integrity support, and enterprise user security require configuration before using.	<i>Oracle Advanced Security Administrator's Guide</i>
Oracle Enterprise Manager	You must perform additional configuration tasks, such as discovering services to manage from the Oracle Enterprise Manager Console, setting up administrator preferred credentials, configuring enhanced notification, and so on.	<i>Oracle Enterprise Manager Configuration Guide</i>
Oracle Services for Microsoft Transaction Server	Configuration must be performed manually. In addition, you must install Microsoft Transaction Server.	<ul style="list-style-type: none"> ■ <i>Using Microsoft Transaction Server With Oracle8</i> ■ Your Microsoft documentation
Pro*COBOL	Pro*COBOL supports specific compilers.	<i>Pro*COBOL Precompiler Getting Started for Windows</i>
SQL*Plus help file	If you want to use online help with SQL*Plus, you must populate the SQL*Plus tables with help files.	<i>SQL*Plus Getting Started for Windows</i>

Deinstalling Oracle Components 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:

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

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

Task 1: Deinstall 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](#)".

Oracle Universal Installer creates Windows NT services for Oracle components during installation. However, Oracle Universal Installer does *not* delete Windows NT services created by Net8 Configuration Assistant.

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 click Stop.
3. Click 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 following Net8 registry entries (if they exist):
 - OracleHOME_NAMEECMAAdmin
 - OracleHOME_NAMEECMan
 - OracleORACLE_HOMENamesonames_server
 - OracleORACLE_HOMEClientCache
7. Exit the registry.
8. Go to "[Task 2: Deinstall Components with Oracle Universal Installer](#)" to complete component removal.

Task 2: Deinstall Components with Oracle Universal Installer

To deinstall components with Oracle Universal Installer:

1. If you want to deinstall Net8 components, 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. Click Deinstall Products.
The *Inventory* dialog box appears.
4. Expand the tree of installed components until you find the components to deinstall.
5. Check the boxes of components to deinstall.
6. Click Remove.
The *Inventory Confirmation* window appears.
7. Click Yes to deinstall the selected components.

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

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

8. Click Close to close the *Inventory* dialog box.
9. Click Exit to exit Oracle Universal Installer.

Manually Removing All Oracle Components and Services from Your Computer

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

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

Removing Components on Windows NT

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

WARNING: These instructions remove *all* Oracle components, services, and registry entries from your computer. 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 click Stop.
 - c. Click Close to exit the *Services* window.
3. Start the registry at the MS-DOS command prompt:
`C:\> REGEDT32`
4. Go to HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE.
5. Delete the ORACLE key.
6. Delete any Oracle key under HKEY_LOCAL_MACHINE\SOFTWARE\ODBC.

7. Go to HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services and remove all keys under here that begin with ORACLE.
8. Go to HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\Application, and remove all keys under here that begin with ORACLE.
9. Close the registry.
10. Go to Start > Control Panel > System > Environment tab.
11. Click on the system variable path and modify the Path variable.
12. If JRE was installed by Oracle, remove the %ORACLE_HOME%\BIN path and the JRE path. For example, you may see a path similar to this one:

```
C:\ORACLE\ORA81\BIN;G:\PROGRAM FILES\ORACLE\JRE\1.1.7\BIN
```
13. Exit the Control Panel.
14. Go to *SYSTEM_DRIVE*:\WINNT\PROFILES\ALL USERS\START MENU\PROGRAMS.
15. Delete the following icons:
 - Oracle - *HOME_NAME*
 - Oracle Installation Productswhere *HOME_NAME* is the previous Oracle home name.
16. Delete *SYSTEM_DRIVE*:\Program Files\Oracle.
17. Delete all *ORACLE_BASE* directories on your hard drive.
18. 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_LOCAL_MACHINE\SOFTWARE\ORACLE.
3. Delete the ORACLE key.
4. Delete the Oracle key under HKEY_LOCAL_MACHINE\SOFTWARE\ODBC.

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

Individual Components Available for Installation

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

The specific topic discussed is:

- [Oracle8i Client Components](#)

Note: The Custom installation type is not listed since it allows you to install all components. Some components can *only* be installed through a Custom installation. Such products have an availability of "No" listed for other installation types in the table 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), see ["Reviewing a Log of an Installation Session"](#) on page 5-7.

Oracle8i Client Components

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

See Also: ["Component Descriptions"](#) on page B-2 for descriptions and release numbers of these components

Product	Oracle8i Client		
	Administrator	Programmer	Application User
Net8 Client, includes:	Yes	Yes	Yes
■ Net8 Assistant	Yes	Yes	Yes
■ Net8 Configuration Assistant	Yes	Yes	Yes
Note: When Net8 Client is installed through the Administrator, Programmer, or Application User installation type, protocol support is automatically installed for the networking protocols detected. When installed through the Custom installation type, you are prompted to select the networking protocols for which you want support (TCP/IP, SPX, Named Pipes, and LU6.2).			
Object Type Translator, includes:	Yes	Yes	No
■ 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
■ RC4_40 Encryption	Yes	Yes	Yes
■ DES56 Encryption	Yes	Yes	Yes
■ RC4_56 Encryption	Yes	Yes	Yes
■ MD5 Integrity	Yes	Yes	Yes
2. Thin JDBC Java-based Encryption Support, includes:	Yes	Yes	Yes
■ DES40 Encryption	Yes	Yes	Yes
■ RC4_40 Encryption	Yes	Yes	Yes
■ DES56 Encryption	Yes	Yes	Yes
■ RC4_56 Encryption	Yes	Yes	Yes
■ MD5 Data Integrity	Yes	Yes	Yes

Product	Oracle8i Client		
	Administrator	Programmer	Application User
3. Authentication Support, includes:	Yes	Yes	Yes
■ CyberSafe	No	No	No
■ DCE	No	No	No
■ Entrust ¹	Yes	Yes	Yes
■ Identix	Yes	Yes	Yes
■ Kerberos	Yes	Yes	Yes
■ RADIUS	Yes	Yes	Yes
■ SecurID	Yes	Yes	Yes
■ SSL	Yes	Yes	Yes
■ X.509	Yes	Yes	Yes
Note: Authentication support methods appear in a window during Custom installation, but are not displayed in the <i>Available Product Components</i> window.			
4. Oracle Wallet Manager	Yes	Yes	Yes
5. Oracle Enterprise Login Assistant	Yes	Yes	Yes
Note: Oracle Enterprise Login Assistant and Oracle Wallet Manager are features of Oracle Advanced Security and can only be used if you have purchased an Oracle Advanced Security license.			
Oracle AppWizard for Microsoft Visual C++ ²	No	Yes	No
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 DBA Management Pack, includes:	Yes	No	No
Oracle DBA Studio	Yes	No	No
Oracle Instance Manager	No	No	No
Oracle Schema Manager	No	No	No
Oracle Security Manager	No	No	No

Product	Oracle8i Client		
	Administrator	Programmer	Application User
Oracle Storage Manager	No	No	No
SQL*Plus Worksheet	Yes	No	No
■ Oracle Enterprise Manager Integrated Applications, includes:	Yes	No	No
Oracle Parallel Server Manager	Yes	No	No
Oracle <i>interMedia</i> Text Manager	Yes	No	No
Oracle Replication Manager	Yes	No	No
Oracle Applications Manager	Yes	No	No
Oracle Distributed Access Manager (beta)	No	No	No
Oracle Developer Server Forms Manager	Yes	No	No
Oracle Spatial Index Advisor (beta)	Yes	No	No
Oracle Directory Manager	Yes	No	No
Oracle Application Server Manager	Yes	No	No
Oracle Enterprise Security Manager	Yes	No	No
Note: Oracle Enterprise Security Manager is a feature of Oracle Advanced Security and can only be used if you have purchased an Oracle Advanced Security license.			
■ Oracle Enterprise Manager Quick Tours	Yes	No	No
Oracle <i>interMedia</i> Client Option	Yes	Yes	No
Oracle Internet Directory Client	Yes	No	No
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	No
■ 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	No
Oracle Services for Microsoft Transaction Server	No	No	No

Product	Oracle8i Client		
	Administrator	Programmer	Application User
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	No
■ Export	Yes	Yes	No
■ Import	Yes	Yes	No
■ Recovery Manager (RMAN)	Yes	Yes	No
■ SQL*Loader	Yes	Yes	No
■ TKPROF	Yes	Yes	No
Oracle Visual Information Retrieval Client	Yes	Yes	Yes
Oracle Web Publishing Assistant	No	No	No
Pro*C/C++	No	Yes	No
Pro*COBOL 8.1.6	Yes	Yes	No
Pro*COBOL 1.8.51	Yes	Yes	No
SQL*Plus	Yes	Yes	No

¹ This is a beta release of Entrust; no support is provided by Oracle Support Services.

² Requires Microsoft Visual C++ 5.0 or 6.0 to first be installed.

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 this appendix.

Component Descriptions

This table provides descriptions and release numbers of individual components available for installation with Oracle8i Client. References are made to documentation that more fully describes these components. Some components described below are automatically installed with other components.

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

Component	Release	Description	See Also...
Assistant Common Files (installed with Oracle assistants, such as Oracle Database Configuration Assistant and Net8 Assistant)	8.1.6	A collection of automatically installed files required by Oracle assistants. These files include: <ul style="list-style-type: none">■ BaliShare 1.0.8 (compressed)■ DBUI 1.1.2■ EWT 3.3.6 (compressed)■ ICE Browser 4.06.6 (compressed)■ Java Swing Components 1.1.1 (compressed)■ Kodiak 1.1.3■ Oracle Help for Java 3.1.8 (compressed)■ SMUI 1.0.8	Not applicable
Java Runtime Environment (Oracle's version)	1.1.7.24	Required for running Java applications, such as Oracle Universal Installer.	Not applicable
LSM Administrator GUI	8.1.6	A client tool for administering the Legato Storage Manager server from a separate Windows NT computer.	<ul style="list-style-type: none">■ <i>Legato Storage Manager Administrator's Guide</i>■ Appendix D, "Installing and Removing Legato Components"

Component	Release	Description	See Also...
Legato Storage Manager (LSM)	8.1.6	If you are using Recovery Manager (RMAN) for Oracle database backups, a media management component such as LSM is required for backing up and restoring from tape storage. You can choose to install a media management component such as LSM or use a third-party media management component that also complies with Oracle's Backup Solutions Program. LSM 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.	<ul style="list-style-type: none"> ■ <i>Legato Storage Manager Administrator's Guide</i> ■ Appendix D, "Installing and Removing Legato Components"
Logical Unit Type 6.2 (LU6.2) protocol support	8.1.6	<p>The 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).</p> <p>APPC architecture lets the client and host communicate over an SNA network without forcing the client to emulate a terminal (as in terminal-to-host protocols). APPC architecture allows peer-to-peer communication; the client can initiate communication with the server.</p> <p>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.</p> <p>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.</p>	<i>Net8 Administrator's Guide</i>
Named Pipes protocol support	8.1.6	A protocol that enables client/server conversation over a network using Named Pipes and Net8. This combination of Oracle components enables an Oracle application on a client to communicate with remote Oracle databases through Named Pipes (if the Oracle database is running on a host system that supports network communication using Named Pipes).	<i>Net8 Administrator's Guide</i>

Component	Release	Description	See Also...
Net8 Assistant (installed with Net8 Client)	8.1.6	<p>A tool that combines configuration abilities with component control to provide an integrated environment for configuring and managing Net8. It can be used on either the client or server.</p> <p>You can use Net8 Assistant to configure the following network components:</p> <ul style="list-style-type: none">■ Naming--Define simple names, connect identifiers, and map them to connect descriptors to identify the network location and identification of a service. Net8 Assistant supports configuration of connect descriptors in local TNSNAMES.ORA files, a centralized LDAP-compliant directory server, or an Oracle Names server.■ Naming Methods--Configure the different ways in which connect identifiers are resolved into connect descriptors.■ Listeners--Create and configure listeners to receive client connections. <p>If an Oracle Names server is configured, you start, stop, tune, or gather statistics for it with Net8 Assistant.</p>	<i>Net8 Administrator's Guide</i>
Net8 Client	8.1.6	<p>A component that provides features that enable client connections to databases across a network. A client-side application sends a request to Net8 to be transported across the network to the server.</p> <p>Net8 Client (and not Oracle Universal Installer) installs TCP/IP and Named Pipes, and auto-detects SPX. SPX is only installed in the installation packages if the appropriate software is detected on your computer. If you explicitly select this component through the Custom installation type, it will be installed even if you do not have the appropriate software on your computer.</p>	<i>Net8 Administrator's Guide</i>
Net8 Configuration Assistant (installed with Net8 Client)	8.1.6	<p>A tool that enables you to configure basic network components. Net8 Configuration Assistant runs automatically after software installation, as described in this guide. It can be used on either the client or server. It may be also be run in standalone mode to configure naming methods usage, the listener, net service names in the TNSNAMES.ORA file, and directory server access.</p>	<i>Net8 Administrator's Guide</i>

Component	Release	Description	See Also...
Object Type Translator (OTT)	8.1.6	OTT is used to create C-struct representations of Abstract Data Types that have been created and stored in an Oracle database. To take advantage of objects, run OTT against the database, and a header file is generated that includes the C-structs.	<i>Oracle Call Interface Programmer's Guide</i>
Oracle Advanced Security	8.1.6	Oracle Advanced Security provides security services for Oracle8i. Oracle Advanced Security secures connections over all protocols into Oracle8i and integrates a Public Key Infrastructure (PKI). Oracle Advanced Security provides data encryption and integrity; integrates with third-party authentication, authorization, and single sign-on solutions; delivers public-key solutions including Secure Sockets Layer (SSL) and X.509 certificates; and utilizes Oracle Internet Directory for storing database authorizations. Oracle Advanced Security also enables enterprise user management and access to multiple accounts and applications with a single password. <i>This multicomponent product requires a separate license.</i>	<i>Oracle Advanced Security Administrator's Guide</i>
Oracle Application Server Manager (part of Oracle Enterprise Manager Integrated Applications)	2.1	A tool that helps you manage your Web site and the Oracle Applications Server. Oracle Application Server Manager discovers all Oracle Applications Servers installed on managed nodes and enables you to view and manipulate the components and features of the server and your Web site.	<i>Oracle Enterprise Manager Administrator's Guide</i>
Oracle Applications Manager (part of Oracle Enterprise Manager Integrated Applications)	2.1	A tool that administers Concurrent Managers, the batch-process scheduling subsystem of Oracle Applications. With this tool, an administrator can improve system performance by creating, configuring, and monitoring all Concurrent Managers on multiple Oracle Applications instances from the Oracle Applications Manager Console. Using the console, you can view details for all processes and requests; cancel or put holds on requests; and start, stop, and define new Concurrent Managers.	<i>Oracle Enterprise Manager Administrator's Guide</i>
Oracle AppWizard for Microsoft Visual C++	8.1.6	A wizard that lets you create an Oracle application skeleton in C++ code without writing a single line of code. You then customize the application skeleton as needed. This wizard is integrated within the Microsoft Visual C++ 5.0 or 6.0 development environment.	<i>Oracle AppWizard for Microsoft Visual C++ User's Guide</i>

Component	Release	Description	See Also...
Oracle Call Interface (OCI)	8.1.6	An application programming interface (API) for accessing an Oracle database from a C or C++ program. You make calls directly to the OCI functions from within your C or C++ program to direct the execution of your SQL statements.	<ul style="list-style-type: none"> ■ <i>Oracle Call Interface Programmer's Guide</i> ■ <i>Oracle Call Interface Getting Started for Windows</i>
Oracle DBA Management Pack	2.1	A set of tools and wizards bundled with Oracle Enterprise Manager. The Oracle DBA Management Pack can be used to perform most of your database administration tasks, and supports all versions of Oracle databases.	<i>Oracle Enterprise Manager Administrator's Guide</i>
Oracle DBA Studio (part of Oracle DBA Management Pack)	2.1	A tool that integrates the functionality of schema, security, storage, and instance management into one management tool.	<i>Oracle Enterprise Manager Administrator's Guide</i>
Oracle Developer Server Forms 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 some 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.	<i>Oracle Enterprise Manager Administrator's Guide</i>
Oracle Directory Manager (part of Oracle Enterprise Manager Integrated Applications)	2.1	A Java-based tool for administering most functional areas of Oracle Internet Directory and its related processes.	<i>Oracle Internet Directory Administrator's Guide</i>
Oracle Distributed Access Manager (part of Oracle Enterprise Manager Integrated Applications)	1.0 (beta)	A tool that monitors and configures a distributed access system, which provides users with homogeneous access to Oracle systems and heterogeneous access to non-Oracle systems.	<i>Oracle Enterprise Manager Administrator's Guide</i>
Oracle Documentation	8.1.6	Available in HTML and PDF formats on a separate Oracle8i Online Documentation CD-ROM.	Appendix E, "Getting Started with Your Documentation"

Component	Release	Description	See Also...
Oracle Enterprise Java Beans and CORBA Tools	8.1.6	An architecture for developing transactional applications as distributed components in Java.	<i>Oracle8i Enterprise JavaBeans and CORBA Developer's Guide</i>
Oracle Enterprise Login Assistant	1.1	A tool that enables single sign on, which implements a subset of the Oracle Wallet Manager functionality for opening a user wallet and enabling applications to use it.	<i>Oracle Advanced Security Administrator's Guide</i>
Oracle Enterprise Manager	2.1	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, common services, and tools to provide an integrated, comprehensive systems management platform for managing Oracle components.	<i>Oracle Enterprise Manager Administrator's Guide</i>
Oracle Enterprise Manager Client	2.1	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.	<i>Oracle Enterprise Manager Concepts Guide</i>
Oracle Enterprise Manager Console	2.1	Client interface for the first tier of Oracle Enterprise Manager, which: <ul style="list-style-type: none"> ■ 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 	<i>Oracle Enterprise Manager Administrator's Guide</i>

Component	Release	Description	See Also...
Oracle Enterprise Manager Integrated Applications	2.1	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.	<i>Oracle Enterprise Manager Administrator's Guide</i>
Oracle Enterprise Manager Quick Tours	2.1	<p>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:</p> <ul style="list-style-type: none"> ■ 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 	<i>Oracle Enterprise Manager Administrator's Guide</i>
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.	<i>Oracle Advanced Security Administrator's Guide</i>
Oracle Home Selector (installed with Oracle Universal Installer)	1.7.0	A tool that enables you to edit your environment path to make an appropriate Oracle home directory your primary home.	Chapter 3 of the <i>Oracle8i Client Administrator's Guide for Windows</i>
Oracle Instance Manager (part of Oracle DBA Management Pack)	2.1	A tool that manages database instances and sessions in your Oracle environment.	<i>Oracle Enterprise Manager Administrator's Guide</i>

Component	Release	Description	See Also...
Oracle <i>interMedia</i> Client Option (part of Oracle <i>interMedia</i>)	8.1.6	A component that provides an Oracle <i>interMedia</i> Audio, Image, and Video Java interface that lets you use client-side applications to manipulate and/or modify multimedia data stored in a network accessible database on the server. It also provides a simple Oracle <i>interMedia</i> Image sample (SIMPIMG.EXE) that was developed using Microsoft Visual C++. SIMPIMG.EXE locates and updates images using Oracle <i>interMedia</i> Image in an Oracle8i database.	<i>Oracle8i interMedia Text Reference</i>
Oracle Internet Directory Client	2.0.6	A component that enables LDAP-enabled clients to access Oracle Internet Directory.	<i>Oracle Internet Directory Administrator's Guide</i>
Oracle INTYPE File Assistant (installed with the Object Type Translator)	8.1.6	An assistant that helps you to create an INTYPE file, which provides a list of types for Object Type Translator to translate. This component is automatically installed with the Object Type Translator.	<i>Oracle Call Interface Getting Started for Windows</i>
Oracle Java Database Connectivity (JDBC) Drivers	8.1.6	A standard set of Java classes, specified by JavaSoft, that provide vendor-independent access to relational data from Java.	<i>Oracle8i JDBC Developer's Guide and Reference</i>
Oracle Migration Workbench	2.1	Tools that simplify the process of migrating data and applications from non-Oracle databases to Oracle8i. The 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.	<ul style="list-style-type: none"> ■ <i>Oracle Migration Workbench Reference for MS Access Reference Guide</i> ■ <i>Oracle Migration Workbench Reference for MS SQL Server and Sybase Adaptive Server Reference Guide</i>

Component	Release	Description	See Also...
Oracle Objects for Object Linking and Embedding (OLE)	8.1.6	A custom control (OCX or ActiveX) combined with an OLE in-process server that lets you plug native Oracle8i database functionality into your Windows applications.	Online help available from the Start Menu.
Oracle Open Database Connectivity (ODBC) Driver	8.1.6	<p>A component that provides support for ODBC connections from Windows NT, Windows 95, and Windows 98 client systems to Oracle databases. The Oracle8 ODBC Driver complies with Version 3.51 of the Microsoft ODBC specification.</p> <p>The following ODBC function is not supported:</p> <ul style="list-style-type: none"> ■ SQLBulkOperations 	Oracle ODBC online help available from the Start Menu.
Oracle Parallel Server Manager (part of Oracle Enterprise Manager Integrated Applications)	2.1	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, data files, in-doubt transactions, profiles, redo log groups, roles, rollback segments, schema objects, users, and tablespaces.	<ul style="list-style-type: none"> ■ <i>Oracle8i Parallel Server Setup and Configuration</i> ■ <i>Oracle Parallel Server Administrator's Guide for Windows NT</i>
Oracle Provider for OLE DB	8.1.6	Interfaces that offer high performance and efficient access to Oracle data by applications, compilers, and other database components.	<i>Oracle Provider for OLE DB User's Guide</i>
Oracle Replication Manager (part of Oracle Enterprise Manager Integrated Applications)	2.1	A tool that enables an administrator to quickly set up, configure, and manage an Oracle replication environment. This tool provides a comprehensive wizard to prepare a database for supporting multimaster and/or snapshot replication. Once set up, additional wizards help you replicate schema objects using either multimaster or a combination of multimaster/snapshot replication. After configuring your replication environment, you can use the Oracle Enterprise Manager Navigator tree and property pages to monitor and modify your replication environment.	<i>Oracle Enterprise Manager Administrator's Guide</i>
Oracle Schema Manager (part of Oracle DBA Management Pack)	2.1	A tool that enables you to create, alter, or drop schema objects such as clusters, indexes, snapshots, tables, and views.	<i>Oracle Enterprise Manager Administrator's Guide</i>

Component	Release	Description	See Also...
Oracle Security Manager (part of Oracle DBA Management Pack)	2.1	A tool that manages database users and their corresponding privileges, profiles, and roles.	<i>Oracle Enterprise Manager Administrator's Guide</i>
Oracle Services for Microsoft Transaction Server	8.1.6	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.	<i>Using Microsoft Transaction Server With Oracle8</i>
Oracle Spatial Index Advisor (part of Oracle Enterprise Manager Integrated Applications)	2.1 (beta)	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.	<i>Oracle Enterprise Manager Administrator's Guide</i>
Oracle SQLJ	8.1.6	A preprocessor for Java programs with embedded SQL statements. It generates Java programs with JDBC calls.	<i>Oracle8i JDBC Developer's Guide and Reference</i>
Oracle Storage Manager (part of Oracle DBA Management Pack)	2.1	A tool that enables you to administer tablespaces, data files, redo logs, and rollback segments for optimum database storage.	<i>Oracle Enterprise Manager Administrator's Guide</i>
Oracle Universal Installer	1.7.0.x	A graphical user interface (GUI) application that lets you quickly install, update, and remove Oracle components.	<i>Oracle Universal Installer Concepts Guide</i> See "Copying and Modifying a Response File" on page 5-9 for information on accessing this guide
Oracle Utilities	8.1.6	A suite of components used for database administration. Oracle Utilities include the Export Utility, Import Utility, SQL*Loader, TKPROF, and Recovery Manager.	<i>Oracle8i Utilities</i>

Component	Release	Description	See Also...
Oracle Visual Information Retrieval Client	8.1.6	<p>Visual Information Retrieval lets you store image data in a database table. The Java client aspect of the product lets you develop client-side Java applications to manipulate and/or modify image data stored in a network-accessible (server-side) database.</p> <p>You can connect to a server-side object, copy that object from the server side to the client side, perform various operations on the client-side object, and transfer the new object back to the server side.</p>	<i>Oracle8i Visual Information Retrieval Java Client User's Guide and Reference</i>
Oracle Wallet Manager	8.1.6	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.	<i>Oracle Advanced Security Administrator's Guide</i>
Oracle Web Publishing Assistant	8.1.6	A tool that lets you query a database and publish the data retrieved on a Web page.	<i>Oracle Web Publishing Assistant Getting Started</i>
Pro*C/C++	8.1.6	The Pro*C/C++ precompiler takes SQL statements embedded in your C and C++ program and converts them to standard C code. When you precompile this code, the result is a C or C++ program that you can compile and use to build applications that access an Oracle database.	<ul style="list-style-type: none"> ■ <i>Pro*C/C++ Precompiler Programmer's Guide</i> ■ <i>Pro*C/C++ Precompiler Getting Started for Windows</i>
Pro*COBOL	8.1.6 and 1.8.51	To access an Oracle 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.	<ul style="list-style-type: none"> ■ <i>Pro*COBOL Precompiler Programmer's Guide</i> ■ <i>Pro*COBOL Precompiler Getting Started for Windows</i>
SQL*Plus	8.1.6	A tool that lets you use the SQL and PL/SQL database languages in the Windows NT, Windows 95, or Windows 98 environments. SQL*Plus has both command line and GUI versions.	<i>SQL*Plus User's Guide and Reference</i>
SQL*Plus Worksheet (part of Oracle DBA Management Pack)	2.1	A GUI application for manually entering SQL, PL/SQL, and DBA commands or running stored scripts.	<i>Oracle Enterprise Manager Administrator's Guide</i>

Component	Release	Description	See Also...
SQLJ Runtime (installed with Oracle SQLJ)	8.1.6	A thin layer of pure Java code that runs above the JDBC driver. When Oracle SQLJ translates your SQLJ source code, embedded SQL commands in your Java application are replaced by calls to the SQLJ runtime.	<i>Oracle8i JDBC Developer's Guide and Reference</i>
SQLJ Translator (installed with Oracle SQLJ)	8.1.6	A preprocessor for Java programs that contains embedded SQL statements. SQLJ Translator converts the SQL statements to JDBC calls.	<i>Oracle8i JDBC Developer's Guide and Reference</i>
Release Notes	8.1.6	Important last-minute installation and configuration information to read before installing and using Oracle components. Release Notes are included on the Oracle8i Online Documentation CD-ROM.	Appendix E, "Getting Started with Your Documentation"
Required Support Files	8.1.6	A collection of files and libraries required by Oracle components.	No documentation
SPX protocol support	8.1.6	A protocol that enables client/server conversation over a network using SPX/IPX and Net8. This combination of Oracle components enables an Oracle application on a client to communicate with remote Oracle databases through SPX/IPX (if the Oracle database is running on a host system that supports network communication using SPX/IPX). This protocol is predominantly used in Novell Directory Services (NDS) environments.	<i>Net8 Administrator's Guide</i>
TCP/IP protocol support	8.1.6	A protocol that enables client/server conversation over a network using TCP/IP and Net8. This combination of Oracle components enables an Oracle application on a client to communicate with remote Oracle databases through TCP/IP (if the Oracle database is running on a host system that supports network communication using TCP/IP).	<i>Net8 Administrator's Guide</i>
WINSOCK2 on Windows NT support	8.1.6	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: <ul style="list-style-type: none"> ■ Overlapped I/O with events ■ Shared sockets (can be enabled as an optional feature) 	Appendix C of the <i>Oracle8i Client Administrator's Guide for Windows</i>

National Language Support

This appendix describes National Language Support (NLS).

Specific topics discussed are:

- [NLS_LANG Parameters](#)
- [Commonly Used Values for NLS_LANG](#)
- [NLS_LANG Settings in MS-DOS Mode and Batch Mode](#)

NLS_LANG Parameters

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

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

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

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

The NLS_LANG parameter uses the following format:

NLS_LANG = LANGUAGE_TERRITORY.CHARACTER_SET

where:

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

See Also: *Oracle8i National Language Support Guide* for information on the NLS_LANG parameter and NLS initialization parameters

Commonly Used Values for NLS_LANG

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

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

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

NLS_LANG Settings in MS-DOS Mode and Batch Mode

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

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

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

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

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

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

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

Installing and Removing Legato Components

This appendix describes how to install and remove Legato components.

Specific topics discussed are:

- [Legato Storage Manager](#)
- [LSM Administrator GUI](#)

Note: You do *not* need to separately install these two Legato components on the same computer. The Legato Storage Manager software includes LSM Administrator GUI. If you install Legato Storage Manager, do *not* separately install LSM Administrator GUI on the same computer. To administer the Legato Storage Manager server from a separate Windows NT computer, install LSM Administrator GUI on that Windows NT computer using the instructions in "[Installing LSM Administrator GUI](#)" on page D-7.

Legato Storage Manager

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

This section describes how to perform the following steps:

- [Updating Legato Storage Manager](#)
- [Installing Legato Storage Manager Manually](#)
- [Removing Legato Storage Manager](#)

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

Updating Legato Storage Manager

To update to a newer version of Legato Storage Manager on Windows NT:

1. Perform a partial removal of Legato Storage Manager by following the steps in ["Removing Legato Storage Manager"](#) on page D-5 and selecting Partial Removal.
2. Install the updated version of Legato Storage Manager software following the steps in ["Installing Legato Storage Manager Manually"](#) on page D-3.

Installing Legato Storage Manager Manually

Install Legato Storage Manager manually without using Oracle Universal Installer.

To install Legato Storage Manager manually:

1. Log on to the computer as a member of the Administrator's group of Windows NT.
2. Stop the Oracle service, OracleServiceSID:
 - a. Choose Start > Settings > Control Panel.
 - b. Double-click Services.
 - c. Select OracleServiceSID, and click Stop.
 - d. Click Close to exit from the *Services* window.
3. Insert the CD-ROM into the CD-ROM drive. The *Autorun* window appears.

If the *Autorun* window does not appear, you must:

- a. Choose Start > Run.
- b. Enter the following:

`DRIVE_LETTER:\AUTORUN\AUTORUN.EXE`

The *Autorun* window appears.

4. Click Explore CD.
5. Navigate to the LSM folder.
6. Double-click the LSMINST.EXE file icon.

When the installation is complete, Legato Storage Manager is installed in the C:\WIN32APP\NSR directory by default. The interface file ORASBT.DLL is installed in the C:\WINNT\SYSTEM32 directory.

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

- Copy the entire LSM directory from the CD-ROM to the drive in which you want to install Legato Storage Manager.
- 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.
- Double-click the LSMINST.EXE file icon.

Follow the instructions below to verify the installation.

7. 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

Storage Management Portmapper

NetWorker Remote Exec Service

8. Add the Legato Storage Manager installation directory to your computer search path:

- a. Open the Control Panel.
- b. Double-click System.
- c. Click 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 Legato Storage Manager 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. Click Set.
- g. Click 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 Legato Storage Manager

Important: Do not remove your indexes if you are upgrading from Legato Storage Manager to Legato NetWorker BusinessSuite 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 BusinessSuite Module for Oracle version to which you are upgrading.

You cannot remove Legato Storage Manager with Oracle Universal Installer. Follow the steps below to remove Legato Storage Manager.

To remove Legato Storage Manager:

1. Choose Start > Programs > NetWorker Group > Uninstall NetWorker.
2. 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 Legato Storage Manager from your computer.

3. Remove the interface file, ORASBT.DLL, from the C:\WINNT\SYSTEM32 directory, where WINNT is the installation directory for Windows NT.

LSM Administrator GUI

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

This section describes how to perform the following steps:

- [Updating LSM Administrator GUI](#)
- [Removing LSM Administrator GUI](#)
- [Installing 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 D-6.
2. Install the updated version of LSM Administrator GUI using the procedure in "[Installing LSM Administrator GUI](#)" on page D-7.

Removing LSM Administrator GUI

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

1. Log on to the computer as a member of the Administrator's group of Windows NT.
2. Choose Start > Programs > NetWorker Group > Uninstall NetWorker.
3. Select Complete as the uninstall option in the Uninstall NetWorker window, and click OK.
4. When a message box appears stating that the client has been removed successfully, click OK.

Installing LSM Administrator GUI

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

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

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

1. Log on to the computer as a member of the Administrator's group of Windows NT.
2. Insert the CD-ROM into your CD-ROM drive.
3. Navigate to the LSM folder on the CD-ROM.
4. Double-click the SETUP.EXE icon, or run SETUP.EXE from the MS-DOS command prompt without any command options. *SETUP Options* appears.
5. Select *Client Only* and click Next.
6. Click Next in *Choose destination directory* to accept the default destination directory, C:\WIN32APP\NSR\, for LSM Administrator GUI installation.

Note: Installation of LSM Administrator GUI in a directory other than the default, C:\WIN32APP\NSR, is *not* supported on a Windows NT client computer.

7. Leave the field blank and click Next in the *Authorize NetWorker Servers* window. A message box appears stating that the software has been installed successfully.
8. Click OK.
9. Verify that the Legato services have started:
 - a. Choose Start > Settings > Control Panel.
 - b. Double-click Services.

- c. Check that the statuses of *Storage Management Portmapper* and *NetWorker Remote Exec Service* are "Started".

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

Getting Started with Your Documentation

This appendix introduces you to the documentation set.

Specific topics discussed are:

- [Documentation Formats](#)
- [What Documentation Did I Receive?](#)

See Also:

- ["What Documentation Do I Read First?"](#) on page 1-4 for instructions on viewing the Oracle Documentation Library from the CD-ROM
 - ["Installing the Oracle8i Online Documentation"](#) on page 5-11 for instructions on installing the Oracle Documentation Library on your hard drive
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Documentation Formats

This table describes the format and availability of documents in your Oracle8i Client kit and the tools required to view them.

Format	Availability	Tools Required
Hypertext Markup Language (HTML)	All Oracle documentation is available in HTML.	Use a Web browser to view your HTML documentation set. The Oracle Information Navigator, a tool that enables you to search your entire HTML documentation library for information, is also available for viewing your HTML documentation set. See " Installing the Oracle8i Online Documentation " on page 5-11 for information on Web browser requirements.
Portable Document Format (PDF)	All Oracle documentation is available in PDF.	Use Adobe Acrobat Reader to view your PDF documentation set. See " Installing the Oracle8i Online Documentation " on page 5-11 for information on Adobe Acrobat Reader requirements.
Text file format	Some Oracle components are also documented in README files located in the <i>ORACLE_BASE\ORACLE_HOME\RELNOTES</i> directory.	Use an ASCII text editor.
Printed	A CD-ROM insert describes how to access your Oracle documentation and get started with installation.	None required.

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

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

What Documentation Did I Receive?

Your documentation set consists of two types of documentation.

Documentation Type	Describes...
Operating system-specific	Installation, configuration, and use of Oracle8i products 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	<p>Oracle8i, Net8 networking information, and application programming interface (API) information that is uniform across all operating system platforms. Most of the documents in your documentation set belong to this category. While reading through the generic documentation set, you are occasionally asked to refer to your platform-specific or operating system-specific documentation for procedures specific to the Windows NT, Windows 95, or Windows 98 operating systems.</p> <p>To easily identify where these generic documentation references are described in your operating system documentation, see the index of this guide and the <i>Oracle8i Client Administrator's Guide for Windows</i> for the following entry:</p> <p>generic documentation references</p> <p>All generic documentation references described in this guide appear under this index entry.</p>

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

Online Documentation Set

Your online Oracle documentation set is divided into the following categories:

- [Oracle8i for Windows, Release 8.1.6](#)
- [Oracle Enterprise Manager, Release 2.1.0](#)
- [Oracle8i Generic Documentation Master Index, Release 8.1.6](#)
- [Oracle8i Server and Data Warehousing, Release 8.1.6](#)
- [Oracle8i Server Application Development, Release 8.1.6](#)
- [Oracle8i Server Networking and Security, Release 8.1.6](#)
- [Oracle8i Parallel Server, Release 8.1.6](#)
- [SQL*Plus, Release 8.1.6](#)
- [Oracle8i interMedia, Spatial, Time Series, and Visual Information Retrieval Options, Release 8.1.6](#)
- [Oracle8i Java Developer's Documentation, Release 8.1.6](#)
- [Oracle WebDB, Release 2.2](#)

Oracle8i for Windows, Release 8.1.6

Release Notes and Installation

- *Oracle8i Client Release Notes for Windows*
- *Oracle8i Client Installation Guide for Windows*

Administration, Concepts, and Reference

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

SQL*Plus

- *SQL*Plus Getting Started for Windows NT and Windows 95/98*

Language and Interface Documentation

- *Oracle Call Interface Getting Started for Windows*
- *Oracle Web Publishing Assistant Getting Started for Windows NT*
- *Pro*C/C++ Precompiler Getting Started for Windows*
- *Pro*COBOL Precompiler Getting Started for Windows*

Application Development

- *Oracle AppWizard for Microsoft Visual C++ User's Guide*
- *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*

Oracle Migration Workbench

- *Oracle Migration Workbench FAQ*
- *Oracle Migration Workbench Release Notes*
- *Oracle Migration Workbench Reference for MS Access Reference Guide*
- *Oracle Migration Workbench Reference for MS SQL Server and Sybase Adaptive Server Reference Guide*

Oracle Enterprise Manager, Release 2.1.0

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

Oracle8i Generic Documentation Master Index, Release 8.1.6

- *Oracle8i Generic Documentation Master Index*

Oracle8i Server and Data Warehousing, Release 8.1.6

Concepts, Administration, 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*

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*

Data Warehousing

- *Oracle8i Data Warehousing Guide*

Distributed Databases

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

Oracle8i Server Application Development, Release 8.1.6

Application Development

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

Language and Interface Documentation

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

Oracle8i Server Networking and Security, Release 8.1.6

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

Oracle8i Parallel Server, Release 8.1.6

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

SQL*Plus, Release 8.1.6

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

Oracle8i interMedia, Spatial, Time Series, and Visual Information Retrieval Options, Release 8.1.6

Oracle8i interMedia Options

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

Oracle8 Spatial, Time Series, and Visual Information Retrieval Options

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

Oracle8i Java Developer's Documentation, Release 8.1.6

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

Oracle WebDB, Release 2.2

- *Oracle WebDB Tutorial*
- *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 NT, your domain is your administrative context.

connect descriptor

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

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

connect identifier

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

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

default domain

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

parameter that determines what domain should be appended to unqualified network name requests. A name request is unqualified if it does not have a "." character within it.

Directory Information Tree (DIT)

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

directory naming context

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

directory naming method

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

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

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.

external procedures

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

IPC

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

LDAP.ORA file

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

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

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

listener

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

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

LISTENER.ORA file

A configuration file for the listener that identifies the:

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

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

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

local naming method

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

naming method

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

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

net service name

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

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

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

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

operating system authenticated connections

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

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

OPSS\$

The initialization file parameter OS_AUTHENT_PREFIX enables users to specify a prefix that Oracle uses to authenticate users attempting to connect to the database.

Oracle concatenates the value of this parameter to the beginning of the user's operating system account name and password. When a connection request is attempted, Oracle compares the prefixed username with Oracle usernames in the database.

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

Oracle8i Online Documentation CD-ROM

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

Oracle schema

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

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.

product CD-ROM

The CD-ROM in your kit that includes the Oracle8i server, client, and management infrastructure software. The product CD-ROM is separate from the Oracle8i Online Documentation CD-ROM.

repository

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

SQLNET.ORA file

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

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

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

service registration

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

Service registration provides the listener with the following information:

- Service name(s) for each running instance of the database
- Instance name(s) of the database

- Service handlers (dispatchers and dedicated servers) available for each instance
This allows the listener to direct a client's request appropriately.
- Dispatcher, instance, and node load information
This allows the listener to determine which dispatcher can best handle a client connection's request. If all dispatchers are blocked, the listener can spawn a dedicated server for the connection.

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

TNSNAMES.ORA file

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

unqualified name

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

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