

Oracle9i Application Server

Installation Guide

Release 1 (v1.0.2.2) for Windows NT/2000

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ORACLE®

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Oracle9i Application Server Installation Guide, Release 1 (v1.0.2.2) for Windows NT/2000

Part No. A90216-01

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?
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If you would like a reply, please give your name, address, and telephone number below.

If you have problems with the software, please contact your local Oracle Support Services.

Preface

This guide describes the installation process for Oracle9i Application Server.

This preface contains these topics:

- [Audience](#)
- [Organization](#)
- [Related Documentation](#)
- [Conventions](#)

Audience

This installation guide is intended for system administrators and others responsible for installing Oracle products. You should be familiar with client/server relationships and database concepts.

Organization

This document contains:

[Chapter 1, "Requirements"](#)

This chapter provides hardware and software requirements for Oracle9i Application Server, Oracle9iAS Client, and the online documentation.

[Chapter 2, "Concepts and Preinstallation"](#)

This chapter provides basic concepts, and preinstallation steps for Oracle9i Application Server.

[Chapter 3, "Minimal Edition"](#)

This chapter guides you through the installation and postinstallation steps for the Minimal Edition installation option for Oracle9i Application Server.

[Chapter 4, "Standard Edition"](#)

This chapter guides you through the installation and postinstallation steps for the Standard Edition installation option for Oracle9i Application Server.

[Chapter 5, "Enterprise Edition"](#)

This chapter guides you through the installation and postinstallation steps for the Enterprise Edition installation option for Oracle9i Application Server.

[Chapter 6, "Non-Interactive Installation"](#)

This chapter guides you through Non-interactive installation steps for Oracle9i Application Server.

[Chapter 7, "Deinstallation and Reinstallation"](#)

This chapter guides you through the deinstallation and reinstallation steps for Oracle9i Application Server.

[Appendix A, "Configuration Tools"](#)

This appendix guides you through the steps required to run component-specific configuration assistants to configure Oracle9i Application Server.

[Appendix B, "Installing Oracle9i Application Server Administrative and Development Client CD-ROM"](#)

This appendix provides an overview, and describes the installation process for the Oracle9i Application Server Administrative and Development Client CD-ROM.

[Appendix C, "Installing Oracle9iAS Containers for J2EE \(OC4J\)"](#)

This appendix provides a brief overview, and installation instructions for Oracle9iAS Containers for J2EE.

[Appendix D, "Installing Supplemental Components"](#)

This appendix introduces you to the Oracle9i Application Server supplemental components, and provides basic installation instruction.

[Appendix E, "Enabling SSL for Oracle HTTP Server powered by Apache"](#)

This appendix describes steps necessary to enable SSL for Oracle HTTP Server *powered by Apache*.

[Appendix F, "Installing Documentation Library"](#)

This appendix contains the contents of the Oracle9i Application Server Documentation Library CD-ROM, and provides instructions for installing and viewing the documentation.

Related Documentation

For more information, see these Oracle resources:

- Oracle9i Application Server Documentation Library CD-ROM
- Oracle9i Application Server Platform Specific Documentation on Oracle9i Application Server Disk 1

In North America, printed documentation is available for sale in the Oracle Store at

<http://oraclestore.oracle.com/>

Customers in Europe, the Middle East, and Africa (EMEA) can purchase documentation from

<http://www.oraclebookshop.com/>

Other customers can contact their Oracle representative to purchase printed documentation.

To download free release notes, installation documentation, white papers, or other collateral, please visit the Oracle Technology Network (OTN). You must register online before using OTN; registration is free and can be done at

<http://technet.oracle.com/membership/index.htm>

If you already have a username and password for OTN, then you can go directly to the documentation section of the OTN Web site at

<http://technet.oracle.com/docs/index.htm>

Conventions

This section describes the conventions used in the text and code examples of this documentation set. It describes:

- [Conventions in Text](#)
- [Conventions in Code Examples](#)

Conventions in Text

We use various conventions in text to help you more quickly identify special terms. The following table describes those conventions and provides examples of their use.

Convention	Meaning	Example
Bold	Bold typeface indicates terms that are defined in the text or terms that appear in a glossary, or both.	When you specify this clause, you create an index-organized table .
<i>Italics</i>	Italic typeface indicates book titles or emphasis.	<i>Oracle9i Concepts</i> Ensure that the recovery catalog and target database do <i>not</i> reside on the same disk.
UPPERCASE monospace (fixed-width font)	Uppercase monospace typeface indicates elements supplied by the system. Such elements include parameters, privileges, datatypes, RMAN keywords, SQL keywords, SQL*Plus or utility commands, packages and methods, as well as system-supplied column names, database objects and structures, usernames, and roles.	You can specify this clause only for a NUMBER column. You can back up the database by using the BACKUP command. Query the TABLE_NAME column in the USER_TABLES data dictionary view. Use the DBMS_STATS.GENERATE_STATS procedure.

Convention	Meaning	Example
lowercase monospace (fixed-width font)	Lowercase monospace typeface indicates executables, filenames, directory names, and sample user-supplied elements. Such elements include computer and database names, net service names, and connect identifiers, as well as user-supplied database objects and structures, column names, packages and classes, usernames and roles, program units, and parameter values. Note: Some programmatic elements use a mixture of UPPERCASE and lowercase. Enter these elements as shown.	Enter <code>sqlplus</code> to open SQL*Plus. The password is specified in the <code>orapwd</code> file. Back up the datafiles and control files in the <code>/disk1/oracle/dbs</code> directory. The <code>department_id</code> , <code>department_name</code> , and <code>location_id</code> columns are in the <code>hr.departments</code> table. Set the <code>QUERY_REWRITE_ENABLED</code> initialization parameter to <code>true</code> . Connect as <code>oe</code> user. The <code>JRepUtil</code> class implements these methods.
lowercase monospace (fixed-width font) <i>italic</i>	Lowercase monospace italic font represents placeholders or variables.	You can specify the <i>parallel_clause</i> . Run <code>Uold_release.SQL</code> where <i>old_release</i> refers to the release you installed prior to upgrading.

Conventions in Code Examples

Code examples illustrate SQL, PL/SQL, SQL*Plus, or other command-line statements. They are displayed in a monospace (fixed-width) font and separated from normal text as shown in this example:

```
SELECT username FROM dba_users WHERE username = 'MIGRATE';
```

The following table describes typographic conventions used in code examples and provides examples of their use.

Convention	Meaning	Example
[]	Brackets enclose one or more optional items. Do not enter the brackets.	<code>DECIMAL (digits [, precision])</code>
{ }	Braces enclose two or more items, one of which is required. Do not enter the braces.	<code>{ENABLE DISABLE}</code>
	A vertical bar represents a choice of two or more options within brackets or braces. Enter one of the options. Do not enter the vertical bar.	<code>{ENABLE DISABLE}</code> <code>[COMPRESS NOCOMPRESS]</code>

Convention	Meaning	Example
...	Horizontal ellipsis points indicate either: <ul style="list-style-type: none"> ■ That we have omitted parts of the code that are not directly related to the example ■ That you can repeat a portion of the code 	<pre>CREATE TABLE ... AS subquery;</pre> <pre>SELECT col1, col2, ... , coln FROM employees;</pre>
. . .	Vertical ellipsis points indicate that we have omitted several lines of code not directly related to the example.	
Other notation	You must enter symbols other than brackets, braces, vertical bars, and ellipsis points as shown.	<pre>acctbal NUMBER(11,2);</pre> <pre>acct CONSTANT NUMBER(4) := 3;</pre>
<i>Italics</i>	Italicized text indicates placeholders or variables for which you must supply particular values.	<pre>CONNECT SYSTEM/system_password</pre> <pre>DB_NAME = database_name</pre>
UPPERCASE	Uppercase typeface indicates elements supplied by the system. We show these terms in uppercase in order to distinguish them from terms you define. Unless terms appear in brackets, enter them in the order and with the spelling shown. However, because these terms are not case sensitive, you can enter them in lowercase.	<pre>SELECT last_name, employee_id FROM employees;</pre> <pre>SELECT * FROM USER_TABLES;</pre> <pre>DROP TABLE hr.employees;</pre>
lowercase	Lowercase typeface indicates programmatic elements that you supply. For example, lowercase indicates names of tables, columns, or files. Note: Some programmatic elements use a mixture of UPPERCASE and lowercase. Enter these elements as shown.	<pre>SELECT last_name, employee_id FROM employees;</pre> <pre>sqlplus hr/hr</pre> <pre>CREATE USER mjones IDENTIFIED BY ty3MU9;</pre>

Requirements

This chapter provides information about the hardware and software items required for the installation of the Oracle9i Application Server, Oracle9iAS Client, and the online documentation. The topics include:

- [Hardware Requirements](#)
- [Software Requirements](#)
- [Certified Software](#)
- [Oracle9iAS Client Requirements](#)
- [Online Documentation Requirements](#)

Hardware Requirements

The following table contains the hardware requirements for Oracle9i Application Server. All the space calculations are based on NTFS. FAT formatted drives will require additional space.

Hardware Items	Requirements
CPU	An Intel compatible 486 or higher processor
Memory	128 MB
Disk Space	Minimal: 640MB Standard Edition: 1.60 GB Enterprise Edition: 3.20 GB
Total Pagefile Size or Swap Space	800 MB
TEMP Space	TEMP system environment variable should point to a directory with at least 270 MB of free space.

Make note of the following:

- The disk space must be available on a single drive. Oracle9i Application Server does not support spanning the installation over multiple drives.
- Origin database must have minimum free disk space for the following:
 - System Tablespace: 1 GB
 - User Tablespace: 400 MB

For Standard Edition Only: You will need an additional 430 MB disk space on your Oracle9i Application Server machine to install the Oracle Enterprise Java Engine database. The database files do not have to be installed on the same disk as the Oracle9i Application Server Oracle home.

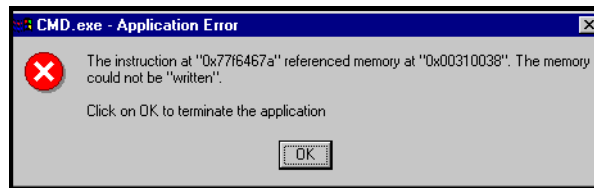
Software Requirements

The following table contains the software requirements for Oracle9i Application Server.

Software Items	Version
Operating System	<ul style="list-style-type: none">■ Microsoft Windows NT with Service Pack 3 (minimum) or 5 (recommended)■ Microsoft Windows 2000 Service Pack 1.
Virtual Memory	At least 360 MB of free virtual memory. To change the amount of virtual memory, go to Windows Control Panel and open System. Under the performance tab, change the amount of virtual memory.

Path Environment Variable

If the value of the user's PATH environment variable is over 1,024 bytes, then the following error may occur when the installer starts up the Oracle HTTP Server process:



This error can be resolved by doing either one of the following:

- Shortening the length of the PATH environment variable.
- Downloading a patch from Microsoft to correct the problem in `cmd.exe`. The patch is described in Microsoft Knowledge Base article **Q268722**.

Certified Software

Installation of the Oracle9i Application Server requires an Oracle database. A complete list of certified software, including databases, for Oracle9i Application Server can be found at Oracle *MetaLink*:

<http://metalink.oracle.com>

Oracle9iAS Client Requirements

The following table contains the requirements for the installation of Oracle9iAS Client. All the space calculations are based on NTFS. FAT formatted drives will require additional space.

See Also: [Appendix B, "Installing Oracle9i Application Server Administrative and Development Client CD-ROM"](#)

Hardware Items	Required
Operating System	Microsoft Windows NT 4.0, with Service Pack 5.0 or higher Microsoft Windows 2000 Service Pack 1. Some components might malfunction if Service Pack 1 is not available.
CPU	Pentium 266
Memory	At least 64 MB RAM for running both the Oracle9iAS Wireless Service Designer and Web Integration Developer; at least 32 MB RAM for running the Oracle9iAS Wireless Service Designer.
Disk Space	40 MB for running both the Oracle9iAS Wireless Service Designer and Web Integration Developer; at least 20 MB for running the Oracle9iAS Wireless Service Designer.
JDK 1.2.2	The client system requires JDK 1.2.2. You can install JDK 1.2.2 for Windows NT from the client CD-ROM. Make the JDK directory the first entry in the system environment path.

Online Documentation Requirements

The following table contains the tools and disk space requirements for the installation of the Oracle9i Application Server online documentation. All the space calculations are based on NTFS. FAT formatted drives will require additional space. The documentation library can be installed on a separate machine.

See Also: [Appendix F, "Installing Documentation Library"](#)

Requirement	Items
Online Readers	Requires any one of the following: HTML <ul style="list-style-type: none">■ Netscape Navigator 3.0 or higher■ Microsoft Internet Explorer 3.0 or higher PDF <ul style="list-style-type: none">■ Acrobat Reader 3.0 or higher■ Acrobat Reader+Search 3.0 or higher■ Acrobat Exchange 3.0 or higher■ PDFViewer Web browser plug-in 1.0 or higher
Disk Space	260 MB

Concepts and Preinstallation

This chapter guides you through the basic concepts and preinstallation steps for Oracle9i Application Server. The following topics provide information about Oracle9i Application Server, environment variables settings, configuration options, and starting Oracle Universal Installer:

- [About Oracle9i Application Server](#)
- [Preinstallation Tasks](#)
- [About Oracle Universal Installer](#)

About Oracle9i Application Server

Oracle9i Application Server is a scalable, secure, middle-tier application server. It enables you to deliver Web content, host Web applications, connect to back-office applications, and access your data on wireless devices. Oracle9i Application Server has three installation options:

- **Minimal Edition:** recommended for Websites that require a lightweight Web server with minimal application support.
- **Standard Edition:** recommended for smaller Websites that require minimal support for running transactional applications.
- **Enterprise Edition:** recommended for medium to large-sized Websites that handle a high volume of requests and that require robust support for running transactional applications.

Oracle9i Application Server, version 1.0.2.2 includes Oracle9iAS Containers for J2EE (OC4J). The J2EE Container runs as a JVM that accepts HTTP and RMI connections, which access servlets, JSP Pages, and EJBs. For more information, including installation steps, refer to [Appendix C, "Installing Oracle9iAS Containers for J2EE \(OC4J\)"](#).

Oracle9i Application Server Components

Table 2–1 lists the three installation options for Oracle9i Application Server, and the components that are installed with each option. This is followed by a brief description of each component.

See Also: *Oracle9i Application Server Overview Guide* in the Oracle9i Application Server Documentation Library for detailed information about each component.

Table 2–1 Oracle9i Application Server Components

Component	Minimal Edition	Standard Edition	Enterprise Edition
Oracle9iAS Database Cache			x
Oracle9iAS Discoverer			x
Oracle9iAS Forms Services			x
Oracle9iAS Portal	x	x	x
Oracle9iAS Reports Services			x
Oracle9iAS Web Cache			x
Oracle9iAS Wireless	x	x	x
Oracle Advanced Security		x	x
Oracle Business Components for Java (BC4J)	x	x	x
Oracle Database Client Developer Kit	x	x	x
Oracle Enterprise Java Engine		x	x
Oracle HTTP Server	x	x	x
Oracle Internet File System		x	x
Oracle LDAP Client Kit	x	x	x
Oracle Plug-in for Microsoft IIS	x	x	x
Oracle Management Server			x
Oracle XML Developer's Kit	x	x	x

Oracle9iAS Database Cache

Oracle9iAS Database Cache improves the performance and scalability of applications that access Oracle databases by storing frequently used data on middle tier machines. With Oracle9iAS Database Cache, your applications can process several times as many requests as their original capacity.

Oracle9iAS Discoverer

Oracle9iAS Discoverer is a business intelligence tool for analyzing data. With Oracle9iAS Discoverer's award-winning user interface, users can access and analyze database data. There are two Oracle9iAS Discoverer components:

- Oracle9iAS Discoverer Plus is the Internet version of the award-winning Windows version of Discoverer. With Discoverer Plus, business professionals can get and analyze data in a company's database without having to understand complex database concepts. Using Wizard dialogs and menus, Discoverer Plus guides users through the steps to get and analyze data to support their business decisions.
- Oracle9iAS Discoverer Viewer is a tool for viewing workbooks created by Discoverer Plus users. Discoverer Viewer can also be used to integrate database output into a Web site and portal. In addition, it is easy both to customize Discoverer Viewer to conform to a particular Web site look-and-feel, and to build custom Discoverer applications for the Web. Discoverer Viewer is optimized for performance and designed to minimize network traffic.

Oracle9iAS Forms Services

Oracle9iAS Forms Services deploys Forms applications with database access to Java clients in a Web environment. Oracle9iAS Forms Services automatically optimizes class downloads, network traffic, and interactions with Oracle database. Applications are automatically load-balanced across multiple servers and, therefore, can easily scale to service any number of requests.

Oracle9iAS Portal

Oracle9iAS Portal is a complete solution for building, deploying and monitoring Web database applications and content-driven Web sites. Oracle9iAS Portal enables you to create and view database objects through an easy-to-use HTML-based interface, and provides tools for creating HTML-based interfaces. It also allows you to resolve performance problems using performance tracking facilities, and enables you to manage database security through its interface.

Oracle9iAS Reports Services

Oracle9iAS Reports Services provides an easy-to-use, scalable, and manageable solution for high-quality database publishing and reporting by creating dynamic reports for the Web and across the enterprise. It enables you to implement a multi-tiered architecture for running your reports.

Oracle9iAS Web Cache

Oracle9iAS Web Cache is a server accelerator caching service that improves the performance, scalability, and availability of frequently used e-business Web sites that run on Oracle9i Application Server and Oracle database. By storing frequently accessed URLs in virtual memory, Oracle9iAS Web Cache eliminates the need to repeatedly process requests for those URLs on the Web server, and it caches both static and dynamically-generated HTTP content from one or more applications Web servers.

Oracle9iAS Wireless

Oracle9iAS Wireless is a portal service for delivering information and applications to mobile devices. Using Oracle9iAS Wireless, you can create custom portal sites that use different kinds of content, including Web pages, custom Java applications, and XML-based applications. Oracle9iAS Wireless sites make this diverse information accessible to mobile devices without you having to rewrite the content for each target device platform.

Oracle Advanced Security

Oracle Advanced Security provides a comprehensive suite of security features to protect enterprise networks and securely extend corporate networks to the Internet. It provides a single source of integration with network encryption and authentication solutions, single signon services, and security protocols. By integrating industry standards, it delivers unparalleled security to the Oracle network and beyond.

Oracle Business Components for Java (BC4J)

Oracle Business Components for Java is a 100% Java-compatible, XML-powered framework that enables productive development, portable deployment, and flexible customization of multi-tier, database applications from business components.

Oracle Database Client Developer Kit

The Oracle Database Client Developer Kit contains the following client libraries:

- Oracle Java Database Connectivity (JDBC) Drivers
- Oracle Java Messaging Service (JMS) Toolkit
- Oracle SQLJ Translator

Oracle Enterprise Java Engine

Oracle Enterprise Java Engine is an enterprise-class 100% Java-compatible server environment that supports Enterprise JavaBeans, CORBA, and database stored procedures. Oracle Enterprise Java Engine achieves high scalability through its unique architectural design, which minimizes the burden and complexity of memory management when the number of users increases.

Oracle HTTP Server *powered by Apache*

Oracle9i Application Server uses the Oracle HTTP Server, which is built on Apache Web server technology. Oracle HTTP Server offers scalability, stability, speed, and extensibility. It also supports Java Servlets, JavaServer Pages, Perl, PL/SQL, and CGI applications. This component also includes the following sub-components:

- Apache JServ
- Apache SOAP
- BC4J
- Dynamic Monitoring System (DMS)
- HiAv Infrastructure or `mod_oprocmgr`
- `mod_fastcgi`
- `mod_jserv`
- `mod_mm`
- `mod_ose`
- `mod_plsql`
- `mod_perl`, Perl Interpreter
- `mod_ssl`
- Object Cache Service for Java (OCS4J)

- OCS4J JSP Tags
- Oracle JSP

Oracle Internet File System

Oracle Internet File System is a file system and development platform that stores files in an Oracle database. It provides a mechanism for creating, storing, and managing various types of information, from Web pages to email, from spreadsheets to XML files, in a common repository for users to access and update.

Oracle LDAP Client Kit

LDAP (Lightweight Directory Access Protocol) is the emerging Internet standard for directory services. Oracle LDAP Client Kit supports client interaction with any LDAP-compliant directory server; for example, Oracle Internet Directory. The toolkit provides tools and development libraries to support client calls to directory services, encrypted connections, and enables you to manage your directory data.

Oracle Management Server

Oracle Management Server provides distributed control between the database and Oracle9i Application Server in the network. As a central engine for notifications, it processes all system management tasks and administers the distribution of these tasks across the enterprise. Ensure that you do not have multiple Oracle Management Servers installed on a single machine.

Oracle Plug-in for Microsoft IIS

Oracle Plug-in for Microsoft IIS enables you to use Microsoft Internet Information Server (IIS) to directly access PL/SQL and Java Web components stored in an Oracle database. It provides functionality in a Microsoft IIS environment that is similar to the Oracle HTTP Server Modules, `mod_plsql` and `mod_ose`. Using it, you can access Web components by passing either a preconfigured virtual directory prefix (PL/SQL access), or a predefined file extension and virtual directory prefixes which are stored in the Java configuration file (Java access).

Oracle XML Developer Kit

The Oracle XML Developer Kit (XDK) contains the necessary XML components libraries and utilities to give developers the ability to easily XML-enable applications and Web sites. Oracle XDK supports development in Java, C, C++, and PL/SQL with a collection of libraries, command-line utilities, and tools.

Supplemental Components

The following is a list of the supplemental components that are available with Oracle9i Application Server, version 1.0.2.2:

See Also: [Appendix D, "Installing Supplemental Components"](#)
for overview and installation instructions.

- [Oracle9iAS Email](#)
- [Oracle9iAS InterConnect](#)
- [Oracle Gateways](#)
- [Oracle Internet Directory](#)
- [Oracle Workflow](#)

Preinstallation Tasks

The preinstallation tasks for Oracle9i Application Server are divided into the following parts.

- [Installation Overview](#)
- [Migration](#)
- [Port Allocation](#)
- [Completing Preinstallation for Specific Installation Options](#)

Installation Overview

This section provides an overview of the installation process. Before installing Oracle9i Application Server, review the Release Notes and Release Notes Addendum. You can find the Release Notes Addendum on OTN at:

<http://otn.oracle.com>

The Oracle9i Application Server installation process is divided into the following three phases:

- [Preinstallation](#)
- [Installation](#)
- [Postinstallation](#)

Preinstallation

During the first phase of installation, the users completes the following tasks:

- Performing component-specific preinstallation tasks on the middle tier, and origin database.
- Launching the Oracle Universal Installer to begin the installation process.

Installation

During the second phase, the Oracle Universal Installer guides the user through the installation screens. Depending on the install type, the user will require the information listed in [Table 2-2](#).

Table 2–2 Installation Information

Component	Minimal Edition	Standard Edition	Enterprise Edition
Oracle home directory	x	x	x
UNIX group name	x	x	x
OSDBA group		x	
OSOPER group		x	
Origin database hostname	x	x	x
Origin database port number	x	x	x
Origin database SID	x	x	x
Set user name for Oracle9iAS Wireless schema on the origin database	x	x	x
Set password for Oracle9iAS Wireless schema on the origin database	x	x	x
SYS password for the origin database	x	x	x
SYSTEM password for the origin database	x	x	x
SYSDBA user name for the origin database			x
SYSDBA password for the origin database			x
Oracle EJE database global name		x	
Oracle EJE database SID		x	
Oracle Plug-in for Microsoft IIS	x	x	x

During installation, the user has the following configuration options:

- Select components to configure and automatically start during installation. This option makes pre-selected components ready to use after installation. The user does not have to run all the configuration assistants, populate the origin database with configuration data, nor start the individual components.
- Select components to configure at a later time. This option installs all of the files for the components, but does not configure them. After installation, the user has the option of manually launching the configuration assistants to enable the corresponding components.

If you are installing Enterprise Edition, the components are installed into two Oracle homes. The first Oracle home contains components that use the 8.1.7 database libraries. The other Oracle home contains components that use the 8.0.6 database libraries. The installer will prompt you to enter a path for both Oracle homes.

Postinstallation

During the final phase of the installation process, the user is provided with the following information:

- Running environment scripts
- Component-specific tasks
- Starting and stopping components
- Component Web sites to verify installation
- Component port numbers
- List of additional documentation, such as component-specific administration and configuration guides.

Migration

If you are migrating from a previous version of Oracle9i Application Server, including version 1.0.2.1, review the *Oracle9i Application Server Migration Guide*.

Port Allocation

Oracle9i Application Server installs another database that listens on port 1521. This is so only if you install Enterprise Edition and configure Oracle9iAS Database Cache. To avoid port conflicts, change the port for the origin database listener to be, for example, 1526.

Oracle HTTP Server does not have a set port number that it listens on. It will automatically attempt to listen on 80, but if that port number is in use, then it will search unoccupied port numbers such as 7777 to listen on. Similarly, if port 443 is in use for Oracle HTTP Server (SSL-enabled), then it will search unoccupied port numbers such as 4443.

A file named `setupinfo.txt` is automatically generated in `ORACLE_HOME/Apache/Apache`. This file is generated at install time, and is not updated thereafter. If the user restarts Oracle HTTP Server, the information in `setupinfo.txt` becomes inaccurate.

`setupinfo.txt` displays the port number information in the following format:

The HTTP Server can be accessed using the following URLs:

SSL mode: (executed at install time)

`http://machine_name:80`

`https://machine_name:443`

Completing Preinstallation for Specific Installation Options

Perform the following preinstallation tasks before installing the Oracle9i Application Server:

- Log in with Windows administrator privileges.
- Go to the **Control Panel** and set all Oracle services to manual startup. After installing Oracle9i Application Server, the Oracle services can be changed back to automatic start mode.
- Be sure to verify that your PATH environment variable does not exceed 1,024 bytes.

See Also: ["Path Environment Variable"](#) on page 1-3

The list below directs you to the installation option that you have licence to:

- [Minimal Edition](#) on page 2-14
- [Standard Edition](#) on page 2-15
- [Enterprise Edition](#) on page 2-18

Minimal Edition

Minimal Edition does not require any preinstallation tasks.

Origin Database Connectivity

Oracle9i Application Server requires an active database connection. The installer uses this connection to add database objects to the origin database. The origin database is the original and primary storage for your data and is typically located on a database server tier.

You have completed the preinstallation tasks for the Oracle9i Application Server. Proceed to "[About Oracle Universal Installer](#)" on page 2-26 to start the installer.

Standard Edition

Perform preinstallation tasks for the following Standard Edition component:

- [Oracle Internet File System](#)

Oracle Internet File System

Perform the following tasks on the origin database to set database parameters for Oracle Internet File System:

Installation of Oracle Internet File System requires reconfiguration of specific database parameters on the origin database.

1. Before changing any parameters, shut down the network listener, interMedia Text servers, and the database.

See Also: *Oracle8i Installation Guide* in the Oracle Database Documentation Library

Set the following Oracle initialization parameters to the values specified. These parameters are contained in the `initSID.ora` file in the `ORACLE_HOME\admin\global_database_name\pfile` directory.

Note: This configuration file may be located in a different directory depending on how the database was installed.

- a. Set the value for `open_cursors` to at least 255.
- b. Set the value for `shared_pool_size` at least 50MB.
- c. Set the value for `processes` to at least 200.

- d. Make sure there is at least one online non-system rollback segment.

To verify that there is at least one online non-system rollback segment, connect to Oracle as the SYS user with SQL*Plus and execute the following SQL statement:

```
SQL> SELECT segment_name, tablespace_name, status
        FROM dba_rollback_segs;
```

This will result in output that looks like the following table.

Table 2–3 *dba_rollback_segs Output*

SEGMENT_NAME	TABLESPACE_NAME	STATUS
SYSTEM	SYSTEM	ONLINE
PUBLIC_RS	SYSTEM	ONLINE
USERS_RS	USERS	ONLINE

In this example, USERS_RS is an online non-system rollback segment. To ensure that the rollback segment is always online after a database startup, include the following line in the `initSID.ora` file:

```
rollback_segments = (rbs_name1, .... , rbs_namex)
```

See Also: *Oracle8i Administration's Guide* in the Oracle Database Documentation Library

- 2. Restart the network listener and database.
- 3. Execute the following SQL statement:

```
SQL> SELECT name, value FROM v$parameter WHERE name = 'open_cursors';
```

You should see the `open_cursors` value you entered in the `initSID.ora` file in step 2.

See Also: *Oracle8i Administration's Guide* in the Oracle Database Documentation Library

Origin Database Connectivity

Oracle9i Application Server requires an active database connection. The installer uses this connection to add database objects to the origin database. The origin database is the original and primary storage for your data and is typically located on a database server tier.

You have completed the preinstallation tasks for the Oracle9i Application Server. Proceed to ["About Oracle Universal Installer"](#) on page 2-26 to start the installer.

Enterprise Edition

Perform preinstallation tasks for the following Enterprise Edition components:

- [Oracle9iAS Database Cache](#)
- [Oracle Internet File System](#)

Oracle9iAS Database Cache

Perform the following preinstallation tasks for Oracle9iAS Database Cache on the origin database machine:

- [Allow Remote Access to the Origin Database](#)
- [Configure the Listener for External Procedures](#)

Allow Remote Access to the Origin Database

To allow remote access to the origin database through Oracle9iAS Database Cache, you must check the `initSID.ora` file of the origin database and create a password file for the database if it does not exist. Take the following steps:

1. Edit the initialization file (`initSID.ora`) of the origin database. If the file contains the `REMOTE_LOGIN_PASSWORDFILE` parameter, then make sure that the value equals `SHARED` or `EXCLUSIVE`. Oracle9iAS Database Cache can use either value. If the parameter is already set to either `SHARED` or `EXCLUSIVE`, then you do not need to change the value.
 - **EXCLUSIVE:** The password file can be used by only one database and the password file can contain user names other than `SYS` and `INTERNAL`.
 - **SHARED:** The password file can be used by more than one database. However, the only user names recognized by the password file are `SYS` and `INTERNAL`.

If the file does not contain the entry, then add it to the file, specifying either `SHARED` or `EXCLUSIVE` as the value. For example, to specify `EXCLUSIVE`, add the following entry to the file:

```
REMOTE_LOGIN_PASSWORDFILE=EXCLUSIVE
```

The `initSID.ora` file is in the `ORACLE_HOME\database` directory for of the origin database.

Check if a password file exists for the database. The file is named `pwdSID.ora`, where `SID` is the system identifier of the origin database.

2. If you change the parameter, stop and restart the origin database.
3. If the file does not exist, create the password file using the `orapwd` utility with the following commands:

```
prompt> cd ORACLE_HOME\bin
prompt> ORAPWD FILE=PWDSID.ORA PASSWORD=sys_password ENTRIES=maxRemUsers
```

There are no spaces around the equal sign (=). The parameters have the following meanings:

- **FILE:** The full path name of the password file. The contents of this file are encrypted, and the file is not user-readable. This parameter is mandatory. The types of file names allowed for the password file are operating system specific. Some platforms require the password file to be a specific format and located in a specific directory. Other platforms allow the use of environment variables to specify the name and location of the password file. See your operating system-specific Oracle documentation for the names and locations allowed on your platform.
- **PASSWORD:** The password of the user `SYS` for the origin database. This parameter sets the password for `SYSOPER` and `SYSDBA`. If you issue the `ALTER USER` statement to change the password after connecting to the origin database, both the password stored in the data dictionary and the password stored in the password file are updated.
- **ENTRIES:** The maximum number of users allowed for remote connections. This value must be greater than the number of Oracle9iAS Database Cache nodes that will connect to the origin database.

See Also: *Oracle8i Administration Guide* in the Oracle Database Documentation Library for information on the `orapwd` utility and remote login.

Configure the Listener for External Procedures

You must configure the listener for the origin database so that it listens for external procedure calls. Perform the following test to check for existing external procedure listener:

To test if you have an external procedure listener, you need to do a `tnsping` on `EXTPROC_CONNECTION_DATA` from the origin database. The command is:

```
prompt> tnsping EXTPROC_CONNECTION_DATA
```

- a. If you see the following message, then there is an existing external procedure listener on the origin database. You can skip to Step 7.

```
TNS Ping Utility for Solaris: Version 8.1.7.0.0. - Production on
13-APR-2001 09:09:19
(c) Copyright 1997 Oracle Corporation. All rights reserved.
Attempting to contact (ADDRESS= (PROTOCOL=IPC) (KEY=EXTPROC))
OK (102 msec)
```

- b. If you see the following message, then an external procedure listener does not exist on the origin database.

```
TNS Ping Utility for Solaris: Version 8.1.7.0.0. - Production on
13-APR-2001 09:09:19
(c) Copyright 1997 Oracle Corporation. All rights reserved.
```

```
TNS-03505: Failed to resolve name
```

Perform the following steps to configure an external procedure listener:

1. Edit the `tnsnames.ora` file for the origin database by adding an entry that enables you to connect to the listener process (and subsequently, the `extproc` process). For example, add the following entry to the `tnsnames.ora` file:

```
EXTPROC_CONNECTION_DATA.US.ORACLE.COM=
  (DESCRIPTION=
    (ADDRESS_LIST=
      (ADDRESS= (PROTOCOL=IPC) (KEY=EXTPROC0))
    )
    (CONNECT_DATA=
      (SID=PLSExtProc)
      (PRESENTATION= RO)
    )
  )
```

Verify the following:

- The service name is “EXTPROC_CONNECTION_DATA”. (Note that the domain name can be set to any value appropriate for your network.)
- The ADDRESS_LIST contains an ADDRESS entry setting “(PROTOCOL = IPC)”.

Make a note of the KEY value (in this example, it is “EXTPROC0”). Also make a note of the SID value (in his example, it is “PLSExtProc”). These values must match the KEY and SID_NAME value, respectively, in the corresponding entry in the listener.ora file.

2. Edit the listener.ora file for the origin database and add the following entries for the external procedure listener:

```
LISTENER_01=
  (DESCRIPTION_LIST=
    (DESCRIPTION=
      (ADDRESS_LIST=
        (ADDRESS= (PROTOCOL= TCP) (HOST = my_hostname) (PORT = 1521))
      )
      (ADDRESS_LIST=
        (ADDRESS= (PROTOCOL= IPC) (KEY=EXTPROC0))
      )
    )
  )
```

Verify the following:

- The ADDRESS_LIST contains an ADDRESS entry setting “(PROTOCOL = IPC)”.
- The ADDRESS_LIST containing “(PROTOCOL = IPC) “has a key value which is the same KEY value from the tnsnames.ora file. In this example, the key value is “EXTPROC0”.

Make a note of the name of the listener that will be used for external procedures. In this example, the listener name is “LISTENER_01”.

3. Edit the `listener.ora` file and verify that there is a SID for external procedure listener in the listener's SID list.

```
SID_LIST_LISTENER=
  (SID_LIST=
    (SID_DESC=
      (SID_NAME=PLSExtProc)
      (ORACLE_HOME=/dsk1/oracle/rdbms/OraHome)
      (PROGRAM=extproc)
    )
    ...
  (SID_DESC =
    (GLOBAL_DBNAME = global_DBname)
    (ORACLE_HOME = /dsk1/oracle/rdbms/OraHome)
    (SID_NAME = ias)
  )
)
```

Verify the following:

- The SID list contains an entry with a `SID_NAME` that is the same as the SID noted in Step 1. In this example, the SID is “PLSExtProc”.
 - The `ORACLE_HOME` value for this entry is set to the `ORACLE_HOME` for the origin database.
 - The `PROGRAM` value for this entry is “extproc”.
4. Restart the listener if you have made any changes to the configuration files. If the listener name you noted in step 2 is anything other than “LISTENER”, then you will need to start and stop that specific listener. In the following example, the listener name is “LISTENER_01”.

```
prompt> lsnrctl stop listener_01
prompt> lsnrctl start listener_01
```

5. The `extproc` process spawned by the listener inherits the operating system privileges of the listener. So Oracle Corporation strongly recommends that you restrict the privileges for the separate listener process. The process should not have permission to read or write to database files. The owner of this separate process should not be the `oracle` user (which is the default owner of the server executable and database files). Start the listener from a user account that does not have permission to read or write to database files or the Oracle server address space.

6. If not already installed, place the `extproc` executable in the `bin` directory under the `ORACLE_HOME` of the origin database.
7. Minimum configuration for `sqlnet.ora`:

```
NAMES.DEFAULT_DOMAIN = your.Domain.Name
SQLNET.AUTHENTICATION_SERVICES= (NTS)
NAMES.DIRECTORY_PATH= (TNSNAMES, ONAMES, HOSTNAME)
```

See Also: *Net8 Administrator's Guide* in the Oracle Database Documentation Library for information regarding the `listener.ora` file and the `tnsnames.ora` file.

Oracle Internet File System

Perform the following tasks on the origin database machine to set database parameters for Oracle Internet File System:

Installation of Oracle Internet File System requires reconfiguration of specific database parameters on the origin database.

1. Before changing any parameters, shut down the network listener, interMedia Text servers, and the database.

See Also: *Oracle8i Installation Guide* in the Oracle Database Documentation Library

Set the following Oracle initialization parameters to the values specified. These parameters are contained in the `initSID.ora` file in the `ORACLE_HOME\admin\global_database_name\pfile` directory.

Note: This configuration file may be located in a different directory depending on how the database was installed.

- a. Set the value for `open_cursors` to at least 255.
- b. Set the value for `shared_pool_size` at least 50MB.
- c. Set the value for `processes` to at least 200.

- d. Make sure there is at least one online non-system rollback segment.

To verify that there is at least one online non-system rollback segment, connect to Oracle as the SYS user with SQL*Plus and execute the following SQL statement:

```
SQL> SELECT segment_name, tablespace_name, status
        FROM dba_rollback_segs;
```

This will result in output that looks like the following table.

Table 2–4 dba_rollback_segs Output

SEGMENT_NAME	TABLESPACE_NAME	STATUS
SYSTEM	SYSTEM	ONLINE
PUBLIC_RS	SYSTEM	ONLINE
USERS_RS	USERS	ONLINE

In this example, USERS_RS is an online non-system rollback segment. To ensure that the rollback segment is always online after a database startup, include the following line in the `initSID.ora` file:

```
rollback_segments = (rbs_name1, .... , rbs_namex)
```

See Also: *Oracle8i Administration's Guide* in the Oracle Database Documentation Library.

- 2. Restart the network listener and database.
- 3. Execute the following SQL statement:

```
SQL> SELECT name, value FROM v$parameter WHERE name = 'open_cursors';
```

You should see the `open_cursors` value you entered in the `initSID.ora` file in step 2.

See Also: *Oracle8i Administration's Guide* in the Oracle Database Documentation Library

Origin Database Connectivity

Oracle9i Application Server requires an active database connection. The installer uses this connection to add database objects to the origin database. The origin database is the original and primary storage for your data and is typically located on a database server tier.

You have completed the preinstallation tasks for the Oracle9i Application Server. Proceed to ["About Oracle Universal Installer"](#) on page 2-26 to start the installer.

About Oracle Universal Installer

Oracle9i Application Server uses Oracle Universal Installer to configure environment variables and to install components. The installer guides you through each step of the installation process, so you can choose configuration options for a customized product.

The installer includes features that perform the following tasks:

- Explore and provide installation options for products
- Detect pre-set environment variables and configuration settings
- Set environment variables and configuration during installation
- Deinstall products

Starting Oracle Universal Installer

Follow these steps to launch Oracle Universal Installer, which installs Oracle9i Application Server:

1. Stop all Oracle processes and services (for example, the Oracle database).
2. Be sure that you are logged in to the machine as a member of the Windows administrators group.
3. Insert Disk1 into the CD-ROM drive to launch Oracle Universal Installer. If your machine supports the auto run feature, the installer will automatically launch on your machine.

If your machine does not support the auto run feature, perform the following steps to launch the installer:

- a. Locate the following file:
`G:\iSetup.exe`, where “G” is the letter for your CD-ROM drive.
- b. Start the installer by launching the `iSetup.exe` program.

This launches Oracle Universal Installer through which you can install Oracle9i Application Server.

The list below navigates you to installation instructions for the Oracle9i Application Server edition you are licensed to:

- For instructions for Minimal Edition installation, refer to [Chapter 3, "Minimal Edition"](#).
- For instructions for Standard Edition installation, refer to [Chapter 4, "Standard Edition"](#).
- For instructions for Enterprise Edition installation, refer to [Chapter 5, "Enterprise Edition"](#).
- For instructions for Non-interactive installation, refer to [Chapter 6, "Non-Interactive Installation"](#).

Minimal Edition

This chapter guides you through the installation steps for the Minimal Edition of Oracle9i Application Server. The following topics provide detailed installation steps, and basic postinstallation tasks:

- [Installation](#)
- [Postinstallation](#)

Installation

The installation process is divided into two parts:

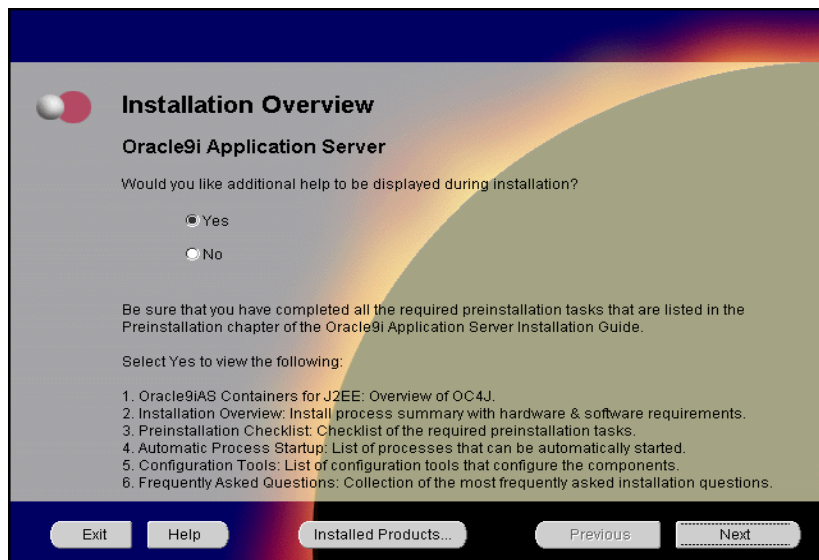
- [Preparing System for Installation](#)
- [Installing Oracle9i Application Server](#)

Preparing System for Installation

The following instructions prepare your machine for the installation of Oracle9i Application Server.

1. Review the Installation Overview screen and make the appropriate choice for the installer to display additional help, and click **Next**.

Figure 3–1 *Installation Overview Screen*



The Installation Overview screen enables you to launch and view additional installation help and information during installation. Both choices enable you to click **Help** to view information for each screen.

- **Yes:** This will launch a Web browser that displays additional installation information such as installation summary and frequently asked questions.
- **No:** This option will disable the additional help option.

2. Review the Welcome screen and click **Next**.

Figure 3–2 Welcome Screen



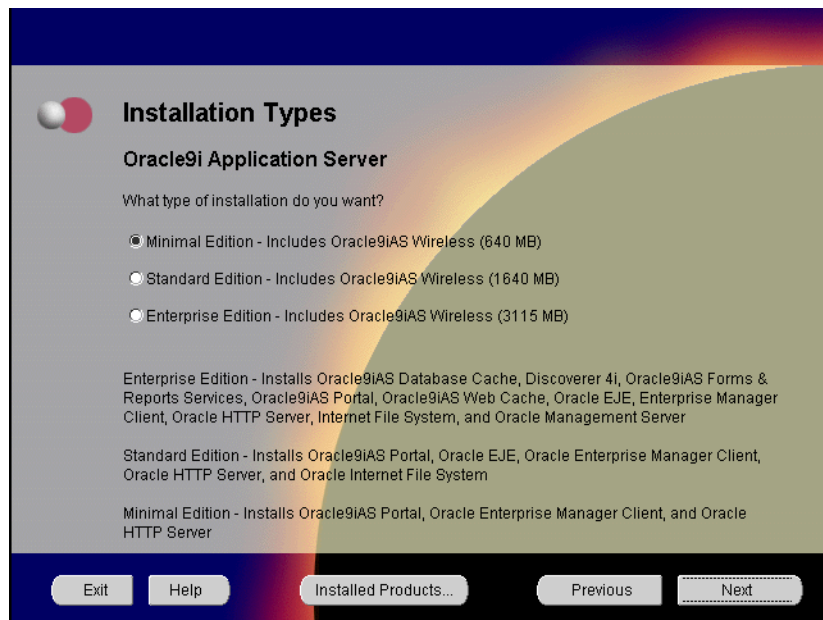
The Welcome screen provides information about the Oracle Universal Installer.

The following function buttons appear on the installation screens.

- **Deinstall Products:** Deinstall individual components or the entire product. This button appears only on the Welcome screen.
- **About Oracle Universal Installer:** View the version number of the installer in use.
- **Exit:** Quit the installation process and exit the installer.
- **Help:** Access detailed information about the functionality of each screen.
- **Installed Products:** View currently installed products or to deinstall the entire product or components.
- **Previous:** Return to the previous screen.
- **Next:** Move to the next screen.

3. Select Minimal Edition and click **Next**.

Figure 3–3 *Installation Types Screen*



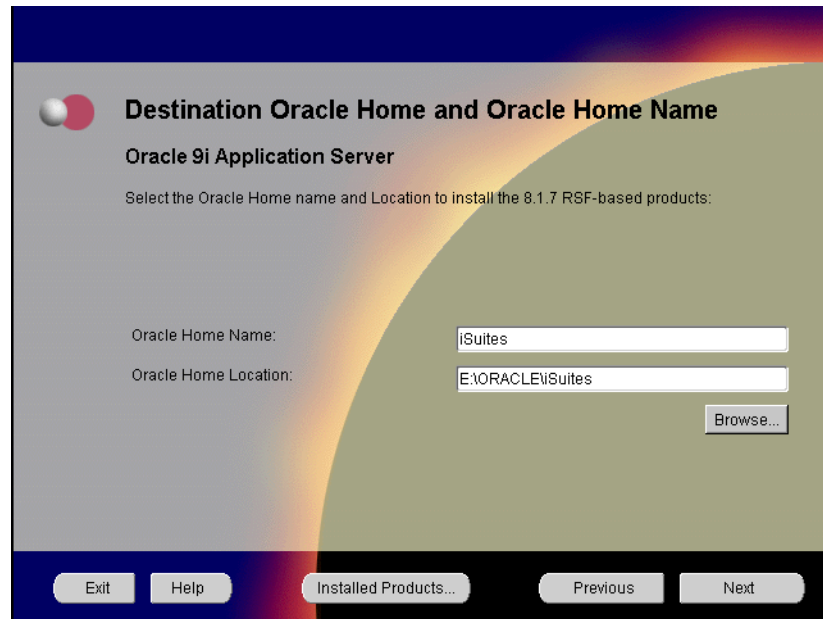
The Installation Types screen allows you to select the Oracle9i Application Server installation option that you are licensed to use.

See Also: [Table 2–1, "Oracle9i Application Server Components"](#) on page 2-3 for a complete list of components.

- **Minimal Edition:** Installs Oracle9iAS Portal, Oracle9iAS Wireless, Oracle Enterprise Manager Client, and Oracle HTTP Server.
- **Standard Edition:** Installs Oracle9iAS Portal, Oracle9iAS Wireless, Oracle Enterprise Java Engine, Oracle Enterprise Manager Client, Oracle HTTP Server, and Oracle Internet File System.
- **Enterprise Edition:** Installs Oracle9iAS Database Cache, Oracle9iAS Discoverer, Oracle9iAS Forms Services, Oracle9iAS Portal, Oracle9iAS Reports Services, Oracle9iAS Web Cache, Oracle9iAS Wireless, Oracle Enterprise Java Engine, Oracle Enterprise Manager Client, Oracle HTTP Server, Oracle Internet File System, and Oracle Management Server.

4. Verify the Oracle home name and location, and click **Next**.

Figure 3–4 Destination Oracle Home and Oracle Home Name Screen



Destination Oracle Home and Oracle Home Name
Oracle 9i Application Server

Select the Oracle Home name and Location to install the 8.1.7 RSF-based products:

Oracle Home Name:

Oracle Home Location:

The Destination Oracle Home and Oracle Home Name screen allows you to enter the name and location of your Oracle home for the 8.1.7 RSF based products. You can accept or change the defaults.

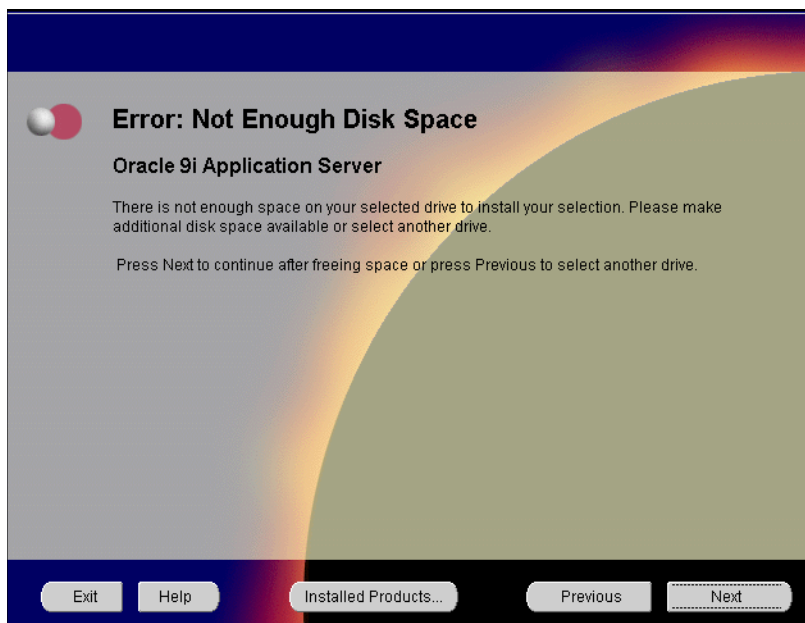
- **Oracle Home Name:** This is the name of the Oracle home, which is the root directory in which Oracle9i Application Server is installed.
- **Oracle Home Location:** This is the full path of the Oracle home directory. There should be no spaces in the Oracle home path.

Note: Do not install Oracle9i Application Server in an Oracle home containing other Oracle products, including the database. Such an installation could overwrite shared components, causing the products to malfunction.

- **Browse:** To navigate through the file system to find source and destination locations.

5. You do not have sufficient space to install Oracle9i Application Server. Free enough disk space to meet the hardware requirements and click **Next**, or click **Previous** to select another drive. This screen will appear only if you do not have sufficient disk space.

Figure 3–5 *Insufficient Disk Space Screen*



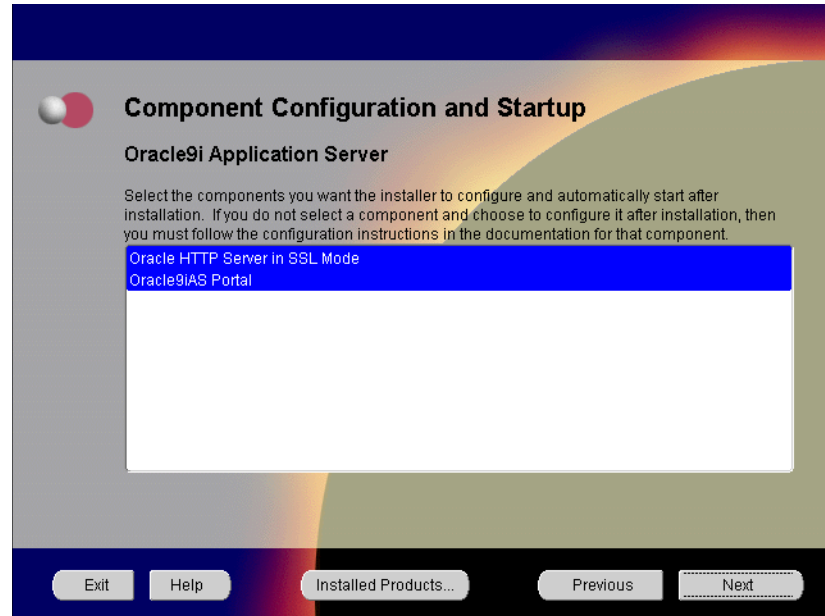
Insufficient Disk Space screen appears only if you do not have enough disk space on your selected drive to install Oracle9i Application Server. You can:

- Click **Next** once you have freed sufficient disk space.
- Click **Previous** to select another drive to install product.

See Also: [Chapter 1, "Requirements"](#)

6. Select the components you wish to configure during the installation process and click **Next**. These components will automatically start up after installation. If you wish to configure the components later, do not select them.

Figure 3–6 Component Configuration and Startup Screen



The Component Configuration and Startup screen allows you to select the components that you want the installer to configure and start after installation. This screen offers two configuration options:

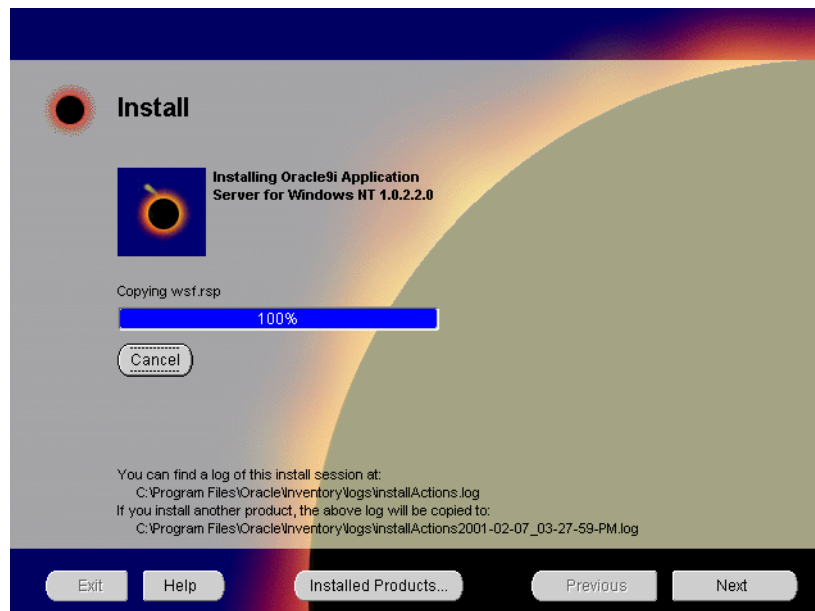
- If you select a component here, then the installer prompts you for any or all configuration information required by that component. After installation, the installer starts that component.
- If you de-select a component here, then the installer installs it, but does not configure or start it. After installation, if you decide to use that component, then manually launch the configuration assistant to configure that component.

See Also: [Appendix A, "Configuration Tools"](#)

You can select or de-select multiple components by holding down the Control key while clicking on the component name.

7. Monitor the installation process and after the installer finishes, click **Next**.

Figure 3–7 *Install Screen*



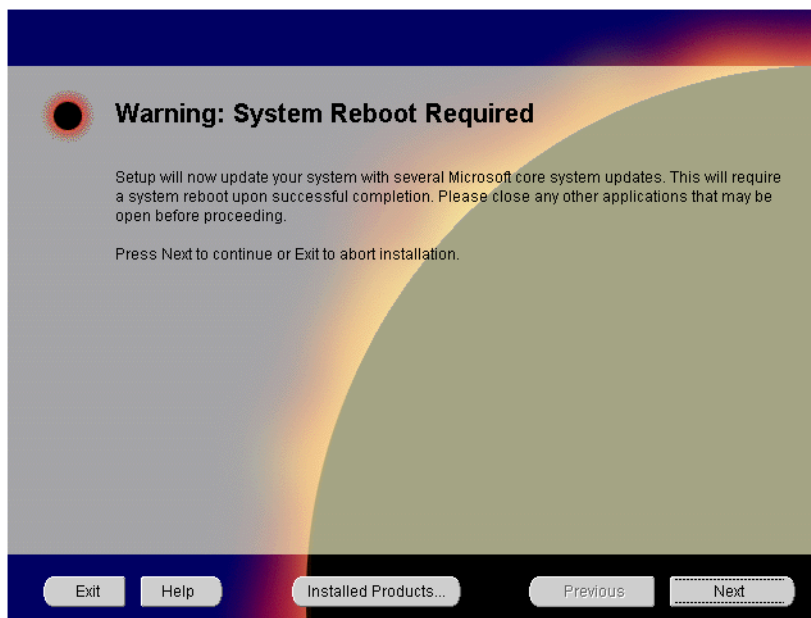
The Install screen appears while Oracle Universal Installer incorporates all the user input for Oracle9i Application Server. It also displays the full path of the installation log.

- **Cancel:** To discontinue the installation process.

8. Review the system reboot information and click **Next**. This screen will not appear under the following conditions:
 - The machine has previously installed Oracle9i Application Server. In this case you do not have to reinstall the system DLLs and the reboot is not necessary.
 - You are installing on Windows 2000. In this case, the machine will not reboot.

Note: Be sure to close all other open applications and processes as your machine will automatically reboot after the configuration files are copied.

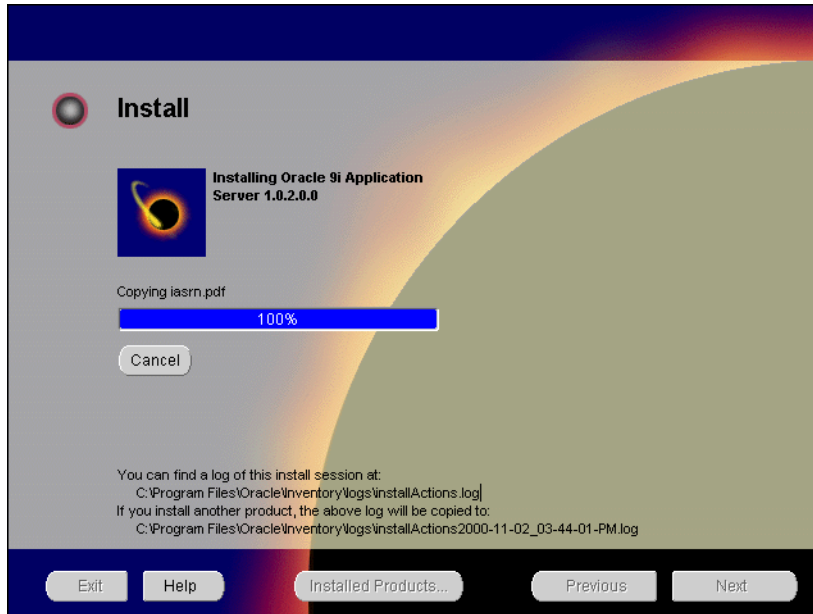
Figure 3–8 System Reboot Screen



The System Reboot screen informs you that after the installer copies the necessary files required to install Oracle9i Application Server, your machine will reboot to allow the configuration changes to take effect. When the machine starts up again, Oracle Universal Installer appears and begins the installation process of the Oracle9i Application Server.

9. Monitor the installation process and after the installer finishes, your machine reboots. This screen will not appear if you are installing on Windows 2000.

Figure 3–9 *Install Screen*



The Install screen appears while Oracle Universal Installer installs required configuration files for Oracle9i Application Server. It also displays the full path of the installation log.

- **Cancel:** To discontinue the installation process.

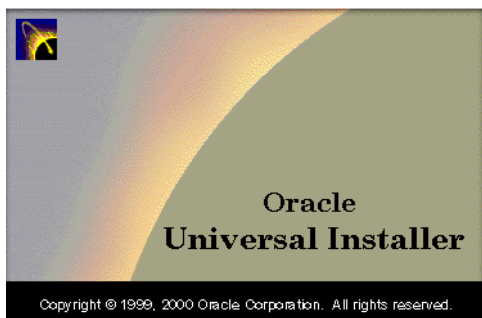
Your machine will reboot once the configuration files are copied. Do not attempt to restart the installer after reboot. It will launch automatically.

Installing Oracle9i Application Server

Once your machine starts up after rebooting, the Oracle Universal Installer appears and proceeds to install Oracle9i Application Server. The reboot process will not occur if you are installing on Windows 2000.

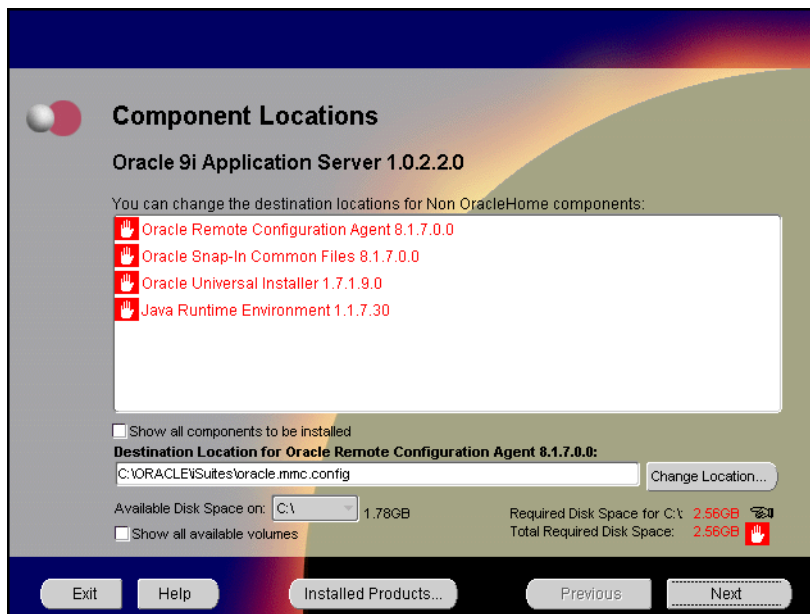
Note: Be sure to log in with Windows administrator privileges after your machine starts up again.

The following screen appears as Oracle Universal Installer relaunches. The installer may take up to several minutes to start, and might pause if some screensavers are activated.



1. This screen appears only if Oracle Universal Installer has detected insufficient disk space in the Oracle home directory. If needed, verify and change the locations of the components displayed on the screen, and click **Next**.

Figure 3–10 Component Locations Screen



The Component Locations screen allows you to select alternative locations for some components.

Note: Insufficient disk space is indicated in red with a hand icon next to it.

- **Show all components to be installed:** To view the complete list of components chosen for installation. Select check box to display component list.

Click individual components to view and change destination location path. The installer enables you to change the destination location of the components displayed on the screen.

- **Destination Location:** To view the full path of the selected component.
- **Change Location:** To browse for alternate locations for the selected component.
- **Available Disk Space:** To view available disk space in the current directory. The installer also provides information about the total disk space required for the installation of additional components.
- **Required Disk Space for *directory_name*:** To view the total disk space required for installation in the selected directory.
- **Total Required Disk Space:** To view the total disk space required for the product to be installed.
- **Show all available volumes:** To browse through file system for available disk space. Select check box to display the file system.

2. This screen will appear only if you selected Oracle9iAS Portal in the Component Configuration and Startup screen. Enter or accept the default Portal DAD and Schema names. Also, enter the database connection information. Click **Next**.

Figure 3–11 *Apache Listener Configuration for Oracle9iAS Portal (DAD and Schema name) Screen*

Apache Listener Configuration for Oracle9iAS Portal

Database Access Descriptor (DAD) for Oracle9iAS Portal

Enter a name for the DAD that will be used to access Oracle9iAS Portal and enter the name of the database schema where Oracle9iAS Portal will be installed. If you are installing the Oracle HTTP Server powered by Apache in an Oracle Home other than the one in which Oracle9iAS Portal is installed, you must also specify a TNS connect string to the database where Oracle9iAS Portal is installed.

Portal DAD Name:

Portal Schema Name:

Connect String:

Note: Connect String should be in <machine name>:<port><sid> format.

Exit Help Installed Products... Previous **Next**

The Apache Listener Configuration for Oracle9iAS Portal screen allows you to enter the name of the Database Access Descriptor (DAD) that will be used to access Oracle9iAS Portal, and the name of the database schema where Oracle9iAS Portal will be installed. It also enables you to enter the database connection information if Oracle9iAS Portal and Oracle HTTP Server are installed in different Oracle homes. The information you enter here is used to create the PL/SQL Gateway settings which you can access upon installation from the following location:

`http://machine_name:port/pls/admin_/gateway.htm`

- **Portal DAD Name:** Enter the name of the DAD for each instance you installed in the database. A Database Access Descriptor (DAD) is a set of values that specify how the Apache Listener connects to your Oracle database server to fulfill an HTTP request. Based on this DAD name, the as

installation automatically sets other DAD-related and default settings such as the name and location of the document table. The default DAD name is `portal30`.

- **Portal Schema Name:** Enter the name of the database schema that will contain Oracle Portal. A schema is a collection of components and database objects under the control of a given database user. Each Oracle Portal application maps to an Oracle database schema. The default schema name is `portal30`.
- **Connect String:** Enter the origin database connection information in the form `host:port:sid`.

3. This screen will appear only if you selected Oracle9iAS Portal in the Component Configuration and Startup screen. Enter or accept the default Login Server DAD and Schema names. Click **Next**.

Figure 3–12 *Apache Listener Configuration for Oracle9iAS Portal (Login Server) Screen*

Apache Listener Configuration for Oracle9iAS Portal

Database Access Descriptor (DAD) for the Login Server

Enter a name for the DAD that will be used to access the Login Server and enter the name of the database schema where the Login Server will be installed.

Login Server DAD Name:

Login Server Schema Name:

You can create additional DADs to access other Oracle9iAS Portal installations by entering this URL in your browser: `http://<machine_name>:<port>/pls/admin_/gateway.htm`

Exit Help Installed Products... Previous Next

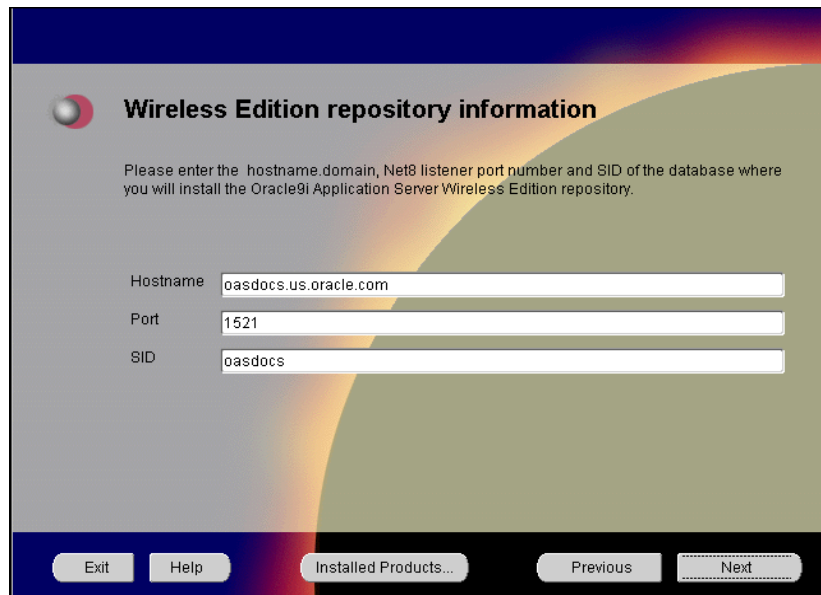
The Apache Listener Configuration for Oracle9iAS Portal screen allows you to enter the Login Server DAD and Schema Name, with a `_sso` extension for easy recognition. The Login Server provides an enterprise-wide Single Sign-On (SSO) mechanism that enables an Oracle Portal user to log in securely to Oracle Portal and any partner and external applications using a single user name and password.

- **Login Server DAD Name:** Enter the name of the DAD for each instance you installed in the database. The default DAD name is `portal30_sso`.
- **Login Server Schema Name:** Enter the name of the database schema that will contain Oracle Portal. The default schema name is `portal30_sso`.

4. Enter the hostname, port number, and `SID` of the origin database where you will install the Oracle9iAS Wireless, and click **Next**. If you are upgrading from Oracle9i Application Server, version 1.0.2.1, then an “Upgrade Installation Detected” screen will appear. Review the content on the screen and click **Next** or **Exit** accordingly. If you click **Next**, then the installation will continue and the following screen will appear.

Note: Do not install Oracle9iAS Wireless on Oracle9iAS Database Cache.

Figure 3–13 *Wireless Edition Repository Information Screen*

The screenshot shows a window titled "Wireless Edition repository information". It contains a text box for "Hostname" with the value "oasdocs.us.oracle.com", a text box for "Port" with the value "1521", and a text box for "SID" with the value "oasdocs". Below the input fields are five buttons: "Exit", "Help", "Installed Products...", "Previous", and "Next". The "Next" button is highlighted with a dashed border.

Wireless Edition repository information

Please enter the `hostname.domain`, Net8 listener port number and `SID` of the database where you will install the Oracle9i Application Server Wireless Edition repository.

Hostname

Port

SID

Exit Help Installed Products... Previous **Next**

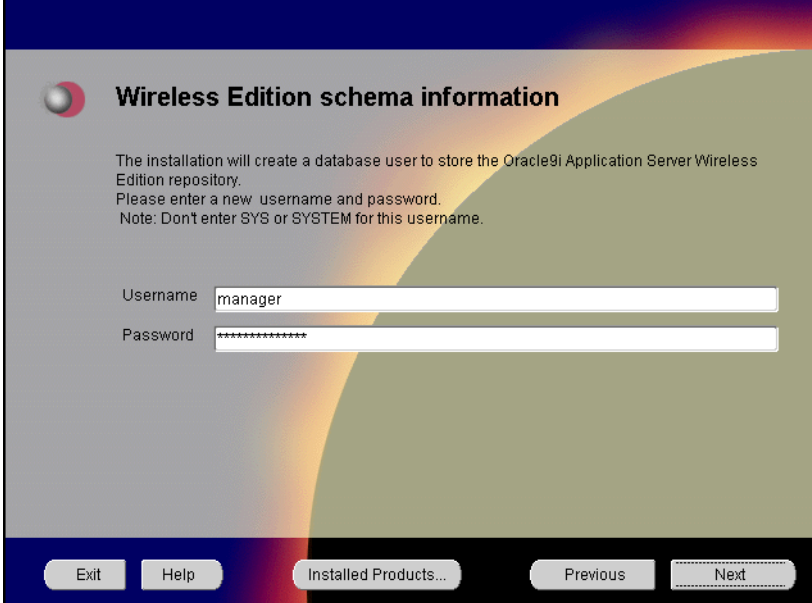
The Wireless Edition Repository Information screen allows you to enter the hostname, Net8 Listener port number, and `SID` of the database where you will install the Oracle9iAS Wireless repository.

- **Hostname:** Enter the `hostname.domain` of the database where you will install the Oracle9iAS Wireless.
- **Port:** Enter the Net8 Listener port number.
- **SID:** Enter the System Identifier (`SID`) of the database where you will install the Oracle9iAS Wireless repository.

5. Enter the new username and password for the database user to store the Oracle9iAS Wireless repository, and click **Next**. If you are upgrading from Oracle9i Application Server, version 1.0.2.1, then the “Oracle9iAS Wireless Schema Information Screen” will be slightly different. Enter the existing Oracle9iAS Wireless username and password, and click **Next**.

Note: Do not enter Oracle9iAS Database Cache hostname, port number, and SID in this screen.

Figure 3–14 *Wireless Edition Schema Information Screen*

The image shows a software installation window titled "Wireless Edition schema information". It features a dark blue header bar with a red and white sphere icon on the left. The main content area has a light gray background with a large, curved, abstract graphic in shades of yellow and orange on the right side. The text in the window explains that the installation will create a database user to store the Oracle9i Application Server Wireless Edition repository and asks the user to enter a new username and password. A note specifies not to use SYS or SYSTEM for the username. Below the text are two input fields: "Username" with the value "manager" and "Password" with a masked password of ten asterisks. At the bottom, there is a dark blue bar containing five buttons: "Exit", "Help", "Installed Products...", "Previous", and "Next".

Wireless Edition schema information

The installation will create a database user to store the Oracle9i Application Server Wireless Edition repository.
Please enter a new username and password.
Note: Don't enter SYS or SYSTEM for this username.

Username

Password

Exit Help Installed Products... Previous Next

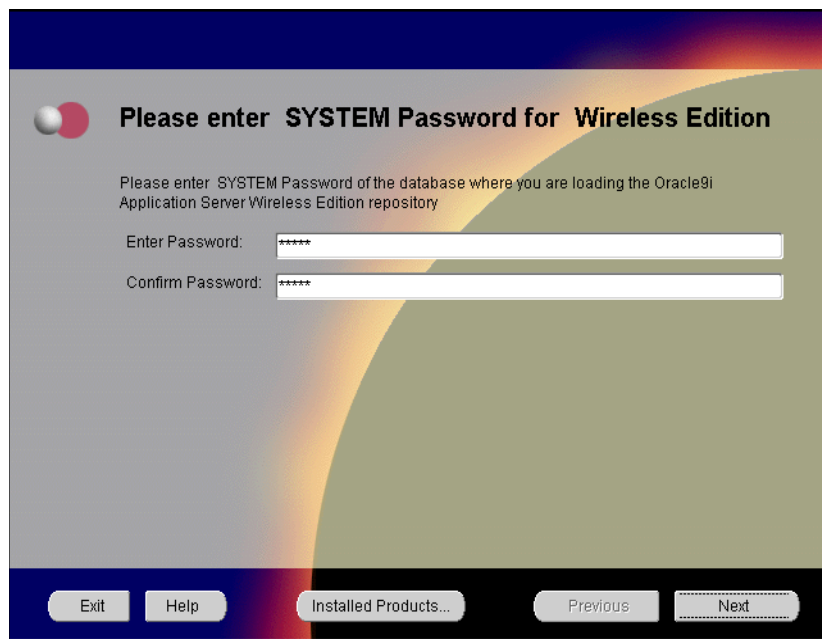
The Wireless Edition Schema Information screen allows you to create a database user to store the Oracle9iAS Wireless repository.

- **Username:** Enter a new user name for the database user to store the Oracle9iAS Wireless repository.
- **Password:** Enter a password for the database user.

6. Enter and confirm the `SYSTEM` password of the database, and click **Next**. If you are upgrading from Oracle9i Application Server, version 1.0.2.1, then a “Wireless Edition Administrator Password Information” screen appears. Enter and confirm the “Administrator” password, and click **Next**. Do not enter the database schema owner password.

Note: Do not enter the database schema owner password.

Figure 3–15 System Password Screen

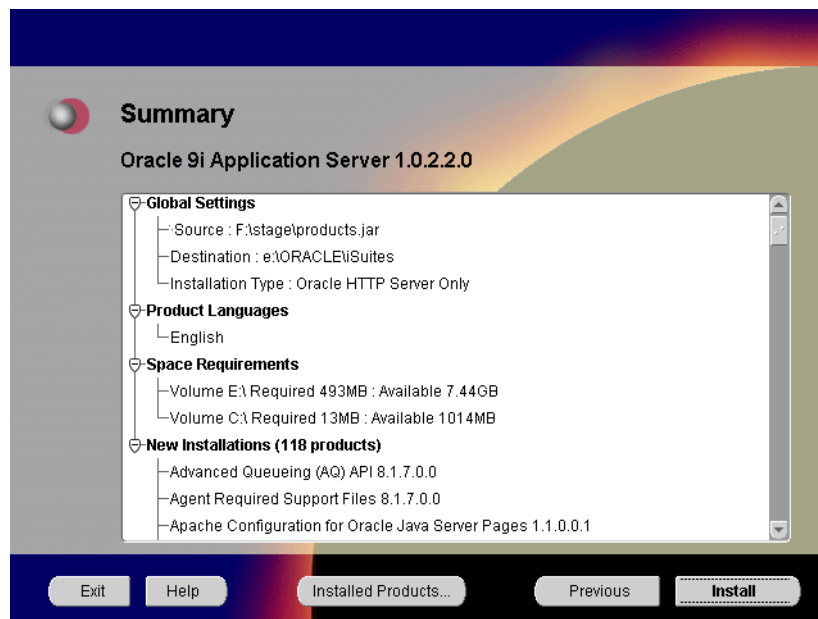


The System Password screen allows you to enter and confirm the `SYSTEM` password of the database where you are loading the Oracle9iAS Wireless repository.

- **Enter Password:** Enter the `SYSTEM` password of the database where you will install the Oracle9iAS Wireless.
- **Confirm Password:** Re-enter the `SYSTEM` password as entered above for verification.

7. Review the summary and click **Install** to begin the installation process.

Figure 3–16 Summary Screen



The Summary screen allows you to review all the settings before the actual installation process. These settings include source, destination, installation type, product language, space requirements, and a list of components.

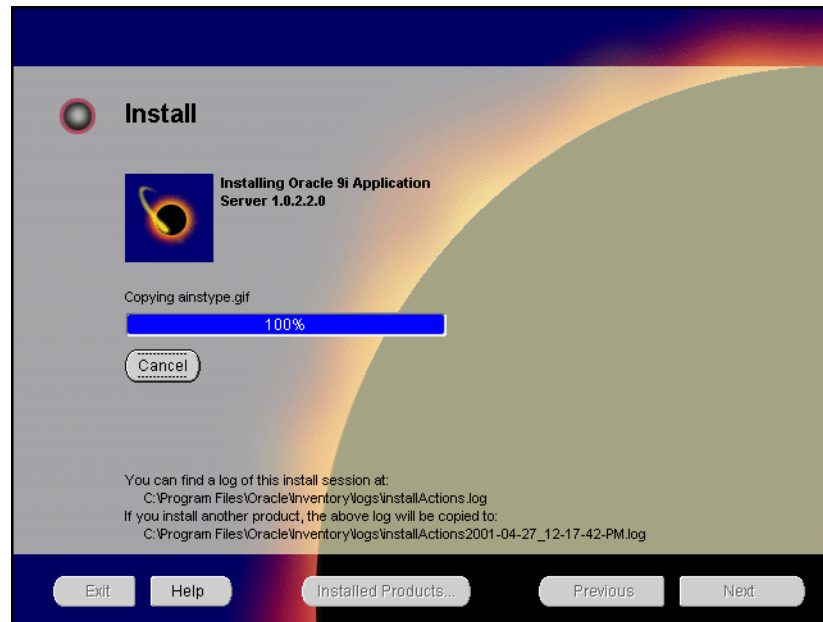
- To make changes to any of these settings, click **Previous** to return to the respective screens.

Note: Insufficient disk space is indicated in red under **Space Requirements**.

When you click **Install**, the installation process begins.

8. Monitor the installation process and after the installer finishes, click **Next**.

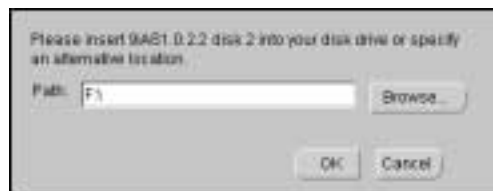
Figure 3–17 *Install Screen*



The Install screen appears while the product is installing. Installation operations include executing actions such as file copy and linking, and executing decision points and calculations. It also displays the full path of the installation log.

- **Cancel:** To discontinue the installation process. You can then choose to stop the installation of an individual component or the entire product.

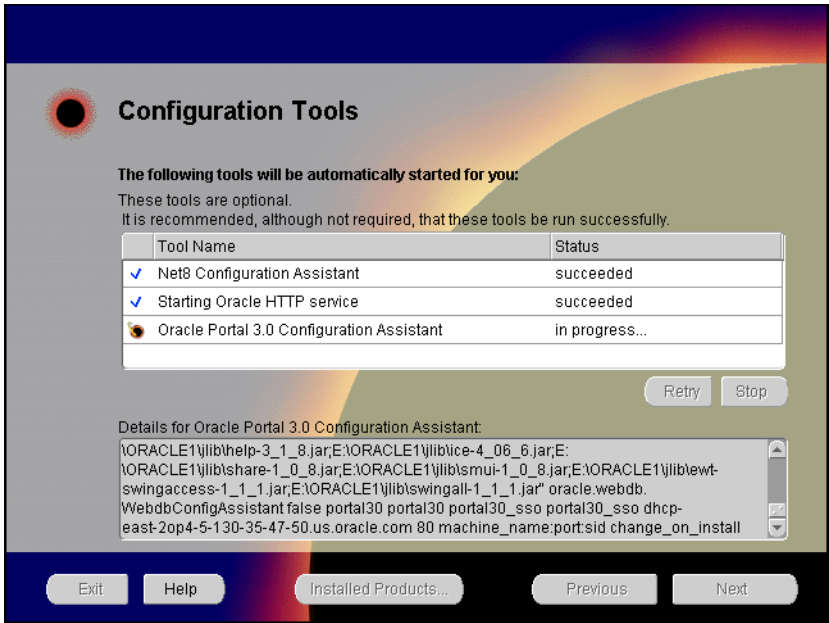
Changing Disks: During the installation process, the Disk Location dialog appears and prompts you to change disks. Insert the requested disk into your disk drive, or specify an alternative location, and click **OK**.



- 9. Start the origin database if it has been shut down during installation. Verify the list of configuration tools and click **Next**. This screen appears only if you select components to configure and start in the Components Configuration and Startup screen.

Note: The installer has completed copying and linking the necessary files. Be sure to start the database if it had been shut down for the installation process. The configuration tools such as Oracle9iAS Portal Configuration Assistant need to connect to an active database for configuration purposes.

Figure 3–18 Configuration Tools Screen



The Configuration Tools screen lists the configuration tools for all installed components.

Scroll down the list to review the configuration status of each tool. The status changes as each component is configured.

The installer performs the following functions in this screen:

- Executes a configuration tool for each component selected previously in the Component Configuration and Startup screen.
- Displays all the configuration settings in the display window below as it executes a configuration tool for each component.
- Enables you to view configuration settings after all configuration tools are executed. Click on each component to review all the changes made.
- Allows you to view data for failed executions in the display window. You can either fix the error and click **Retry** to execute the configuration tool again, or ignore the error and click **Next** to proceed to the next screen.
- **Retry**: To re-execute the configuration script if the configuration of a component fails.
- **Stop**: To quit the configuration process.

Configuration Tools

Depending on the components you select in the Configuration and Startup screen, the following configuration tools launch:

Net8 Configuration Assistant - This configuration assistant enables you to connect and configure the Oracle client/server network environment.

See Also: *Net8 Administration's Guide* in the Oracle Database Documentation Library for information on running Net8 Configuration Assistant.

Starting Oracle HTTP service- This service starts the Oracle HTTP Server.

Oracle HTTP Server starts up in a DOS window. In that window, you can test the Oracle HTTP Server installation.

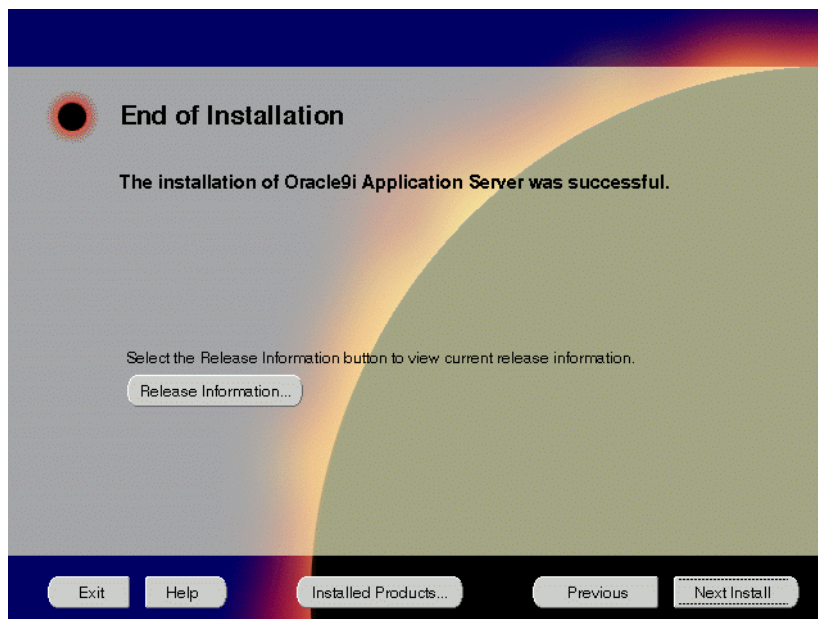
To administer the Oracle HTTP service from the `Control Panel`, reboot your machine after Oracle9i Application Server installation completes. Then, Oracle HTTP service will start automatically and you will no longer need to start it in a DOS window.

Oracle9iAS Portal Configuration Assistant - This configuration assistant loads necessary database objects for Oracle9iAS Portal to run.

See Also: ["Oracle9iAS Portal Configuration Assistant"](#) on page A-8 for instructions on running Oracle9iAS Portal Configuration Assistant.

10. Ensure that the installation was successful. Click **Exit** to quit the installer.

Figure 3–19 *End of Installation Screen*



The End of Installation screen appears at the end of the installation process. It notifies you whether the installation was successful or unsuccessful.

- **Release Information:** To view the latest release information.

If the installer detects that specific port numbers such as 7777, are occupied, it will display the alternate port numbers on the end of Installation screen. For Oracle HTTP Server port number information, refer to "[Port Allocation](#)" on page 2-12.

You have successfully installed the Minimal Edition installation option of Oracle9i Application Server. Proceed to "[Postinstallation](#)" on page 3-26 to complete the installation process.

Postinstallation

The following instructions guide you through the basic postinstallation tasks for Oracle9i Application Server. Before performing these tasks, install, if needed, Oracle9i Application Server Client from the Oracle9i Application Server Administrative and Development Client CD included in the Oracle9i Application Server CD pack.

See Also: [Appendix B, "Installing Oracle9i Application Server Administrative and Development Client CD-ROM"](#)

The postinstallation contains the following sections:

- [Starting and Stopping Components](#)
- [Component Web Sites](#)
- [Component Port Numbers](#)
- [Additional Documentation](#)

Starting and Stopping Components

You can manually start and stop a component by doing the following:

1. For Windows NT, go to the **Control Panel**, open **Services**. For Windows 2000, go to the **Control Panel**, to **Administrative Tools**, open **Services**.
2. In **Services**, select the service then click **Start** or **Stop** for desired result.

[Table 3–1](#) lists the service names for the Oracle9i Application Server components.

Table 3–1 Starting and Stopping Components

Component	Service Name
Oracle9iAS Wireless Web Integration Server	Oracle Web Integration Server
Oracle HTTP Server	OracleiSuitesHTTPServer OracleiAS_6iServerClientCache80 OracleiAS_HomeTNSListener OracleiSuitesAgent OracleiSuiteTNSListener OracleiSuiteAgent

Component Web Sites

[Table 3–2](#) lists Web sites for Oracle9i Application Server components.

Table 3–2 Component Web sites

Component	Web Site
Oracle9iAS Portal	<code>http://hostname.domain:listener_port/pls/portal30</code>
Oracle9iAS Wireless Web Integration Server	<code>http://hostname.domain:5555</code> (Log on as Administrator/manage)
Oracle HTTP Server	<code>http://hostname.domain:listener_port</code>
Oracle HTTP Server (SSL-enabled)	<code>https://hostname.domain:listener_port</code>

Component Port Numbers

[Table 3–3](#) lists the default port numbers on which requests are received for each component.

Table 3–3 Port Numbers

Components	Port Number
Oracle9iAS Portal	Oracle9iAS Portal uses the same port number as Oracle HTTP Server
Oracle9iAS Wireless	Oracle9iAS Wireless uses the same port as Oracle HTTP Server
Oracle9iAS Wireless Web Integration Server	5555
Oracle HTTP Server Oracle HTTP Server (SSL-enabled) Oracle HTTP Server Jserv Servlet Engine	For information on port numbers, refer to "Port Allocation" on page 2-12. 8007

Additional Documentation

For further information on postinstallation and configuration tasks, refer to component-specific documentation. For information on viewing and installing the documentation, refer to [Appendix F, "Installing Documentation Library"](#).

Standard Edition

This chapter guides you through the installation steps for the Standard Edition of Oracle9i Application Server. The following topics provide detailed installation steps, and basic postinstallation tasks:

- [Installation](#)
- [Postinstallation](#)

Installation

The installation process is divided into two parts:

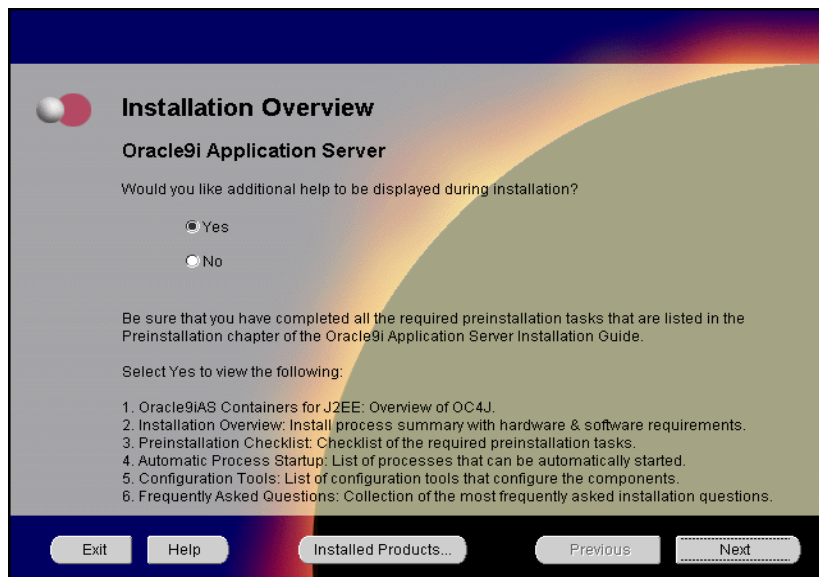
- [Preparing System for Installation](#)
- [Installing Oracle9i Application Server](#)

Preparing System for Installation

The following instructions prepare your machine for the installation of Oracle9i Application Server.

1. Review the Installation Overview screen and make the appropriate choice for the installer to display additional help, and click **Next**.

Figure 4–1 *Installation Overview Screen*



The Installation Overview screen enables you to launch and view additional installation help and information during installation. Both choices enable you to click **Help** to view information for each screen.

- **Yes:** This will launch a Web browser that displays additional installation information such as installation summary and frequently asked questions.
- **No:** This option will disable the additional help option.

2. Review the Welcome screen and click **Next**.

Figure 4–2 Welcome Screen



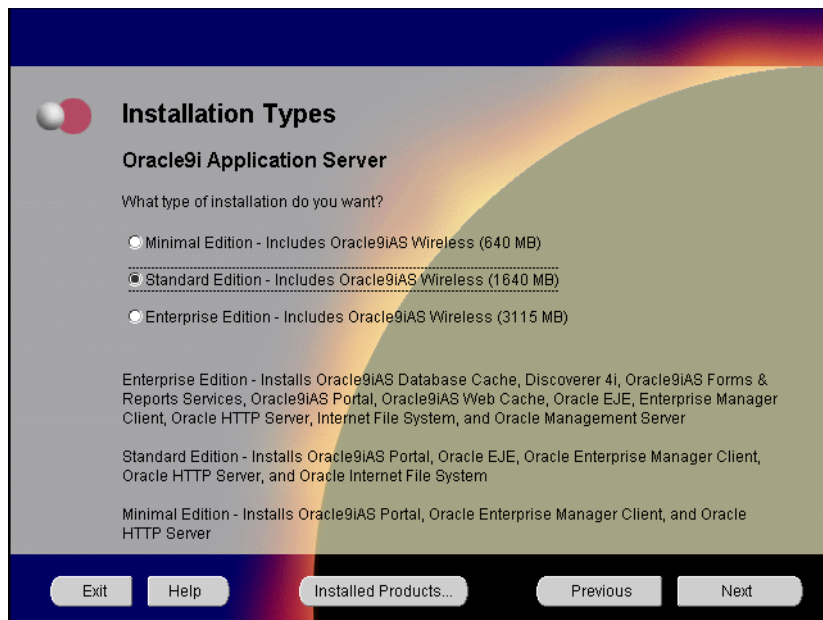
The Welcome screen provides information about the Oracle Universal Installer.

The following function buttons appear on the installation screens.

- **Deinstall Products:** Deinstall individual components or the entire product. This button appears only on the Welcome screen.
- **About Oracle Universal Installer:** View the version number of the installer in use.
- **Exit:** Quit the installation process and exit the installer.
- **Help:** Access detailed information about the functionality of each screen.
- **Installed Products:** View currently installed products or to deinstall the entire product or components.
- **Previous:** Return to the previous screen.
- **Next:** Move to the next screen.

3. Select Standard Edition and click **Next**.

Figure 4–3 *Installation Types Screen*



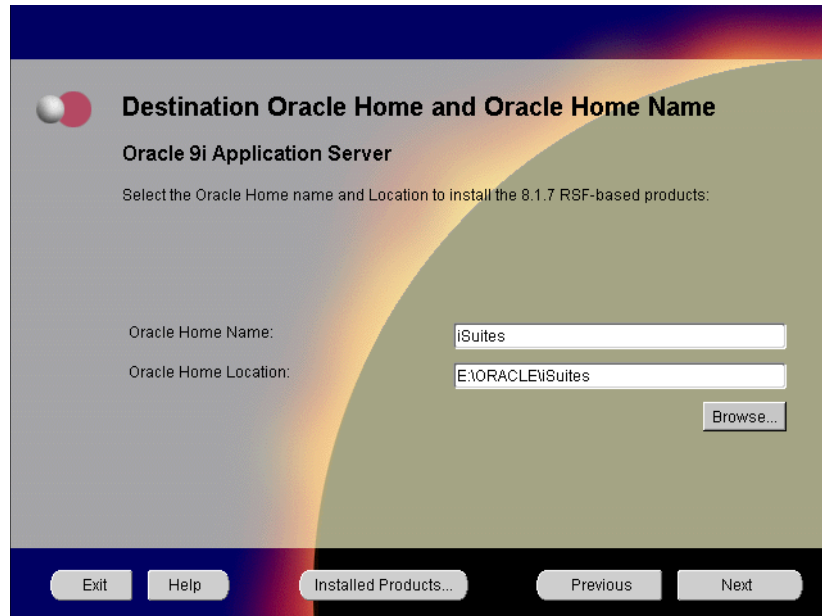
The Installation Types screen allows you to select the Oracle9i Application Server installation option that you are licensed to use.

See Also: [Table 2–1, "Oracle9i Application Server Components"](#) on page 2-3 for a complete list of components.

- **Minimal Edition:** Installs Oracle9iAS Portal, Oracle9iAS Wireless, Oracle Enterprise Manager Client, and Oracle HTTP Server.
- **Standard Edition:** Installs Oracle9iAS Portal, Oracle9iAS Wireless, Oracle Enterprise Java Engine, Oracle Enterprise Manager Client, Oracle HTTP Server, and Oracle Internet File System.
- **Enterprise Edition:** Installs Oracle9iAS Database Cache, Oracle9iAS Discoverer, Oracle9iAS Forms Services, Oracle9iAS Portal, Oracle9iAS Reports Services, Oracle9iAS Web Cache, Oracle9iAS Wireless, Oracle Enterprise Java Engine, Oracle Enterprise Manager Client, Oracle HTTP Server, Oracle Internet File System, and Oracle Management Server.

4. Verify the Oracle home name and location, and click **Next**.

Figure 4–4 Destination Oracle Home and Oracle Home Name Screen



Destination Oracle Home and Oracle Home Name
Oracle 9i Application Server

Select the Oracle Home name and Location to install the 8.1.7 RSF-based products:

Oracle Home Name:

Oracle Home Location:

The Destination Oracle Home and Oracle Home Name screen allows you to enter the name and location of your Oracle home for the 8.1.7 RSF based products. You can accept or change the defaults.

- **Oracle Home Name:** This is the name of the Oracle home, which is the root directory in which Oracle9i Application Server is installed.
- **Oracle Home Location:** This is the full path of the Oracle home directory. There should be no spaces in the Oracle home path.

Note: Do not to install Oracle9i Application Server in an Oracle home containing other Oracle products, including the database. Such an installation could overwrite shared components, causing the products to malfunction.

- **Browse:** To navigate through the file system to find source and destination locations.

5. You do not have sufficient space to install Oracle9i Application Server. Free enough disk space to meet the hardware requirements and click **Next**, or click **Previous** to select another drive. This screen will appear only if you do not have sufficient disk space.

Figure 4–5 *Insufficient Disk Space Screen*



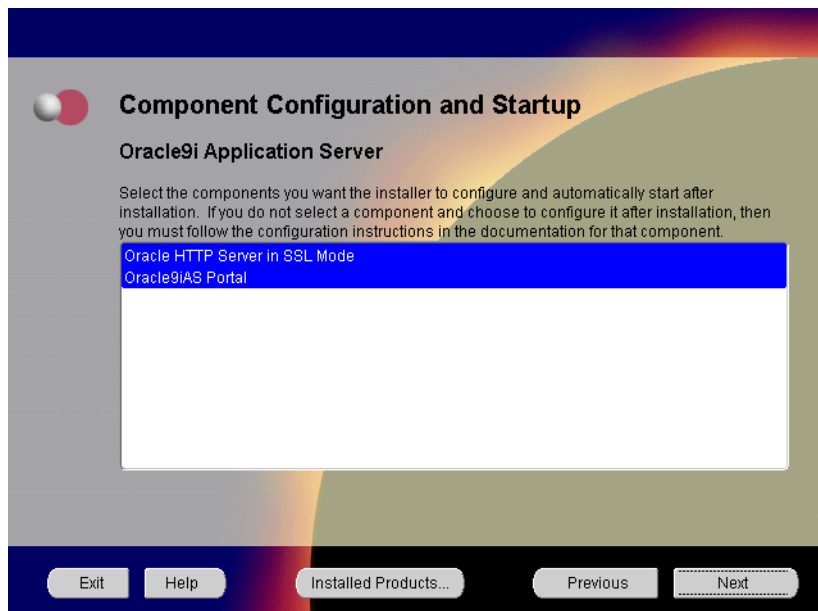
Insufficient Disk Space screen appears only if you do not have enough disk space on your selected drive to install Oracle9i Application Server. You can:

- Click **Next** once you have freed sufficient disk space.
- Click **Previous** to select another drive to install product.

See Also: [Chapter 1, "Requirements"](#)

6. Select the components you wish to configure during the installation process and click **Next**. These components will automatically start up after installation. If you wish to configure the components later, do not select them.

Figure 4–6 *Component Configuration and Startup Screen*



The Component Configuration and Startup screen allows you to select the components that you want the installer to configure and start after installation. This screen offers two configuration options:

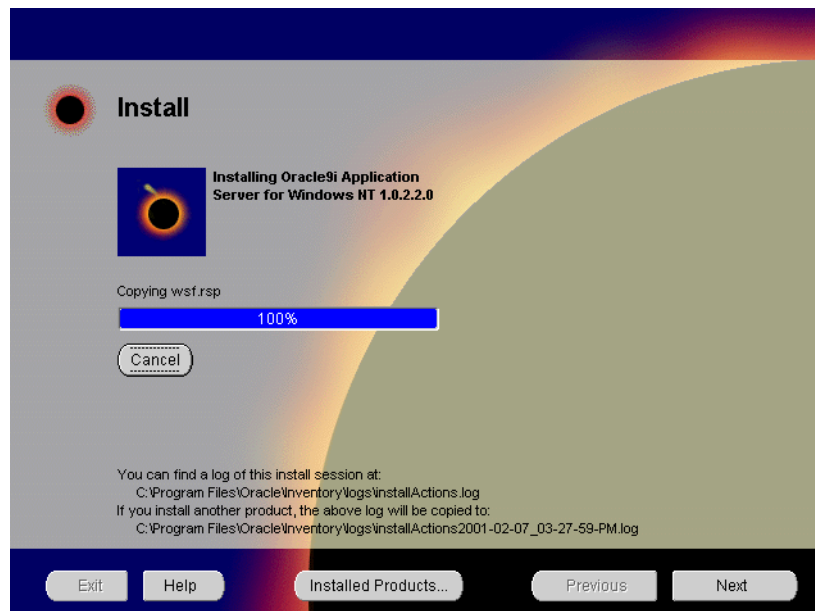
- If you select a component here, then the installer prompts you for any or all configuration information required by that component. After installation, the installer starts that component.
- If you de-select a component here, then the installer installs it, but does not configure or start it. After installation, if you decide to use that component, then manually launch the configuration assistant to configure that component.

See Also: [Appendix A, "Configuration Tools"](#)

You can select or de-select multiple components by holding down the Control key while clicking on the component name.

7. Monitor the installation process and after the installer finishes, click **Next**.

Figure 4–7 *Install Screen*



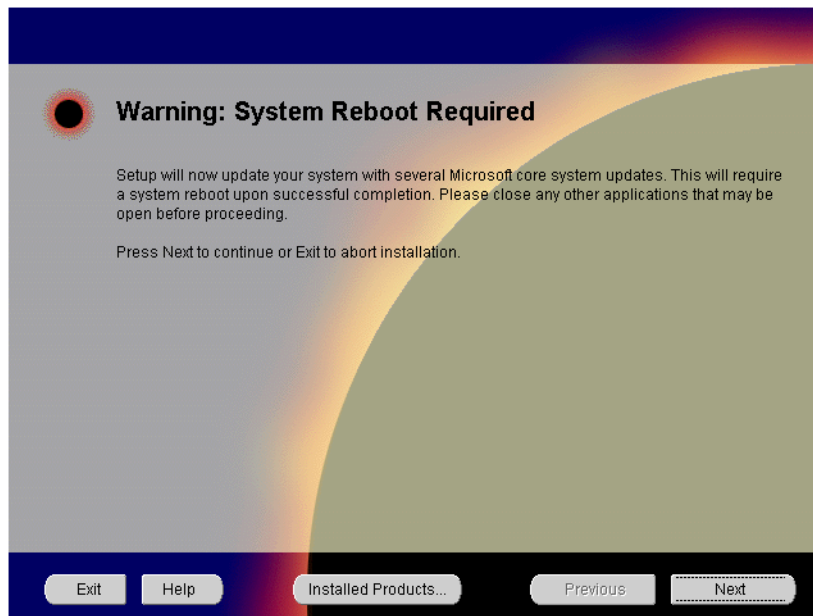
The Install screen appears while Oracle Universal Installer incorporates all the user input for Oracle9i Application Server. It also displays the full path of the installation log.

- **Cancel:** To discontinue the installation process.

8. Review the system reboot information and click **Next**. This screen will not appear under the following conditions:
 - The machine has previously installed Oracle9i Application Server. In this case you do not have to reinstall the system DLLs and the reboot is not necessary.
 - You are installing on Windows 2000. In this case, the machine will not reboot.

Note: Be sure to close all other open applications and processes as your machine will automatically reboot after the configuration files are copied.

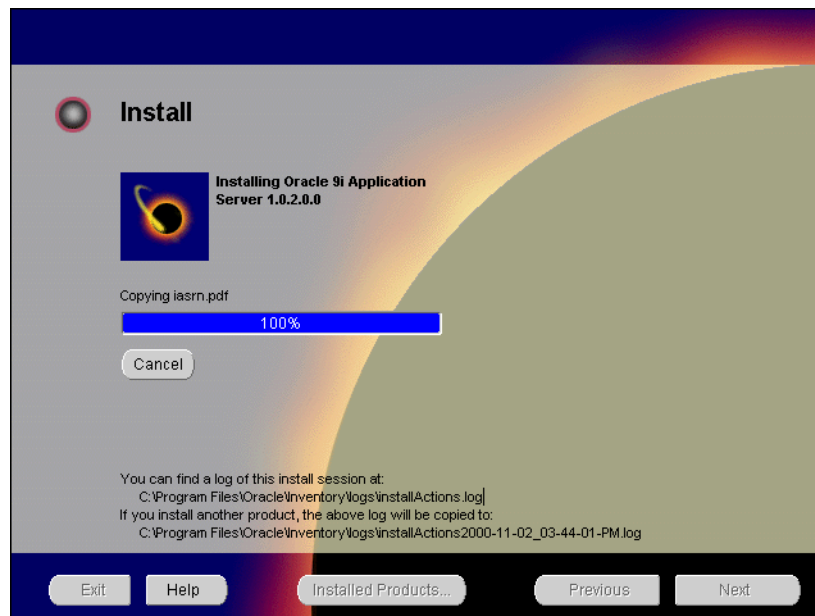
Figure 4–8 System Reboot Screen



The System Reboot screen informs you that after the installer copies the necessary files required to install Oracle9i Application Server, your machine will reboot to allow the configuration changes to take effect. When the machine starts up again, Oracle Universal Installer appears and begins the installation process of the Oracle9i Application Server.

9. Monitor the installation process and after the installer finishes, your machine reboots. This screen will not appear if you are installing on Windows 2000.

Figure 4–9 *Install Screen*



The Install screen appears while Oracle Universal Installer installs required configuration files for Oracle9i Application Server. It also displays the full path of the installation log.

- **Cancel:** To discontinue the installation process.

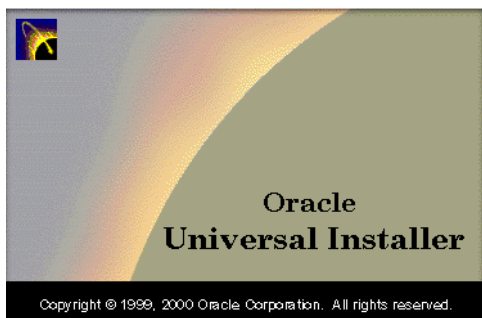
Your machine will reboot once the configuration files are copied. Do not attempt to restart the installer after reboot. It will launch automatically.

Installing Oracle9i Application Server

Once your machine starts up after rebooting, the Oracle Universal Installer appears and proceeds to install Oracle9i Application Server. The reboot process will not occur if you are installing on Windows 2000.

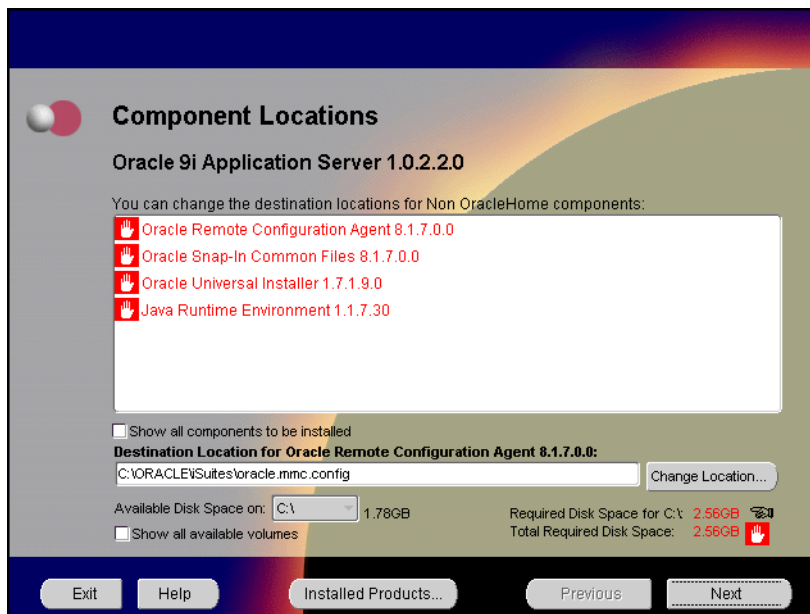
Note: Be sure to log in with Windows administrator privileges after your machine starts up again.

The following screen appears as Oracle Universal Installer relaunches. The installer may take up to several minutes to start, and might pause if some screensavers are activated.



1. This screen appears only if Oracle Universal Installer has detected insufficient disk space in the Oracle home directory. If needed, verify and change the locations of the components displayed on the screen, and click **Next**.

Figure 4–10 Component Locations Screen



The Component Locations screen allows you to select alternative locations for some components.

Note: Insufficient disk space is indicated in red with a hand icon next to it.

- **Show all components to be installed:** To view the complete list of components chosen for installation. Select check box to display component list.

Click individual components to view and change destination location path. The installer enables you to change the destination location of the components displayed on the screen.

- **Destination Location:** To view the full path of the selected component.
- **Change Location:** To browse for alternate locations for the selected component.
- **Available Disk Space:** To view available disk space in the current directory. The installer also provides information about the total disk space required for the installation of additional components.
- **Required Disk Space for *directory_name*:** To view the total disk space required for installation in the selected directory.
- **Total Required Disk Space:** To view the total disk space required for the product to be installed.
- **Show all available volumes:** To browse through file system for available disk space. Select check box to display the file system.

2. This screen will appear only if you selected Oracle9iAS Portal in the Component Configuration and Startup screen. Enter or accept the default Portal DAD and Schema names. Also, enter the database connection information. Click **Next**.

Figure 4–11 *Apache Listener Configuration for Oracle9iAS Portal (DAD and Schema name) Screen*

Apache Listener Configuration for Oracle9iAS Portal

Database Access Descriptor (DAD) for Oracle9iAS Portal

Enter a name for the DAD that will be used to access Oracle9iAS Portal and enter the name of the database schema where Oracle9iAS Portal will be installed. If you are installing the Oracle HTTP Server powered by Apache in an Oracle Home other than the one in which Oracle9iAS Portal is installed, you must also specify a TNS connect string to the database where Oracle9iAS Portal is installed.

Portal DAD Name:

Portal Schema Name:

Connect String:

Note: Connect String should be in <machine name>:<port><sid> format.

Exit Help Installed Products... Previous **Next**

The Apache Listener Configuration for Oracle9iAS Portal screen allows you to enter the name of the Database Access Descriptor (DAD) that will be used to access Oracle9iAS Portal, and the name of the database schema where Oracle9iAS Portal will be installed. It also enables you to enter the database connection information if Oracle9iAS Portal and Oracle HTTP Server are installed in different Oracle homes. The information you enter here is used to create the PL/SQL Gateway settings which you can access upon installation from the following location:

`http://machine_name:port/pls/admin_/gateway.htm`

- **Portal DAD Name:** Enter the name of the DAD for each instance you installed in the database. A Database Access Descriptor (DAD) is a set of values that specify how the Apache Listener connects to your Oracle database server to fulfill an HTTP request. Based on this DAD name, the as

installation automatically sets other DAD-related and default settings such as the name and location of the document table. The default DAD name is `portal30`.

- **Portal Schema Name:** Enter the name of the database schema that will contain Oracle Portal. A schema is a collection of components and database objects under the control of a given database user. Each Oracle Portal application maps to an Oracle database schema. The default schema name is `portal30`.
- **Connect String:** Enter the origin database connection information in the form `host:port:sid`.

3. This screen will appear only if you selected Oracle9iAS Portal in the Component Configuration and Startup screen. Enter or accept the default Login Server DAD and Schema names. Click **Next**.

Figure 4–12 *Apache Listener Configuration for Oracle9iAS Portal (Login Server) Screen*

Apache Listener Configuration for Oracle9iAS Portal

Database Access Descriptor (DAD) for the Login Server

Enter a name for the DAD that will be used to access the Login Server and enter the name of the database schema where the Login Server will be installed.

Login Server DAD Name:

Login Server Schema Name:

You can create additional DADs to access other Oracle9iAS Portal installations by entering this URL in your browser: `http://<machine_name>:<port>/pls/admin/_gateway.htm`

Exit Help Installed Products... Previous Next

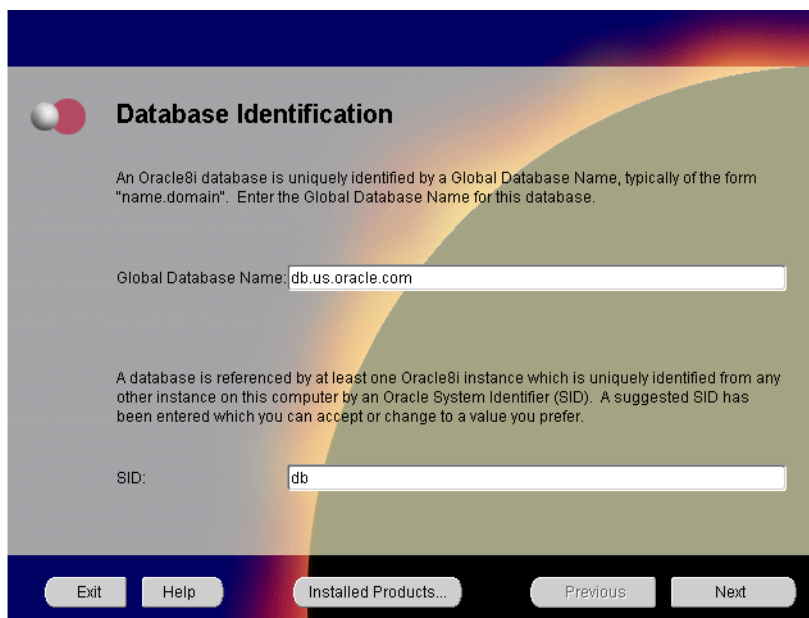
The Apache Listener Configuration for Oracle9iAS Portal screen allows you to enter the Login Server DAD and Schema Name, with a `_sso` extension for easy recognition. The Login Server provides an enterprise-wide Single Sign-On (SSO) mechanism that enables an Oracle Portal user to log in securely to Oracle Portal and any partner and external applications using a single user name and password.

- **Login Server DAD Name:** Enter the name of the DAD for each instance you installed in the database. The default DAD name is `portal30_sso`.
- **Login Server Schema Name:** Enter the name of the database schema that will contain Oracle Portal. The default schema name is `portal30_sso`.

4. Enter the Global Database Name and System Identifier (SID) and click **Next**.

Note: This database is licensed only to run Oracle Enterprise Java Engine applications and should not be used for other purposes. It will be installed in the same Oracle home as Oracle9i Application Server.

Figure 4-13 Database Identification Screen



Database Identification

An Oracle8i database is uniquely identified by a Global Database Name, typically of the form "name.domain". Enter the Global Database Name for this database.

Global Database Name:

A database is referenced by at least one Oracle8i instance which is uniquely identified from any other instance on this computer by an Oracle System Identifier (SID). A suggested SID has been entered which you can accept or change to a value you prefer.

SID:

[Exit](#) [Help](#) [Installed Products...](#) [Previous](#) [Next](#)

The Database Identification screen allows you to enter the Global Database name and SID of the database created to run Oracle Enterprise Java Engine applications.

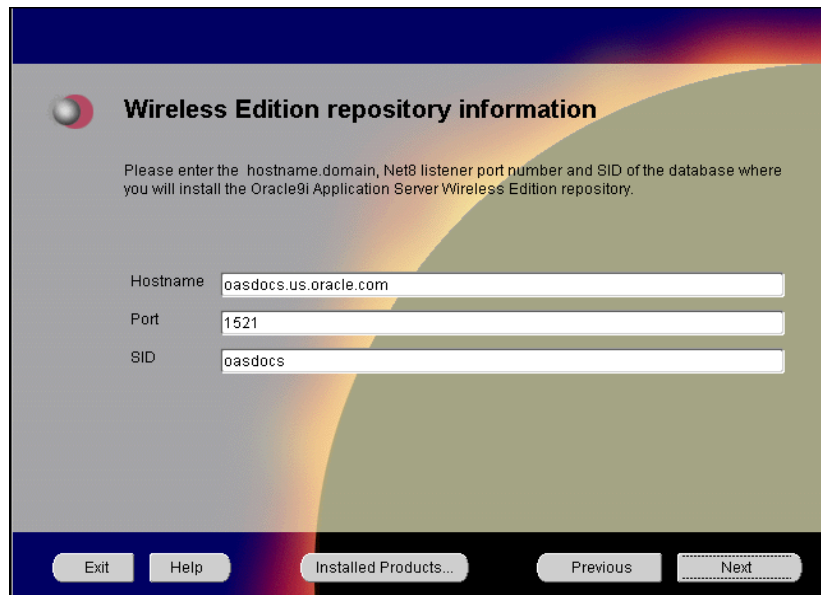
- **Global Database Name:** This is the full database name that distinguishes it from any other database in your network domain. For example: `db.us.oracle.com`, where `db` is the name of the database and `us.oracle.com` is the network domain in which the database is located.

- **SID (System Identifier):** This is the database instance name that distinguishes it from any other database on your system. For any database, there is at least one instance associated with the database. The `SID` field defaults to the database name portion of the Global Database Name. (For example: `db`). You can accept or change the default value.

5. Enter the hostname, port number, and `SID` of the origin database where you will install the Oracle9iAS Wireless, and click **Next**. If you are upgrading from Oracle9i Application Server, version 1.0.2.1, then an “Upgrade Installation Detected” screen will appear. Review the content on the screen and click **Next** or **Exit** accordingly. If you click **Next**, then the installation will continue and the following screen will appear.

Note: Do not install Oracle9iAS Wireless on Oracle9iAS Database Cache.

Figure 4–14 *Wireless Edition Repository Information Screen*

The screenshot shows a window titled "Wireless Edition repository information". It contains a text box for "Hostname" with the value "oasdocs.us.oracle.com", a text box for "Port" with the value "1521", and a text box for "SID" with the value "oasdocs". Below the input fields are five buttons: "Exit", "Help", "Installed Products...", "Previous", and "Next". The "Next" button is highlighted with a dashed border.

Wireless Edition repository information

Please enter the `hostname.domain`, Net8 listener port number and `SID` of the database where you will install the Oracle9i Application Server Wireless Edition repository.

Hostname

Port

SID

Exit Help Installed Products... Previous **Next**

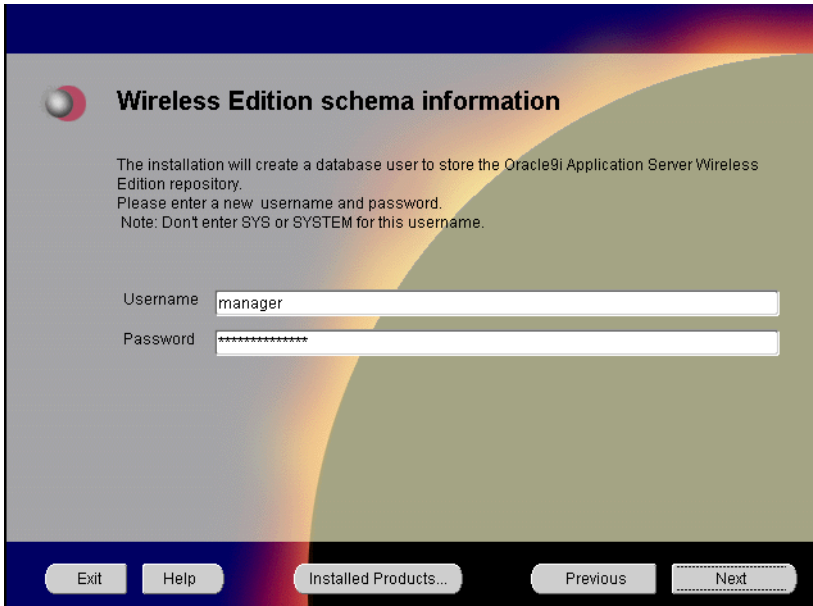
The Wireless Edition Repository Information screen allows you to enter the hostname, Net8 Listener port number, and `SID` of the database where you will install the Oracle9iAS Wireless repository.

- **Hostname:** Enter the `hostname.domain` of the database where you will install the Oracle9iAS Wireless.
- **Port:** Enter the Net8 Listener port number.
- **SID:** Enter the System Identifier (`SID`) of the database where you will install the Oracle9iAS Wireless repository.

6. Enter the new username and password for the database user to store the Oracle9iAS Wireless repository, and click **Next**. If you are upgrading from Oracle9i Application Server, version 1.0.2.1, then the “Oracle9iAS Wireless Schema Information Screen” will be slightly different. Enter the existing Oracle9iAS Wireless username and password, and click **Next**.

Note: Do not enter Oracle9iAS Database Cache hostname, port number, and SID in this screen.

Figure 4–15 *Wireless Edition Schema Information Screen*

The image shows a screenshot of the 'Wireless Edition schema information' screen. At the top, there is a title bar with a red and white sphere icon and the text 'Wireless Edition schema information'. Below the title, a message states: 'The installation will create a database user to store the Oracle9i Application Server Wireless Edition repository. Please enter a new username and password. Note: Don't enter SYS or SYSTEM for this username.' There are two input fields: 'Username' with the text 'manager' and 'Password' with a masked password '*****'. At the bottom, there are five buttons: 'Exit', 'Help', 'Installed Products...', 'Previous', and 'Next'.

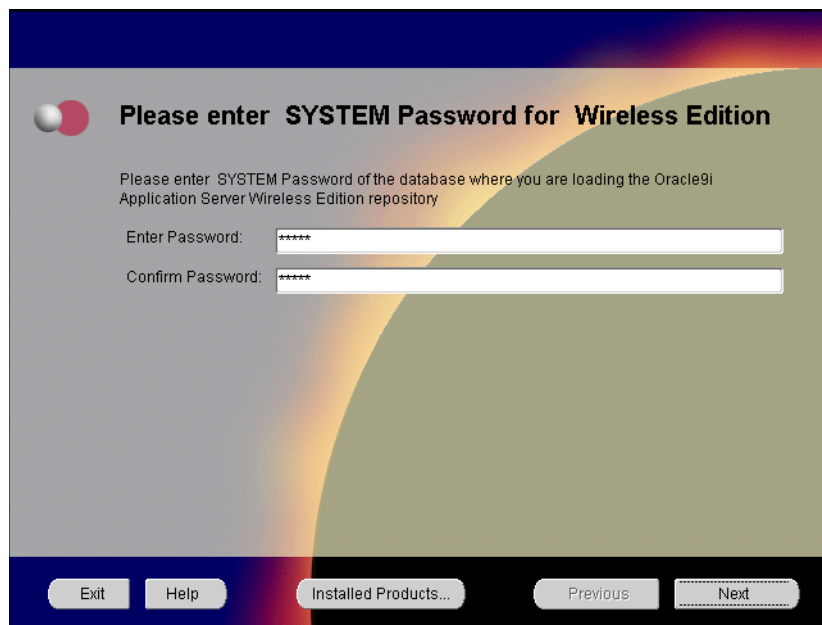
The Wireless Edition Schema Information screen allows you to create a database user to store the Oracle9iAS Wireless repository.

- **Username:** Enter a new user name for the database user to store the Oracle9iAS Wireless repository.
- **Password:** Enter a password for the database user.

7. Enter and confirm the `SYSTEM` password of the database, and click **Next**. If you are upgrading from Oracle9i Application Server, version 1.0.2.1, then a “Wireless Edition Administrator Password Information” screen appears. Enter and confirm the “Administrator” password, and click **Next**. Do not enter the database schema owner password.

Note: Do not enter the database schema owner password.

Figure 4–16 System Password Screen

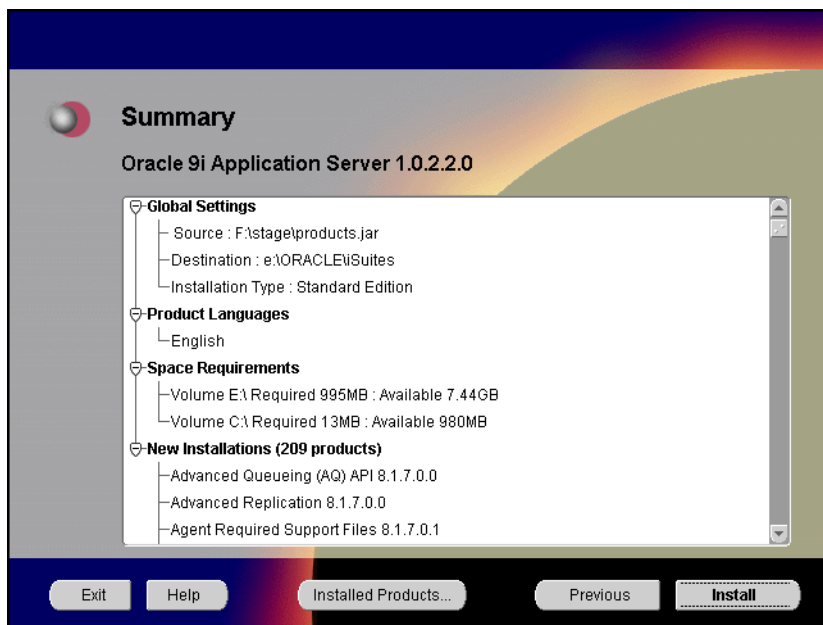
The screenshot shows a software installation window titled "Please enter SYSTEM Password for Wireless Edition". It features a dark blue header bar with a small icon on the left. The main area has a light gray background with a large, stylized orange and yellow curved graphic on the right. The text "Please enter SYSTEM Password of the database where you are loading the Oracle9i Application Server Wireless Edition repository" is displayed. Below this, there are two input fields: "Enter Password:" and "Confirm Password:", both containing six asterisks. At the bottom, there is a dark blue bar with five buttons: "Exit", "Help", "Installed Products...", "Previous", and "Next".

The System Password screen allows you to enter and confirm the `SYSTEM` password of the database where you are loading the Oracle9iAS Wireless repository.

- **Enter Password:** Enter the `SYSTEM` password of the database where you will install the Oracle9iAS Wireless.
- **Confirm Password:** Re-enter the `SYSTEM` password as entered above for verification.

8. Review the summary and click **Install** to begin the installation process.

Figure 4–17 Summary Screen



The Summary screen allows you to review all the settings before the actual installation process. These settings include source, destination, installation type, product language, space requirements, and a list of components.

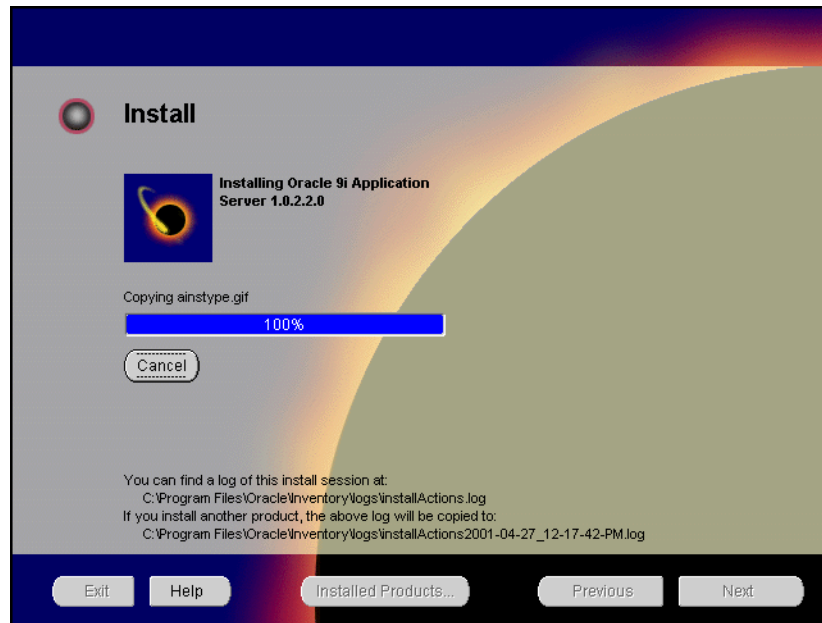
- To make changes to any of these settings, click **Previous** to return to the respective screens.

Note: Insufficient disk space is indicated in red under **Space Requirements**.

When you click **Install**, the installation process begins.

9. Monitor the installation process and after the installer finishes, click **Next**.

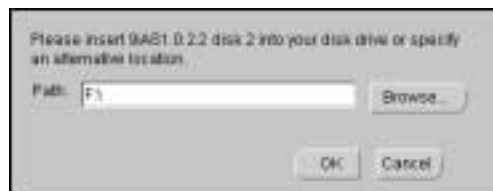
Figure 4–18 *Install Screen*



The Install screen appears while the product is installing. Installation operations include executing actions such as file copy and linking, and executing decision points and calculations. It also displays the full path of the installation log.

- **Cancel:** To discontinue the installation process. You can then choose to stop the installation of an individual component or the entire product.

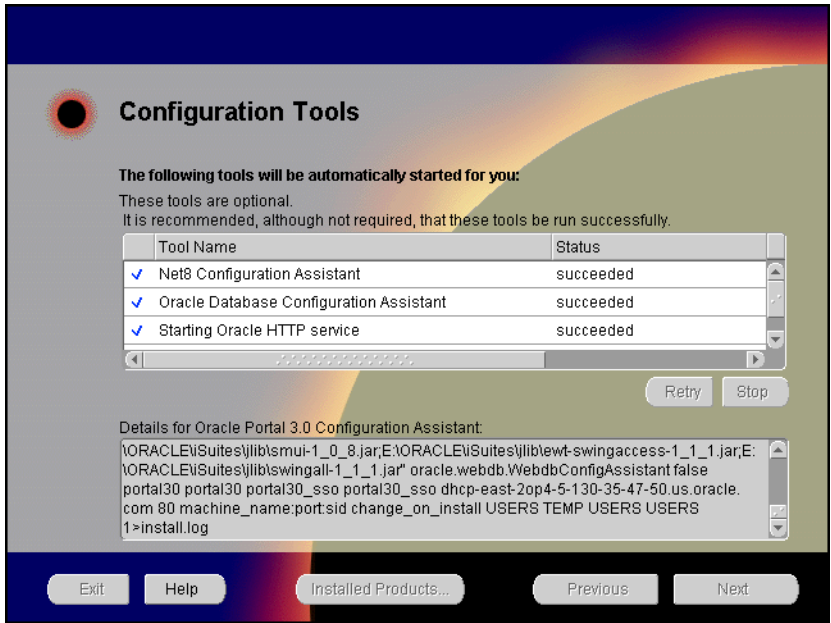
Changing Disks: During the installation process, the Disk Location dialog appears and prompts you to change disks. Insert the requested disk into your disk drive, or specify an alternative location, and click OK.



- 10. Start the origin database if it has been shut down during installation. Verify the list of configuration tools and click **Next**. This screen appears only if you select components to configure and start in the Components Configuration and Startup screen.

Note: The installer has completed copying and linking the necessary files. Be sure to start the database if it had been shut down for the installation process. The configuration tools such as Oracle9iAS Portal Configuration Assistant need to connect to an active database for configuration purposes.

Figure 4–19 Configuration Tools Screen



The Configuration Tools screen lists the configuration tools for all installed components.

Scroll down the list to review the configuration status of each tool. The status changes as each component is configured.

The installer performs the following functions in this screen:

- Executes a configuration tool for each component selected previously in the Component Configuration and Startup screen.
- Displays all the configuration settings in the display window below as it executes a configuration tool for each component.
- Enables you to view configuration settings after all configuration tools are executed. Click on each component to review all the changes made.
- Allows you to view data for failed executions in the display window. You can either fix the error and click **Retry** to execute the configuration tool again, or ignore the error and click **Next** to proceed to the next screen.
- **Retry**: To re-execute the configuration script if the configuration of a component fails.
- **Stop**: To quit the configuration process.

Configuration Tools

This installation option launches the following configuration tools:

Net8 Configuration Assistant - This configuration assistant enables you to connect and configure the Oracle client/server network environment.

See Also: *Net8 Administration's Guide* in the Oracle Database Documentation Library for information on running Net8 Configuration Assistant.

Oracle Database Configuration Assistant - This configuration assistant configures the database for Oracle Enterprise Java Engine. Oracle Database Configuration Assistant will not appear if you are migrating from Oracle9i Application Server 1.0.2.1 to 1.0.2.2.

See Also: "[Oracle Database Configuration Assistant](#)" on page A-17 for instructions on running Oracle Database Configuration Assistant.

Starting Oracle HTTP service - This starts the Oracle HTTP Server.

Oracle HTTP Server starts up in a DOS window. In that window, you can test the Oracle HTTP Server installation.

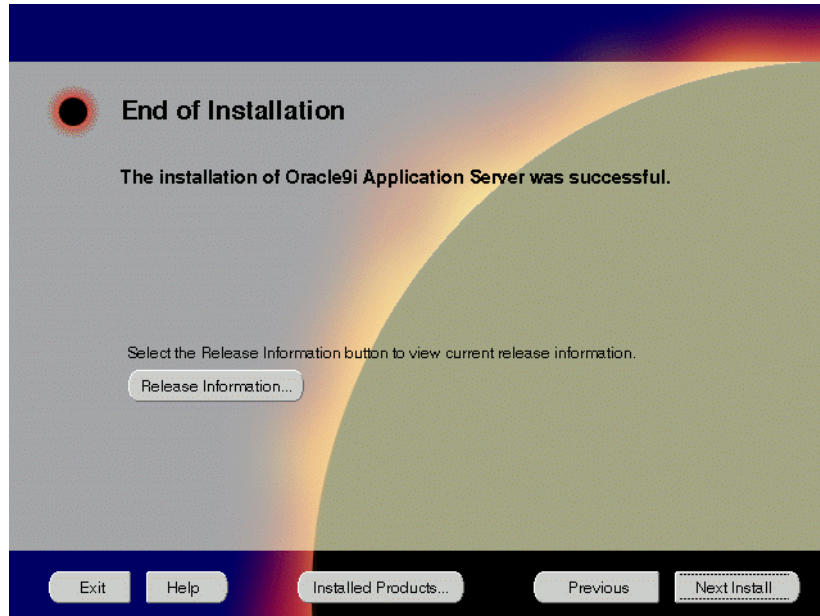
To administer the Oracle HTTP service from the `Control Panel`, reboot your machine after Oracle9i Application Server installation completes. Then, Oracle HTTP service will start automatically and you will no longer need to start it in a DOS window.

Oracle9iAS Portal Configuration Assistant - This configuration assistant loads necessary database objects for Oracle9iAS Portal to run.

See Also: ["Oracle9iAS Portal Configuration Assistant"](#) on page A-8 for instructions on running Oracle9iAS Portal Configuration Assistant.

11. Ensure that the installation was successful. Click **Exit** to quit the installer.

Figure 4-20 *End of Installation Screen*



The End of Installation screen appears at the end of the installation process. It notifies you whether the installation was successful or unsuccessful.

- **Release Information:** To view the latest release information.

If the installer detects that specific port numbers such as 7777, are occupied, it will display the alternate port numbers on the end of Installation screen. For Oracle HTTP Server port number information, refer to "[Port Allocation](#)" on page 2-12.

You have successfully installed the Standard Edition installation option of Oracle9i Application Server. Proceed to "[Postinstallation](#)" on page 4-28 to complete the installation process.

Postinstallation

The following instructions guide you through the basic postinstallation tasks for Oracle9i Application Server. Before performing these tasks, install, if needed, Oracle9i Application Server Client from the Oracle9i Application Server Administrative and Development Client CD included in the Oracle9i Application Server CD pack.

See Also: [Appendix B, "Installing Oracle9i Application Server Administrative and Development Client CD-ROM"](#)

The postinstallation contains the following sections:

- [Component-specific Tasks](#)
- [Starting and Stopping Components](#)
- [Component Web Sites](#)
- [Component Port Numbers](#)
- [Additional Documentation](#)

Component-specific Tasks

Oracle Internet File System

You must run the Oracle Internet File System Configuration Assistant manually to configure Oracle Internet File System.

See Also: ["Oracle Internet File System Configuration Assistant"](#) for instructions on running Oracle Internet File System Configuration Assistant.

Starting and Stopping Components

You can manually start and stop a component by doing the following:

1. For Windows NT, go to the **Control Panel**, open **Services**. For Windows 2000, go to the **Control Panel**, to **Administrative Tools**, open **Services**.
2. In **Services**, select the service then click **Start** or **Stop** for desired result.

[Table 4-1](#) lists the service names for the Oracle9i Application Server components.

Table 4-1 Starting and Stopping Components

Component	Service Name
Oracle9iAS Wireless Web Integration Server	Oracle Web Integration Server
Oracle Database	OracleServiceDB
Oracle HTTP Server	OracleiSuitesHTTPServer OracleiAS_6iServerClientCache80 OracleiAS_HomeTNSListener OracleiSuitesAgent OracleiSuiteTNSListener OracleiSuiteAgent

Note: Use the following commands for Oracle Internet File System:

```
Setting Environment: ifsl.bin\ifsend.bat and
ifsl.1\bin\ifsconfig.bat
Start: ifsl.1\bin\ifstart.bat
Stop: ifsl.1\bin\ifstop.bat
```

Component Web Sites

[Table 4–2](#) lists Web sites for Oracle9i Application Server components.

Table 4–2 Component Web sites

Component	Web Site
Oracle9iAS Portal	<code>http://hostname.domain:listener_port/pls/portal30</code>
Oracle9iAS Wireless Web Integration Server	<code>http://hostname.domain:5555</code> (Log on as Administrator/manage)
Oracle HTTP Server	<code>http://hostname.domain:listener_port</code>
Oracle HTTP Server (SSL-enabled)	<code>https://hostname.domain:listener_port</code>
Oracle Internet File System	<code>http://hostname.domain:listener_port/ifs/files</code> (Log on as system/manager)

Component Port Numbers

[Table 4–3](#) lists the default port numbers on which requests are received for each component.

Table 4–3 Port Numbers

Components	Port Number
Oracle9iAS Portal	Oracle9iAS Portal uses the same port number as Oracle HTTP Server
Oracle9iAS Wireless	Oracle9iAS Wireless uses the same port as Oracle HTTP Server
Oracle9iAS Wireless Web Integration Server	5555
Oracle HTTP Server Oracle HTTP Server (SSL-enabled) Oracle HTTP Server Jserv Servlet Engine	For information on port numbers, refer to "Port Allocation" on page 2-12. 8007
Oracle Internet File System	Oracle Internet File System uses the same port number as Oracle HTTP Server FTP: 21 SMB: 139 SMTP: 2500 IMAP: 143 CUP: 4180

Table 4–3 Port Numbers

Components	Port Number
Oracle Enterprise Java Engine TNS Listener	TCP/IP: 1521 IIOP: 2481

Additional Documentation

For further information on postinstallation and configuration tasks, refer to component-specific documentation. For information on viewing and installing the documentation, refer to [Appendix F, "Installing Documentation Library"](#).

Enterprise Edition

This chapter guides you through the installation steps for the Enterprise Edition of Oracle9i Application Server. The following topics provide detailed installation steps, and basic postinstallation tasks:

- [Installation](#)
- [Postinstallation](#)

Installation

The installation process is divided into two parts:

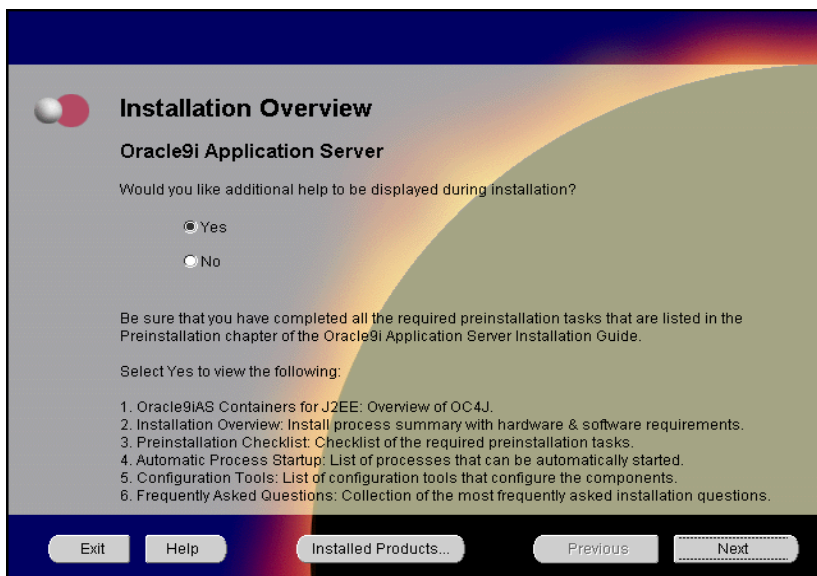
- [Preparing System for Installation](#)
- [Installing Oracle9i Application Server](#)

Preparing System for Installation

The following instructions prepare your machine for the installation of Oracle9i Application Server.

1. Review the Installation Overview screen and make the appropriate choice for the installer to display additional help, and click **Next**.

Figure 5–1 *Installation Overview Screen*



The Installation Overview screen enables you to launch and view additional installation help and information during installation. Both choices enable you to click **Help** to view information for each screen.

- **Yes:** This will launch a Web browser that displays additional installation information such as installation summary and frequently asked questions.
- **No:** This option will disable the additional help option.

2. Review the Welcome screen and click **Next**.

Figure 5–2 Welcome Screen



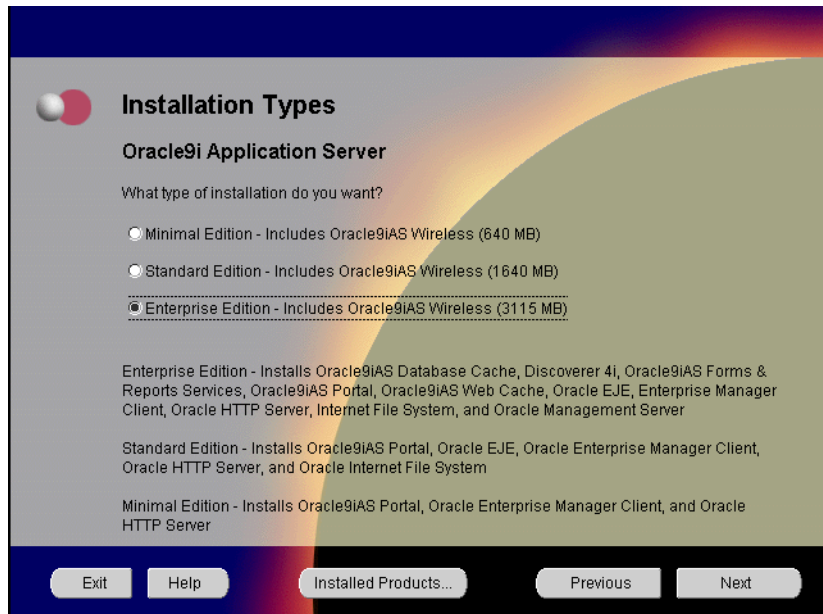
The Welcome screen provides information about the Oracle Universal Installer.

The following function buttons appear on the installation screens.

- **Deinstall Products:** Deinstall individual components or the entire product. This button appears only on the Welcome screen.
- **About Oracle Universal Installer:** View the version number of the installer in use.
- **Exit:** Quit the installation process and exit the installer.
- **Help:** Access detailed information about the functionality of each screen.
- **Installed Products:** View currently installed products or to deinstall the entire product or components.
- **Previous:** Return to the previous screen.
- **Next:** Move to the next screen.

3. Select Enterprise Edition and click **Next**.

Figure 5–3 *Installation Types Screen*



The Installation Types screen allows you to select the Oracle9i Application Server installation option that you are licensed to use.

See Also: [Table 2–1, "Oracle9i Application Server Components"](#) on page 2-3 for a complete list of components.

- **Minimal Edition:** Installs Oracle9iAS Portal, Oracle9iAS Wireless, Oracle Enterprise Manager Client, and Oracle HTTP Server.
- **Standard Edition:** Installs Oracle9iAS Portal, Oracle9iAS Wireless, Oracle Enterprise Java Engine, Oracle Enterprise Manager Client, Oracle HTTP Server, and Oracle Internet File System.
- **Enterprise Edition:** Installs Oracle9iAS Database Cache, Oracle9iAS Discoverer, Oracle9iAS Forms Services, Oracle9iAS Portal, Oracle9iAS Reports Services, Oracle9iAS Web Cache, Oracle9iAS Wireless, Oracle Enterprise Java Engine, Oracle Enterprise Manager Client, Oracle HTTP Server, Oracle Internet File System, and Oracle Management Server.

4. Verify the Oracle home name and location for the 8.1.7 RSF based products, and click **Next**.

Figure 5–4 Destination Oracle Home and Oracle Home Name Screen

Destination Oracle Home and Oracle Home Name
Oracle 9i Application Server

Select the Oracle Home name and Location to install the 8.1.7 RSF-based products:

Oracle Home Name:

Oracle Home Location:

The Destination Oracle Home and Oracle Home Name screen allows you to enter the name and location of your Oracle home for the 8.1.7 RSF based products. You can accept or change the defaults.

- **Oracle Home Name:** This is the name of the Oracle home, which is the root directory in which Oracle9i Application Server is installed.
- **Oracle Home Location:** This is the full path of the Oracle home directory. There should be no spaces in the Oracle home path.

Note: Do not to install Oracle9i Application Server in an Oracle home containing other Oracle products, including the database. Such an installation could overwrite shared components, causing the products to malfunction. For migration and upgrade issues, refer to the *Oracle9i Application Server Migration Guide*.

- **Browse:** To navigate through the file system to find source and destination locations.

5. Create a new Oracle home or select an existing one for the 8.0.6 RSF based products, and click **Next**.

Figure 5–5 Destination Oracle home and Oracle Home Name

Destination Oracle Home and Oracle Home Name
Oracle 9i Application Server for Windows NT

Select the Oracle Home name and Location to install the 8.0.6 RSF-based products:

☒ Create a new Oracle Home

Oracle Home Name:

Oracle Home Location:

☐ Select Existing Oracle Home

The Destination Oracle Home and Oracle Home Name screen allows you to either enter the name and location for the 8.0.6 RSF based products, or select an existing Oracle home if you are upgrading from a previous version of Oracle9i Application Server. You can accept or change the defaults.

- **Create New Oracle Home**

- **Oracle Home Name:** This is the name of the Oracle home, which is the root directory in which Oracle9i Application Server is installed.
- **Oracle Home Location:** This is the full path of the Oracle home directory.

Note: Do not to install Oracle9i Application Server in an Oracle home containing other Oracle products, including the database. Such an installation could overwrite shared components, causing the products to malfunction. Also, do not use a 8.1.x Oracle home. For migration and upgrade issues, refer to the *Oracle9i Application Server Migration Guide*.

- **Browse:** To navigate through the file system to find source and destination locations.
- **Select Existing Oracle Home:** This options displays all existing Oracle homes from pervious Oracle9i Application Server installations. If you are upgrading from a pervious version, then you may select an existing Oracle home to install the 8.0.6 RSF based products.

6. Review the following screen and click **Previous** to fix errors. This screen appears only if you have entered an invalid Oracle home for the 8.0.6 RSF based products.

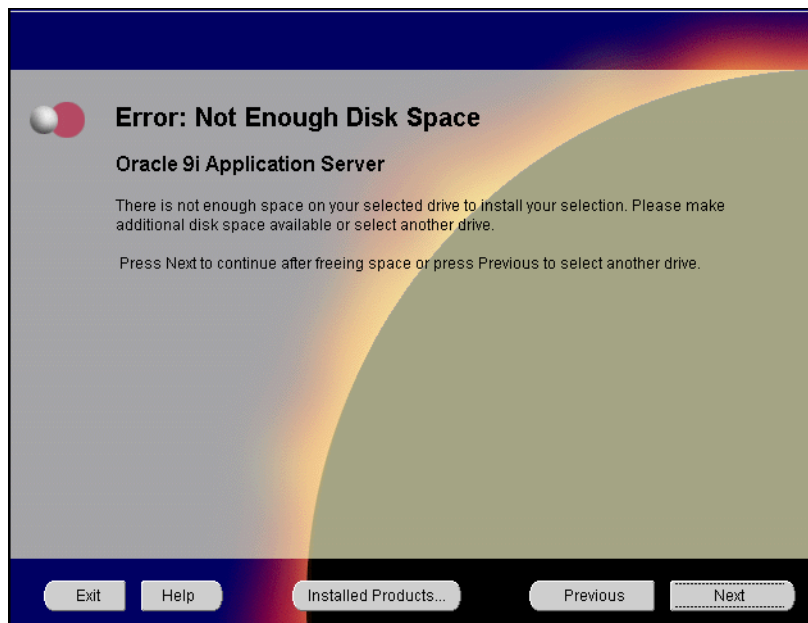
Figure 5–6 Invalid Oracle Home Entry Warning Screen



The Invalid Oracle Home Entry Warning screen alerts you of an invalid Oracle home entry made for the 8.0.6 RSF based products. It requires you to click the **Previous** button to go back to the Destination Oracle Home Name and Oracle Home Location screen and enter a valid name. After making the appropriate corrections, click **Next**.

7. You do not have sufficient space to install Oracle9i Application Server. Free enough disk space to meet the hardware requirements and click **Next**, or click **Previous** to select another drive. This screen will appear only if you do not have sufficient disk space.

Figure 5–7 *Insufficient Disk Space Screen*



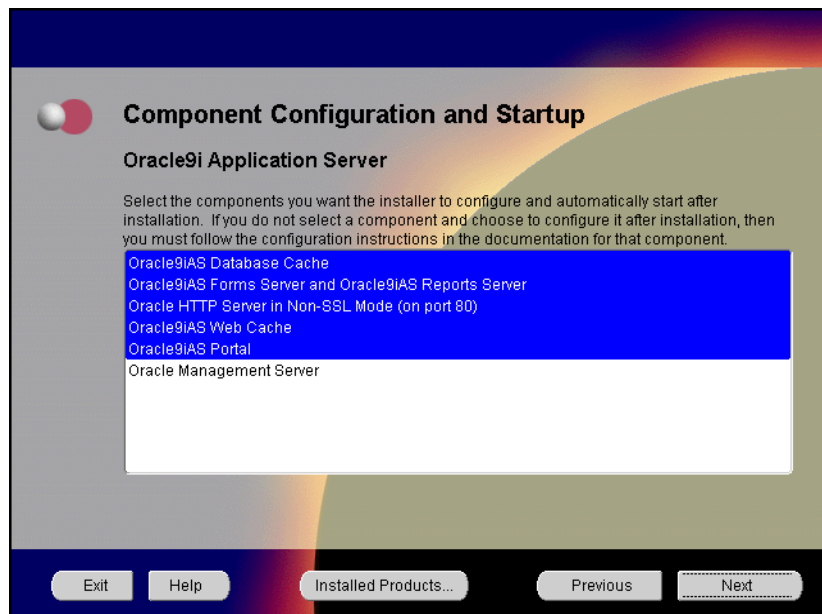
Insufficient Disk Space screen appears only if you do not have enough disk space on your selected drive to install Oracle9i Application Server. You can:

- Click **Next** once you have freed sufficient disk space.
- Click **Previous** to select another drive to install product.

See Also: [Chapter 1, "Requirements"](#)

8. Select the components you wish to configure during the installation process and click **Next**. These components will automatically start up after installation. If you wish to configure the components later, do not select them.

Figure 5–8 Component Configuration and Startup Screen



The Component Configuration and Startup screen allows you to select the components that you want the installer to configure and start after installation. This screen offers two configuration options:

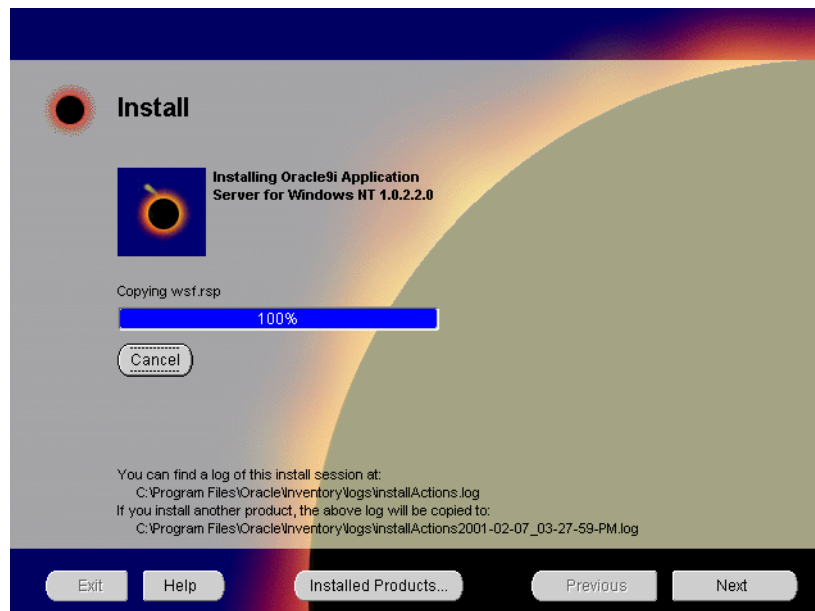
- If you select a component here, then the installer prompts you for any or all configuration information required by that component. After installation, the installer starts that component.
- If you de-select a component here, then the installer installs it, but does not configure or start it. After installation, if you decide to use that component, then manually launch the configuration assistant to configure that component.

See Also: [Appendix A, "Configuration Tools"](#)

You can select or de-select multiple components by holding down the Control key while clicking on the component name.

9. Monitor the installation process and after the installer finishes, click **Next**.

Figure 5–9 *Install Screen*



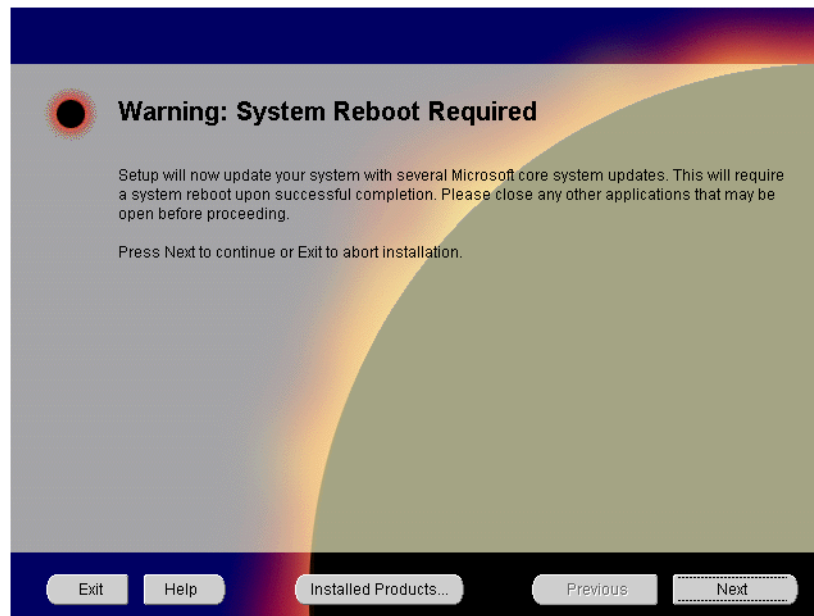
The Install screen appears while Oracle Universal Installer incorporates all the user input for Oracle9i Application Server. It also displays the full path of the installation log.

- **Cancel:** To discontinue the installation process.

10. Review the system reboot information and click **Next**. This screen will not appear under the following conditions:
- The machine has previously installed Oracle9i Application Server. In this case you do not have to reinstall the system DLLs and the reboot is not necessary.
 - You are installing on Windows 2000. In this case, the machine will not reboot.

Note: Be sure to close all other open applications and processes as your machine will automatically reboot after the configuration files are copied.

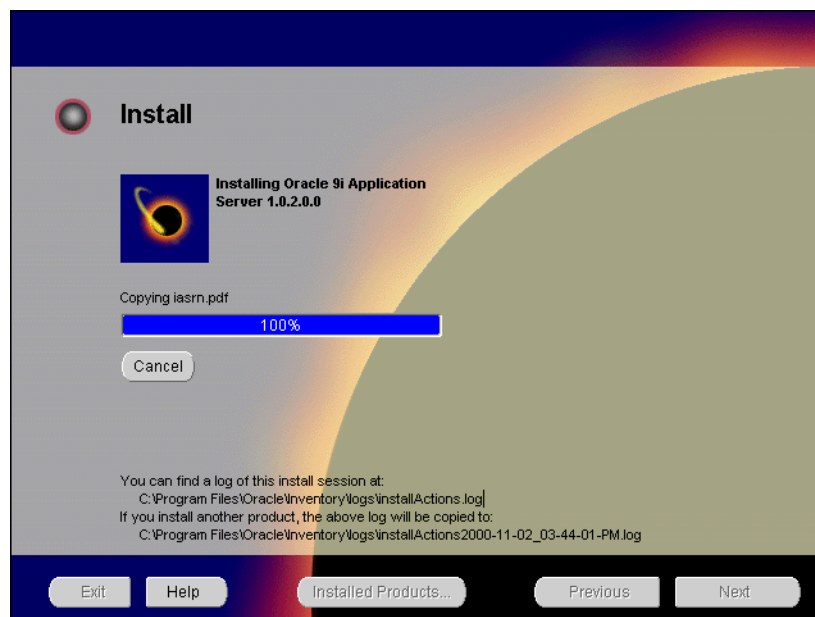
Figure 5–10 System Reboot Screen



The System Reboot screen informs you that after the installer copies the necessary files required to install Oracle9i Application Server, your machine will reboot to allow the configuration changes to take effect. When the machine starts up again, Oracle Universal Installer appears and begins the installation process of the Oracle9i Application Server.

11. Monitor the installation process and after the installer finishes, your machine reboots. This screen will not appear if you are installing on Windows 2000.

Figure 5–11 *Install Screen*



The Install screen appears while Oracle Universal Installer installs required configuration files for Oracle9i Application Server. It also displays the full path of the installation log.

- **Cancel:** To discontinue the installation process.

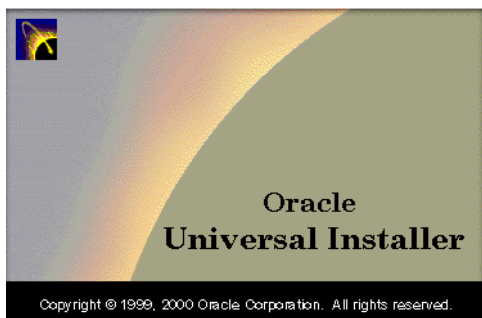
Your machine will reboot once the configuration files are copied. Do not attempt to restart the installer after reboot. It will launch automatically.

Installing Oracle9i Application Server

Once your machine starts up after rebooting, the Oracle Universal Installer appears and proceeds to install Oracle9i Application Server. The reboot process will not occur if you are installing on Windows 2000.

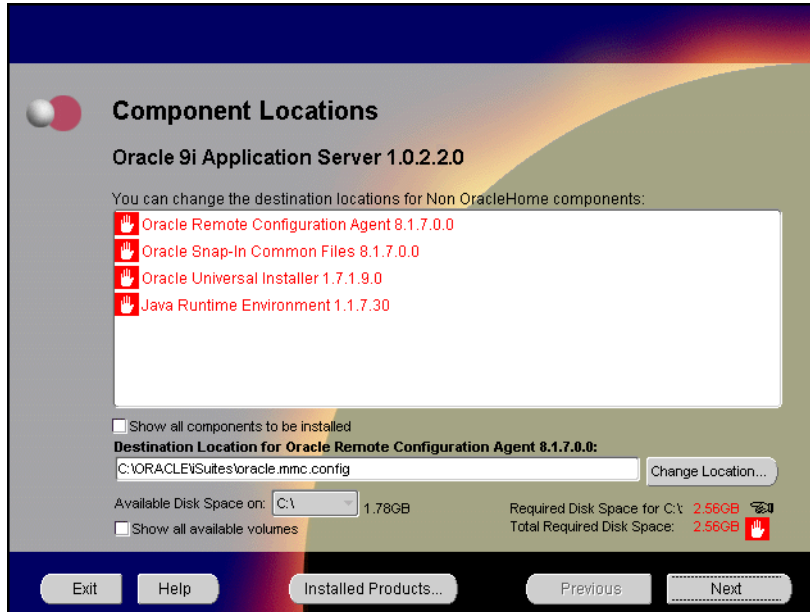
Note: Be sure to log in with Windows administrator privileges after your machine starts up again.

The following screen appears as Oracle Universal Installer relaunches. The installer may take up to several minutes to start, and might pause if some screensavers are activated.



1. This screen appears only if Oracle Universal Installer has detected insufficient disk space in the Oracle home directory. If needed, verify and change the locations of the components displayed on the screen, and click **Next**.

Figure 5–12 Component Locations Screen



The Component Locations screen allows you to select alternative locations for some components.

Note: Insufficient disk space is indicated in red with a hand icon next to it.

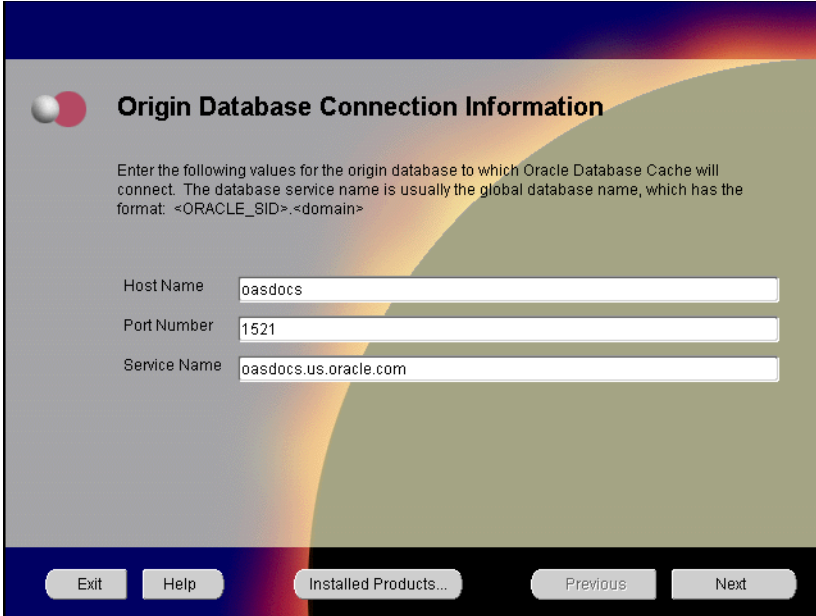
- **Show all components to be installed:** To view the complete list of components chosen for installation. Select check box to display component list.

Click individual components to view and change destination location path. The installer enables you to change the destination location of the components displayed on the screen.

- **Destination Location:** To view the full path of the selected component.
- **Change Location:** To browse for alternate locations for the selected component.
- **Available Disk Space:** To view available disk space in the current directory. The installer also provides information about the total disk space required for the installation of additional components.
- **Required Disk Space for *directory_name*:** To view the total disk space required for installation in the selected directory.
- **Total Required Disk Space:** To view the total disk space required for the product to be installed.
- **Show all available volumes:** To browse through file system for available disk space. Select check box to display the file system.

2. This screen will appear only if you selected Oracle9iAS Database Cache in the Component Configuration and Startup screen. Enter the host name, port number, and service name of the origin database and click **Next**.

Figure 5–13 *Origin Database Connection Information*

The image shows a software installation window titled "Origin Database Connection Information". It features a blue header bar with a red and white circular icon on the left. Below the title, there is a paragraph of instructions: "Enter the following values for the origin database to which Oracle Database Cache will connect. The database service name is usually the global database name, which has the format: <ORACLE_SID>.<domain>". There are three input fields: "Host Name" with the value "oasdocs", "Port Number" with the value "1521", and "Service Name" with the value "oasdocs.us.oracle.com". At the bottom, there is a navigation bar with buttons for "Exit", "Help", "Installed Products...", "Previous", and "Next".

Origin Database Connection Information

Enter the following values for the origin database to which Oracle Database Cache will connect. The database service name is usually the global database name, which has the format: <ORACLE_SID>.<domain>

Host Name: oasdocs

Port Number: 1521

Service Name: oasdocs.us.oracle.com

Exit Help Installed Products... Previous Next

The Origin Database Connection Information screen enables you to identify the origin database for the middle-tier cache.

- **Host Name:** The name of the machine where the origin database is located.
- **Port Number:** The port number of the listener for the origin database. The default port number is 1521.
- **Service Name:** The database service name is the global database name. The global database name uniquely distinguishes the database from other databases in your network domain. The installation procedure uses this name to create an entry in the `tnsnames.ora` file on the local cache node.

For example, if `oasdocs` is the database name and `us.oracle.com` is the network domain in which the database is located, then the service name is `oasdocs.us.oracle.com`.

3. This screen will appear only if you selected Oracle9iAS Portal in the Component Configuration and Startup screen. Enter or accept the default Portal DAD and Schema names. Also, enter the database connection information. Click **Next**.

Figure 5–14 Apache Listener Configuration for Oracle9iAS Portal (DAD and Schema name) Screen

Apache Listener Configuration for Oracle9iAS Portal

Database Access Descriptor (DAD) for Oracle9iAS Portal

Enter a name for the DAD that will be used to access Oracle9iAS Portal and enter the name of the database schema where Oracle9iAS Portal will be installed. If you are installing the Oracle HTTP Server powered by Apache in an Oracle Home other than the one in which Oracle9iAS Portal is installed, you must also specify a TNS connect string to the database where Oracle9iAS Portal is installed.

Portal DAD Name:

Portal Schema Name:

Connect String:

Note: Connect String should be in <machine name><port><sid> format.

Exit Help Installed Products... Previous **Next**

The Apache Listener Configuration for Oracle Portal DAD screen allows you to enter the name of the Database Access Descriptor (DAD) that will be used to access Oracle Portal, and the name of the database schema where Oracle Portal will be installed. It also enables you to enter the TNS connect string if Oracle Portal and Oracle HTTP Server are installed in different Oracle homes. The information you enter here is used to create the PL/SQL Gateway settings which you can access upon installation from the following location:

`http://machine_name:port/pls/admin_/gateway.htm`

- **Portal DAD Name:** Enter the name of the DAD for each instance you installed in the database. A Database Access Descriptor (DAD) is a set of values that specify how the Apache Listener connects to your Oracle database server to fulfill an HTTP request. Based on this DAD name, the installation automatically sets other DAD-related and default settings such

as the name and location of the document table. The default DAD name is `portal30`.

- **Portal Schema Name:** Enter the name of the database schema that will contain Oracle Portal. A schema is a collection of components and database objects under the control of a given database user. Each Oracle Portal application maps to an Oracle database schema. The default schema name is `portal30`.
- **Connect String:** Enter the origin database connection information in the form `host:port:sid`.

4. This screen will appear only if you selected Oracle9iAS Portal in the Component Configuration and Startup screen. Enter or accept the default Login Server DAD and Schema names. Click **Next**.

Figure 5–15 *Apache Listener Configuration for Oracle9iAS Portal (Login Server) Screen*

Apache Listener Configuration for Oracle9iAS Portal

Database Access Descriptor (DAD) for the Login Server

Enter a name for the DAD that will be used to access the Login Server and enter the name of the database schema where the Login Server will be installed.

Login Server DAD Name:

Login Server Schema Name:

You can create additional DADs to access other Oracle9iAS Portal installations by entering this URL in your browser: `http://<machine_name>:<port>/pls/admin_/gateway.htm`

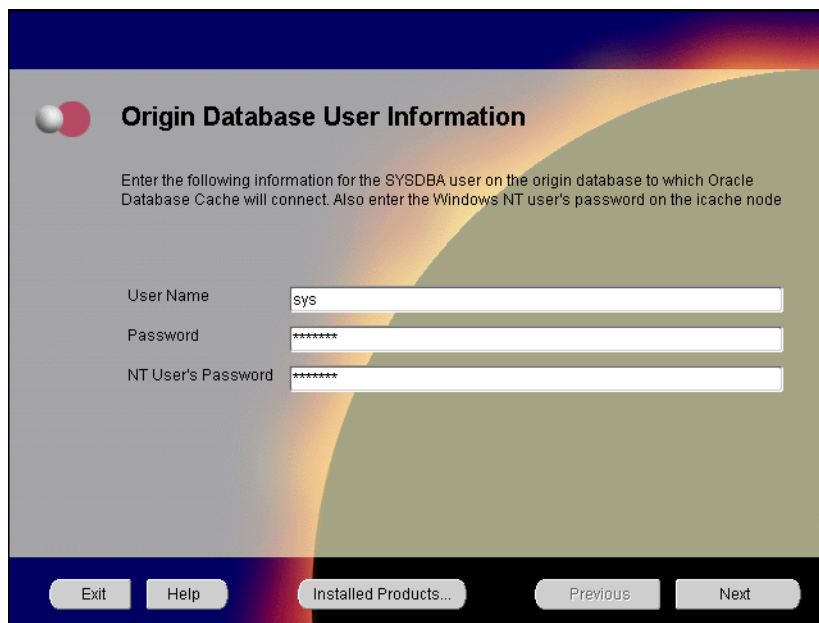
Exit Help Installed Products... Previous Next

The Apache Listener Configuration for Oracle9iAS Portal screen allows you to enter the Login Server DAD and Schema Name, with a `_sso` extension for easy recognition. The Login Server provides an enterprise-wide Single Sign-On (SSO) mechanism that enables an Oracle Portal user to log in securely to Oracle Portal and any partner and external applications using a single user name and password.

- **Login Server DAD Name:** Enter the name of the DAD for each instance you installed in the database. The default DAD name is `portal30_sso`.
- **Login Server Schema Name:** Enter the name of the database schema that will contain Oracle Portal. The default schema name is `portal30_sso`.

5. This screen will appear only if you have selected Oracle9iAS Database Cache in the Component Configuration and Startup screen. Enter the `SYSDBA` name and password and click **Next**.

Figure 5–16 *Origin Database User Information Screen*

The image shows a screenshot of the 'Origin Database User Information' screen. The title bar is dark blue. The main area has a light gray background with a large, stylized orange and yellow curved graphic on the right side. At the top left, there is a small icon of two overlapping circles (one red, one white) followed by the title 'Origin Database User Information'. Below the title, a paragraph of text reads: 'Enter the following information for the SYSDBA user on the origin database to which Oracle Database Cache will connect. Also enter the Windows NT user's password on the icache node'. There are three input fields: 'User Name' with the text 'sys', 'Password' with asterisks, and 'NT User's Password' with asterisks. At the bottom, there is a dark blue bar containing five buttons: 'Exit', 'Help', 'Installed Products...', 'Previous', and 'Next'.

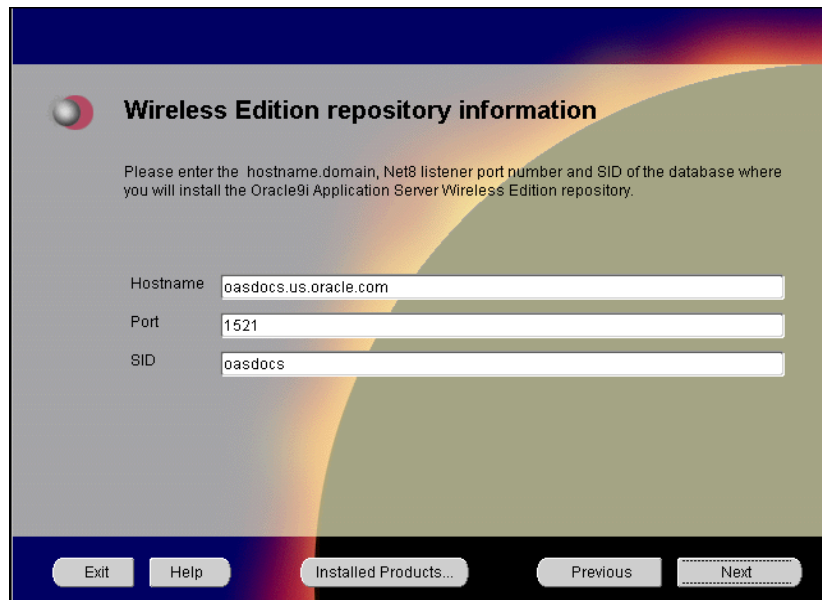
The Origin Database User Information screen allows you to enter the SYSDBA information created for the origin database.

- **User Name:** The `SYSDBA` user name for the origin database that the installer detects and defaults. You can change the name or accept the default.
- **Password:** The password for the `SYSDBA` user.
- **NT User's Password:** The password of the Windows NT user who invoked the installation process. The user must be a member of the Administrators and `ORA_DBA` groups.

6. Enter the hostname, port number, and `SID` of the origin database where you will install the Oracle9iAS Wireless, and click **Next**. If you are upgrading from Oracle9i Application Server, version 1.0.2.1, then an “Upgrade Installation Detected” screen will appear. Review the content on the screen and click **Next** or **Exit** accordingly. If you click **Next**, then the installation will continue and the following screen will appear.

Note: Do not install Oracle9iAS Wireless on Oracle9iAS Database Cache.

Figure 5–17 *Wireless Edition Repository Information Screen*



Wireless Edition repository information

Please enter the `hostname.domain`, Net8 listener port number and `SID` of the database where you will install the Oracle9i Application Server Wireless Edition repository.

Hostname

Port

SID

Exit Help Installed Products... Previous Next

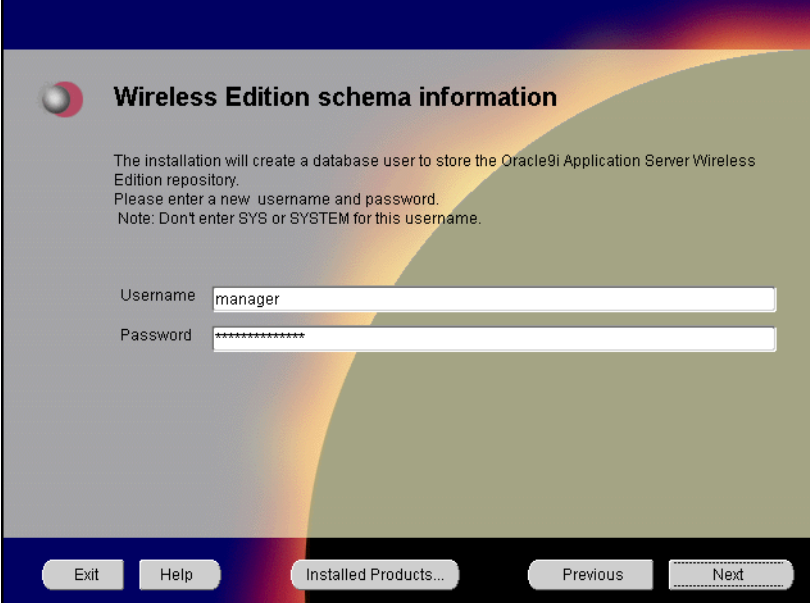
The Wireless Edition Repository Information screen allows you to enter the hostname, Net8 Listener port number, and `SID` of the database where you will install the Oracle9iAS Wireless repository.

- **Hostname:** Enter the `hostname.domain` of the database where you will install the Oracle9iAS Wireless.
- **Port:** Enter the Net8 Listener port number.
- **SID:** Enter the System Identifier (`SID`) of the database where you will install the Oracle9iAS Wireless repository.

7. Enter the new username and password for the database user to store the Oracle9iAS Wireless repository, and click **Next**. If you are upgrading from Oracle9i Application Server, version 1.0.2.1, then the “Oracle9iAS Wireless Schema Information Screen” will be slightly different. Enter the existing Oracle9iAS Wireless username and password, and click **Next**.

Note: Do not enter Oracle9iAS Database Cache hostname, port number, and SID in this screen.

Figure 5–18 Wireless Edition Schema Information Screen

The image shows a software installation window titled "Wireless Edition schema information". It features a dark blue header bar with a red and white sphere icon on the left. The main content area has a light gray background with a large, stylized orange and yellow curved graphic on the right. The text inside the window reads: "The installation will create a database user to store the Oracle9i Application Server Wireless Edition repository. Please enter a new username and password. Note: Don't enter SYS or SYSTEM for this username." Below this text are two input fields: "Username" with the text "manager" and "Password" with a masked password "*****". At the bottom of the window is a dark blue bar containing five buttons: "Exit", "Help", "Installed Products...", "Previous", and "Next". The "Next" button is highlighted with a dashed border.

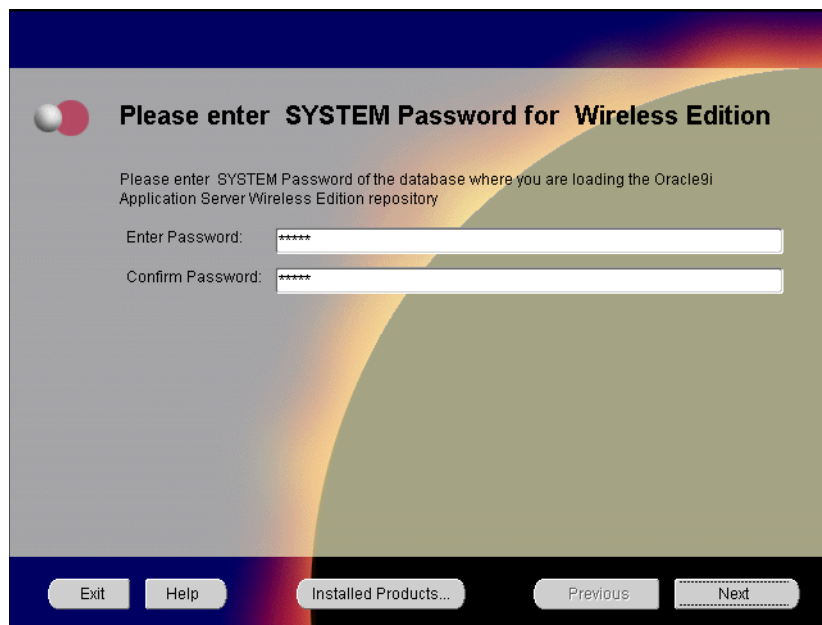
The Wireless Edition Schema Information screen allows you to create a database user to store the Oracle9iAS Wireless repository.

- **Username:** Enter a new user name for the database user to store the Oracle9iAS Wireless repository.
- **Password:** Enter a password for the database user.

8. Enter and confirm the `SYSTEM` password of the database, and click **Next**. If you are upgrading from Oracle9i Application Server, version 1.0.2.1, then a “Wireless Edition Administrator Password Information” screen appears. Enter and confirm the “Administrator” password, and click **Next**. Do not enter the database schema owner password.

Note: Do not enter the database schema owner password.

Figure 5–19 System Password Screen

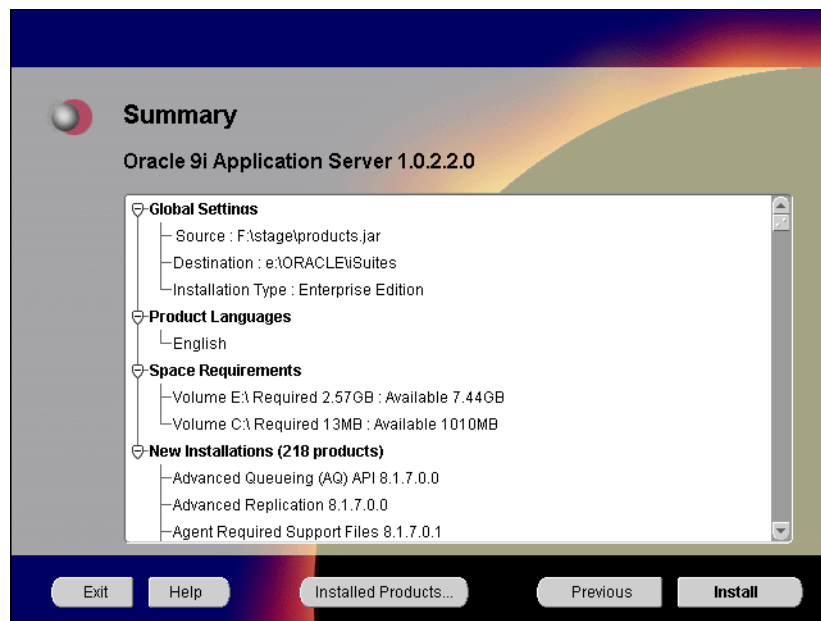
The screenshot shows a software installation window titled "Please enter SYSTEM Password for Wireless Edition". It features a dark blue header bar with a small Oracle logo on the left. The main content area has a light gray background with a large, stylized orange and yellow curved graphic on the right. The text "Please enter SYSTEM Password of the database where you are loading the Oracle9i Application Server Wireless Edition repository" is displayed. Below this, there are two input fields: "Enter Password:" and "Confirm Password:", both containing six asterisks. At the bottom, there is a dark blue bar with five buttons: "Exit", "Help", "Installed Products...", "Previous", and "Next". The "Next" button is highlighted with a dashed border.

The System Password screen allows you to enter and confirm the `SYSTEM` password of the database where you are loading the Oracle9iAS Wireless repository.

- **Enter Password:** Enter the `SYSTEM` password of the database where you will install the Oracle9iAS Wireless.
- **Confirm Password:** Re-enter the `SYSTEM` password as entered above for verification.

9. Review the summary and click **Install** to begin the installation process.

Figure 5–20 Summary Screen



The Summary screen allows you to review all the settings before the actual installation process. These settings include source, destination, installation type, product language, space requirements, and a list of components.

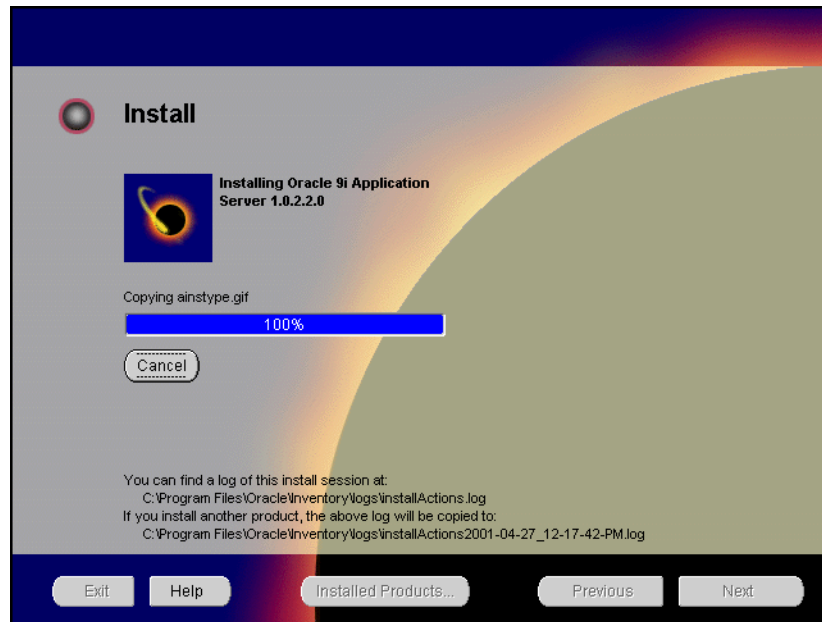
- To make changes to any of these settings, click **Previous** to return to the respective screens.

Note: Insufficient disk space is indicated in red under **Space Requirements**.

When you click **Install**, the installation process begins.

10. Monitor the installation process and after the installer finishes, click **Next**.

Figure 5–21 *Install Screen*

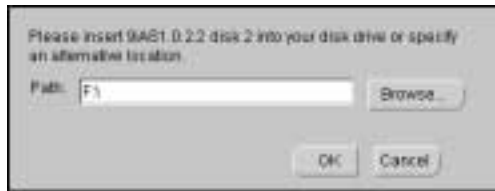


The Install screen appears while the product is installing. Installation operations include executing actions such as file copy and linking, and executing decision points and calculations. It also displays the full path of the installation log.

- **Cancel:** To discontinue the installation process. You can then choose to stop the installation of an individual component or the entire product.

During the installation process, Oracle Installer appears to install 8.0.6 RSF-based products such as Oracle9iAS Forms Services, Oracle9iAS Reports Services, and Oracle9iAS Discoverer. No user input is required.

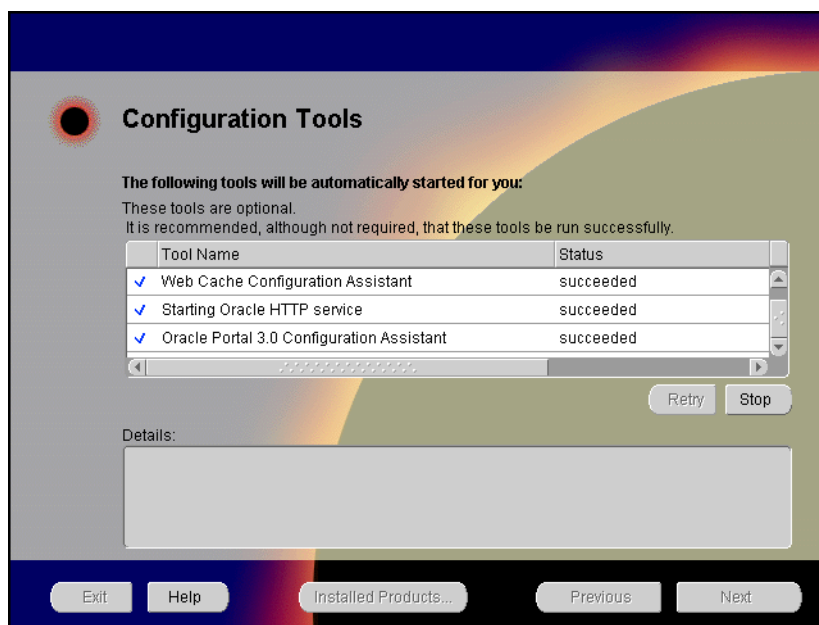
Changing Disks: During the installation process, the Disk Location dialog appears and prompts you to change disks. Insert the requested disk into your disk drive, or specify an alternative location, and click OK.



11. Start the origin database if it has been shut down during installation. Verify the list of configuration tools and click **Next**. This screen appears only if you select components to configure and start in the Components Configuration and Startup screen.

Note: The installer has completed copying and linking the necessary files. Be sure to start the database if it had been shut down for the installation process. The configuration tools such as Oracle9iAS Portal Configuration Assistant need to connect to an active database for configuration purposes.

Figure 5–22 Configuration Tools Screen



The Configuration Tools screen lists the configuration tools for all installed components.

Scroll down the list to review the configuration status of each tool. The status changes as each component is configured.

The installer performs the following functions in this screen:

- Executes a configuration tool for each component selected previously in the Component Configuration and Startup screen.
- Displays all the configuration settings in the display window below as it executes a configuration tool for each component.
- Enables you to view configuration settings after all configuration tools are executed. Click on each component to review all the changes made.
- Allows you to view data for failed executions in the display window. You can either fix the error and click **Retry** to execute the configuration tool again, or ignore the error and click **Next** to proceed to the next screen.
- **Retry:** To re-execute the configuration script if the configuration of a component fails.
- **Stop:** To quit the configuration process.

Configuration Tools

Depending on the components you select in the Configuration and Startup screen, the following configuration tools launch:

Oracle9iAS Database Cache Configuration Assistant - This configuration assistant enables you to configure your middle-tier caches. The Oracle9iAS Database Cache will not appear if you are migrating from version 1.0.2.1 to 1.0.2.2.

See Also: ["Oracle9iAS Database Cache Configuration Assistant"](#) on page A-3 for instructions on running Oracle9iAS Database Cache Configuration Assistant.

Oracle9iAS Web Cache Configuration Assistant - This launches the service to start Oracle9iAS Web Cache. Oracle9iAS Web Cache service starts up automatically by default. If you choose not to use Oracle9iAS Web Cache, you will need to stop the service manually.

See Also: ["Starting and Stopping Components"](#) on page 5-43

Starting Oracle HTTP service - This starts the Oracle HTTP Server.

Oracle HTTP Server starts up in a DOS window. In that window, you can test the Oracle HTTP Server installation.

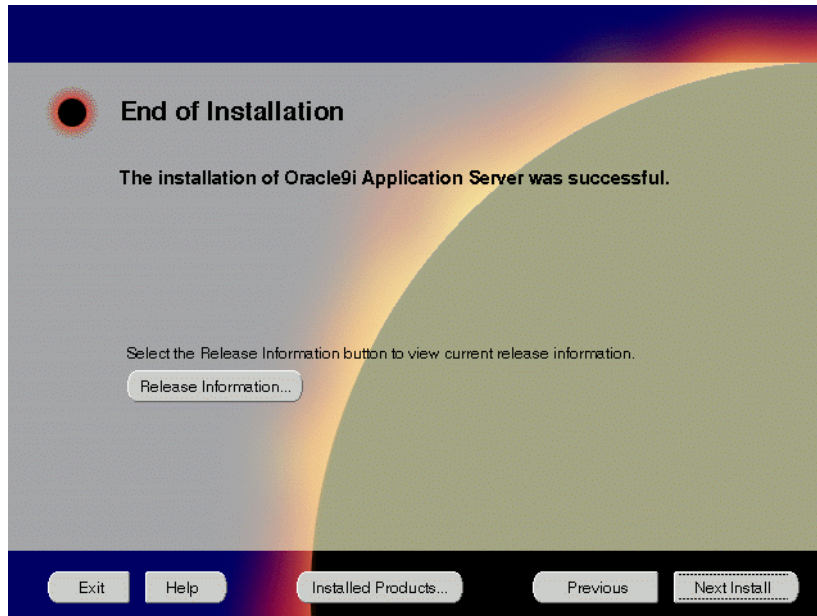
To administer the Oracle HTTP service from the `Control Panel`, reboot your machine after Oracle9i Application Server installation completes. Then, Oracle HTTP service will start automatically and you will no longer need to start it in a DOS window.

Oracle9iAS Portal Configuration Assistant - This configuration assistant loads necessary database objects for Oracle9iAS Portal to run.

See Also: ["Oracle9iAS Portal Configuration Assistant"](#) on page A-8 for instructions on running Oracle9iAS Portal Configuration Assistant.

12. Ensure that the installation was successful. Click **Exit** to quit the installer.

Figure 5–23 *End of Installation Screen*



The End of Installation screen appears at the end of the installation process. It notifies you whether the installation was successful or unsuccessful.

- **Release Information:** To view the latest release information.

If the installer detects that specific port numbers such as 7777, are occupied, it will display the alternate port numbers on the end of Installation screen. For Oracle HTTP Server port number information, refer to "[Port Allocation](#)" on page 2-12.

You have successfully installed the Enterprise Edition installation option of Oracle9i Application Server. Proceed to "[Postinstallation](#)" on page 5-33 to complete the installation process.

Postinstallation

The following instructions guide you through the basic postinstallation tasks for Oracle9i Application Server. Before performing these tasks, install, if needed, Oracle9i Application Server Client from the Oracle9i Application Server Administrative and Development Client CD included in the Oracle9i Application Server CD pack.

See Also: [Appendix B, "Installing Oracle9i Application Server Administrative and Development Client CD-ROM"](#)

The postinstallation contains the following sections:

- [Component-specific Tasks](#)
- [Starting and Stopping Components](#)
- [Component Web Sites](#)
- [Component Port Numbers](#)
- [Additional Documentation](#)

Component-specific Tasks

This section contains postinstallation tasks for the following topics:

- [Oracle Internet File System](#)
- [Oracle Management Server](#)
- [Oracle9iAS Database Cache](#)
- [SSL Authentication Method Configuration](#)
- [Multi-threaded Server Configuration](#)

Oracle Internet File System

You must run the Oracle Internet File System Configuration Assistant manually to configure Oracle Internet File System.

See Also: ["Oracle Internet File System Configuration Assistant"](#)
for instructions on running Oracle Internet File System
Configuration Assistant.

Oracle Management Server

You must run the Oracle Enterprise Manager Configuration Assistant manually to configure Oracle Management Server.

See Also: ["Oracle Management Server Configuration Assistant"](#)
for instructions on running Oracle Enterprise Manager
Configuration Assistant.

Oracle9iAS Database Cache

Be sure to perform the following postinstallation steps for Oracle9iAS Database Cache:

- [Setting Up the Oracle9iAS Database Cache Environment for Your Applications](#)
- [Modify the initcache.ora File](#)
- [Set NTFS File System and Windows NT Registry Permissions](#)

Setting Up the Oracle9iAS Database Cache Environment for Your Applications

When you install Oracle9iAS Database Cache, the installation procedure installs files that are specific to Oracle9iAS Database Cache and files that are updates to Oracle8i Server or Client release 8.1.6.1. These files contain the Oracle9iAS Database Cache functionality, as well as bug fixes to files usually installed with the Oracle8i Server or Client.

To use Oracle9iAS Database Cache, you must make sure that your applications are using the files and libraries installed for Oracle9iAS Database Cache. You can do this in the following ways:

- Run your application from the Oracle Home in which you installed Oracle9iAS Database Cache. This is the supported method.

See Also: ["Using the Oracle9iAS Database Cache Home"](#) for a description of the steps you must take.

- If you have multiple Oracle homes and you need to run your application from the Oracle home for Oracle8i Server or Client release 8.1.6 or 8.1.6.1, you must copy files from the Oracle9iAS Database Cache Oracle home to the Oracle8i Server or Client Oracle home.

See Also: ["Using a Previous Oracle8i Release 8.1.6 Oracle Home"](#) on page 5-37 for a description of the steps you must take.

- If your application was compiled and linked using a release prior to Oracle8i Server or Client release 8.1.6, you must relink your application using the OCI libraries that are installed by Oracle9iAS Database Cache.

See Also: ["Relinking Applications That Use Releases Previous to Release 8.1.6"](#) on page 5-38 for more information.

Using the Oracle9iAS Database Cache Home

To run your application from the Oracle home in which you installed Oracle9iAS Database Cache, you must take the following steps:

1. From the process in which you will run your application, set the following environment variables:
 - Set `ORA_OCI_CACHE` to "1" so that all applications started from the process will use the cache. (Alternatively, you can use parameters within OCI applications to control which applications or statements use the cache.

See Also: *Oracle9iAS Database Cache Concepts and Administration Guide* in the Oracle9i Application Server Documentation Library.

 - If you use the environment variable `TNS_ADMIN`, make sure that it is set to the `ORACLE_HOME\network\Admin` directory in the Oracle home for Oracle9iAS Database Cache.
 - Set the value of the environment variable `PATH` so that the Oracle9iAS Database Cache library directory (`ORACLE_HOME\lib`) precedes other Oracle library directories.
 - If you use the `CLASSPATH` environment variable, set it to the Oracle home in which you installed Oracle9iAS Database Cache.
2. If you use the environment variable or registry parameter `TNS_ADMIN`, make sure that it is set to the `ORACLE_HOME\network\Admin` directory in the Oracle home for Oracle9iAS Database Cache. The registry parameter is located in the following location:

`HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE\HOME id`

3. From the Start menu, select Oracle for Windows NT -> Oracle Home Selector. Then, select the Oracle home in which you installed Oracle9iAS Database Cache.
4. If your application was running previously on the node on which you installed Oracle9iAS Database Cache and the application connected to the origin database by using an entry in an existing `tnsnames.ora` file, you must copy that entry to the `tnsnames.ora` file used by Oracle9iAS Database Cache.

The `tnsnames.ora` file is located in the `ORACLE_HOME\network\Admin` directory. Copy the entry from the file in the previously existing Oracle home to the `tnsnames.ora` file in the Oracle home in which you installed Oracle9iAS Database Cache.

Note that the Oracle9iAS Database Cache installation creates an entry for the origin database in the `tnsnames.ora` file on the local cache node. It assigns the alias `ora_ocache_origin`. Do not modify or delete the `ora_ocache_origin` entry. To assign a different alias for another purpose, edit the `tnsnames.ora` file and add another entry. The Oracle9iAS Database Cache installation also creates an entry, `ora_ocache`, for the cache. Do not modify or delete this entry.

Using a Previous Oracle8i/Release 8.1.6 Oracle Home

If you previously ran your application from the Oracle home for Oracle8i Server or Client release 8.1.6 or 8.1.6.1 and you continue to need to run your application from that Oracle home, you must take the following steps:

Note: Use this method only if you cannot use the Oracle home for Oracle9iAS Database Cache. Do not use this method if your application ran from a release later than 8.1.6.1.

See Also: ["Using the Oracle9iAS Database Cache Home"](#) on page 5-36 for the recommended method.

1. Copy the following library files from the Oracle home in which you installed Oracle9iAS Database Cache to the Oracle home for the Oracle8i server or client that your application uses:
`ORACLE_HOME\bin\oraclient8.dll`
`ORACLE_HOME\bin\orageneric8.dll` (not required for 8.1.6.1)
`ORACLE_HOME\bin\orawtc8.dll`
`ORACLE_HOME\bin\orawtc8.lib`
2. From the Start menu, select Oracle for Windows NT -> Oracle Home Selector. Then, select the Oracle home for the Oracle8i server or client that your application uses.
3. Copy the SQL*Plus executable file from the Oracle home in which you installed Oracle9iAS Database Cache to the Oracle home for the Oracle8i server or client that your application uses.
4. Set the value of the environment variable `ORA_OCI_CACHE` to "1" so that all applications started from the process will use the cache. (Alternatively, you can use parameters within OCI applications to control which applications or statements use the cache.)

5. If you use the environment variable or registry parameter `TNS_ADMIN`, make sure it points to the Oracle home that your application uses.
6. Copy the entries in the `tnsnames.ora` file from the Oracle home in which you installed Oracle9iAS Database Cache to the `tnsnames.ora` file in the Oracle home for the Oracle8i server or client that your application uses.

Relinking Applications That Use Releases Previous to Release 8.1.6

If your application was compiled and linked using a release prior to Oracle8i Server or Client release 8.1.6, you must relink your application using the OCI libraries that are installed by Oracle9iAS Database Cache.

Then, you must take the steps described in ["Using the Oracle9iAS Database Cache Home"](#) on page 5-36.

Modify the `initcache.ora` File

The Oracle9iAS Database Cache installation creates a cache using the same database character set as the origin database. However, it does not set other National Language Support (NLS) features, such as date format or currency symbols.

If the initialization file (`initSID.ora`) of your origin database specifies NLS parameters, you must copy those parameters to the initialization file (`initcache.ora`) of the cache. (NLS parameters begin with "NLS_".)

For example, if the initialization file of your origin database contains the following parameters, copy them to `initcache.ora`:

```
NLS_LANGUAGE = JAPANESE
NLS_CALENDAR = "Japanese Imperial"
NLS_DATE_FORMAT = "E YY-MM-DD"
```

`initcache.ora` is located in the `ORACLE_HOME\Admin\icache\pfile` directory.

Set NTFS File System and Windows NT Registry Permissions

Oracle Corporation recommends that you configure Oracle9iAS Database Cache files, directories, and registry settings to allow only authorized database administrators to have full control. The following sections describe how to perform these tasks.

See your Windows NT documentation for more information about modifying NTFS file system and Windows NT registry settings.

NTFS File System Security

Oracle9iAS Database Cache uses files to store data and configuration information. To do this, the Oracle9iAS Database Cache process runs under a security account. This security account (the account under which you installed Oracle9iAS Database Cache) includes the ability to create and access these files. The security account is assigned to the service that Oracle9iAS Database Cache 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. From Windows NT Explorer, select Oracle9iAS Database Cache executables and dynamic link libraries (in `ORACLE_HOME\bin`), Oracle9iAS Database Cache directories, and files for the cache (in `ORACLE_HOME\db`s).
2. Right-click and select **Properties**.
3. Adjust the file and directory permissions to ensure that:
 - Only the security account 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 the necessary executables (for example, `sqlplus.exe` for SQL*Plus)

Windows NT Registry Security

Oracle Corporation recommends that you remove write permissions in the NT registry from users who are not DBAs or system administrators.

To remove write permissions:

1. From the Windows NT **Start menu**, select **Run**. For **Open**, type **regedt32**.
2. Select the key `HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE`.
3. From the **Security menu**, select **Permissions**.
4. In the Registry Key Permissions dialog box, remove write permissions from any users who are not Oracle9iAS Database Cache DBAs or system administrators. Note that the SYSTEM account must have Full Control.
5. Ensure that user accounts that must run Oracle applications have read privileges.
6. Click **OK**.
7. Exit the registry.

SSL Authentication Method Configuration

This section guides you through configuring SSL for Oracle9iAS Database Cache, Oracle Servlets Engine for Java, Distributed CORBA Applications, and Enterprise JavaBeans.

These steps guide you through the SSL configuration for the following:

Oracle9iAS Database Cache

To configure Oracle9iAS Database Cache to use SSL, remove the comment characters (#) from the following entry in the `listener.ora` file:

For secure connections over SSL, uncomment the following lines:

```
# (DESCRIPTION = # Secure TCP connections
#       (ADDRESS =
#         (PROTOCOL = TCPS) (HOST = host_name) (PORT = 2484)
#       )
# )
```

The listener will listen for all SSL requests.

Oracle Servlets Engine for Java

To configure Oracle Servlets Engine for Java to use SSL, (in addition to removing the comment characters from the appropriate line in the initialization file) you must remove the comment characters (#) from the following entry in the `tnsnames.ora` file:

```
# Support for mod_ose over TCP with SSL connections.
# instl_https =
#   (DESCRIPTION =
#     (ADDRESS =
#       (PROTOCOL=TCPS)
#       (HOST=host_name)
#       (PORT=2484)
#     )
#     (CONNECT_DATA=
#       (SERVICE_NAME=MODESE)
#       (SERVER=shared)
#       (PRESENTATION=http://admin)
#     )
#   )
```

Distributed CORBA Applications and Enterprise JavaBeans

To configure distributed CORBA application and Enterprise JavaBeans to use SSL, (in addition to removing the comment characters from the appropriate line in the initialization file) you must remove the comment characters (#) from the following entry in the `listener.ora` file:

For secure IIOP connections over SSL, uncomment the following lines:

```
# (DESCRIPTION = # Secure IIOP Connections
#   (PROTOCOL_STACK =
#     (PRESENTATION=GIOP)
#     (SESSION=RAW)
#   )
#   (ADDRESS=(PROTOCOL=TCPS)(HOST=% s_host_name%)(PORT=2482))
# )
```

Multi-threaded Server Configuration

These steps guide you through configuring Oracle9iAS Database Cache as a Multi-threaded server for Oracle Servlets Engine for Java, Distributed CORBA Applications, and Enterprise JavaBeans:

Oracle Servlets Engine for Java

To configure Oracle9iAS Database Cache as a multi-threaded server (MTS) for Oracle Servlets Engine for Java, you must make one or both of the following changes to your initialization file (`instSID.ora`):

- For standard connections, remove the comment character (#) from the following line:

```
# mts_dispatcher = "(PROTOCOL=TCP)(SERV=MODESE)"
```

- To use the secure socket layer (SSL) authentication method, remove the comment character (#) from the following line:

```
# mts_dispatcher = "(PROTOCOL=TCPS)(SERV=MODESE)"
```

For information on enabling SSL for Oracle9iAS Portal, refer to *Oracle Portal 3.0.8 Configuration Guide*.

Distributed CORBA Applications and Enterprise JavaBeans

To configure Oracle9iAS Database Cache as a multi-threaded server (MTS) for distributed CORBA applications and Enterprise JavaBeans, you must make the following changes in your initialization file (`instSID.ora`):

- Remove the comment character (#) from the following line:

```
# mts_dispatcher = "(PROTOCOL=TCP)(PRE=oracle.aurora.server.SGiopServer)"
```

- To use the secure socket layer (SSL) authentication method, remove the comment character (#) from the following line:

```
# mts_dispatcher = "(PROTOCOL=TCPS)(PRE=oracle.aurora.server.SGiopServer)"
```


Starting and Stopping Components

You can manually start and stop a component by doing the following:

1. For Windows NT, go to the **Control Panel**, open **Services**. For Windows 2000, go to the **Control Panel**, to **Administrative Tools**, open **Services**.
2. In **Services**, select the service then click **Start** or **Stop** for desired result.

[Table 5–1](#) lists the service names for the Oracle9i Application Server components.

Table 5–1 Starting and Stopping Components

Component	Service Name
Oracle9iAS Database Cache	OracleiSuiteDataGatherer OracleServiceicache OracleWTCicache
Oracle9iAS Discoverer	OracleDiscoverer4i
Oracle9iAS Forms Services	Oracle Forms Server [Forms60Server] Oracle_Load_Balancer_60_Client-Oracle_806 Oracle_Load_Balancer_60_Server-Oracle_806
Oracle9iAS Reports Services	Oracle Reports Server [Reports_machine_name]
Oracle9iAS Web Cache	OracleiSuitesWebCache OracleiSuitesWebCacheAdmin
Oracle9iAS Wireless Web Integration Server	Oracle Web Integration Server
Oracle HTTP Server	OracleiSuitesHTTPServer OracleiAS_6iServerClientCache80 OracleiAS_HomeTNSListener OracleiSuitesAgent OracleiSuiteTNSListener OracleiSuiteAgent
Oracle Management Server	OracleiSuitesManagementServer OracleiSuitesPagingServer

<p>Note: Use the following commands for Oracle Internet File System: Setting Environment: ifsl.bin\ifsend.bat and ifsl.1\bin\ifsconfig.bat Start: ifsl.1\bin\ifstart.bat Stop: ifsl.1\bin\ifstop.bat</p>

Component Web Sites

Table 5–2 lists Web sites for Oracle9i Application Server components.

Table 5–2 Component Web sites

Component	Web Site
Oracle9iAS Discoverer Viewer	http://hostname.domain:listener_port/discoverer4i/viewer
Oracle9iAS Discoverer Plus	http://hostname.domain:listener_port/discwb4/html/english/welcome.htm
Oracle9iAS Forms Services	http://hostname.domain:listener_port/dev60html/runform.htm
Oracle9iAS Portal	http://hostname.domain:listener_port/pls/portal30
Oracle9iAS Reports Services	http://hostname.domain:listener_port/dev60html/runrep.htm
Oracle9iAS Wireless Web Integration Server	http://hostname.domain:5555 (Log on as Administrator/manage)
Oracle9iAS Web Cache	http://hostname.domain:4000 (Log on as Administrator/Administrator)
Oracle HTTP Server Oracle HTTP Server (SSL-enabled)	http://hostname.domain:listener_port https://hostname.domain:listener_port
Oracle Internet File System	http://hostname.domain:listener_port/ifs/files (Log on as system/manager)
Oracle Management Server	http://hostname.domain:3339

Component Port Numbers

Table 5–3 lists the default port numbers on which requests are received for each component.

Table 5–3 Port Numbers

Components	Port Number
Oracle9iAS Database Cache Oracle9iAS Database Cache TNS Listener Oracle9iAS Database Cache <code>-wtcme</code> process Oracle9iAS Database Cache Data Gatherer <code>-vppdc</code> process	51719 TCP/IP: 1521, IIOP: 2481 51719, 51720 1808, 1809
Oracle9iAS Discoverer	Oracle9iAS Discoverer uses the same port number as Oracle HTTP Server
Oracle9iAS Forms Services Load Balancer Client Load Balancer Server	9001 9011 9021
Oracle9iAS Portal	Oracle9iAS Portal uses the same port number as Oracle HTTP Server
Oracle9iAS Reports Services	1950
Oracle9iAS Web Cache Oracle9iAS Web Cache Administration Port Oracle9iAS Web Cache Invalidation Port Oracle9iAS Web Cache Statistics Port	1100 4000 4001 4002
Oracle9iAS Wireless Oracle9iAS Wireless Web Integration Server	Oracle9iAS Wireless uses the same port as Oracle HTTP Server 5555
Oracle HTTP Server Oracle HTTP Server (SSL-enabled) Oracle HTTP Server Jserv Servlet Engine	For information on port numbers, refer to "Port Allocation" on page 2-12. 8007
Oracle Internet File System	Oracle Internet File System uses the same port number as Oracle HTTP Server FTP: 21 SMB: 139 SMTP: 2500 IMAP: 143 CUP: 4180
Oracle Enterprise Java Engine TNS Listener	TCP/IP: 1521 IIOP: 2481
Oracle Management Server	7771, 7772, 7773

Additional Documentation

For further information on postinstallation and configuration tasks, refer to component-specific documentation. For information on viewing and installing the documentation, refer to [Appendix F, "Installing Documentation Library"](#).

Non-Interactive Installation

This chapter guides you through the non-interactive installation of Oracle9i Application Server. The topics include:

- [Introduction](#)
- [Setting a Response File](#)
- [Specifying a Response File](#)
- [Error Handling](#)
- [Validation of Values from Response File](#)

Introduction

You can perform a non-interactive installation of Oracle9i Application Server by supplying the Oracle Universal Installer with a *response file*. The installer uses the variables and values contained in this text file to provide answers to some or all of the installer user prompts. If you include responses for all of the installer prompts in the response file, then you can run a “silent” installation that displays no graphical output.

Requirements

For a complete list of requirements, refer to [Chapter 1, "Requirements"](#).

In addition, install the following operating system patches:

- MDAC (Microsoft Data Access Components) 2.50.4403.12. This patch is available at <http://www.microsoft.com>.
- Patch 40comupd.exe. This patch is available on Oracle9i Application Server Disk 1 at `Install\Win32\40comupd.exe`

Setting a Response File

There are multiple Oracle Universal Installer response files depending on your installation type. These files are included on the Oracle9i Application Server, Release 1 (v1.0.2.2) CD-ROM. You will need to edit the response file to suit your installation option. The following sections describe configuring the response files for your installation type:

- [Minimal and Standard Editions](#)
- [Enterprise Edition](#)

Minimal and Standard Editions

To use a response file, copy the response file from the Oracle9i Application Server CD-ROM to a drive mounted on your system. For example:

```
prompt> copy cdrom_drive\Silent\install_type response_file local_directory
```

Edit the response file you want to use with any text editor to include information specific to your system. Each file contains instructions for properly configuring the response file. [Table 6–1](#) lists the response files included on the Oracle9i Application Server CD-ROM.

Table 6–1 Response Files

Oracle9i Application Server installation option	File Name
Minimal Edition	oracle.ias.silent.toplevel.Minimal.rsp
Standard Edition	oracle.ias.silent.toplevel.Standard.rsp

Enterprise Edition

If you are installing Oracle9i Application Server, Enterprise Edition, then the silent installation process requires additional steps. Since Enterprise Edition contains 8.0.6 RSF based components in addition to Oracle8i products, these additional steps are required to ensure that Oracle9i Application Server is installed properly.

Following are the additional steps required to install Oracle9i Application Server, Enterprise Edition:

1. Create the 8.1.7 Oracle home directory on your hard drive.
2. Make a directory named `Orainst` in the Oracle home directory.
3. Copy the contents of the `\Silent\Enterprise` directory on Oracle9i Application Server Disk 1 to the `Orainst` directory created in Step 2.
4. Populate all `.ini`, `.rsp`, and `.reg` files in the `Orainst` directory with the appropriate values. Use the following values for the Oracle home parameters:

Parameter(s)	Value
%ORACLE_HOME% %817_ORACLE_HOME% %ORA_817_HOME%	The directory you are installing the main Oracle9i Application Server components. For example: E:\Oracle\iSuites
%Default_Home_Name%	The directory you are installing the 8.0.6 RSF based components. For example: E:\Oracle\806

Note: In `default.reg`, you only need to change the following line:

```
"DEFAULT_HOME"="%Default_Home_Name%"
```

For example,

```
"DEFAULT_HOME"="E:\Oracle\iSuites"
```

5. Run `silent.bat` from the `Orainst` directory to begin the silent installation process.

Specifying a Response File

To make the installer use the response file at install time, follow the same steps to launch the installer, but specify the location of the response file that you wish to use as a parameter when starting the installer. To make a configuration assistant use a response file, invoke it at the command line using the same parameters.

See Also: ["Starting Oracle Universal Installer"](#) on page 2-26

```
prompt> Setup.exe [-silent] -responseFile absolute_path_and_filename
```

To perform a completely silent installation or configuration session, use the `-silent` parameter.

Note: Be sure to run `setup.exe` that is located in `cdrom_drive\install\win32` or after Oracle9i Application Server is installed, you can run `setup.exe` in `%ORACLE_HOME%\Orainst.`

Oracle Enterprise Manager Configuration Assistant

To run Oracle Enterprise Manager Configuration Assistant in non-interactive mode, you must use both the `-silent` and `-responseFile` parameters.

Oracle9iAS Database Cache Configuration Assistant

This tool's user input is specified with EE response file parameters `sl_dbaReturn` and `sl_connectStringReturn` as mentioned above with component `[oracle.icache.icacheca_1.0.2.2.0]`

The following steps invoke the Oracle9iAS Database Cache Configuration Assistant and complete the configuration silently.

Launch the following from the Oracle home:

```
prompt> ORACLE_HOME\bin\wtacca -create -typical -silent
        "responsefile=%ORACLE_HOME%\resp\icacheresponse.rsp"
        "username=sys" "password = <SYSDBApasswordofthesysuser>"
        "service=ora_icache_origin"
        "ntadminpw=<passwordofthentuserwithadminprivileges>"
```

Note the following:

1. The response file is already available in the above location. The user need to substitute the Oracle home value.
2. Fill the parameters flanked by `<>` with the correct value.
3. The 'ntadminpw' should be mentioned at the end.

The success or failure of the installation is logged in the `installActions.log` and `silentInstall.log` file. The log files are created in the `\Program Files\Oracle\Inventory\Logs` directory during installation.

Note: The installer or configuration assistant will fail if you attempt a non-interactive session without appropriately configuring a response file.

Error Handling

Values for variables that are of the wrong context, format, or type are treated as if no value were specified. Variables which are outside any section are ignored.

A non-interactive installation fails if no response file is specified, or if you attempt a silent installation with an incorrect or incomplete response file. If you attempt a silent installation and the installer encounters an error, such as insufficient disk space, then the installation fails. The results of your non-interactive installation is recorded in the installation session log file in `\Program Files\Oracle\Inventory\Logs`.

Validation of Values from Response File

The installer or configuration assistant performs calculation and validation of the response file at runtime. Failure of the validation process ends the installation or configuration.

Deinstallation and Reinstallation

This chapter guides you through the deinstallation and reinstallation process for Oracle9i Application Server. They are described in the following topics:

- [Deinstallation](#)
- [Reinstallation](#)

Deinstallation

The following steps guide you through the deinstallation process of Oracle9i Application Server. This process is divided into three parts:

- [Deinstalling Using Oracle Installer](#) (only if you have installed Enterprise Edition)
- [Deinstalling Oracle9iAS Database Cache](#) (only if you have installed Enterprise Edition)
- [Deinstalling Oracle Management Server](#) (only if you have installed Enterprise Edition)
- [Deinstalling using Oracle Universal Installer](#)

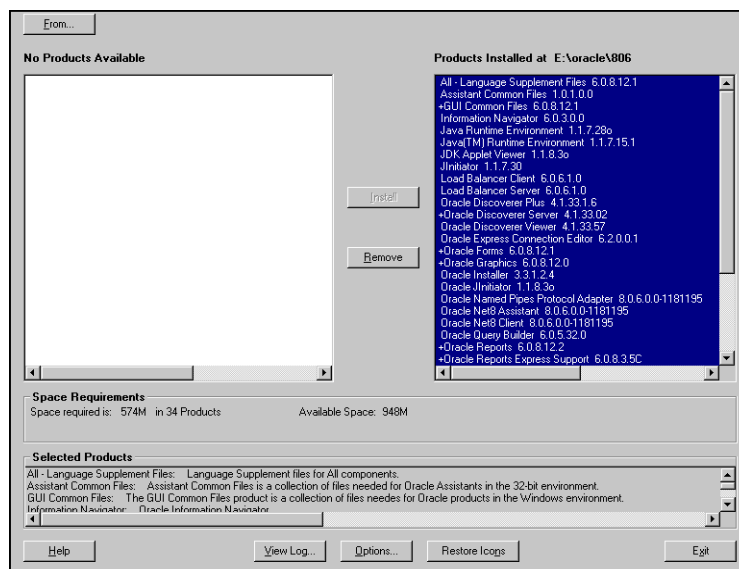
Note: Be sure to stop all services and processes before starting the deinstallation process.

Deinstalling Using Oracle Installer

Follow the instructions below to deinstall Oracle Forms Services, Oracle Reports Services, and Oracle9iAS Discoverer. Perform these steps only if you have installed Oracle9i Application Server Enterprise Edition. If you have installed Minimal or Standard Edition, proceed directly to ["Deinstalling using Oracle Universal Installer"](#) on page 7-11.

1. Launch Oracle Installer from **Start Menu > Programs > Oracle for Windows NT > Oracle Installer**.
2. When Oracle Installer launches, the Software Asset Manager appears. Hold down the **Control** key and click on each installed component, except for Oracle Installer. Once all components are selected, click **Remove**.

Figure 7–1 Software Asset Manager



The Software Asset Manager allows you to deinstall components. Be sure to scroll down to select all installed components. When you click **Remove**, a dialog appears asking you if you want to remove the selected components. Click **Yes**. When all the components are deinstalled, quit the installer by clicking **Exit**.

You have successfully deinstalled Oracle Forms Services, Oracle Reports Services, and Oracle9iAS Discoverer. Continue the deinstallation process.

Deinstalling Oracle9iAS Database Cache

If you have installed the Enterprise Edition of Oracle9i Application Server, then you must perform the additional steps. If you have installed Standard or Minimal edition of Oracle9i Application Server, then proceed directly to ["Deinstalling using Oracle Universal Installer"](#) on page 7-11.

1. Make sure the cache is started. If it is not, then start the cache using the Cache Manager or start the following Windows NT services for Oracle8i Cache.

```
OracleServiceicache  
OracleWTCiCache  
Oracle_homeDataGatherer  
Oracle_homeTNSListener
```

2. Run the Configuration Assistant, specifying the `-deinstall` option:

```
prompt> wtacca -deinstall
```

Deinstalling Oracle Management Server

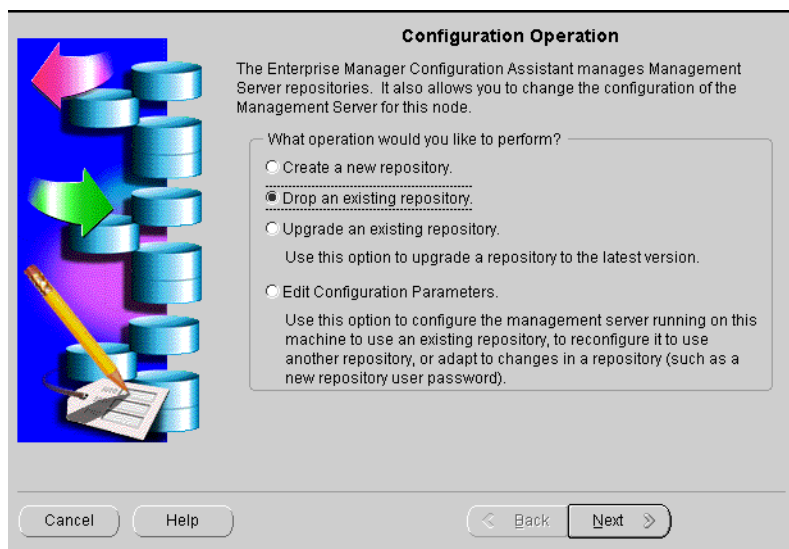
Perform the following steps to deinstall Oracle Management Server. If you have installed Standard or Minimal edition of Oracle9i Application Server, then proceed directly to ["Deinstalling using Oracle Universal Installer"](#) on page 7-11.

1. Launch the Oracle Management Server Configuration Assistant using the following command:

```
prompt> ORACLE_HOME\bin\emca.bat
```

2. The Configuration Operations screen appears. Click on **Drop** an existing repository, and click **Next**.

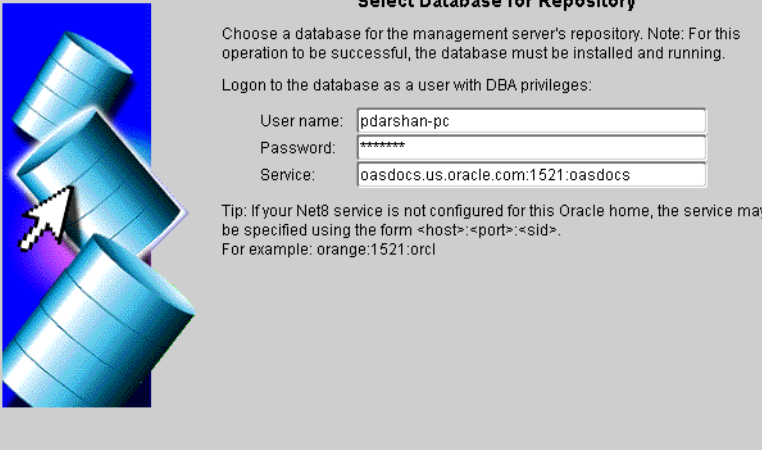
Figure 7-2 Configuration Operation Screen



Configuration Operation Screen allows you to create, drop, or upgrade a repository. It also enables you to edit your configuration parameters.

3. Enter the username, password, and service name of your existing repository, and click **Next**.

Figure 7–3 Select Database for Repository



Select Database for Repository

Choose a database for the management server's repository. Note: For this operation to be successful, the database must be installed and running.

Logon to the database as a user with DBA privileges:

User name:

Password:

Service:

Tip: If your Net8 service is not configured for this Oracle home, the service may be specified using the form <host>:<port>:<sid>.
For example: orange:1521:orcl

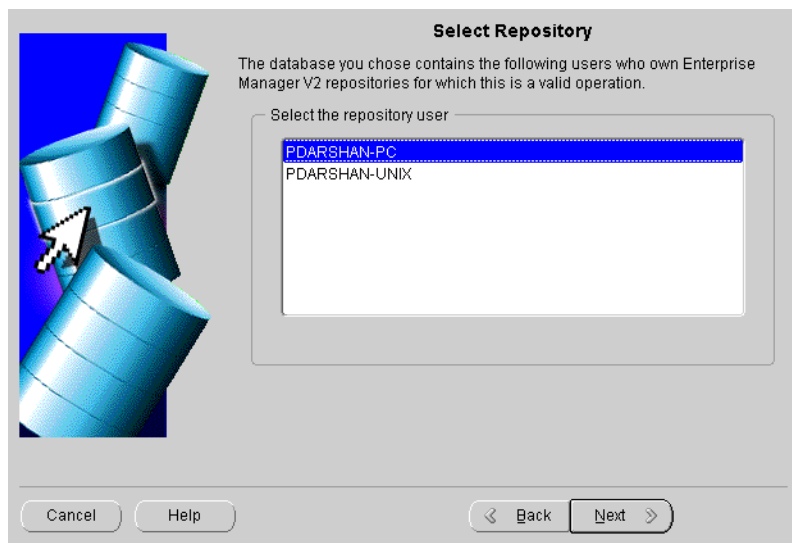
Cancel Help < Back Next >

Select Database for Repository screen allows you to enter database information for the management server's repository. Be sure to log in as a user with DBA privileges.

- **User name:** Enter a user name, with DBA privileges.
- **Password:** Enter the password for the username.
- **Service:** Enter the *host:port:SID* for the database.

4. Select the appropriate user who owns the repository you wish to drop, and click **Next**.

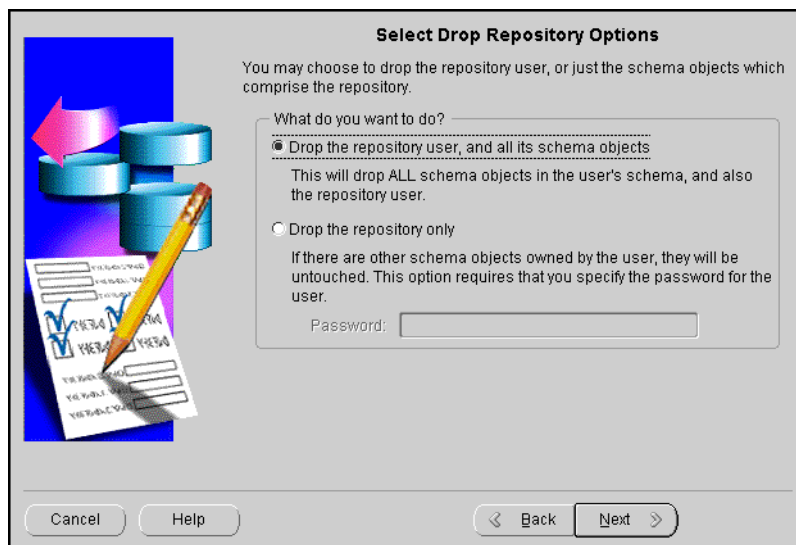
Figure 7–4 Select Repository



The Select Repository screen displays the users own repositories in the database you selected.

5. Choose to drop the repository user, and all its schema objects, or the repository only, and click **Next**.

Figure 7–5 *Select Drop Repository Options*

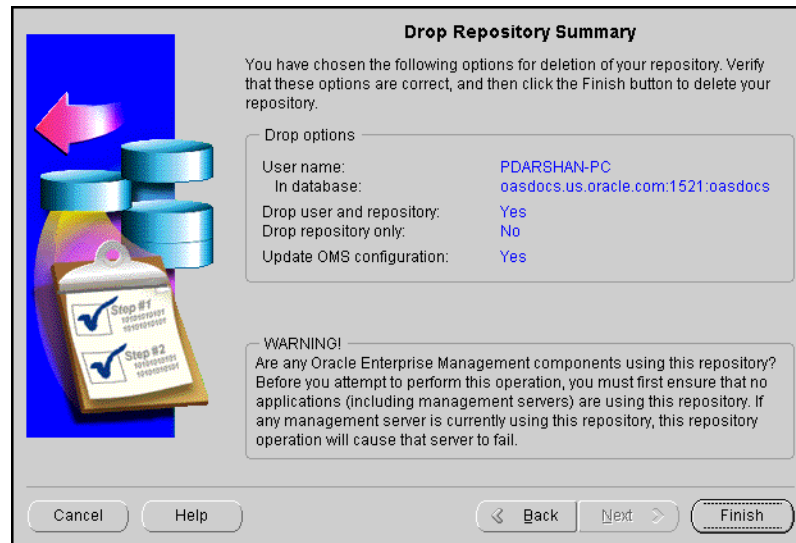


The Select Drop Repository Options gives you the following options:

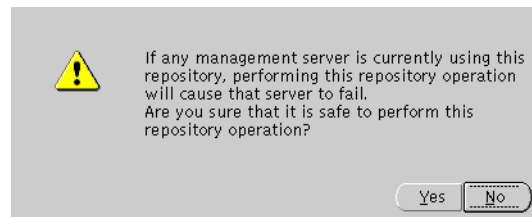
- **Drop the repository user, and all its schema objects:** You do not require a password to perform this action.
- **Drop the repository only:** You must supply the repository user password so that the configuration assistant can connect to the repository in order to invoke the drop scripts. Only the repository objects are dropped. Other schema objects in the repository remain.

6. Verify the information, and click **Finish**.

Figure 7–6 Drop Repository Summary

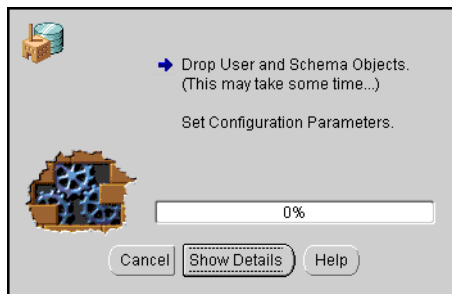


The Drop Repository Summary displays the options you have selected in the previous screens. Verify the information. If you wish to make changes, click the **Back** button. Once you click **Finish**, the following warning screen appears.



Be sure that the management server is not using the selected repository, and click **Yes**.

7. The screen indicates the progress of the deinstallation process.



Click on **Cancel** to cancel the deinstallation process, and **Show Details** to display details of the process.

You have successfully deinstalled Oracle Management Server.

Proceed to "[Deinstalling using Oracle Universal Installer](#)" on page 7-11.

Deinstalling using Oracle Universal Installer

1. Launch the Oracle Universal Installer from **Start Menu > Programs > Oracle Installation Products > Oracle Universal Installer**.

Once Oracle Universal Installer is launched, Welcome screen appears. Click on **Deinstall Products**.

Figure 7-7 Welcome Screen



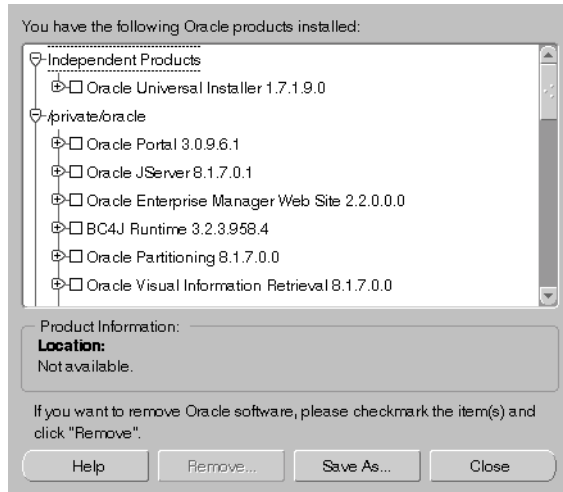
The Welcome screen provides information about Oracle Universal Installer.

The installer provides you with two ways to deinstall products:

- **Deinstall Products:** To deinstall individual components or the entire product.
- **Installed Products:** To view currently installed products and deinstall individual components or the entire product.

2. Review all installed components and check the ones you wish to deinstall. Click **Remove**.

Figure 7–8 Inventory Screen



The Inventory screen appears when you click **Deinstall Products** on the Welcome screen, or **Installed Products** on any screen.

The Inventory screen displays all the components installed in Oracle home.

The following buttons and product information appear on the Inventory screen:

- **Help:** To access detailed information about the functionality of the Inventory screen.
- **Remove:** To deinstall all checked components from Oracle home.
- **Save As:** To save the inventory as text. A file browser dialog pops up when you click **Save As**. Accept a file name and the complete inventory list as displayed by the inventory screen will be logged into this file as text.
- **Close:** To quit the Inventory screen.
- **Location:** To view the full location path of the selected component.

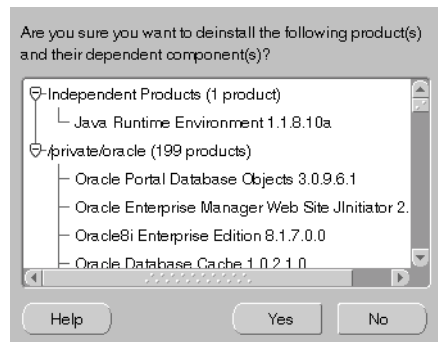
Note: The “+” sign before a product name indicates that there are more components and files installed within that particular product. Click on it to view dependent components. If you choose to remove a product or component, then all of its dependent components and files are also deinstalled.

If you wish to deinstall Oracle9i Application Server completely, check the box displayed before the product name, which is listed directly below the Oracle home name.

Note: If you deinstall a product or component, then all of its dependent components and files will also be deinstalled.

3. Verify the components selected for deinstallation, and click **Yes**.

Figure 7–9 Confirmation Screen



The Confirmation screen lists all the components selected for deinstallation in the previous step. Scroll down the screen to verify selected components.

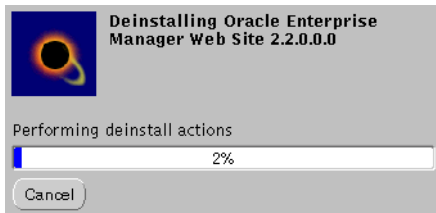
Note: Oracle Universal Installer does not deinstall all the files and directories during deinstallation. These must be deleted manually.

The following buttons appear on the Confirmation screen:

- **Help:** To access detailed information about the functionality of the Confirmation screen.
- **Yes:** To start deinstallation of listed components.
- **No:** To return to the Inventory screen. Listed components are not removed from Oracle home.

4. Monitor the deinstallation process.

Figure 7–10 Remove Progress Bar Screen



The Remove Progress Bar screen appears when you click **Remove**. The installer detects all components chosen for deinstallation from the Inventory screen and removes them from Oracle home.

- **Cancel:** To discontinue the deinstallation process.

Note: If you deinstall a product or component, then all of its dependent components and files will also be deinstalled.

You have successfully deinstalled Oracle9i Application Server.

Reinstallation

Oracle Universal Installer does not allow reinstallation of Oracle9i Application Server over an already installed version. To reinstall Oracle9i Application Server over the same version, deinstall and then install the product.

See Also: ["Deinstallation"](#) on page 7-2

Configuration Tools

This appendix guides you through the steps required to run component-specific configuration assistants to configure Oracle9i Application Server. It contains instructions on manually launching, and running the following configuration assistants to configure the components you chose not to configure during installation:

- [Net8 Configuration Assistant](#)
- [Oracle9iAS Database Cache Configuration Assistant](#)
- [Oracle9iAS Portal Configuration Assistant](#)
- [Oracle Database Configuration Assistant](#)
- [Oracle Internet File System Configuration Assistant](#)
- [Oracle Management Server Configuration Assistant](#)

Net8 Configuration Assistant

For information on running the Net8 Configuration Assistant, refer to the *Net8 Administration Guide* in your database documentation library.

Oracle9iAS Database Cache Configuration Assistant

Before you can run the Oracle9iAS Database Cache Configuration Assistant, you need to configure the `ora_icache_origin` service manually.

1. Set the Oracle Home. From the Start Menu, select Oracle For Windows NT > Oracle Home Selector. Then, select the Oracle home in which your installed Oracle9iAS Database Cache.

2. Set the value of the `ORACLE_SID` environment variable.

```
prompt > ORACLE_SID = icache
```

3. Configure the `ora_icache_origin` service manually. The `tnsnames.ora` in the `ORACLE_HOME\network\admin` directory has the following entry after installation:

```
ora_icache_origin =
  (DESCRIPTION =
    (ADDRESS_LIST =
      (ADDRESS =
        (PROTOCOL = TCP)
        (HOST = ORIGINHostName)
        (PORT = originPortNumber>))
      )
    (CONNECT_DATA =
      (SERVICE_NAME = originServiceName)
    )
  )
```

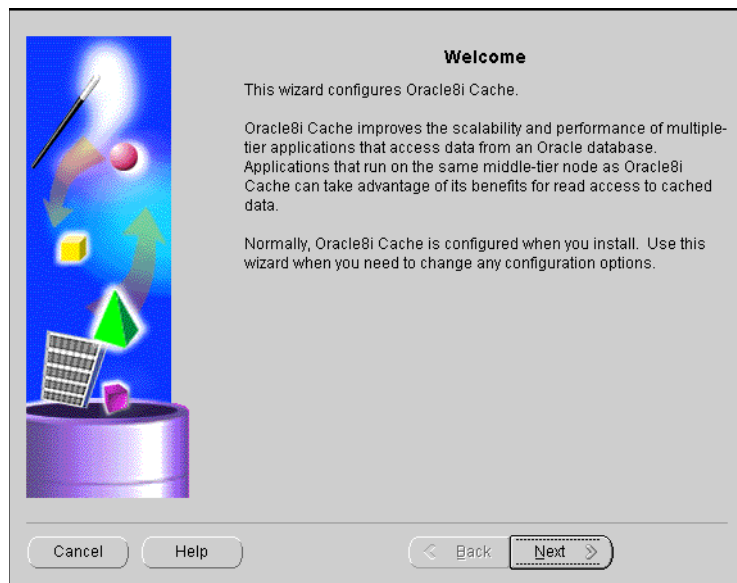
Fill in the origin host name, port and service name in `tnsnames.ora` file as per the above example before running the following command to launch the Oracle9iAS Database Cache Configuration Assistant:

```
prompt> ORACLE_HOME\bin\wtacca -create -typical
```

The following steps guide you through the Oracle9iAS Database Cache Configuration Assistant:

1. Review the Oracle9iAS Database Cache Configuration Assistant welcome screen and click **Next**.

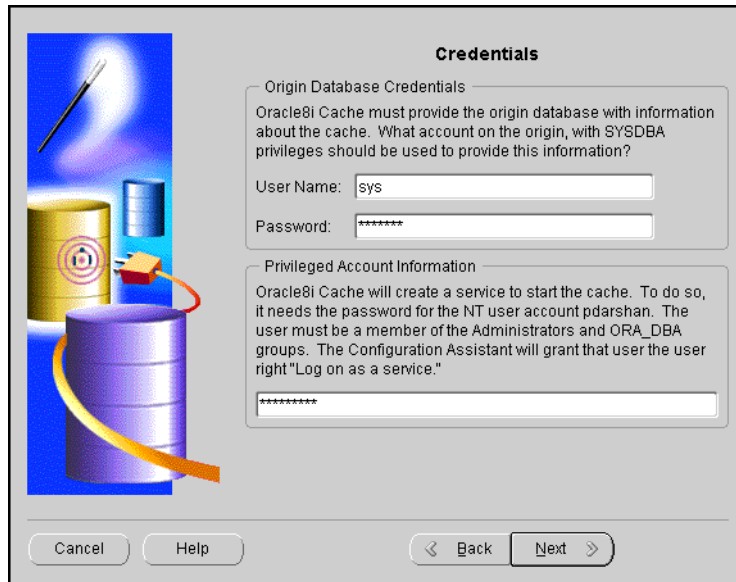
Figure A–1 *Welcome Screen*



The Welcome screen introduces you to the Oracle9iAS Database Cache Wizard.

2. Enter the privileged account information and click **Next**.

Figure A–2 *Origin Database Credentials Screen*



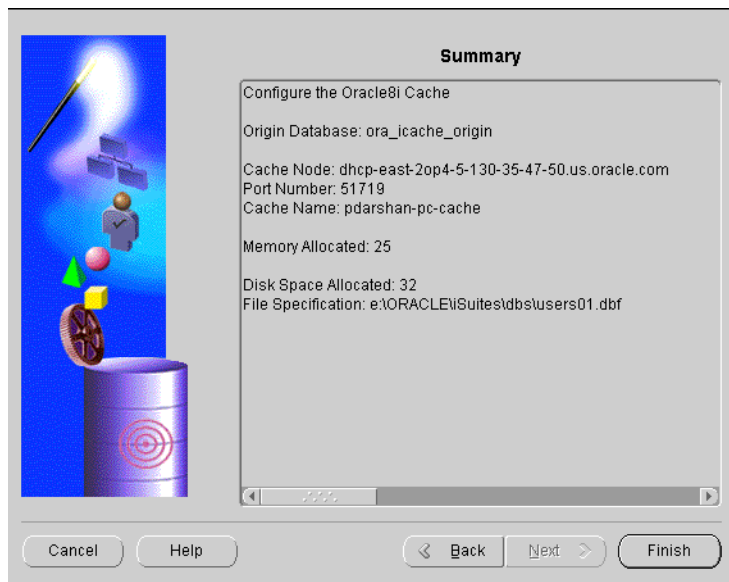
The screenshot shows the 'Origin Database Credentials' screen from the Oracle9iAS Database Cache Configuration Assistant. On the left is a graphic with a blue background, a yellow cylinder, a blue cylinder, and a purple cylinder with an orange ribbon. The main area is titled 'Credentials' and contains two sections. The first section, 'Origin Database Credentials', explains that Oracle8i Cache needs information about the origin database and asks for a user with SYSDBA privileges. It has input fields for 'User Name' (containing 'sys') and 'Password' (containing '*****'). The second section, 'Privileged Account Information', explains that Oracle8i Cache will create a service and needs the password for the NT user account 'pdarshan', who must be a member of the Administrators and ORA_DBA groups. It has a password input field containing '*****'. At the bottom are 'Cancel', 'Help', 'Back', and 'Next' buttons.

The Origin Database Credentials screen specifies the database that is the original and primary storage for the data that you cache on the middle-tier node.

- **User Name:** The name of a user on the origin database who has the SYSDBA role. This field defaults to the information you entered in the Origin Database User Information screen during installation.
- **Password:** The password of the specified user. This field defaults to the information you entered in the Origin Database User Information screen during installation.
- **Privileged Account Information:** The password for the Windows NT user who invoked the Configuration Assistant. If you enter a user name that is not valid or that does not have SYSDBA privileges, or if you enter an invalid password, the Configuration Assistant returns an error and allows you to enter another value.

3. Review the summary screen and click **Finish** to configure the cache.

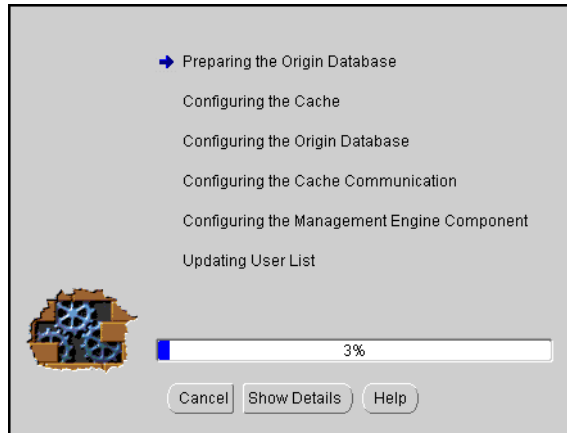
Figure A-3 Summary Screen



The Summary screen provides information about the origin database, cache node, port number, cache name, memory, disk space allocated and file specification.

4. Monitor the Configuration Assistant as it configures your cache.

Figure A–4 *Cache Configuration Assistant Progress Screen*



The Cache Configuration Assistant Progress screen informs you of the results of the configuration.

- **Show Details:** To display detailed result of the configuration.

Oracle9iAS Portal Configuration Assistant

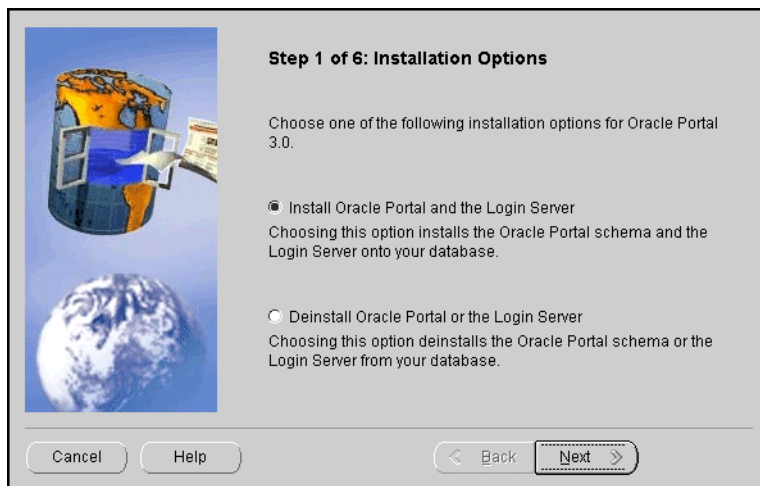
The following command launches the Oracle9iAS Portal Configuration Assistant:

```
prompt> ORACLE_HOME\assistants\opca\launch.bat
```

The following steps guide you through the Oracle9iAS Portal Configuration Assistant:

1. Choose the first installation option to install Oracle9iAS Portal and the Login Server and click **Next**.

Figure A–5 *Installation Options Screen*



The Installation Options screen allows you to install and deinstall Oracle9iAS Portal. Selecting “Install Oracle9iAS Portal and the Login Server” installs the Oracle9iAS Portal schema and the Login Server onto your database.

2. Enter the database connection information and click **Next**.

Figure A–6 Database Authentication Screen

Step 2 of 6: Identify Repository Database

To install the Oracle9iAS Portal Repository, the Configuration Assistant must connect to the database as the SYS user. Enter the SYS password and connect information for the database on which you want to install. The database must be up and running.

SYS password

Connect Information

NOTE: The format for the connect information is HOSTNAME:PORT:SID
For example, myserver:1521:orcl
The TNS names alias is not allowed for the database connection.

Cancel Help < Back Next >

The Database Authentication screen allows you to specify the database connection information granting the Configuration Assistant database access to install the Oracle9iAS Portal database objects.

Note: Be sure to connect, and store objects in the origin database or any Oracle database that you have access to. Otherwise you will get an error stating that the `sys` user is locked.

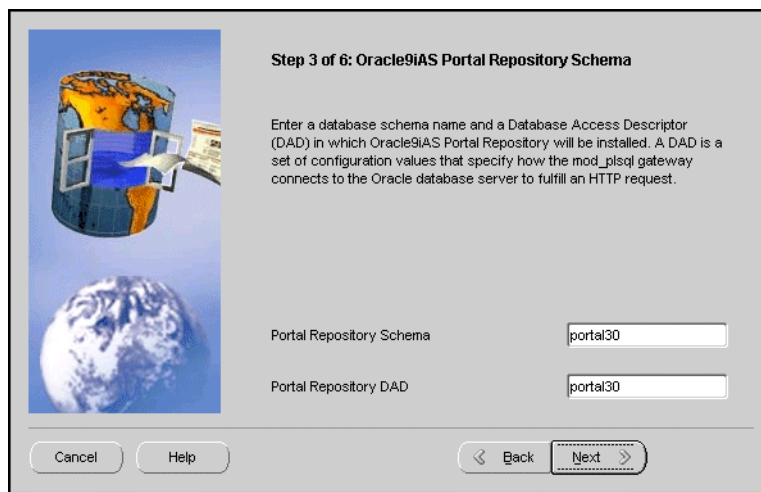
- **SYS Password:** Enter the SYS password for the database on which you want to install Oracle9iAS Portal database objects. When an Oracle database is created, the user SYS, identified by the password `CHANGE_ON_INSTALL`, is automatically created and granted the DBA role.
- **Connection Information:** Enter the connect information in the following format: `HOSTNAME:PORT:SID`

Example: `oasdocs.us.oracle.com:1521:oasdocs`

where `hostname` is the domain name and machine where you want to install Oracle9iAS Portal, `port` is the port number on which the Oracle database is running, and `SID` is the database name which uniquely identifies a node's instance.

3. Enter the Oracle9iAS Portal Schema and Oracle9iAS Portal DAD names, and click **Next**.

Figure A–7 Oracle9iAS Portal Schema Screen



Step 3 of 6: Oracle9iAS Portal Repository Schema

Enter a database schema name and a Database Access Descriptor (DAD) in which Oracle9iAS Portal Repository will be installed. A DAD is a set of configuration values that specify how the mod_plsql gateway connects to the Oracle database server to fulfill an HTTP request.

Portal Repository Schema

Portal Repository DAD

Oracle9iAS Portal Schema screen allows you to enter the Schema and DAD name. These *must* match the Oracle9iAS Portal Schema and DAD name you entered during the installation process on the Apache Listener Configuration for Oracle9iAS Portal (DAD and Schema name) screen. The default is `portal30`.

4. Enter the SSO Schema and SSO DAD names for the Login Server, and click **Next**.

Figure A–8 Single Sign-On Schema Screen



Step 4 of 6: Login Server Repository Schema

Enter a database schema name and Database Access Descriptor (DAD) in which repository for the Login Server will be installed. The Login Server provides an enterprise-wide Single Sign On mechanism that enables an Oracle9iAS Portal user to log in securely to Oracle9iAS Portal and any partner and external applications using a single user name and password.

Login Server Repository Schema

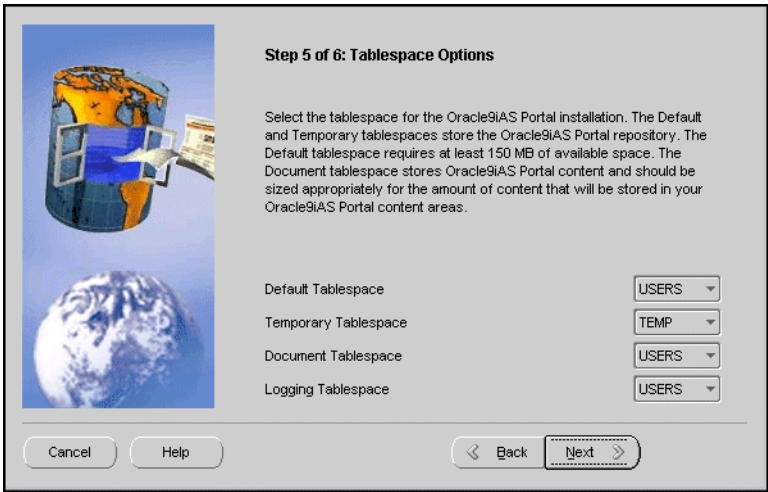
Login Server Repository DAD

Cancel Help < Back Next >

Single Sign-On Schema screen allows you to enter the SSO Schema and DAD name. These *must* match the SSO Schema and DAD name you entered during the installation process on the Apache Listener Configuration for Oracle9iAS Portal (Login Server) screen. The default is `portal30_sso`.

5. Enter the tablespace names for Oracle9iAS Portal installation. Click **Next**.

Figure A–9 *Tablespace Options Screen*



Tablespace Options screen allows you to enter the tablespace names for Oracle9iAS Portal. Choose from the list of tablespaces. For more information, refer to [Table A–1](#).

Table A–1 *Tablespace Options*

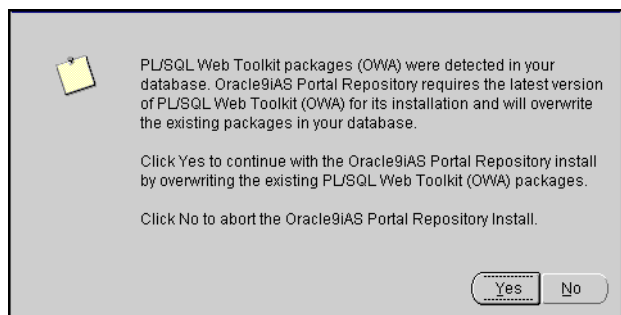
Field	Description
Default Tablespace	Used to store any database objects or components created by the Oracle9iAS Portal user. Required minimum: 150 MB
Temporary Tablespace	Improves the concurrence of multiple sort operations, reduce their overhead, or avoid Oracle space management operations altogether. Used for the creation of temporary table segments for operations performed by the Oracle9iAS Portal user such as sorting table rows.

Table A–1 Tablespace Options

Field	Description
Document Tablespaces	<p>Used to store any items uploaded onto an Oracle9iAS Portal content area. These item types can include files, images, folders, and stored procedures.</p> <p>Note: The Document Tablespace will gradually fill as users add items to Oracle9iAS Portal content area. You should choose a tablespace large enough to accommodate these additions or a tablespace that automatically extends itself. Size the document tablespaces according to the planned size of your content areas.</p>
Logging Tablespace	<p>Name of the tablespace where the logs are stored. These contain logging information such as end user requests for components and information about the time of the request, the end user who made the request, the machine and browser that was used, and when an Oracle9iAS Portal developer created or last edited the component. Additional logging information includes database storage allocated to users, objects, and tablespaces, memory allocation, object creation dates, objects created during a given time span, rollback segment attributes, session locks, redo logs, and DBMS jobs.</p>

6. Determine if you want to overwrite or keep the existing PL/SQL Web Toolkit packages. Click **Yes** or **No** accordingly.

Figure A-10 *PL/SQL Web Toolkit Screen*

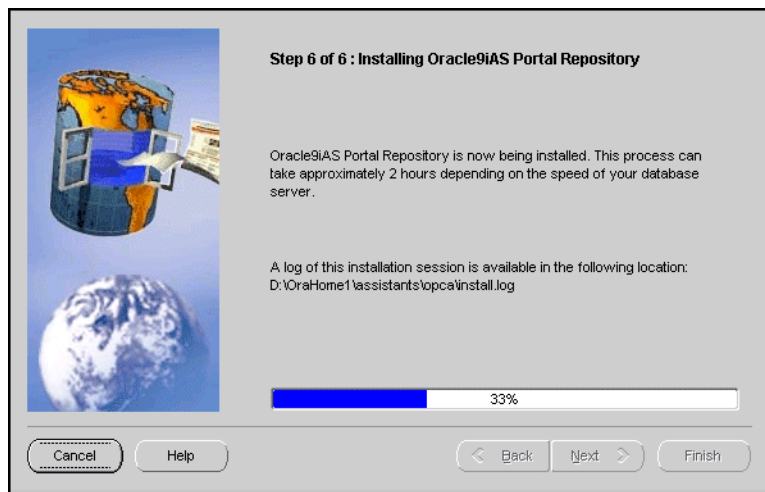


PL/SQL Web Toolkit screen appears only if the configuration assistant detects that PL/SQL Web Toolkit packages already exist on your machine. Click **Yes** to overwrite the existing packages, or click **No** to abort the Oracle9iAS Portal Repository Install.

Note: Oracle9iAS Portal requires the latest version of PL/SQL Web Toolkit packages. If you are unsure if your existing packages are compatible with PL/SQL Gateway, click **Yes** to install the correct version.

7. Monitor the progress of the configuration assistant as the database objects are installed.

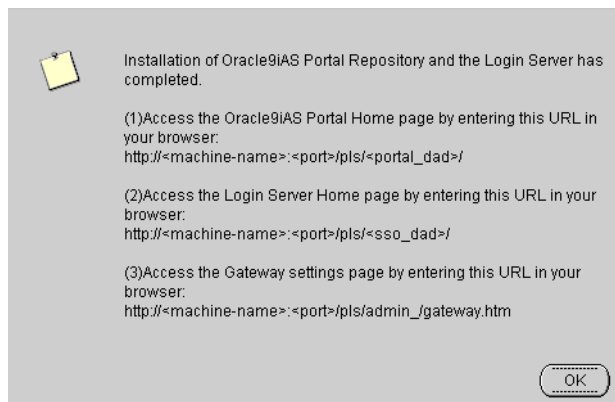
Figure A-11 *Installing Oracle9iAS Portal Screen*



Installing Oracle9iAS Portal screen displays a database objects installation progress bar. Please be patient and refrain from using your machine while this is underway. This process may take a long time to complete.

8. Make note of the information, and click **OK**.

Figure A-12 Summary Screen



Summary screen appears at the end of installation. It reveals information about accessing the Oracle9iAS Portal Home page, Login Server page and the gateway settings page. For your convenience, make note of this information before clicking **OK**.

9. An installation session log that describes the actions performed and the components installed is created. You can check the log file for ORA and PLS errors that may have occurred during installation. The log file is located in the following locations:

`ORACLE_HOME\assistants\opca\install.log`

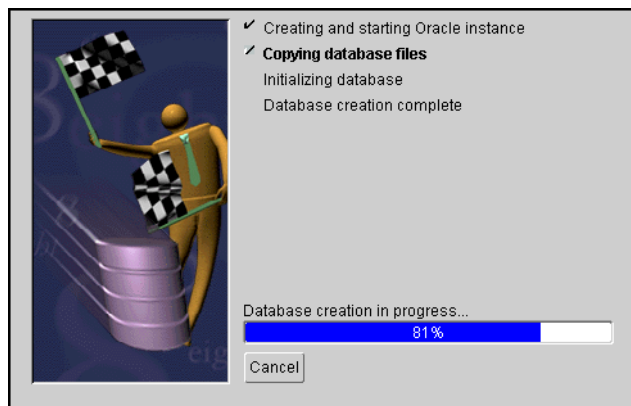
Oracle Database Configuration Assistant

The following command launches the Oracle Database Configuration Assistant:

```
prompt> ORACLE_HOME\bin\DBAssist.bat
```

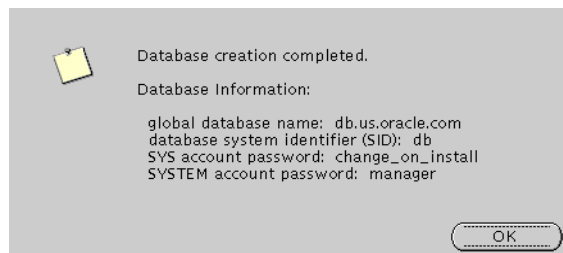
The Oracle Database Configuration Assistant creates a database that is used as a container for Oracle Enterprise Java Engine. The following screen appears as the configuration assistant creates the database:

Figure A-13 Oracle Database Configuration Assistant Screen



Oracle Database Configuration Assistant does not require any user input. Once the database creation process ends, the following screen appears.

Figure A-14 Database Information Screen



The Database Information screen displays database information such as global database name, database SID, SYS account password, and SYSTEM account password. Make a note of this information and click **OK**. You have completed the database creation process.

Oracle Internet File System Configuration Assistant

The following command launches the Oracle Internet File System Configuration Assistant:

```
prompt> ORACLE_HOME\ifs1.1\bin\ifsconfig.bat
```

Note: Be sure that the origin database is running to store the Oracle Internet File System schema. You must have a TNS name that maps to that database instance.

The following steps guide you through the Oracle Internet File System Configuration Assistant:

1. Review the Welcome screen and click **Next**.

Figure A–15 Welcome Screen



The Welcome screen introduces you to the Oracle Internet File System Configuration Assistant and allows you to review the licensing agreement before you can proceed to configure Oracle Internet File System.

2. Select the database to store Oracle Internet File System, and click **Next**.

Figure A-16 *Select Oracle Database Screen*

Select Oracle Database

Select the Oracle database where the iFS schema will be stored.

Choose whether the database server is running on this local machine or on a remote machine. (Remote Oracle database servers are identified by TNS service names.) Also enter the password for the SYS user.

☐ Oracle8i is on **THIS** machine

☒ Oracle8i is on **another** machine

Oracle Database Login

TNS service name: oasdocs.us.oracle.com

TNS service names can be edited with the Oracle Net8 Assistant.

'SYS' password: *****

The default password for the SYS user is CHANGE_ON_INSTALL.

Cancel < Back Next > Configure

Select Oracle Database screen allows you to choose where the Oracle Internet File System schema will be stored. Select whether the origin database is on the local machine or on the remote machine other than the Oracle Internet File System server machine currently being configured.

Note: Be sure to connect, and store objects in the origin database or any Oracle8i database that you have access to. Otherwise you will get an error stating that the `sys` user is locked.

If you select Oracle8i on **THIS** machine, then you will have to fill in the `SYS` password field.

If you select Oracle8i on **another** machine, then you will have to enter the TNS service name and the `SYS` password in their respective fields.

- **TNS Service Name:** This is used to identify the database server you want to use for Oracle Internet File System. The TNS Name specifies the hostname, port, protocol, and service name for the database.

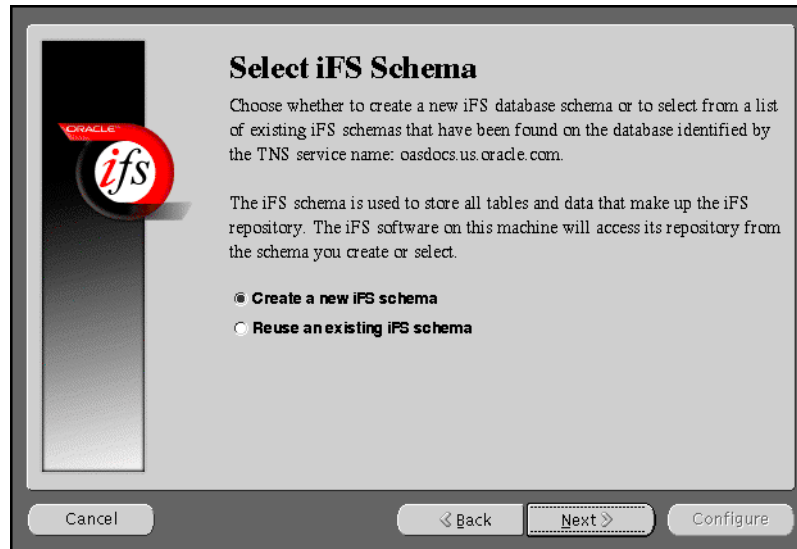
See Also: *Net8 Administration Guide* in the Oracle Database Documentation Library

- **SYS Password:** This is the password for the SYS database account.

If an error occurs, you will be required to correct the database connection information before continuing.

3. Choose to create a schema or reuse an existing one, and click **Next**.

Figure A-17 Select IFS Schema Screen



The Select iFS Schema screen allows you to either create a new iFS schema or select from a list of existing iFS schemas that have been found on the database identified by the TNS service name you specified.

If you are using an Oracle9i as the backend database

1. Use the “Re-use existing schema” option and not the “Create a new schema” option if you want to continue using your existing Oracle9i schema.
2. Use “Create an new schema” option if you want to create a new schema.
3. If you want an Oracle iFS schema from a 8.1.7 database, migrate the database to Oracle9i and then select “Re-se existing schema”.

If you are using an 8.1.7 database as the backend

1. Use “Re-use existing schema” and not “Create a new schema” if you want to continue your existing 8.1.7 based Oracle iFS schema.
2. If you want to create a new schema, select “Create a new schema” option.

If you select “Create a new iFS schema”, then click **Next** to proceed with the instructions provided.

If you select “Reuse an existing iFS schema”, then click **Next**. The following screens will appear:

- a. **Select Existing iFS Schema screen:** This screen informs you of all the existing iFS schemas found on the database identified by the TNS service name you specified. Select an existing schema from the menu and enter its password, and click **Next**.
- b. **Set iFS Options screen:** This screen allows set various iFS options. Set the necessary options, and click **Next**.
- c. **Configure iFS Email screen:** This screen provides you with options to configure your iFS email. Select the necessary options, and click **Next**.
- d. **Configuring iFS screen:** This screen displays the various configuration tasks. Click **Cancel** to stop the configuration.
- e. **iFS Configuration Completed screen:** This screen appears when the configuration completes. It prompts you to run the `ifssetup` script as an admin user. The script is located in the `ORACLE_HOME\ifs1.1\bin` directory. This script will configure your system for Oracle Internet File System email, if this option was selected.
- f. Perform the following steps to configure Oracle HTTP Server:
 Stop Oracle HTTP Server from **Services** in the Control Panel.
 Run the following script:

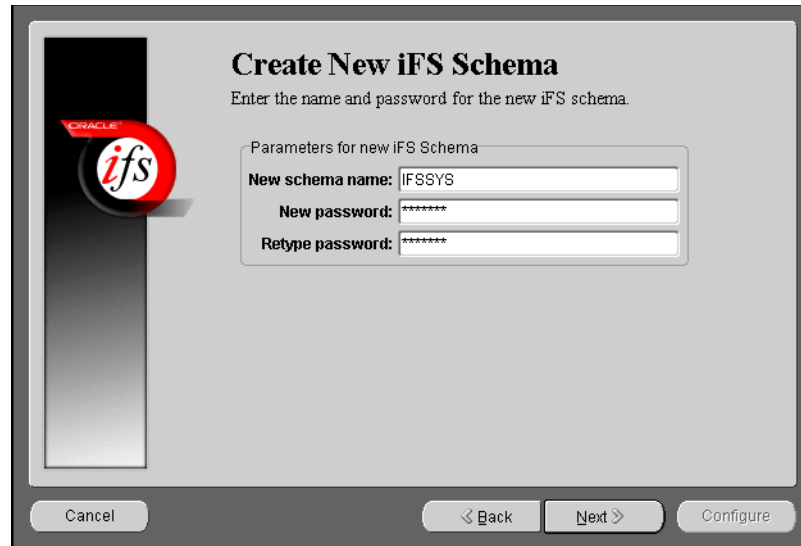
```
prompt> ORACLE_HOME\ifs1.1\bin\ifsapachesetup
```

 Be sure to run this script as the user who owns the Oracle software.
 Restart Oracle HTTP Server from **Services** in the Control Panel.
- g. Restart the Oracle Internet File System as the root user using the `ifsstart` script.

You have completed configuring Oracle Internet File System.

4. Enter an Oracle database username and password for a new schema, and click **Next**.

Figure A-18 *Create New iFS Schema Screen*



Create New iFS Schema
Enter the name and password for the new iFS schema.

Parameters for new iFS Schema

New schema name: IFSSYS

New password: *****

Retype password: *****

Cancel < Back Next > Configure

Create New iFS Schema screen allows you to specify an Oracle database username and password for the new schema.

- **New Schema Name:** Enter the Oracle database username for the new schema. The default username is `ifssys`.
- **New Password:** Enter the password for the Oracle database user for the new schema.
- **Retype Password:** Re-enter the new schema user password for confirmation.

If you choose to create a new schema with the same name as an existing schema, a warning message appears. Creating a new schema with the same name as an existing schema will drop the existing schema.

5. Set the necessary Oracle Internet File System options, and click **Next**.

Figure A–19 Set iFS Options Screen



Set iFS Options screen allows you to set certain schema options and to select a service size for your Oracle Internet File System server. There are two choices for the Oracle Internet File System server size:

- Minimum requirements
- Recommended settings

If you are creating a new Oracle Internet File System schema, then you can choose whether to use standard tablespace parameters, or to specify custom tablespace parameters.

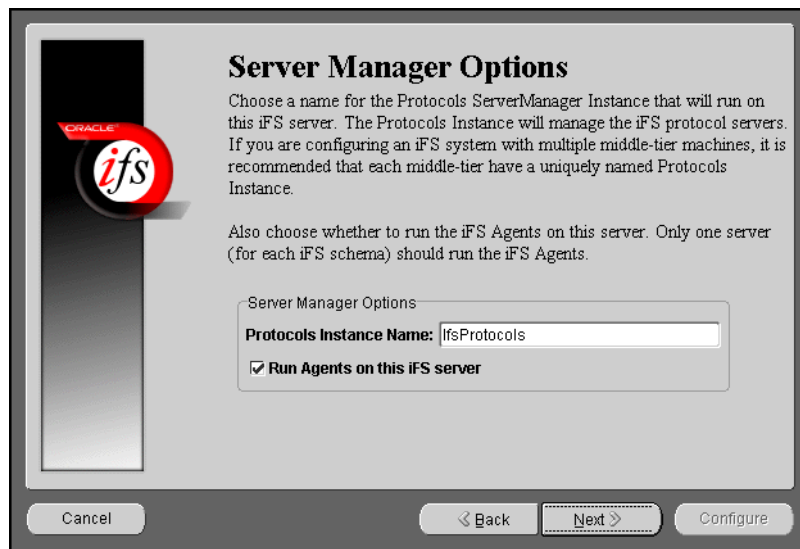
- **Standard Tablespaces:** By default, the Oracle Internet File System configuration creates six tablespaces used to store the data in the Oracle Internet File System schema. The database files for these tablespaces are placed in the same location (on the database machine) as the `SYSTEM` tablespace, which is usually found under `ORACLE_HOME\oradata\global_dbname`. Oracle recommends storing each of these tablespaces on separate disks for best performance.
 - **Primary:** Stores metadata for documents, information about users and groups, and other Oracle Internet File System data.

- **Non-Indexed Medias:** Stores the LOB data for documents that are not indexed by interMedia, such as image, audio, and video files.
- **Indexed Media:** Stores the LOB data documents that are indexed by interMedia, such as text and word processing files.
- **interMedia Index:** Stores the Oracle indexed on interMedia data.
- **interMedia Keymap:** Stores the mapping between interMedia Text information and Oracle Internet File System information.
- **interMedia Data:** Stores the interMedia data about Oracle Internet File System documents.
- **Custom Tablespaces:** Choosing the custom tablespaces option displays six additional pages where the custom tablespace information can be entered. These pages allow experienced database administrators to create customized tablespaces for Oracle Internet File System or to select existing tablespaces.
- **Partitioning Option:** Improves performance. Available only with Oracle8i Enterprise Edition.
- **interMedia Option:** If you have installed interMedia Text, then select this option to use interMedia Text for searching document contents.
- **CTXSYS:** If you choose the interMedia Text option, then enter the password for the interMedia CTXSYS account. The default password is **CTXSYS**.

If you have chosen to use interMedia Text, the Configuration Assistant will verify the interMedia configuration when you click the **Next** button. If an error occurs, then you will not be able to choose the interMedia Text option unless you rectify the error.

6. Enter the Protocol Instance Name, and click **Next**.

Figure A-20 *Server Manager Options Screen*

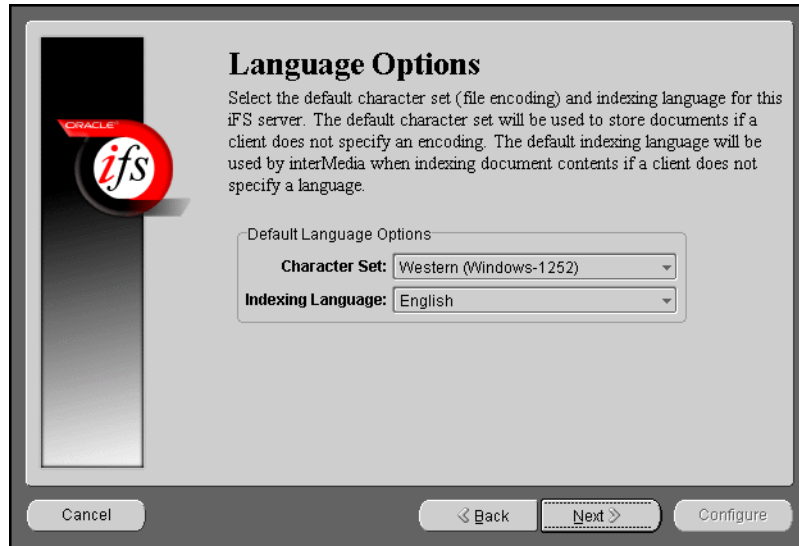


Server Manager Options screen allows you to enter a name for the Protocols Server Manager Instance that will run on this Oracle Internet File System server.

- **Protocol Instance Name:** Enter the Protocols Server Manager Instance name that will run on this Oracle Internet File System server. The Protocols Instance will manage the Oracle Internet File System protocol servers. If you are configuring an Oracle Internet File System system with multiple middle-tier machines, then it is recommended that each middle-tier have a uniquely named Protocols Instance.
- **Run Agents on This iFS Server:** Choose whether to run the Oracle Internet File System Agents on this server. Only one server for each Oracle Internet File System schema should run the Oracle Internet File System Agents.

7. Select the default character set and indexing language, and click **Next**.

Figure A-21 *Language Options Screen*

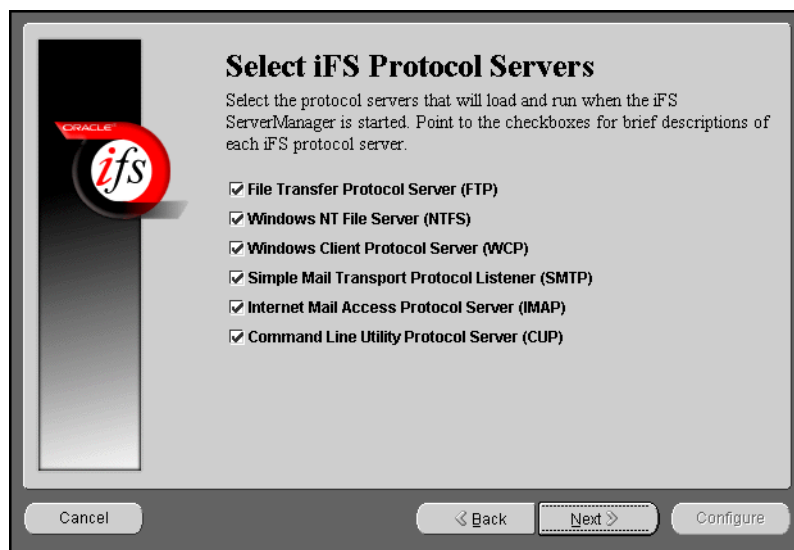


Language Options screen allows you to select the Character set and indexing language for this Oracle Internet File System server.

- **Character Set:** Select the default character set (file encoding). The default character set will be used to store documents if a client does not specify an encoding.
- **Indexing Language:** Select the default indexing language. The default indexing language will be used by interMedia when indexing document comment contents if a client does not specify a language.

8. Select the required Oracle Internet File System protocol serves, and click **Next**.

Figure A–22 *Select iFS Protocol Servers Screen*



Select iFS Protocol Servers screen allows you to select the protocol servers to configure for this Oracle Internet File System server. The following protocol servers are available:

- File Transfer Protocol Server (FTP)
- Server Message Block Server (SMB)
- Windows Client Protocol Server (WCP)
- Simple Mail Transport Protocol Listener (SMTP)
- Internet Mail Access Protocol Server (IMAP)
- Command Line Utility Protocol Server (CUP)

See Also: *Oracle Internet File System Setup and Administration Guide* in the Oracle9i Application Server Documentation Library

9. Select the port numbers for the Oracle Internet File System protocol servers, and click **Next**.

Figure A-23 Set iFS Protocol Server Ports Screen

Set iFS Protocol Server Ports

Specify the ports that each of the iFS protocol servers will use. Either the default or previously chosen ports are shown below. Only protocol servers that require a specific port are listed.

Port Assignments

FTP Server:	21
iFS SMTP Listener:	2500
IMAP Server:	143
CUP Server:	4180

Cancel < Back Next > Configure

Set iFS Protocol Server Ports screen allows you to set port numbers for the protocol servers you selected in the previous screen. The following is a list of protocol servers and their default port numbers:

- **FTP Server:** Port 21
- **SMB Server:** Port 139 (not configurable)
- **iFS SMTP Listener:** Port 2500
- **IMAP Server:** Port: 143
- **CUP Server:** Port 4180

When you click the **Next** button, the port availability on your computer is tested. If a port is already in use, a warning screen appears. A common port conflict can arise because the standard Solaris installation includes a FTP server on port 21, which conflicts with the Oracle Internet File System FTP server. You must resolve such conflicts before starting the Oracle Internet File System protocol servers.

10. Enter your Oracle Internet File System Email Domain, and click **Next**.

Figure A–24 *Configure iFS Email Screen*

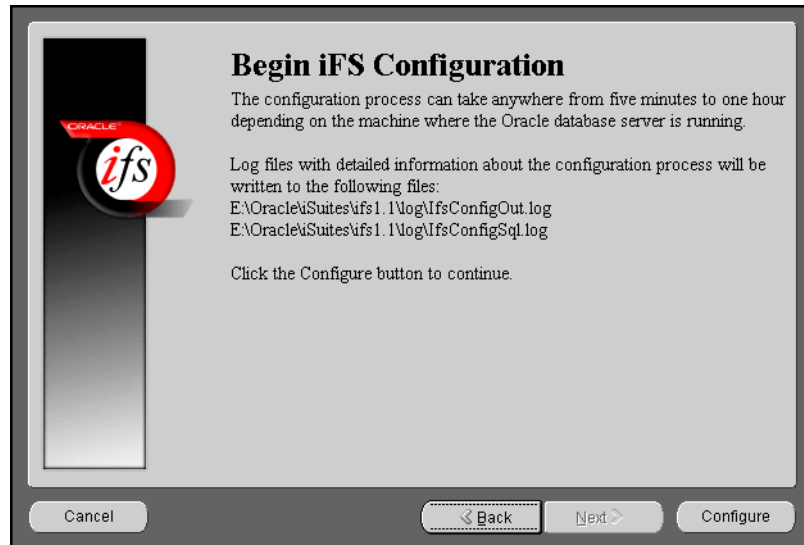


Configure iFS Email screen allows you to enter the iFS Email domain.

- **Use NIS for iFS Email:** Click on the check box to use NIS (Network Information System) for your Oracle Internet File System email package.
- **iFS Email Domain:** Enter the default email domain for the users you will create on your Oracle Internet File System server. This option is available only if you are creating a new Oracle Internet File System schema.

11. Review the screen and click **Configure** to begin the Oracle Internet File System configuration process.

Figure A-25 *Begin iFS Configuration Screen*



Begin iFS Configuration screen informs the users of the configuration process, and displays the location for the log files.

Once you have started the configuration process, a progress window appears, indicating the progress of the Oracle Internet File System configuration. If an error occurs, check the log files that are displayed on the Begin iFS Configuration screen.

12. A dialog box appears noting that the configuration was successfully completed. Run the `ifssetup` script as a root user.

The script is located in the `ORACLE_HOME\ifs1.1\bin` directory. This script will configure your system for Oracle Internet File System email, if this option was selected.

13. Perform the following steps to configure Oracle HTTP Server:

- a. Stop Oracle HTTP Server from **Services** in the Control Panel.
- b. Run the following script:

```
prompt> ORACLE_HOME\ifs1.1\bin\ifsapachesetup
```

Be sure to run this script as the user who owns the Oracle software.

- c. Restart Oracle HTTP Server from **Services** in the Control Panel.
- d. Start the Oracle Internet File System as root using the `ifsstart` script.

You have completed configuring Oracle Internet File System.

Oracle Management Server Configuration Assistant

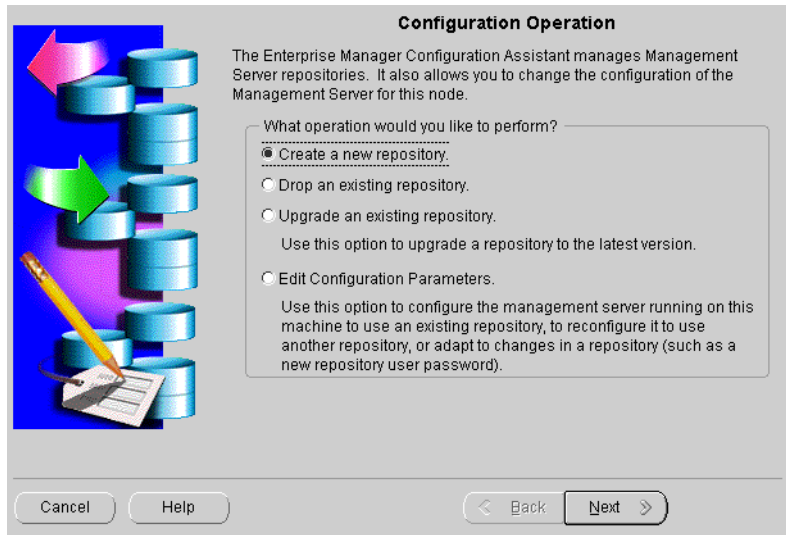
The following command launches the Oracle Enterprise Manager Configuration Assistant:

```
prompt> ORACLE_HOME\bin\emca.bat
```

The following steps guide you through the Oracle Enterprise Manager Configuration Assistant:

1. Select “Create a new repository” and click **Next**.

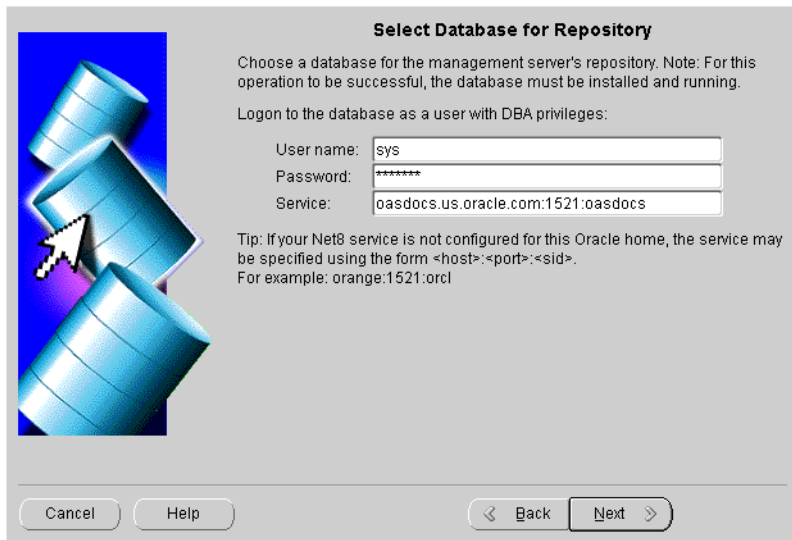
Figure A–26 Configuration Operation



Configuration Operation Screen allows you to create, drop, or upgrade a repository. It also enables you to edit your configuration parameters.

2. Enter the host name, password, and service information, and click **Next**.

Figure A-27 *Select Database for Repository Screen*



Select Database for Repository

Choose a database for the management server's repository. Note: For this operation to be successful, the database must be installed and running.

Logon to the database as a user with DBA privileges:

User name:

Password:

Service:

Tip: If your Net8 service is not configured for this Oracle home, the service may be specified using the form <host>:<port>:<sid>.
For example: orange:1521:orcl

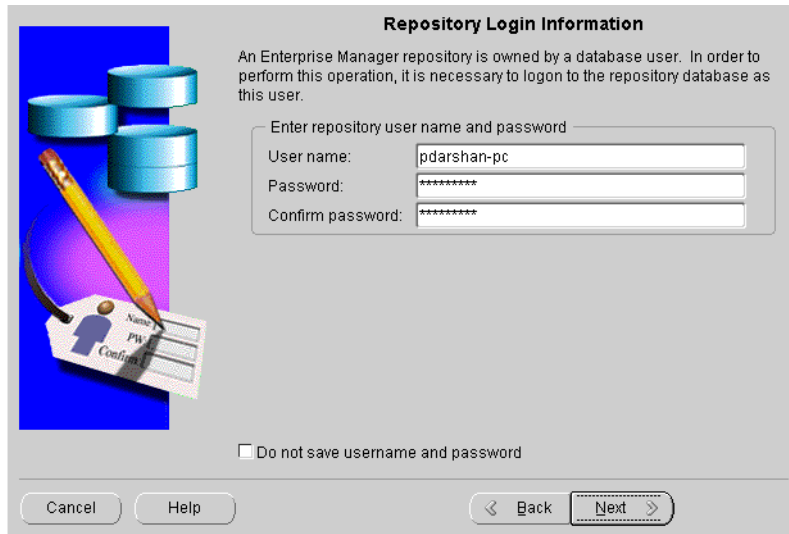
Cancel Help Back Next

Select Database for Repository screen allows you to enter database information for the management server's repository. Be sure to log in as a user with DBA privileges.

- **User name:** Enter a user name, with DBA privileges.
- **Password:** Enter the password for the username.
- **Service:** Enter the *host:port:SID* for the database.

3. Enter the repository login information, and click **Next**.

Figure A–28 Repository Login Information Screen

The screenshot shows the 'Repository Login Information' dialog box. On the left is a graphic with three blue cylinders and a yellow pencil pointing to a tag labeled 'Name', 'PW', and 'Confirm'. The main text explains that an Enterprise Manager repository is owned by a database user and that the user must logon to the repository database. Below this, there is a section titled 'Enter repository user name and password' containing three input fields: 'User name:' with the value 'pdarshan-pc', 'Password:' with masked characters '*****', and 'Confirm password:' with masked characters '*****'. At the bottom left is a checkbox labeled 'Do not save username and password'. At the bottom are buttons for 'Cancel', 'Help', '< Back', and 'Next >'.

Repository Login Information

An Enterprise Manager repository is owned by a database user. In order to perform this operation, it is necessary to logon to the repository database as this user.

Enter repository user name and password

User name:

Password:

Confirm password:

☐ Do not save username and password

Cancel Help < Back Next >

Repository Login Information screen allows you to enter the login username and password for the database user.

- **Username:** Enter the database user name who will own the repository.
- **Password:** Enter the password for the username.
- **Confirm Password:** Re-enter the user password for verification.

4. Select to either create a new OEM_REPOSITORY tablespace, or use an existing tablespace, and click **Next**.

Figure A–29 *Select Repository User Tablespaces Screen*

Select Repository User Tablespaces

The user you specified for the repository does not exist in this database. Configuration Assistant will create the user for you, but it needs to know the default and temporary tablespaces to specify for this user.

Specify user tablespaces:

Default Tablespace:

☒ Create a new OEM_REPOSITORY tablespace (recommended)

☐ Override default datafile name

Datafile: /private1/oracle817/oradata/oasdocs/oem_repo

☐ Use an existing tablespace: TOOLS

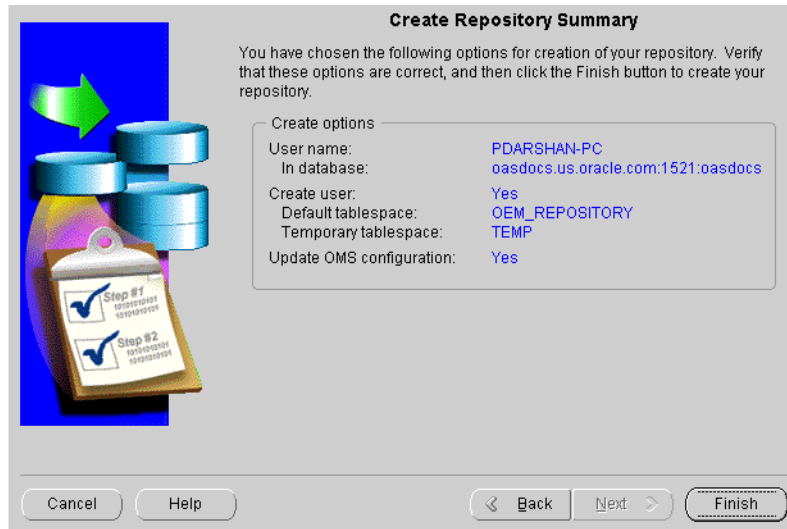
Temporary Tablespace: TEMP

Cancel Help Back Next

Select Repository User Tablespaces screen allows you to choose between creating a new OEM_REPOSITORY tablespace, or using an existing one.

5. Review the repository summary, and click **Finish**.

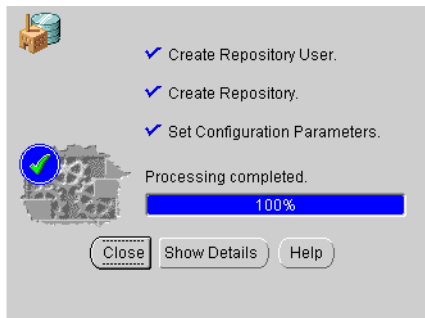
Figure A–30 Create Repository Summary



Create Repository Summary screen displays all your repository settings. Be sure to verify them for accuracy.

6. Monitor the repository creation process, and click **Close** when it finishes.

Figure A–31 Configuration Screen



Configuration screen indicates the progress the configuration assistant has made as it creates the repository. Click on **Show Details** if you get an error.

Installing Oracle9i Application Server Administrative and Development Client CD-ROM

The following topics provide an overview for the Oracle9i Application Server Administrative and Development Client CD-ROM components, and guide you through the installation process:

- [Oracle Enterprise Manager Client](#)
- [Oracle9iAS SOAP Client](#)
- [Oracle9i Application Server Wireless Edition Client](#)

Oracle Enterprise Manager Client

The Oracle Enterprise Manager Client runs only on the NT platform, and consists of the following components:

- [Oracle Enterprise Manager Console](#)
- [DBA Management Pack](#)

Oracle Enterprise Manager Console

The Oracle Enterprise Manager Console is a graphical user interface that provides menus, toolbars, launch palettes, and the framework to access Oracle tools and utilities available through other vendors. The format of the Console and the tools available are determined by the products purchased and user preferences. Console menus, toolbars, and tool palettes provide access to the Console components and database administration (DBA) applications.

DBA Management Pack

DBA Management Pack is a set of tools that help automate and simplify the common database administrator tasks. All the tools provide an intuitive graphical user interface (GUI), wizards, and a common look-and-feel which minimizes training costs, along with easy-to-use features that let administrators specify what they want to do rather than specify how to do it.

Installation

The following steps guide you through the Oracle Enterprise Manager Client installation process:

1. Insert the Oracle9i Application Server Administrative and Development Client CD-ROM and run the setup program. The Welcome screen appears. Click **Next**.
2. The File Location screen appears. Select the installation source, and then enter or select the destination Oracle home name and its path. Click **Next**.
3. The Available Products screen appears. Select Oracle Enterprise Manager Client and click **Next**.

4. The Installation Types screen appears. Select the installation type:
 - **Typical:** Installs the Oracle Enterprise Manager Console, and Database Administrative Tools.
 - **Custom:** Installs individual components. **Minimal:** Installs the minimal required components.
 - **Complete:** Installs all the components.
If you select Custom, then the Available Products screen appears. Select the products you wish to install, and click **Next**.
5. The Summary screen appears. Verify the installation selections, and click **Next**.
6. When the installation is complete, the End of Installation screen appears.

Oracle9iAS SOAP Client

The Simple Object Access Protocol (SOAP), is a lightweight, XML-based protocol for exchanging information in a decentralized, distributed environment. By combining SOAP-based requests and responses with a transport protocol, for example HTTP, the Internet becomes a medium for applications to publish database-backed *Web Services*.

SOAP requests are easy to generate, and a client can easily process the responses. This allows for one application to become a programmatic client of another application's services, with each exchanging rich, structured information. The ability to *aggregate* powerful, distributed Web Services allows SOAP to provide a powerful programming model that turns the Internet into an application development platform.

Installation

The following steps guide you through the Oracle9iAS SOAP Client installation process:

1. Insert the Oracle9i Application Server Administrative and Development Client CD-ROM and run the setup program. The Welcome screen appears. Click **Next**.
2. The File Location screen appears. Select the installation source, and then enter or select the destination Oracle home name and its path. Click **Next**.
3. The Available Products screen appears. Select Oracle SOAP Client. Click **Next**.
4. The SOAP Server Location screen appears. Enter the location to the SOAP Server, and click **Next**. This would be the URL to the Oracle HTTP Server located on the Oracle9i Application Server installation.
5. The Summary screen appears. Verify the installation selections, and click **Next**.
6. When the installation is complete, the End of Installation screen appears.

Oracle9i Application Server Wireless Edition Client

The Oracle9i Application Server Wireless Edition Client runs only on the NT platform, and consists of the following components:

- [Service Designer](#)
- [Web Integration Developer](#)

Service Designer

Service Designer is a visual interface for implementing and managing Oracle9iAS Wireless. It creates and modifies Oracle9iAS Wireless objects, including adapters, transformers, and services. Service Designer provides a tree view of the Oracle9iAS Wireless repository. The tree displays Oracle9iAS Wireless objects classes, such as adapters and transformers, as folders or branch nodes. It shows instances of those classes as objects or leaf nodes.

Web Integration Developer

Web Integration Developer is a development environment for creating and testing Web Integration services written in Web Interface Definition Language (WIDL). The Web Integration Developer also has tools that you use to:

- Publish WIDL services for Web Integration Server.
- Create source code for client applications that invoke Web Integration services.
- Create starter code for the development of an integration module.

See Also: ["Configure the Web Integration Developer"](#) on page B-6 for postinstallation configuration instructions.

Note: The Web Integration Developer includes its own Java Virtual Machine (JVM). It does not require any Java setup.

Installation

See Also: ["Oracle9iAS Client Requirements"](#) on page 1-4 for hardware requirements for installation.

The following steps guide you through the Oracle9i Application Server Wireless Edition Client installation process:

1. Insert the Oracle9i Application Server Administrative and Development Client CD-ROM and run the setup program. The Welcome screen appears. Click **Next**.
2. The File Location screen appears. Select the installation source, and then enter or select the destination Oracle home name and its path. Click **Next**.
3. The Available Products screen appears. Select Oracle9i Application Server Wireless Edition Client. Click **Next**.
4. The Installation Types screen appears. Select the installation type:
 - **Typical:** Installs the Service Designer and Web Integration Developer.
 - **Custom:** Installs individual components.If you select Custom, then the Available Products screen appears. Select the products you wish to install, and click **Next**.
5. The Summary screen appears. Verify the installation selections, and click **Next**.
6. When the installation is complete, the End of Installation screen appears.

Configure the Web Integration Developer

To configure the Web Integration Developer, follow these steps:

Run the Web Integration Developer from the Windows NT Programs menu. **Select Programs > Oracle for Windows NT > Oracle9i Application Server Wireless Edition > Web Integration Developer**.

1. From the **Edit menu**, select **Preferences**, and then **Configuration**.
2. Enter the Proxy (HTTP) and the Secure Proxy (HTTPS) settings appropriate for your environment.
3. Click **OK**.

Installing Oracle9iAS Containers for J2EE (OC4J)

The appendix provides an overview and installation instructions for Oracle9iAS Containers for J2EE (OC4J).

- [Overview](#)
- [Installing OC4J](#)

Overview

OC4J is a J2EE container with a JVM that accepts HTTP and RMI connections. These connections access servlets, JSP Pages, and EJBs.

For more information, refer to the *Oracle9iAS Containers for J2EE Getting Started* on the Oracle9iAS Containers for J2EE CD-ROM, which is part of the Oracle9i Application Server CD pack.

Installing OC4J

This section provides installation instructions for OC4J. The topics include:

- [Requirements](#)
- [Basic Installation](#)
- [Testing the Default Web Server](#)

Requirements

The current release of OC4J is more stable when used with JDK version 1.2.2_07, or 1.3.xxx. We recommend that you use the JDK that comes with Oracle9i Application Server 1.0.2.2, which is JDK version 1.2.2_07.

However, for hosts with Windows NT, the Symantec JIT that ships with any Java2 environment can cause problems. To solve these problems, either upgrade to JDK version 1.3 or do not use the JDK release 1.2 Symantec JIT with the OC4J server.

- Upgrading to JDK version 1.3—This is recommended, because disabling the JIT degrades performance.
- Disabling Symantec JIT—If you decide to not use the Symantec JIT, start the OC4J server as follows:

```
java -Djava.compiler=none -jar orion.jar
```

You do not need to add anything to your CLASSPATH to run OC4J, because it loads the Java JAR and class files directly from the installation directory, from the `lib/` subdirectory, and from the deployed applications EAR, WAR, or `ejb-jar` files.

Basic Installation

OC4J is distributed within a ZIP file named `oc4j.zip` on the Oracle9iAS Containers for J2EE CD-ROM. Unzip this file into the `%ORACLE_HOME%` directory where you installed the Oracle9i Application Server.

You must have a Java2 version Java executable in your `%PATH%`, preferably version 1.2.2_07. To install OC4J, unzip `oc4j.zip` into your Oracle home directory. For example, execute the following:

```
prompt> cd %ORACLE_HOME%
prompt> unzip oc4j.zip
prompt> cd %ORACLE_HOME%\j2ee\home
prompt> java -jar orion.jar -install
```

After the install is complete, the `%ORACLE_HOME%\j2ee\home` directory contains all the files necessary for running OC4J with a default configuration. The installation prompts you for an administration username and password, which is used for the administration console command-line tool.

Note: OC4J is installed with the Sun Microsystems JDK version 1.2.2_07 `tools.jar`. However, if you receive a versioning problem because you use version 1.3, copy `lib\tools.jar` from your version of the JDK installation to the `j2ee\home\root` installation directory.

Testing the Default Web Server

OC4J is installed with a default configuration that includes a default Web site and a default application. These are provided so you can start and test OC4J immediately.

Start OC4J by executing the following:

1. Change directory to the OC4J installation directory (`j2ee\home`), and issue one of the following commands:

- `java -jar orion.jar`

This starts OC4J using the default configuration files.

- `java -jar orion.jar -config drive:\mypath\server.xml`

This starts OC4J using the `server.xml` file located in `\mypath`.

You should get the following output:

```
Oracle9iAS (1.0.2.2) Container for J2EE initialized
```

2. Test OC4J by accessing “`http://localhost:8888/`” from a Web browser. If you changed the default port number, access the Web server using “`http://localhost:portnumber/`”.

Test OC4J by accessing “`http://localhost:8888/`” from a Web browser. If you changed the default port number, access the Web server using “`http://localhost:portnumber/`”.

For further instructions, including information on starting and stopping OC4J, refer to the *Oracle9iAS Containers for J2EE Getting Started* on the Oracle9iAS Containers for J2EE CD-ROM, which is part of the Oracle9i Application Server CD pack.

Installing Supplemental Components

This appendix introduces you to the Oracle9i Application Server, version 1.0.2.2 supplemental components, and provides basic installation instruction. The topics include:

- [Overview](#)
- [Supplemental Components](#)

Overview

Oracle9i Application Server supplemental components are installed from the same CD-ROM as Oracle9i Application Server. Installation guides for each component are provided on Oracle9i Application Server Disk 1.

For instructions on launching the installer, refer to ["Starting Oracle Universal Installer"](#) on page 2-26.

When Oracle Universal Installer appears, you will see the Welcome screen. Review the screen and click **Next**. The next screen is the File Location screen. This screen allows you to enter the full path for the source and destination locations of Oracle9i Application Server. In the `Source` field, enter the full path to the `products.jar` file.

Supplemental Components

This section introduces you to each supplemental component, and provides the full path to each `products.jar` file.

Oracle9iAS Email

Oracle9iAS Email is an integrated solution for messaging and directory services. Users can send messages to anyone on the network with any IMAP4 or POP-3 compliant client. The Oracle9iAS Email database contains information about users, rooms, and equipment that you can organize by domain. Oracle9iAS Email provides tools to help you perform most administration tasks, including managing processes, directory entries, and databases. You can also use monitor tests and server process logs to monitor the system for potential problems.

Source Path

You can install Oracle9iAS Email from Oracle9i Application Server Supplemental CD-ROM Disk 2. The following is the full path to the `products.jar` file for Oracle9iAS Email. Enter this path in the `Source` field of the File Locations Screen.

```
cdrom_drive\EMAILSERVER\Disk1\stage\products.jar
```

Oracle9iAS InterConnect

Oracle9iAS InterConnect is a comprehensive application integration framework that enables seamless integration of enterprise software. It is built on top of Oracle's robust integration platform and leverages its underlying services. It is designed to integrate heterogeneous systems, be it Oracle Applications, non-Oracle applications, or 3-party messaging oriented middleware (MOM). This integration can be deployed either within an enterprise or across enterprise boundaries through the Internet. In addition, Oracle9iAS InterConnect provides a tool (iStudio) for modeling the data in the integration scenario. iStudio eliminates the need for "hardwired" or "hardcoded" integration. Users define their integration using iStudio which minimizes the need to write any code for the integration.

Source Path

You can install Oracle9iAS InterConnect from Oracle9i Application Server Supplemental CD-ROM Disk 2. The following is the full path to the `products.jar` file for Oracle9iAS InterConnect. Enter this path in the `Source` field of the File Locations Screen.

```
cdrom_drive\OAI\Disk1\stage\products.jar
```

Oracle Gateways

Oracle Gateways are agents for accessing data stored in non-Oracle systems, such that users perceive that all data resides on a local Oracle database server. Each agent is designed specifically for particular non-Oracle systems, and extends Oracle9i Application Server to that system. While installing an Oracle Gateway, you must:

- install each gateway in its own Oracle home directory.
- install the gateway on the same machine as the non-Oracle database.

Source Path

You can install the Oracle Gateways from Oracle9i Application Server Supplemental CD-ROM Disk 1. [Table D-1](#) lists the full paths to the `products.jar` file for each gateway. Enter this path in the `Source` field of the File Location Screen.

Table D–1 Oracle Gateway Source Path

Gateway Name	Path
Sybase	<i>cdrom_drive\GW_SYBASE\Disk1\stage\products.jar</i>
Microsoft SQL Server	<i>cdrom_drive\GW_SQLSERVER\Disk1\stage\products.jar</i>

Oracle Internet Directory

Oracle Internet Directory is a general purpose directory service that stores information about users and network resources. It enables retrieval of information about dispersed users and network resources. It combines Lightweight Directory Access Protocol (LDAP), the open Internet standard directory access protocol, with the high performance, scalability, robustness, and availability of the Oracle9i Application Server.

Source Path

You can install Oracle Internet Directory from Oracle9i Application Server Supplemental CD-ROM Disk 2. The following is the full path to the `products.jar` file for Oracle Internet Directory. Enter this path in the `Source` field of the File Locations Screen.

cdrom_drive\OID\Disk1\stage\products.jar

Oracle Workflow

Oracle Workflow is a business process modeling and automation tool that enables users to route information, create and change business processes, deliver electronic notifications, and integrate systems based on business events. It enables you to define and continuously improve your business processes using a drag-and-drop process designer, extend the reach of business process automation throughout the enterprise and beyond to include any e-mail or Internet user, and set up subscriptions to business events which can launch workflows or enable messages to be propagated from one system to another when business events occur.

Source Path

You can install Oracle Workflow from Oracle9i Application Server Supplemental CD-ROM Disk 2. The following is the full path to the `products.jar` file for Oracle Workflow. Enter this path in the `Source` field of the File Locations Screen.

cdrom_drive\WF\Disk1\stage\products.jar

Enabling SSL for Oracle HTTP Server *powered by Apache*

This appendix describes the method of enabling SSL for Oracle HTTP Server. The following topics guide you through the necessary steps:

- [Generate the Certification Request](#)
- [Modify httpd.conf File to Enable SSL](#)

Generate the Certification Request

Perform the following steps to generate a certificate request:

1. Make the following changes to the `openssl.cnf` file to generate the certificate request:

```
#
#OpenSSL example configuration file
#This is mostly being used for generation of certificate requests.
#

#This definition stops the following lines choking if HOME isn't defined.
HOME =
RANDFILE=$ENV::HOME/.rnd
oid_section=new_oids
```

Use the commands below to generate the certification request:

```
prompt> ORACLE_HOME\Apache\open_ssl\bin\openssl md5 *>rand.dat
prompt> ORACLE_HOME\Apache\open_ssl\bin\openssl genrsa -rand rand.dat -des3
1024>server.pem
prompt> ORACLE_HOME\Apache\open_ssl\bin\openssl req -new -key server.pem
-out server.pem -config
prompt> .\openssl.cnf
```

When you run the final command, a certificate request is generated. The following is an example of a certification request:

```
Country Name (2 letter code) [AU]: US
State or Province Name (full name)[Some-State]: California
Locality name (eg, city) []: Redwood Shores
Organization Name (eg, company) [Internet Widgits Pty Ltd]: Oracle
Organizational Unit Name (eg, section) []: EITQA
Common Name (eg, YOUR name) []:machine.us.oracle.com
Email Address []: username@oracle.com
```

Enter the following “extra” attributes to be sent with your certification request. This step is optional.

```
A challenge password []:
An optional company name []:
```

Be sure to take note of the following:

- These commands create two files: `server.pem` and `server.csr` (certificate request).
 - For Common Name, include the FULL name of the HOST and DOMAIN you are running the command on, for example: `www.mycompany.com`.
 - Remember the password you enter. This password is used every time Oracle HTTP Server is started.
2. Send the Certification Request. In the CSR area, paste the certification request from `server.csr` file.
 3. When you receive the certificate, paste it into a file named `server.crt`.

Be sure that you get the Root Trial CA certificate by going to the URL mentioned in the Certificate Authority email. Export that certificate from the browser to a file named `rootcacert.crt`. If you are getting a trial certificate, only then do you need to put the trial CA certificate in the browser.

4. Copy the following in appropriate directories:
 - Certificate file `server.key` into the `.\Apache\Apache\conf\ssl.crt` directory.
 - `server.pem` file into the `...\Apache\Apache\conf\ssl.key` directory.
 - Root Trial CA file `rootcacert.crt` into the `...\Apache\Apache\conf\ssl.crt` directory.

Modify httpd.conf File to Enable SSL

Make the following changes to the `httpd.conf` file to enable SSL:

1. **Port changes:** Be sure your entries are similar to the ones in the example below:

```
#
# This port is used when starting without SSL
Port 80
# This port is used when starting with SSL
<IfDefine SSL>
    Port 80
    Port 443
</IfDefine>

##
##SSL Support
##
##When we also provide SSL we have to listen to the standard HTTP port
##(see above) abd to the HTTPS port
##
<IfDefine SSL>
    Listen 80
    Listen 443
</IfDefine>

##
##SSL Virtual Host Context
##

<VirtualHost_default_:443>
```

-
2. **SSL Certificate related entries:** To configure the `httpd.conf` file to your certificate, search for `SSLCertificateFile` and make this entry as below pointing to your certificate that came from the certificate authority. This is illustrated in the following example:

```
SSLCertificateFile \conf\ssl.crt\server.crt
```

Entry for Server Private Key

```
SSLCertificateKeyFile \conf\ssl.key\server.pem
```

Entry for Server Certificate Chain: (The Root Trial CA Certificate)

Entry for Certificate Authority (CA): as below

```
#Certificate Authority (CA):  
#Set the CA certificate verification path where to find CA  
#certificates for client authentication or alternatively one  
#huge file containing all of this (file must be PEM encoded).  
#Note: Inside SSLCACertificatePath you need hash symlinks  
#to point to the certificate files. Use the provided  
#Makefile to update the hash symlinks after changes.  
#SSLCACertificateFile conf\ssl.crt\ca-bundle.crt  
SSLCACertificateFile conf\ssl.crt  
SSLCACertificateFile conf\ssl.crt\rootcacert.crt
```

3. **Restart Oracle HTTP Server.**

For information on enabling SSL for Oracle9iAS Portal, refer to *Oracle Portal 3.0.8 Configuration Guide*.

Installing Documentation Library

The Oracle9i Application Server Documentation Library CD-ROM contains the documentation set for this product. The documentation on the CD-ROM is available in both HTML and PDF formats. The following topics describe the contents of the CD-ROM, and provides instructions for installing and viewing the documentation:

- [Documentation Library Titles](#)
- [Installing the Documentation Library](#)
- [Viewing the Documentation Library](#)

Documentation Library Titles

The Documentation Library CD-ROM contains the documentation listed in the tables on the following pages. Titles that have a part number are available as printed and bound manuals from the Oracle Store at

<http://store.oracle.com>

Table F–1 *Oracle9i Application Server Core Documentation*

Part Number	Title
NA	Oracle9i Application Server Quick Tour
A87353-01	Oracle9i Application Server Overview Guide
A83709-07	Migrating from Oracle Application Server

Table F–2 *Run Websites and Applications*

Part Number	Title
NA	Apache User's Guide
NA	Apache JServ Documentation (<i>links to http://java.apache.org/jserv</i>)
NA	Apache mod_perl Documentation (<i>links to http://perl.apache.org</i>)
NA	mod_ssl Documentation
NA	OpenSSL Documentation (<i>links to http://www.openssl.org</i>)
A90282-01	Oracle HTTP Server powered by Apache Using mod_oprocmgr with mod_jserv
NA	Oracle Business Components for Java Developing Business Components
NA	Oracle Business Components for Java Tutorial - Building BC4J
NA	Oracle Business Components for Java Reference API
A88852-01	Oracle9iAS Object Caching Service for Java Developer's Guide
A83728-01	Oracle8i Java Developer's Guide
A81358-01	Oracle8i Java Stored Procedures Developer's Guide
A83720-011	Oracle8i Servlet Engine User's Guide
NA	OracleJSP Developer's Toolkit

Table F–2 Run Websites and Applications (Cont.)

Part Number	Title
A83725-01	Oracle8i Enterprise JavaBeans Developer's Guide and Reference
A88705-01	Deploying Enterprise JavaBeans to Oracle9i Application Server
A83722-01	Oracle8i CORBA Developer's Guide and Reference
A83724-01	Oracle8i JDBC Developer's Guide and Reference
A83723-01	Oracle8i SQLJ Developer's Guide and Reference
A81357-01	Oracle8i JPublisher User's Guide
A85456-01	Oracle8i Supplied Java Packages Reference
A83727-01	Oracle8i Java Tools Reference
A90099-01	Using the PL/SQL Gateway
A90101-01	PL/SQL Web Toolkit Reference
NA	Forms Developer Quick Tour
A86202-01	Deploying Forms Applications to the Web
A73074-01	Form Builder Reference Manual
A73073-02	Guidelines for Building Applications
A73075-01	Graphics Builder Reference Manual
A73076-01	Procedure Builder Reference Manual
A73152-01	Common Built-in Packages Reference Manual
A86030-01	Oracle8i Application Developer's Guide - XML
A83730-01	Oracle8i XML Reference Guide
A86082-01	Oracle Internet Directory Application Developer's Guide

Table F–3 Create Personalized Portals

Part Number	Title
NA	Oracle9iAS Portal Quick Tour
A90097-01	Oracle9iAS Portal Tutorial
A90096-01	Oracle9iAS Portal Configuration Guide
A90098-01	Oracle9iAS Portal Building Portals
A90343-01	Oracle9iAS Single Sign-On Application Developer's Guide
A88732-01	Oracle9iAS Single Sign-On Administrator's Guide

Table F–4 Wireless Enable Portals

Part Number	Title
A86701-02	Oracle9iAS Wireless Configuration Guide
A86700-01	Oracle9iAS Wireless Developer's Guide
A86699-01	Oracle9iAS Wireless Implementation Guide

Table F–5 Accelerate Performance with Caching

Part Number	Title
NA	Oracle9iAS Database Cache Quick Tour
A88706-01	Oracle9iAS Database Cache Concepts and Administration Guide

Table F–6 *Extract Business Intelligence*

Part Number	Title
A90288-01	Oracle9iAS Discoverer Plus and Viewer Configuration Guide for UNIX
A90287-01	Oracle9iAS Discoverer Plus and Viewer Configuration Guide for Windows
NA	Reports Developer Quick Tour
A86784-02	Publishing Reports to the Web
A73172-01	Building Reports
A73174-01	Reports Developer Reference Manual
A73073-02	Guidelines for Building Applications
A73075-01	Graphics Builder Reference Manual
A73076-01	Procedure Builder Reference Manual
A73152-01	Common Built-in Packages Reference Manual

Table F–7 *Integrate Users, Applications, and Businesses*

Part Number	Title
A87449-01	Oracle Workflow Guide
A90225-02	Oracle9iAS InterConnect User's Guide
A90297-01	Oracle9iAS SOAP Developer's Guide
A88729-01	Using Transparent Gateways with Oracle9i Application Server
A88714-01	Oracle Heterogeneous Services
A86653-01	Oracle9iAS Email Server Administrator's Guide
A86650-01	Oracle9iAS Email Server Developer's Guide
A86093-02	Oracle9iAS Unified Messaging Developer's Guide

Table F–7 *Integrate Users, Applications, and Businesses (Cont.)*

Part Number	Title
NA	Oracle Internet File System Quick Tour
A81197-05	Oracle Internet File System Setup and Administration Guide
A75154-04	Oracle Internet File System User's Guide
A75172-04	Oracle Internet File System Developer's Guide
NA	Oracle Internet File System Class Reference
NA	Oracle Internet File System Java Reference API
NA	Oracle Internet File System XML Reference

Table F–8 *Manage and Secure Web Infrastructure*

Part Number	Title
NA	Oracle Enterprise Manager Console Quick Tour
NA	Standard Management Pack Quick Tour
A85250-01	Oracle Enterprise Manager Concepts Guide
A85247-01	Oracle Enterprise Manager Configuration Guide
A85248-01	Oracle Enterprise Manager Administrator's Guide
A85251-01	Oracle Intelligent Agent User's Guide
A85245-01	Oracle Enterprise Manager Messages Manual
A85249-01	Oracle SNMP Support Reference Guide
A86101-01	Oracle Internet Directory Administrator's Guide
A86082-01	Oracle Internet Directory Application Developer's Guide
A90387-01	Oracle Wallet Manager User's Guide

Installing the Documentation Library

You can install the documentation on the CD-ROM in either of two ways:

- Copying the files from the CD-ROM to your local system.
- Using the Oracle Universal Installer included with Oracle9i Application Server.

File Copy Installation

The simplest installation method is to directly copy the files from the CD-ROM to your computer. Use your operating system's commands to copy the contents of the `doc` directory on the CD-ROM to the appropriate installation directory on your system. For consistency with installations performed by the Oracle Universal Installer, Oracle recommends that you name the directory `doc`.

For example, the following command copies the documentation from the CD-ROM to your Oracle home directory.

For UNIX, enter the following command:

```
prompt> cp -r mount_point/doc $ORACLE_HOME
```

For Windows, enter the following command at the command prompt:

```
prompt> xcopy /s cdrom_drive\doc %ORACLE_HOME%
```

Note: This method may overwrite files if the destination directory already exists.

Oracle Universal Installer Installation

The Oracle Universal Installer also installs the documentation onto your computer from the CD-ROM. The following instructions describe the process:

1. Launch the Oracle Universal Installer.

See Also: ["Starting Oracle Universal Installer"](#) on page 2-26

2. At the Welcome screen, click **Next**.

3. At the File Locations screen do the following:
 - a. Eject the Oracle9i Application Server CD-ROM and replace it with the Documentation Library CD-ROM.
 - b. In the Source field,
For UNIX, enter `mount_point/stage/products.jar`.
For Windows, enter `cdrom-drive\stage\products.jar`.
This directs the installer to the installation file for the documentation library.
 - c. In the Destination field, enter the path to the Oracle home you are installing the documentation to. The documentation will be installed in the `doc` directory under Oracle home.
 - d. Click **Next** to continue.
4. At the Summary screen, review the summary and click **Install** to begin the installation process.
5. After installation, the End of Installation screen will appear. Click **Exit** to quit the installer.

Viewing the Documentation Library

You can view the Oracle9i Application Server documentation library directly from the CD-ROM or from disk after installing it. For information about the tools necessary to view the documentation, refer to "[Online Documentation Requirements](#)" on page 1-5.

To view the HTML and PDF documentation from a local installation or from the CD-ROM, follow these steps:

1. Use your browser to open the top-level `index.htm` file from the `doc` directory on either the CD-ROM or Oracle home directory.
2. Click on the list of components to see the documentation relating to a particular component.

Using the Oracle Information Navigator Applet

Oracle Information Navigator is a Java-based search and navigation utility provided with Oracle online documentation. If you are using a Java-enabled browser, the navigator is launched automatically when you open `index.htm` in a browser. The navigator can be used with Oracle documentation, whether you are reading from the CD-ROM or from installed files.

For information on how to use the navigator, click the **Help** button in the top right corner of the browser window.

Bypassing the Oracle Information Navigator Applet

If you do not wish to launch the Oracle Information Navigator applet, open `products.htm` instead of `index.htm`.

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