

Oracle® Applications

Installing Oracle Applications: A Guide to Using Rapid Install

Release 11i (11.5.10)

Part No. B13583-01

October 2004

This guide describes how to use the Rapid Install utility to create a new Oracle Applications E-Business 11i system, upgrade to Oracle Applications E-Business 11i, or install a new technology stack.

Oracle Applications Installing Oracle Applications: A Guide to Using Rapid Install, Release 11i (11.5.10)

Part No. B13583-01

Copyright © 2000, 2004 Oracle. All rights reserved.

Primary Author: Carole Eubanks

Contributor: Michael Bernstein, Henriette Fux, Ric Ginsberg, William Greene, Jeff Lunn, Vesa Peltola, Terri Noyes, Prashant Saddi, Yun Shaw, Sean Tuck

The Programs (which include both the software and documentation) contain proprietary information; they are provided under a license agreement containing restrictions on use and disclosure and are also protected by copyright, patent, and other intellectual and industrial property laws. Reverse engineering, disassembly, or decompilation of the Programs, except to the extent required to obtain interoperability with other independently created software or as specified by law, is prohibited.

The information contained in this document is subject to change without notice. If you find any problems in the documentation, please report them to us in writing. This document is not warranted to be error-free. Except as may be expressly permitted in your license agreement for these Programs, no part of these Programs may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose.

If the Programs are delivered to the United States Government or anyone licensing or using the Programs on behalf of the United States Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the Programs, including documentation and technical data, shall be subject to the licensing restrictions set forth in the applicable Oracle license agreement, and, to the extent applicable, the additional rights set forth in FAR 52.227-19, Commercial Computer Software--Restricted Rights (June 1987). Oracle Corporation, 500 Oracle Parkway, Redwood City, CA 94065

The Programs are not intended for use in any nuclear, aviation, mass transit, medical, or other inherently dangerous applications. It shall be the licensee's responsibility to take all appropriate fail-safe, backup, redundancy and other measures to ensure the safe use of such applications if the Programs are used for such purposes, and we disclaim liability for any damages caused by such use of the Programs.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

The Programs may provide links to Web sites and access to content, products, and services from third parties. Oracle is not responsible for the availability of, or any content provided on, third-party Web sites. You bear all risks associated with the use of such content. If you choose to purchase any products or services from a third party, the relationship is directly between you and the third party. Oracle is not responsible for: (a) the quality of third-party products or services; or (b) fulfilling any of the terms of the agreement with the third party, including delivery of products or services and warranty obligations related to purchased products or services. Oracle is not responsible for any loss or damage of any sort that you may incur from dealing with any third party.

Contents

Send Us Your Comments	vii
Preface	ix
Intended Audience.....	ix
Documentation Accessibility	ix
Structure	ix
Related Documents	x
Training and Support	xi
Conventions	xii
 1 Getting Started	
How Rapid Install Works	1-1
Installing New Systems.....	1-2
Managing Multi-node Installations.....	1-2
Upgrading an Existing System.....	1-3
Installing a New Technology Stack	1-4
Installed Components and System Requirements	1-4
Technology Stack Components.....	1-4
Software Requirements	1-4
CPU Requirements.....	1-5
Memory Requirements (RDBMS and forms server).....	1-5
Disk Space Requirements.....	1-6
Before You Begin	1-7
Review Installation Plan and Documentation	1-7
Create Login Accounts	1-7
Install Java Development Kit (JDK).....	1-8
Set Up the Stage Area	1-8
Starting Rapid Install	1-10
Special Startup Options.....	1-11
Gathering Configuration Information	1-11
Navigating in the Wizard	1-12
What To Do Next	1-13
 2 Single-node Installations	
Performing a Single-node Installation.....	2-1

Describe the System Configuration	2-1
Status Indicators and Prompts	2-19
Restart the Installation.....	2-20
Review Post-installation Tests.....	2-21
Setting Up an Express Installation.....	2-22
What To Do Next	2-26
 3 Multi-node Installations	
Performing a Multi-node Installation	3-1
Describe the System Configuration	3-1
Status Indicators and Prompts	3-23
Restart the Installation.....	3-24
Review Post-installation Tests.....	3-25
Enabling Load Balancing.....	3-26
Setting Up the Other Nodes	3-32
What To Do Next	3-33
 4 Upgrading Your Installation	
How an Upgrade Works	4-1
Creating the Upgrade File System	4-2
Set Up the Configuration	4-2
Status Indicators and Prompts	4-16
Restart the Upgrade	4-16
Set Up Additional Nodes (for multi-node systems only)	4-17
Continue the Upgrade Tasks	4-18
Configuring and Starting Server Processes.....	4-18
Configure the Existing Instance	4-18
Finish Post-upgrade Tasks.....	4-20
What To Do Next	4-20
 5 Installing Technology Stack Components	
Upgrading an Existing Technology Stack.....	5-1
Database Tier Installations.....	5-1
Application Tier Installations.....	5-4
 6 Finishing Tasks	
Required Tasks for All New Installations	6-1
Update PL/SQL Log and Out Directory	6-1
Configure Database Initialization Parameters	6-1
Implement Product and Country-specific Functionality	6-2
Change Passwords	6-2
Review Security Practices	6-2
Log On to Oracle Applications.....	6-2
Configure Client Software to Use the Forms Applet.....	6-4
Set Up Printers	6-5
Conditional Tasks for New Installations.....	6-6

Configure Multiple Servers to Use JInitiator	6-6
Resize the Database.....	6-6
Set Up National Language Support (NLS)	6-6
Set Up UTF8 Character Set	6-7
Configure the Oracle Workflow Java-based Notification Mailer.....	6-8
Set Up and Implement Oracle Embedded Data Warehouse (EDW)	6-8
Set Up and Implement Discoverer End User Layer (EUL)	6-8
Set Up Demand Planning.....	6-8
Convert to a Public Sector, Education, or Non-for-Profit System.....	6-9
Convert Database to Multiple Organizations (Multi-Org)	6-9
Understand System Administration Tasks	6-9
Understand Oracle Applications Maintenance Tasks	6-9
Backing Up Oracle Applications.....	6-9

A Configuration Details

Rapid Install Configuration Parameters.....	A-1
Database Parameters.....	A-1
Node-specific Parameters	A-2
Global System Settings	A-3
Log Files.....	A-4
Requirements for a New Production Database	A-4
Vision Demonstration Database Requirements.....	A-5

Index

Send Us Your Comments

Oracle Applications Installing Oracle Applications: A Guide to Using Rapid Install, Release 11i (11.5.10)

Part No. B13583-01

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

- Did you find any errors?
- Is the information clearly presented?
- Do you need more information? If so, where?
- Are the examples correct? Do you need more examples?
- What features did you like most about this manual?

If you find any errors or have any other suggestions for improvement, please indicate the title and part number of the documentation and the chapter, section, and page number (if available). You can send comments to us at apps_relgrp_us@oracle.com.

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

Preface

This book provides instructions for using Rapid Install in a fresh (first-time) installation of Oracle Applications or an upgrade from Release 10.7 or 11.0 to Release 11i (11.5.10) of Oracle Applications products.

Intended Audience

This book is intended for use by anyone who is responsible for installing or upgrading Oracle Applications.

Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible, with good usability, to the disabled community. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For additional information, visit the Oracle Accessibility Program Web site at

<http://www.oracle.com/accessibility/>

Accessibility of Code Examples in Documentation JAWS, a Windows screen reader, may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, JAWS may not always read a line of text that consists solely of a bracket or brace.

Accessibility of Links to External Web Sites in Documentation This documentation may contain links to Web sites of other companies or organizations that Oracle does not own or control. Oracle neither evaluates nor makes any representations regarding the accessibility of these Web sites.

Structure

This book contains the following chapters and appendixes:

Chapter 1

Briefly describes the way Rapid Install works and explains how to get started using the Rapid Install wizard.

Chapter 2

Steps through the Rapid Install wizard screens used to set up a system on a single node.

Chapter 3

Steps through the Rapid Install wizard screens used to set up a system across two or more nodes.

Chapter 4

Describes the Rapid Install wizard screens you use when upgrading your system. These steps are performed in conjunction with the instructions in *Upgrading Oracle Applications*.

Chapter 5

Describes the Rapid Install wizard screen flow for installing a new application tier or database tier technology stack.

Chapter 6

Lists the steps required to finish the installation. It also lists system-specific steps you may need to perform.

Appendix A

Contains definitions of the configuration parameters collected by the wizard and describes other important details about systems created by Rapid Install.

Related Documents

This book was current as of the time it was initially published. It is included in the *Oracle Applications Document Library*, which is supplied in the Release 11i software bundle. You can download some soft-copy documentation from Oracle Docs Online at <http://otn.oracle.com/documentation>, or, you can purchase hard-copy documentation from the Oracle Store at <http://oraclestore.oracle.com>.

In addition to the Release Notes and the Installation Update Notes, you can refer to the *Oracle E-Business Suite Documentation Library, Release 11.5.10+* for the very latest documentation. This "virtual" documentation set contains interim documents — those that have changed sufficiently between releases to warrant re-publishing. It is not packaged with your software bundle. Instead it is made available online on the Oracle Technology Network (OTN) at the following URL:

<http://www.oracle.com/technology/documentation/applications.html>

This set of documents is updated as needed, to provide you with the most recent versions of Oracle Applications documentation.

The following table lists manuals and guides you should have on hand as reference.

If you are looking for...	See these documents...
Additional information	<i>Oracle Applications Concepts</i> <i>Upgrading Oracle Applications</i> <i>Maintaining Oracle Applications Documentation Set:</i> <i>Oracle Applications Maintenance Utilities</i> <i>Oracle Applications Maintenance Procedures</i> <i>Oracle Applications Installation Update Notes (for your platform)*</i> <i>Oracle Applications Release Notes*</i> <i>Oracle Applications NLS Release Notes*</i> <i>Oracle Applications System Administrator's Guide - Configuration</i> <i>Oracle Applications System Administrator's Guide - Maintenance</i> <i>Oracle Applications System Administrator's Guide - Security</i> <i>Oracle Workflow Administrator's Guide</i> <i>Oracle Workflow Developer's Guide</i> <i>Oracle Application Object Library/Workflow Technical Reference Manual</i>
Information on new features in this release	<i>Release Content Documents and Features Summary Matrices*</i> <i>Oracle Applications DBA 11i+ Features Matrix*</i> <i>Oracle Applications Product Update Notes</i> <i>Electronic Technical Reference Manual (eTRM)*</i> <i>Release Content Documents (RCD)*</i>
Application-specific features	<i>Oracle Applications user's guides</i> <i>Oracle Applications implementation manuals</i> <i>Multiple Organizations in Oracle Applications</i> <i>Multiple Reporting Currencies in Oracle Applications</i>
Information about custom development	<i>Oracle Applications User Interface Standards for Forms-based Products</i> <i>Oracle Applications Developers' Guide</i>
Database information	<i>Oracle9i Documentation Set</i>
* Available only on OracleMetaLink.	

Update or patch readme files may also contain additional information about new documentation that you can download.

Training and Support

Oracle offers a complete set of training courses and multi-level support services.

Training

You can attend training courses at any Oracle Education Center, arrange for trainers to teach at your facility, or use Oracle Learning Network (OLN) — Oracle University's online education utility. Oracle training professionals can also develop custom courses using your organization structure, terminology, and data as examples.

Support

The Oracle support team includes your Technical Representative and Account Manager. It also includes Oracle consultants and support specialists who have expertise in your business area, and in managing an Oracle database server and your hardware and software environment.

OracleMetaLink is a self-service, web-based support connection, which is maintained by Oracle Support Services 24 hours a day, 7 days a week. Use it to obtain information and advice from technical libraries and forums, download patches, look at bug details, and create or update TARs. Register at <http://metalink.oracle.com>, and check for updates and information before you install or upgrade your Oracle Applications. The *Start Here* disk (included in the Oracle Applications Release 11i software bundle) also contains links to the various resources on OracleMetaLink.

Conventions

The following typographic conventions are used in this book:

Convention	Meaning
UNIX: Windows:	Indicates platform-specific information. This guide contains information for both UNIX and Windows platforms. Instructions for UNIX platforms also apply to Linux platforms, unless otherwise noted.
\$ or C:\>	Represents the platform-specific command prompt. Your prompt may differ.
Monospace text	Represents command line text. Type this text exactly as shown.
< >	Text enclosed in angle brackets represents a variable. Substitute a value for the variable text. Do not type the brackets.
[]	Encloses optional items or indicate a function key. <i>Do not type the brackets.</i>
	Represents an <i>or</i> option among several options. You must enter only one of the options. <i>Do not type the vertical bar.</i>
\	In examples of commands you type online, a backslash at the end of a line signifies that you must type the entire command on one line. <i>Do not type the backslash.</i>
Special Notes	Alert you about information within the body of the book. They include Additional Information, Note, and Caution.

Getting Started

This chapter contains basic information about using Rapid Install to install or upgrade Oracle Applications systems, a general description of the Rapid Wizard interface, and important setup steps you must complete before you begin an installation or upgrade. It consists of the following sections:

- How Rapid Install Works
- Installed Components and System Requirements
- Before You Begin
- Starting Rapid Install
- Gathering Configuration Information
- What To Do Next

How Rapid Install Works

With Rapid Install, you can perform these operations:

- install a new, fully configured Oracle Applications system, including the latest certified Oracle Applications technology stack and all patches, minipacks, family packs, and other updates available at the time of this release.
- lay down the file system and configure server processes for an upgraded system
- install a new database tier or application tier technology stack

Rapid Install employs a wizard that presents the screen flow associated with one of these operations. On the wizard screens, you enter configuration values for your system, and save them in a file (config.txt). When you run Rapid Install, you point it to that file so that it can use the parameters as it performs tasks such as creating the Oracle Applications file system, installing a fresh database, registering products, managing NLS requirements, configuring port connections, and creating and running the start and stop scripts for the database and listeners.

The main Rapid Install engine is AutoConfig. This tool simplifies and standardizes the management of your system configuration. AutoConfig uses the values in the configuration file to set up your system parameters, and then stores that information in a system-specific context file. At any time after the initial installation, you can change these values and run an AutoConfig script to populate the configuration files with the new values (using the Oracle Applications Manager AutoConfig tool). AutoConfig is delivered with and required for a new installation of Release 11.5.10.

Additional Information: See AutoConfig in *Oracle Applications Concepts*. See also Managing Configuration Parameters in *Oracle Applications Maintenance Procedures*.

Installing New Systems

With Rapid Install, you can set up a new installation using either a complete set of your own system-specific parameters, or a combination of a few key system-specific parameters and the Rapid Install default parameters. Both types (system-specific or express) offer the option of installing either a *fresh database* — one that is fully configured but contains no transaction data — or a *Vision Demo database* — one that contains transaction data for a fictitious company to use for training or demonstration purposes.

Additional Information: See Chapter 2 and Chapter 3 in this book.

New Installation (with system-specific parameters)

In a new installation, you define the configuration. You choose whether to install the system on a single node (machine) or across multiple nodes. In a *single-node* installation, the database, all product directories and AD core directories, and all servers (concurrent processing, forms, and Web) are installed on a single node under one common APPL_TOP. This type of installation is generally used for smaller systems or for demonstration purposes.

Note: All servers and services, except for the RDBMS, are commonly referred to as application tier servers (and services). Application tier is a logical grouping of servers based on system architecture and server functionality. See *Oracle Applications Concepts* for more information about the Applications architecture and file system.

Generally used for large systems, a *multi-node* installation distributes the RDBMS and application tier servers across two or more nodes. The core AD technology directories and all product directories are installed under the APPL_TOP on all tiers. Nodes can be configured to use a shared APPL_TOP.

Note: Nodes where *only* an RDBMS is installed do not contain an APPL_TOP.

New Installation (express)

In an express installation, you set up a fully configured, single-user/single-node system using a few basic configuration parameters, such as the database type and name, the top-level installation directory, and port increments. The remaining directories and mount points are supplied by Rapid Install using default values. An express installation contains a set of core products and the US7ASCII character set.

Managing Multi-node Installations

Release 11.5.10 is the first release of Rapid Install that can set up a shared APPL_TOP configuration and enable load balancing during the initial installation of a multi-node system.

Shared APPL_TOP

During the initial multi-node installation, Rapid Install creates a system with a shared APPL_TOP as the default configuration (for nodes that are running the same operating system).

Note: A shared APPL_TOP configuration is currently not supported on Windows platforms.

With a shared APPL_TOP, changes made to the file system are immediately available on all nodes. There are several important benefits of this configuration:

- Perform administration and patching tasks only once, on a single node.
- Distribute processing tasks to run in parallel (Distributed AD).
- Reduce overall disk requirements.
- Make adding additional nodes easier.

Additional Information: See Shared APPL_TOP in *Oracle Applications Concepts*.

Load Balancing

Load balancing distributes processing and communications activity evenly across networks so that no single node is overloaded. For example, processing loads can vary significantly for forms requests because it is difficult to predict the number of requests. Load balancing can spread these requests across multiple forms servers, so that the requests are forwarded to the "least loaded" server.

Additional Information: See Load Balancing in *Oracle Applications Concepts*. See also *Advanced Configurations and Topologies for Enterprise Deployments of E-Business Suite 11i* on OracleMetaLink (Doc ID: 217368.1).

Upgrading an Existing System

As part of a system upgrade, you enter configuration parameters in the Rapid Install wizard and run Rapid Install as one of the pre-upgrade tasks (performed prior to running AutoUpgrade). It uses the parameters to lay down the file system and install the new technology stack. You must also migrate or upgrade your existing database to Oracle9i as one of the pre-upgrade tasks.

Additional Information: See Database Upgrade Tasks in Chapter 3 of *Upgrading Oracle Applications*.

After you complete the pre-upgrade tasks, you run AutoUpgrade to upgrade products and update the database objects and code to Release 11i. Then, you run AutoPatch to apply the patches and run the drivers required to update the database to the most current release level (for example, 11.5.10). After you have completed the database upgrade, you run Rapid Install a second time to configure and start the servers and services.

Additional Information: See Chapter 4 in this book. See also Overview and Requirements in *Upgrading Oracle Applications*.

Installing a New Technology Stack

You can upgrade an existing database tier or application tier node to a new technology stack (techstack) by running the Rapid Install wizard to install only the technology stack components. This process creates the new ORACLE_HOMEs and generates configuration files using AutoConfig to switch to the updated technology stack. You can install a new technology stack without upgrading products.

Additional Information: See Chapter 5 in this book.

Installed Components and System Requirements

This section lists the certified components installed with Rapid Install and the general system requirements for an Oracle Applications Release 11*i* installation.

Additional Information: *Oracle Applications Installation Update Notes* contain any requirements that are platform-specific.

Technology Stack Components

Rapid Install automatically installs and configures the required technology stack components for both the database tier and the application tier.

The database tier technology stack for a new Oracle Applications Release 11*i* installation consists of an Oracle9*i* version 9.2.0.5 (9.2.0 Oracle home) for both new installations and upgrades.

Note: The database tier technology stack installed for Windows by Rapid Install is 9.2.0.5.3 (9.2.0 Oracle home).

The application tier technology stack includes:

- Oracle Internet Application Server *iAS* 1.0.2.2.2 — includes Oracle HTTP Server
- RDBMS 8.0.6 (Oracle Home)
- Oracle Developer6*i* (6.0.8.24):
 - Oracle Forms
 - Oracle Reports
 - Oracle Graphics
- Discoverer (4.1.48)
- JInitiator (1.3.1.18)

See the Certify web page for the latest certification information. You can access Certify from *OracleMetaLink* (Product Lifecycle > Certifications).

Additional Information: See Frequently Asked Questions about Certify, *OracleMetaLink* Doc ID: 119139.1. See also *Oracle Applications Concepts* for the architectural layout of the components.

Software Requirements

The following release maintenance tools must be installed on all nodes and in the PATH of the user account that runs the wizard in the PATH of the login accounts that will be assigned ownership of the database tier and the application tier file systems.

Additional Information: See Create Login Accounts in this chapter. See the *Oracle Applications Installation Update Notes* for specific software versions.

Operating System	Required Maintenance Tools
Solaris (SPARC)	ar, ld, make
Linux	ar, gcc, g++, ld, ksh, make
Windows	MSC ++, MKS Toolkit, GNU make
HP-Tru64	ar, cc, ld, make
HP-UX	ar, cc, acc, make
IBM AIX	ar, ld, linkx1C, make

CPU Requirements

CPU requirements for running Oracle Applications depend on:

- the number of concurrent users and their usage profiles
- the number of concurrent manager processes and the types of jobs that they are running
- the load for activities other than Oracle Applications
- the size of the database
- desired response time

Because there are different product combinations, different user profiles, and different configurations, there is no one sizing answer for all hardware platforms. The most reliable way to ensure that the hardware is sized appropriately is to install a test environment, and then set a benchmark with a configuration, product mix, and user load that simulates your own. These “actual” conditions can help verify performance before you install a production environment.

If a benchmark is not feasible, Oracle Consulting Services and your hardware vendor can help you find another Oracle Applications system running a product mix and user profile similar to yours. Some hardware vendors have sizing worksheets that model the CPU and memory requirements of Oracle Applications on their hardware.

Memory Requirements (RDBMS and forms server)

To calculate the memory requirements on the node where the RDBMS is installed, consider the following:

- Oracle database overhead
- size of system global areas (SGA)
- number of concurrent users
- other software running on the database tier

Use a guideline of 25 MB per user to estimate the Applications requirements for the node where you install the forms server.

Disk Space Requirements

Rapid Install installs the file system and database files for all products regardless of their licensed status. The approximate file sizes in a single-node installation are:

- Application tier file system – 26 GB (includes iAS/8.0.6 ORACLE_HOME, COMMON_TOP, and APPL_TOP)
- Database tier file system (fresh install with a production database) – 31 GB
- Database tier file system (fresh install with a Vision Demo database) – 65 GB
- Total space for a single node system, not including stage area, is 57 GB for a fresh install with a production database, and 91 GB for a fresh install with a Vision Demo database.

The database tier disk space requirements for both the production database and the Vision database include database files (.dbf) and the database ORACLE_HOME.

Stage area

To run Rapid Install from a stage area, you need at least 24 GB to accommodate the file system and database files in the stage area.

Additional Information: See Set Up the Stage Area on page 1-8.

Language files

If you are installing Oracle Applications in a language other than American English, you need additional space for the language files. Unloading and uncompressing the Applications files requires about 10.0 GB *per language* in the file system. Each language requires 800 MB in the database.

Note: Language files are located on language-specific software, which must be ordered separately. The additional space is required for these files when you unload these CDs.

Applications log and output files

Many Oracle Applications products generate log and output files during runtime. The disk space needed varies with the number of users and transactions, and depends on how frequently you purge these files. Consult the product-specific documentation for more information.

Note: Log and output files are not automatically purged. Determine a strategy for archiving and purging these files after the installation and monitor the disk space they consume to determine how much space you may need in the future.

Temporary directories and files

For runtime, Oracle Applications requires temporary disk space. Rapid Install sets the temporary directory based on the value you supply on node-specific settings screens. For example, each concurrent manager writes temporary parameter files, Oracle Reports writes temporary format files, and Oracle Forms writes temporary buffer records.

For installation time temporary disk space, Rapid Install uses the TEMP variable to define the temp directory.

Updates and patches

You will need disk space for applying updates, patches, maintenance packs, family packs, and minipacks, and for any backup files that may be created.

Additional Information: See AutoPatch in *Oracle Applications Maintenance Utilities*. See also Patching your System in *Oracle Applications Maintenance Procedures*.

Other files

The total disk space estimate must account for the requirements of files other than those directly related to Oracle Applications. For example:

- operating system software
- online backups
- custom Applications development files
- files for other applications that you use

Before You Begin

You must follow the steps in this section before you begin the installation. It is also important to be familiar with the other documentation referenced in this section.

Review Installation Plan and Documentation

Rapid Install handles the details of the installation or upgrade based on the information you enter on the Rapid Wizard screens. It's a good idea to collect and review all the information necessary for responding to the wizard before you begin.

At a minimum, you should read this book and review the associated *Oracle Applications Release Notes* and *Oracle Applications Installation Update Notes*, and you should understand the licensing agreement and installation plan for your company.

Additional Information: See Related Documents in the Preface.

Create Login Accounts

You must set up user login accounts for the installation of both the database tier and the application tier file systems. The way you create login accounts differs somewhat between UNIX users and Windows users. Follow the appropriate directions before you begin to use Rapid Install.

For UNIX users

The operating system user that owns the Oracle technology stack (including the database) is called the *oracle* user. The operating system user that owns the Oracle Applications file system and application tier technology stack is called the *applmgr* user.

Single-user UNIX installations In order to prepare for a single-user installation, you must first create an *oracle* user account and log in as the *oracle* user to run Rapid Install. The account should be created with a default shell that is compatible with Bourne Shell.

Multi-user UNIX installations In order to prepare for a multi-user installation, you must first create an *oracle* user account and an *applmgr* user account. Both should be created with a default shell that is compatible with Bourne Shell. Log in as *root* to run Rapid

Install. Then, specify the *oracle* user as the Oracle OS user and the *applmgr* user as the Apps OS user.

The *oracle* user owns the database tier Oracle home and the database files. The default name for the *oracle* user is ora<SID>. For example, for a production (PROD) environment, the default Oracle OS username might be *oraprod*.

The *applmgr* user owns the APPL_TOP, 8.0.6 Oracle home, and the iAS Oracle home. The default name is appl<SID>. For example, for a Vision Demonstration (VIS) environment, the default Apps OS username might be *applvis*.

For a multi-user install, you must install both the database server and one or more application servers on the same node. On such nodes, you can assign one user account to be the owner of the database tier file system, and another to be the owner of the application tier file system. If you are installing a system where the database server is on one node and all the application tier servers are on one or more separate nodes, then essentially you will perform a single-user installation on each node.

For Windows users

On Windows platforms, the user who runs Rapid Install owns the file system for all components (both the database file system and the Oracle Applications file system). *The Windows installation is equivalent to the UNIX single-user installation.*

Before you install Oracle Applications, make sure the user account for the installation (the *install* user) has full local administrative privileges and permission to print to either local or network printers. We suggest you create a new account (for example, *oracle*) on the domain level and make it a member of these groups:

- Administrators (local user)
- Domain Users (Domain user)

This account does not need to be a member of any other group, and must not be a member of the GUEST group. Refer to Windows Help for information on creating accounts and assigning accounts to groups.

Install Java Development Kit (JDK)

This release of Oracle Applications requires JDK 1.4.2. Rapid Install installs it automatically on Solaris, Linux, and Windows operating systems. If your installation is on another platform, you must download and install JDK before you continue with the installation or upgrade. See the Oracle Applications Installation Update Notes for platform-specific instructions.

Set Up the Stage Area

As preparation for running Rapid Install, you run a Perl script that creates the install directory and copies the contents of the Release 11*i* software bundle to the appropriate place in the file system.

Note: For information on using Oracle Electronic Delivery to download Rapid Install software, see *Oracle Applications Release Notes*.

Software Components

Your installation software comes in DVD format. The individual disks included in the Release 11*i* software bundle are labeled as follows:

- Start Here - Disk 1
- APPL_TOP - Disk *n*
- RDBMS - Disk *n*
- Tools - Disk *n*
- Databases - Disk *n*

If you are an NLS customer, you should also have the NLS Supplement - Disk *n* software for *each* language (in addition to American English) you plan to install. You should order the NLS Supplement software and have it available *before* you begin the installation. Rapid Install requires this language-specific software to run to completion.

Creating the Stage Area Directory

To create the stage area directory, run `adautostg.pl`. If the script cannot create the directories, or if there are other system parameters that require modification, it prompts you to adjust the parameters. You must fix any issues described in the prompts before you continue with the setup process.

Note: You must have perl 5.0053 installed, and it must be in your PATH. For Windows users, the perl shipped by MKS is *not* certified. Use *ActivePerl*, which you can download from perl.com.

Follow these steps to set up a stage area installation:

1. Insert the Start Here disk in the DVD-ROM drive.
2. Mount the DVD (conditional)

If your system runs on a Unix platform, and if you do not use AutoMount, you must mount the Start Here disk at this time.

3. Run the `adautostg.pl` script.

UNIX:

```
$ cd /mnt/cdrom/Disk1/rapidwiz
$ perl adautostg.pl
```

Windows:

```
C:\> d:
D:\> cd Disk1\rapidwiz
D:\rapidwiz> perl adautostg.pl
```

The stage script message informs you that you can stage all the Rapid Install components or only selected components.

4. Set up the stage area directory.

At the prompt for the stage directory, enter the name of the system top-level directory. The Rapid wizard stage11i directory will be created in this path. For example, if you enter `/u01` as the top-level directory, the resulting directory path will be `/u01/Stage11i`.

5. Indicate the components to be staged.

The script lists the short names for the components that you can stage: Apps, DB, AppsDB, iAS, and NLS. Enter one or more components, separating each one with a space. For example, you can indicate that you want to stage only the database

(DB), only the APPL_TOP (Apps) and the database (DB), only NLS, and so on. If you include NLS at this prompt, the system lists the language short names and asks you to indicate all languages that you will stage.

If you type All at the prompt, the Apps, DB, AppsDB, and iAS components will be staged. However, choosing All *does not* include the NLS component. You must explicitly select it, either as one of the individual components or at the next prompt.

6. Indicate whether you will stage language (NLS) software (conditional).

If you typed All at the previous prompt, the script asks if you will stage the NLS software component. If Yes, you will be prompted for the language short name. If you enter more than one language, separate the names with a space.

7. Insert the Rapid Install DVD.

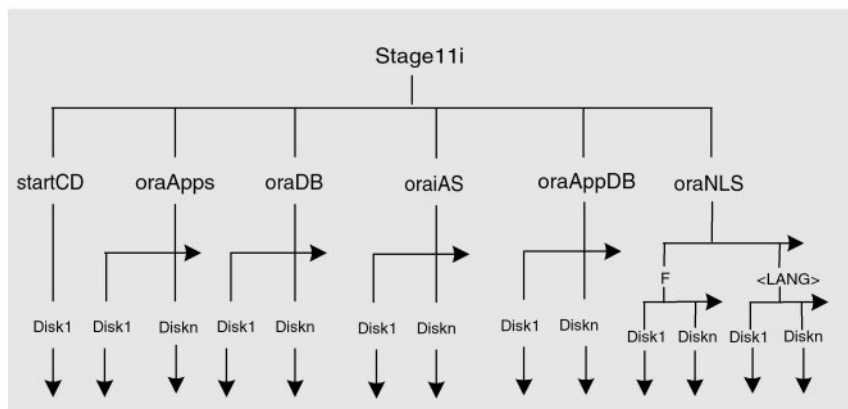
Insert the Rapid Install software as required in the prompt. The system message lists the files it has copied and their location in the stage area directory.

8. Insert the NLS DVD (conditional).

If you indicated that you will install languages, the script prompts for the language software it needs to complete your installation.

Stage Area Directory Structure

The stage area created by adautostg.pl looks like this: a top-level directory <Stage11i>, with subdirectories startCD, oraApps, oraDB, oraIAS, oraAppDB, and oraNLS/<LANG> (only if required).



Note: If you are installing a language(s) other than American English, the script substitutes the language code for the <LANG> variable when it creates the directory structure.

Starting Rapid Install

Once the stage directory is created, start Rapid Install as described in the following section.

UNIX:

```
$ cd /u01/Stage11i/startCD/Disk1/rapidwiz
$ ./rapidwiz
```

Windows:

```
C:\> f:
F:\> cd Stage11i\startCD\Disk1\rapidwiz
F:\Stage11i\startCD\Disk1\rapidwiz> rapidwiz.cmd
```

Special Startup Options

You can add parameters to the Rapid Install startup command to change its behavior.

Using an alias for the host machine

If you want to use an alias (not the true name of the host machine), use the `-servername` parameter when you start Rapid Install.

UNIX:

```
$ rapidwiz -servername <myhost>.<mydomain>
```

Windows:

```
D:\RAPIDWIZ> Rapidwiz.cmd -servername <myhost>.<mydomain>
```

Restarting the installation

If the installation process terminates before completion, use the `-restart` parameter to run Rapid Install again.

UNIX:

```
$ rapidwiz -restart
```

Windows:

```
D:\RAPIDWIZ> Rapidwiz.cmd -restart
```

See Restart the Installation in Chapter 2 (for single-node installations) or in Chapter 3 (for multi-node installations) for more information.

Installing a new technology stack

Rapid Install can install a new technology stack for the database tier (Oracle9i 9.2.0.5) or the application tier (9iAS 1.0.2.2.2) in an existing system. To access the Rapid Install screen flow for a technology stack installation, use the `-techstack` parameter when you start Rapid Install.

UNIX:

```
$ rapidwiz -techstack
```

Windows:

```
D:\RAPIDWIZ> Rapidwiz.cmd -techstack
```

Additional Information: See Chapter 5 for details about upgrading the technology stack.

Gathering Configuration Information

The Rapid Install wizard provides input screens to gather system-specific values for configuring a new or upgraded system.

Note: You should be familiar with system requirements, resources, and product licensing agreements before you run Rapid Install. You should also have a complete understanding of Oracle DBA or system administrator responsibilities.

Top-level directories and mount points

Rapid Install needs to know about the top-level directories and mount points on the node(s) where you will install the RDBMS, and the node(s) where you will install the application tier servers. It derives subdirectories from these top-level directories.

Products and country-specific functionalities

During the installation, Rapid Install automatically installs all products, country-specific functionalities (localized products), and required shared products in the database and in the file system regardless of license status. *Licensed products* are those specified in your licensing agreement with Oracle Corporation.

However, you must indicate on the Rapid Install wizard screens which products and country-specific functionalities you have licensed to register them as being active in your system. This active flag is important during any patching and other system-wide maintenance tasks that are performed after the initial installation or upgrade.

NLS settings

Release 11*i* provides multilingual support for textual parts of Oracle Applications and for product data. Because it supports the Unicode UTF8 character set, there is no limit to the number of languages that can be run in a single instance. You choose the character set for both the database and the Applications products when you run Rapid Install.

The profile options for language and territory are configured at the site level when you run Rapid Install. It uses the language you choose as the base language for the language profile, and it derives the default settings for date and number formats from the territory profile setting.

Additional Information: See Internationalization Support in *Oracle Applications Concepts*.

Navigating in the Wizard

The Rapid Install input screens are in the form of a wizard, which prompts you for the information needed to install a new system or upgrade an existing one. As you use the wizard, the following navigation conventions apply.

Input fields and drop-down lists

Select options by clicking the appropriate radio button. Complete or accept the default in input fields that are not grayed out. You can type information directly into input boxes or select information from the list of valid options in fields that have a drop-down menu.

Drop-down lists present all the valid options for an input field. Click an option to select it. Combo boxes also present valid options in the form of a drop-down list. But they also allow you to replace an option on the list by typing in a valid option. When this type of input is allowed, it is noted in the text.

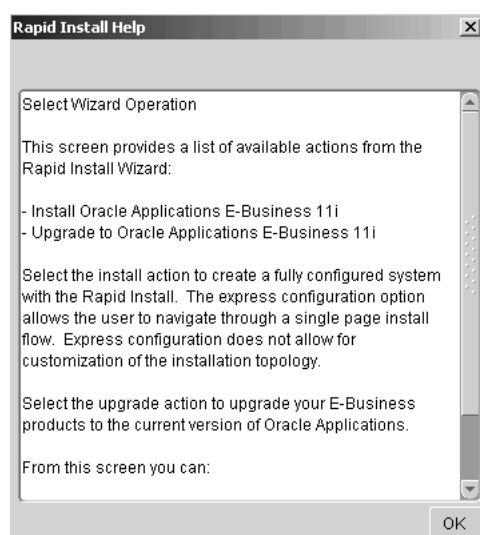
Buttons and Keys

On each screen, you can click the Tab key or press the Up or Down Arrow keys to move between options. There are buttons at the bottom of each screen that allow you to Cancel the Rapid Install process or move either Back to the previous screen or forward to the Next screen. Vertical and horizontal scroll bars make it possible to move all fields into view.

Help

Most screens offer "mouse-over" help for individual fields. A description of the information that goes in the field appears in a small text box when you move the mouse over the field itself.

In addition, most screens display a Help button. Click it to see screen-level help — a general description of the screen and a summary of the input fields that it displays. Here is an example of screen-level help.



Once you have reviewed the information on a help screen, clicking OK returns you to the wizard screen where you requested the help.

What To Do Next

Start Rapid Install and begin the installation. Then, choose one of the following paths:

- If you want to install all servers, including the RDBMS, and perform all administration tasks on a single node, follow the steps in Chapter 2.
- If you want to distribute servers and administration tasks on two or more nodes, follow the steps in Chapter 3.
- If you are upgrading your Oracle Applications from Release 10.7 or Release 11.0, follow the steps in Chapter 4.
- If you are installing a new technology stack for an existing system, follow the steps in Chapter 5.

When you have completed the steps in the chapter that applies to your system, read and follow the instructions in Chapter 6 to finish the installation or upgrade.

Single-node Installations

To set up a single-node system, you complete the appropriate screens in the Rapid Install wizard. This chapter describes those screens in the following sections:

- Performing a Single-node Installation
- Setting Up an Express Installation
- What To Do Next

Performing a Single-node Installation

In a single-node installation, the database, all product directories, all servers (concurrent processing, forms, and Web) are installed on a single node under one common APPL_TOP. This section describes how to specify a single-node configuration using the Rapid Install wizard screens.

Additional Information: See Applications File System in *Oracle Applications Concepts*.

Note: If you want to set up a multi-node system, omit this chapter and go to Chapter 3.

Describe the System Configuration

Rapid Install offers two options for a new installation: create a new system using system-specific configuration parameters, or perform an express installation, which combines some basic system-specific parameters with the Rapid Install defaults. This section describes the setup steps for a system with system-specific parameters. An express installation is described on page 2-22.

Follow the instructions in the Before You Begin section in Chapter 1. Then, complete the following tasks.

Step 1 Start the Rapid Install wizard

Start the wizard from the command line by typing *rapidwiz* at the prompt. The Welcome screen appears.



This screen lists the components that are included in, or supported by, this release of Oracle Applications. Use the scroll bar to bring all the components into view.

Notice that a new installation contains a fresh Oracle9i (9.2.0.5) RDBMS. For an upgrade, Rapid Install installs an Oracle9i (9.2.0.5) RDBMS Oracle home without a database. You can use this Oracle home to upgrade or migrate your existing database to Oracle9i. See Chapter 4 in *Upgrading Oracle Applications*.

This screen is for information only. No action is required. Click Next to continue.

Step 2 Select a wizard operation

Use the Select Wizard Operation screen to indicate the action you want Rapid Install to perform. You begin both new installations and upgrades from this screen. Based on the action you choose, the Rapid Install wizard continues with the appropriate screen flow.



The available actions are as follows:

- Install Oracle Applications E-Business 11i

This action sets up a new, fully configured system, with either a fresh database or a Vision Demo database. The configuration is derived from the system-specific

configuration parameters you enter in the Rapid Install wizard and save in the configuration file (config.txt). This custom configuration reflects the way you will use your Oracle Applications products.

Additional Information: The steps in this chapter and in Chapter 3 describe a new installation.

- Express Configuration

This action sets up a fully configured, single-user/single-node system with either a fresh database or Vision Demo database. You supply a few basic parameters, such as database type and name, top-level install directory, and increments for port settings. The remaining directories and mount points are supplied by Rapid Install using default values.

Additional Information: The steps in Setting Up an Express Installation in this chapter describe this option.

- Upgrade to Oracle Applications E-Business 11i

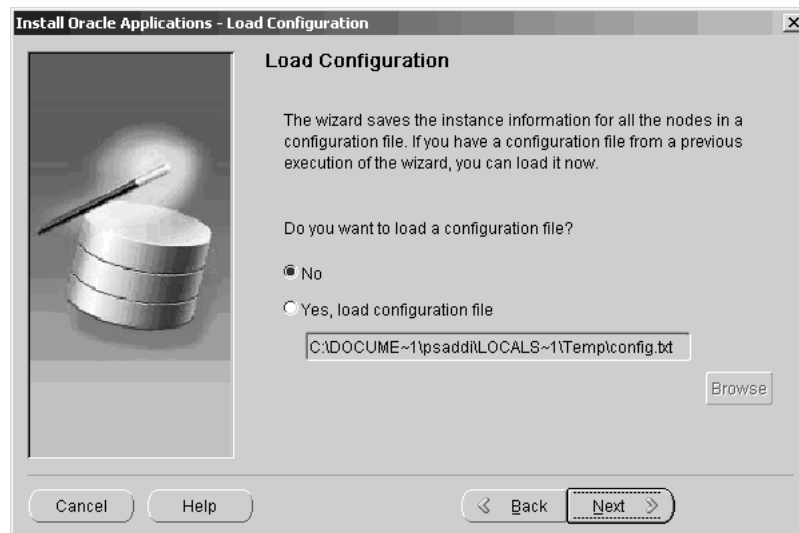
Choose this option to indicate that you are upgrading your E-Business Suite products to the current version of Oracle Applications. The wizard screen flow presents two paths: one that lays down the file system and installs the new technology stack, and one that configures servers and starts services.

Additional Information: See Chapter 4 to learn how Rapid Install works during a system upgrade.

In the following steps, you will set up a new installation. Click Install Oracle Applications E-Business 11i. Click Next to continue.

Step 3 Identify configuration file

On the Load Configuration screen, you indicate whether you will be using an existing configuration file.



If you answer No, Rapid Install saves the configuration parameters you enter on the wizard screens in a new configuration file (config.txt) that it will use to configure your

system for the new installation. You indicate the location and the name of the new configuration file on a subsequent screen.

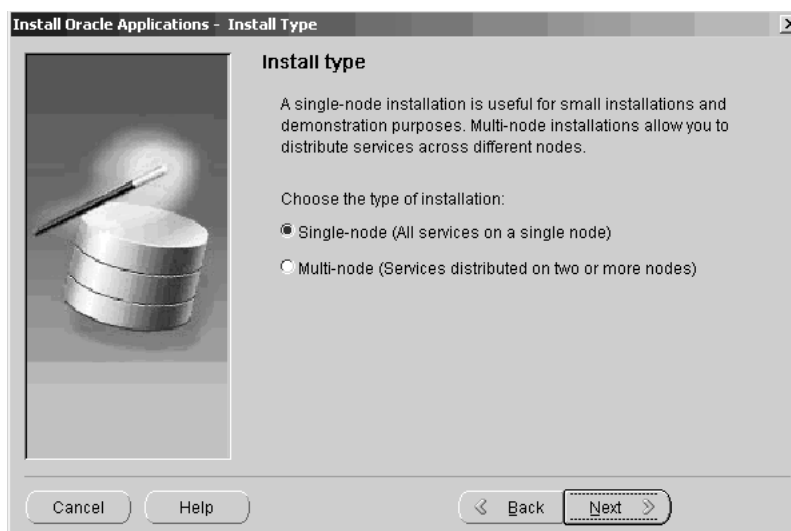
If you choose "Yes, load configuration file," the directory path field becomes active. Entering the file name and path points Rapid Install to a previously stored configuration and indicates that you want to use those parameters. Typically, you choose this option when copying the configuration file to other nodes in a multi-node installation, or when restarting Rapid Install after an interruption in the installation processing.

Additional Information: See Setting Up the Other Nodes in Chapter 3. See also Restart the Installation on page 2-20.

Because this is a new installation, click No, and click Next to continue.

Step 4 Choose installation type

On the Install Type screen, you indicate whether you want to install servers on a single node or distribute them across multiple nodes.



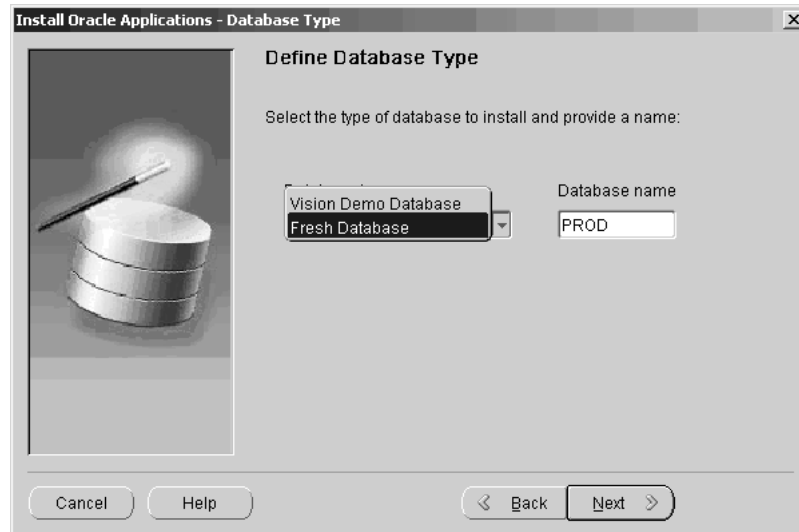
In a single-node installation, the RDBMS, the core AD directories and product directories, and the concurrent processing, forms, and Web servers are installed on one node under a common APPL_TOP.

In a multi-node installation, the RDBMS and the concurrent processing server, forms server, and Web server can be distributed across multiple nodes. The core AD directories and all product directories are installed under the APPL_TOP on all tiers. Nodes can be configured to share an APPL_TOP.

To set up a single-node system, click Single-node. Click Next to continue.

Step 5 Define database type

On the Database Type screen, indicate the kind of database you want to install in the new system and supply the name you will use to identify it.



You can install a fresh database or a Vision Demo database.

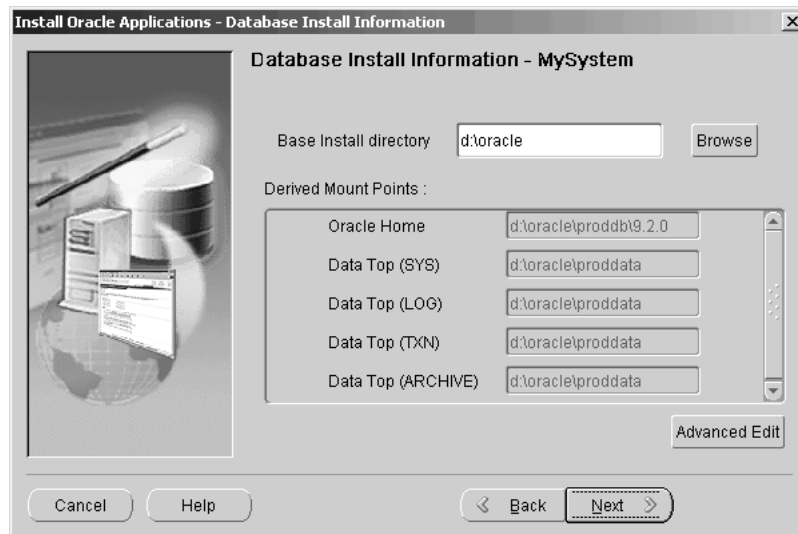
- A *fresh* database is fully configured and ready for a new implementation. This type of database is suitable for any type of system that requires a fresh database, such as a production system or a test system. The default name for a production database is PROD. If you are installing a database for another use, for example as a test system or a backup system, choose the Fresh Database option and enter a Database Name that reflects that purpose, for example TEST.
- A *Vision Demo* database is used for demonstration or training purposes. It contains a fully configured Oracle Applications system that has been implemented and populated with a set of transactions for a fictitious company. The Vision Demo database is set up for multiple-organization use. It is installed with the UTF8 character set to maximize the support for character sets in this release. The default database name is VIS.

In this example, use the Database Type drop-down list to select a fresh database. Accept the default Database Name or type in another name (alphanumeric, not to exceed 8 characters in length, with no spaces) for the local instance. This name is often referred to as the database SID.

Click Next to continue.

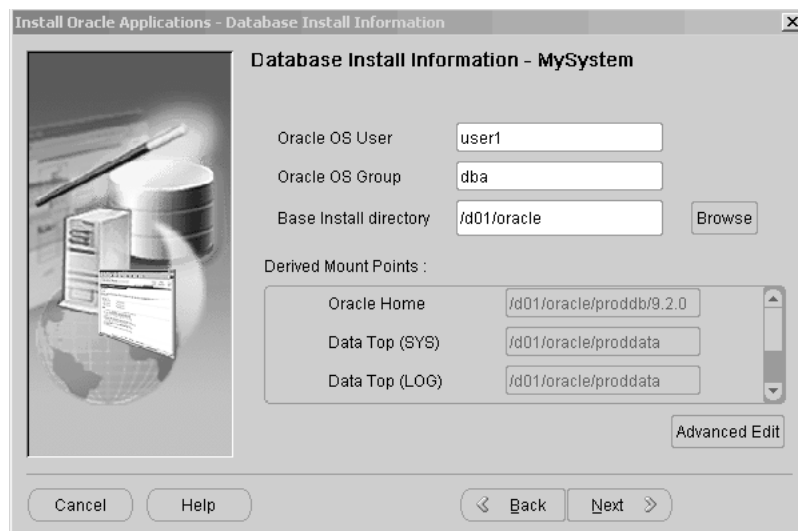
Step 6 Set up database installation directory

The Database Install Information screen prompts you for information Rapid Install needs to set up and install the database.



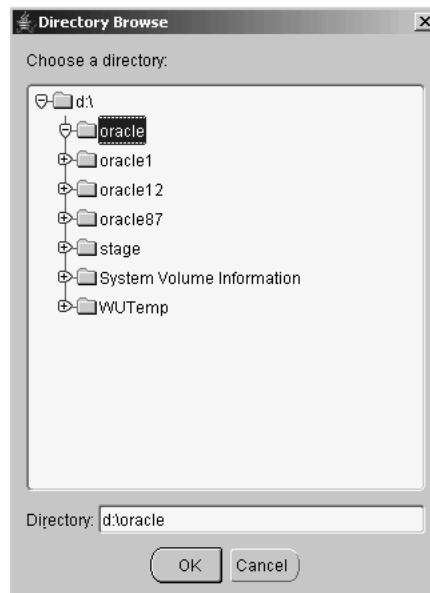
The "Base Install directory" field defaults to a sample directory name, using the operating system syntax for the machine where you started the Rapid Install wizard. In this example, the syntax is for Windows. This directory is the top-level directory that Rapid Install uses to derive the mount points associated with the RDBMS.

On a Unix (or Linux) operating system, the screen would look like this.



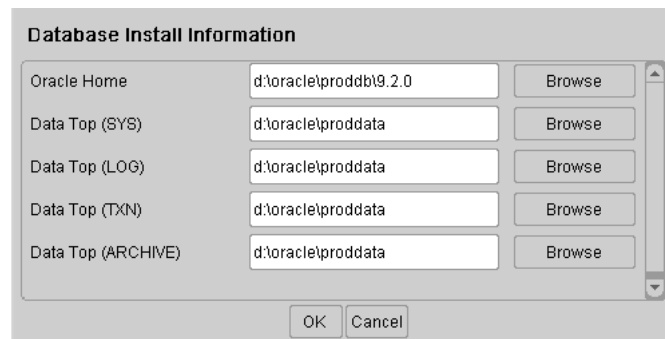
Notice that the syntax has changed, and there are two fields that are specific to this platform. The Oracle OS User is the account that will own the database server file system. Enter the name of the Oracle OS Group. The Oracle OS User may belong to other groups, but it *must* belong to this group.

Enter a base installation directory on this screen, or click Browse.



Navigate to the new directory, and highlight the path, or enter a path in the Directory field. Click OK to save the changes and return to the Database Install Information screen. Click Cancel to return without making changes.

From the Database Install Information screen, click Advanced Edit to review the derived mount points or to change the directory paths.



This screen displays default directories based on the base installation directory you specified on the Database Install Information screen. Table A-1 in Appendix A defines these mount points. Accept the defaults or change the derived mount points as needed. Click OK to return to the Database Install Information screen. Then, click Next to continue.

Note: If you are installing a Vision Demo database, the wizard omits the next few screens because the products are pre-set in this database. Go to Step 9 to continue.

Step 7 Select product license type

On the Suite Selection screen, the wizard prompts you to indicate the type of licensing agreement you have purchased from Oracle Applications. It then presents the appropriate licensing screen. *Completing a licensing screen does not constitute a license agreement.* It simply registers your products as active.

Note: The only way to set up a license agreement is to purchase Applications products through the Oracle Store or an Oracle sales representative. You should have complete information about your product license before you complete the licensing screens.



Rapid Install installs all products regardless of their licensed status. However, you must register products you have licensed so that they are flagged in the system as active. An active flag marks products for inclusion in patching and other tasks that you will perform to update and maintain your system after the initial installation.

Note: Rapid Install automatically installs and registers shared and dependent products for you.

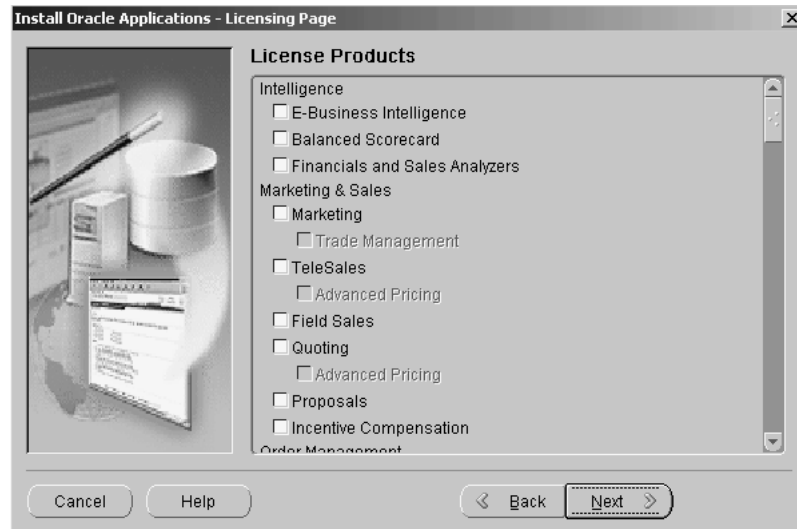
You can register products for either the E-Business Suite license model or the Component Applications license model. Complete only one licensing screen.

If you clicked the E-Business Suite licensing option on the Suite Selection screen, the Licensing Page for that option appears.



This licensing model allows wide access to Applications functionality. By choosing it, you tell Rapid Install to automatically register all products included in the E-Business Suite price bundle. The products that are checked and grayed are licensed automatically as a part of the suite. The ones that are not must be registered separately as add-on products — they are not part of the E-Business Suite price bundle. Place a check mark next to any add-on products you have licensed and want to register.

If you clicked the Component Applications licensing option on the Suite Selection screen, the Licensing Page for that option appears.



Choose this option if your licensing agreement is for individual Applications Component products. These products are licensed based on the number of authorized users or on the number of business transactions processed. All individual products are listed on this screen. Products that are grayed out cannot be selected unless the "parent" component is selected.

Note: To register additional products after the initial installation, use the Oracle Applications Manager (OAM) License Manager. See *Registering Products in Oracle Applications Maintenance Procedures*.

Complete the appropriate screen. Click Next to continue.

Step 8 Select country-specific functionality

Some systems require the country-specific functionality of a localized Applications product. For example, if your company operates in Canada, products such as Human Resources require additional features to accommodate the Canadian labor laws and codes that differ from those in the United States. You register the name of the region associated with the localized product on the Select Country-specific Functionalities screen.

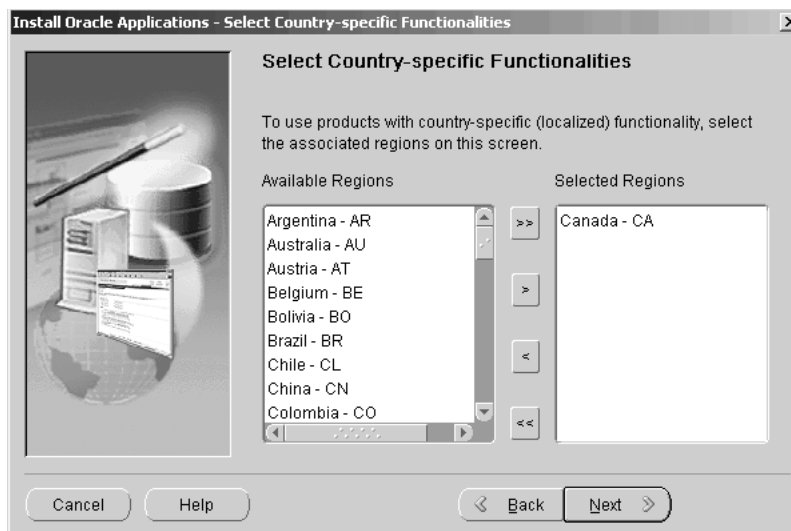
If your company operates only in the US, you can bypass this screen. If you begin doing business in another country at a later date, you can register the associated region at any time after the initial installation or upgrade by using the OAM License Manager.

Additional Information: See License Manager in *Oracle Applications Maintenance Utilities*.



All the country-specific functionalities that Oracle supports are listed on this screen, arranged alphabetically. Double-click a region in the Available Regions box to move it into the Selected Regions box or highlight it and click the right arrow (>). To de-select a region, highlight it and double-click or click the left arrow (<) to remove it from the Selected Regions box.

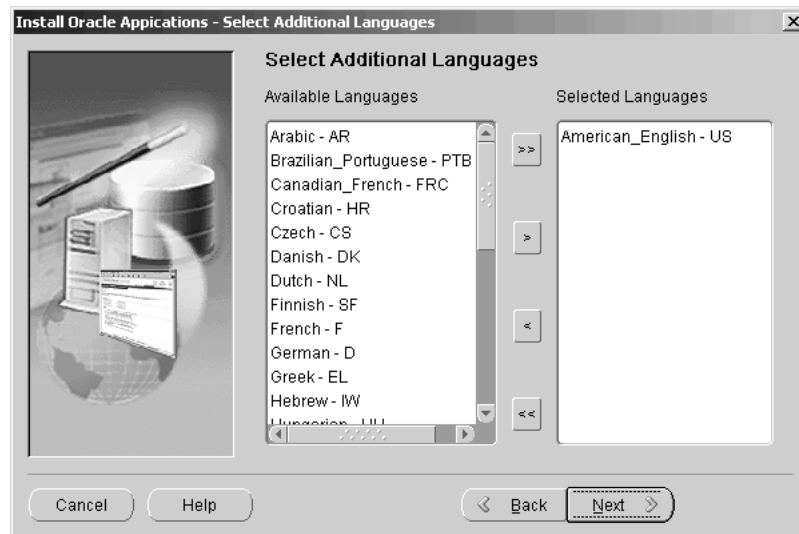
For example, if you select Canada, the screen would look like this.



To select or de-select all the regions and move them between boxes in a single action, use the double arrows. Click Next to continue.

Step 9 Select additional languages

American English is installed in your system by default. However, Oracle Applications supports numerous other languages. Use the Select Additional Languages screen to indicate the languages required for your system. You can select any number of languages to run in a single instance.



Prior to Release 11.5.9, the Rapid Install wizard registered additional languages as active — it did not actually install them. *In this release, the language files will be installed in the APPL_TOP. The languages you select also determine other NLS-related configuration parameters, such as base language, territory, and character set, your system requires.*

Additional Information: See Internationalization Support in *Oracle Applications Concepts*.

Double-click a language in the Available Languages box to move it into the Selected Languages box or highlight it and click the right arrow (>). Highlight a language in the Selected Languages box and click the left arrow (<) to remove it. The example shows Canadian French selected as an additional language.

To select or de-select all languages in a single action, use the double arrows. You *cannot* remove American English from the Selected Languages box.



The wizard prompts you for the location of the translated software later in the installation. You *must* have the *Oracle Applications Release 11i NLS* software available at that time.

Caution: If you do not have the language translations available when Rapid Install prompts for the location, the installation will stop and you will not be able to continue. Once you have installed a language, you cannot remove it.

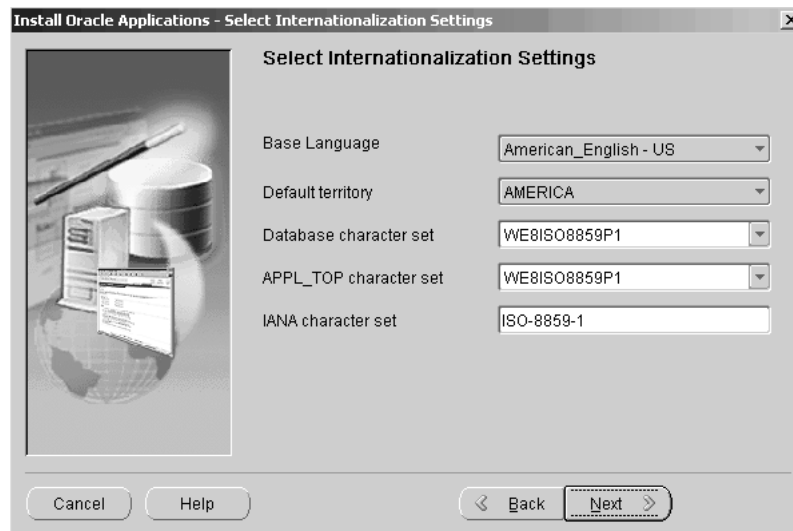
You may need to perform additional tasks to finish the language installation. See *Oracle Applications NLS Release Notes* for details. You can register additional languages any time after the initial installation or upgrade. See *Registering Languages in Oracle Applications Maintenance Procedures*.

Click Next to continue.

Step 10 Select internationalization (NLS) settings

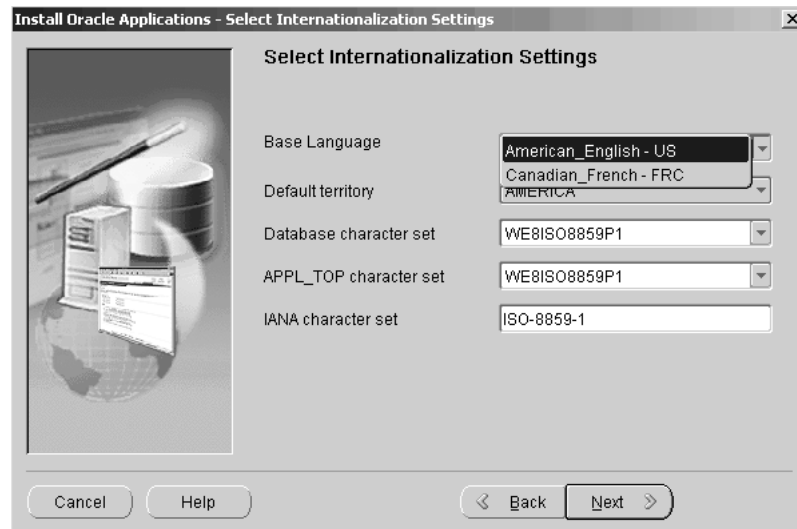
The Select Internationalization Settings screen derives information from the languages you entered on the Select Additional Languages screen. You use it to further define NLS configuration parameters.

The NLS language and territory settings are stored as profile options in the database. They are configured at the site level when you run Rapid Install. The base language is used for the default language setting and the default territory is used for the territory profile option. Users inherit these values the first time they log on to Oracle Applications using the E-Business Suite Homepage.



The Base Language defaults to American English. If you chose to install additional languages on the Select Additional Languages screen, they appear in the drop-down list as options. In this example, the choices are American English and Canadian French.

Rapid Install does not set RDBMS date and numeric formats during installation. It uses default formats based on the territory profile setting (as derived from NLS_LANG). The Default Territory is AMERICA at the site level. Enter a new value, as needed, based on your user requirements.

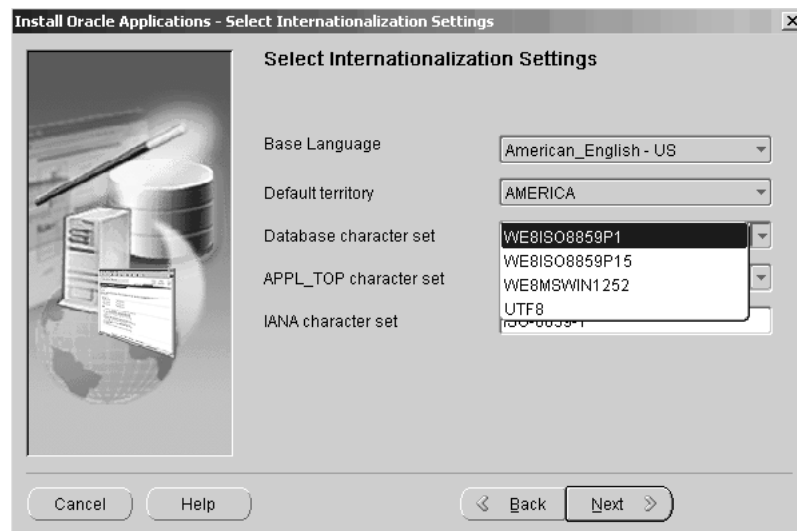


Select a base language or accept American English as the default.

The "Database character set" and the "APPL_TOP character set" drop-down menus initially show US7ASCII as the default character set. Other compatible character sets are listed as well.

Note: UTF8 is the default character set for the Vision Demonstration database and the APPL_TOP. You cannot convert either of these character sets. Additional setup steps are required systems with fresh install databases that will use UTF8. See Set Up UTF8 Character Set in Chapter 6 for details.

However, because you selected Canadian French as an additional language, the character set choices have changed and now include only those that are compatible with both American English and Canadian French.



If you want to change the character set in either the database or the APPL_TOP, select a new value from the drop-down list.

Note: The languages you install must be compatible with the character set you choose. The conversion is automatic, but it may take several hours to complete.

The IANA (Internet Assigned Numbers Authority) character set is the Internet-assigned standard character set name used by the Web server. You can change this value, as needed. See <http://www.iana.org/assignments/character-sets> for more information.

Complete the appropriate fields on this screen, and click Next to continue.

Step 11 Enter node-specific information

You have already specified the top-level directory and the mount points for the RDBMS. Now, you must specify top-level directory and subdirectories associated with the application tier servers. The administration server contains the files and processes used to perform patching and other maintenance tasks.

In a single-node installation, these servers are on the same node, so you can enter all the parameters on the Admin Server/Concurrent Mgr/Forms Server/Web Server screen.

The default sample directories use the syntax of the operating system where you started Rapid Install. In addition, some of the fields are operating system-specific. The MKS directory and MSDEV directory are specific to Windows. Enter the location of the MKS tools, and the location of the Visual C/C++ executables and .DLLs, respectively. If this is a Unix or Linux system, complete the information for Apps OS User (the owner of the application tier file system and technology stack) and Apps OS Group (the group that the Apps OS User belongs to). Accept the defaults or enter new values.

The Base Install directory is the top-level directory that Rapid Install will use to derive the mount points for the application tier servers on this node. You can accept the defaults or enter new values. Click Browse to navigate to a new path. Double-click the directory to select it.

To review or change values in the "Derived mount points" field, click Advanced Edit.

Application Tier Mount Points

Configuration Information for Node -

APPL_TOP Mount point	d:\oracle\prodappl	Browse
APPL_TOP aux. 1	d:\oracle\prodappl	Browse
APPL_TOP aux. 2	d:\oracle\prodappl	Browse
APPL_TOP aux. 3	d:\oracle\prodappl	Browse
COMMON_TOP	d:\oracle\prodcomm	Browse
8.0.6 ORACLE_HOME	d:\oracle\prodora18.0.6	Browse
IAS ORACLE_HOME	d:\oracle\prodora18IAS	Browse
Temp Directory	d:\oracle\prodcomm\temp	Browse

OK Cancel

On the Application Tier Mount Points page, use the vertical scroll bar or the Up and Down Arrow keys to move the derived settings fields and default values into view. Table A-2 in Appendix A defines the fields. You can change this information or accept the defaults. Use the Browse button to navigate to a new directory path, and double-click the path to select it. Click Next to continue.

Step 12 Review global settings

Rapid Install uses the values specified on the Global Settings screen to identify a qualified domain name and to derive port settings that your system will use to connect services and listeners.

Install Oracle Applications - Global Settings

Global System Settings

Domain Name: us.oracle.com

Port Pool can be used to increment all port values at once. Use advanced edit for individual updates.

Port Pool: 0

Derived Port Settings :

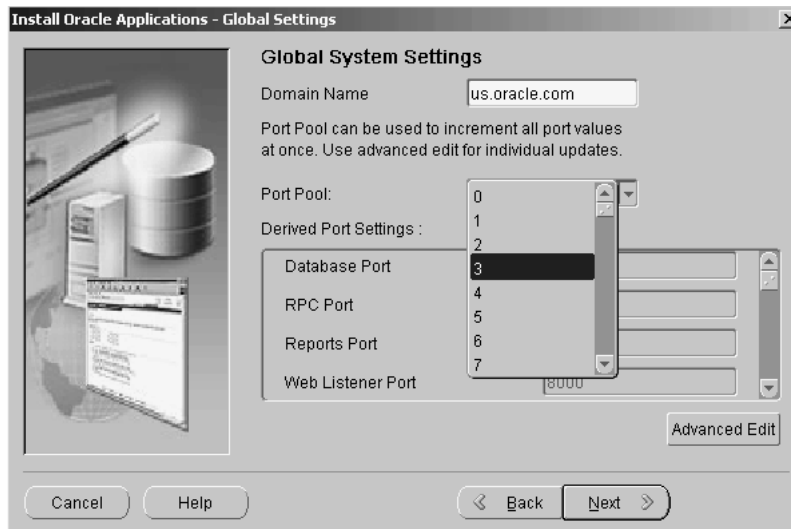
Database Port	1521
RPC Port	1626
Reports Port	7000
Web Listener Port	8000

Advanced Edit

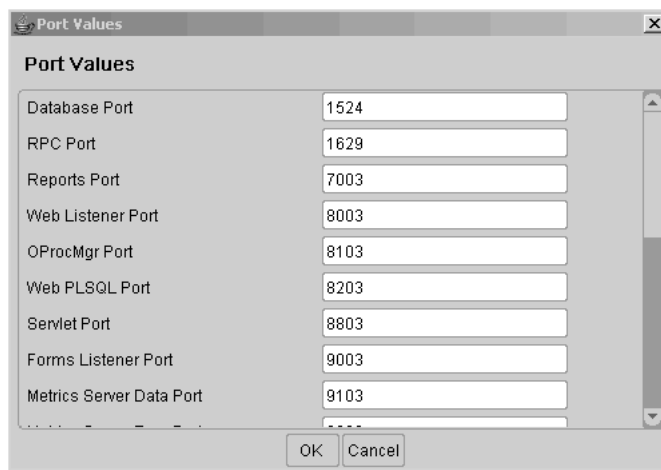
Cancel Help Back Next

Enter a valid value for the Domain Name. This value, when combined with a host name, must produce a fully qualified domain name. For example, for <myhost>.us.oracle.com, the domain name is us.oracle.com.

The starting number of the port value is pre-set, but you can customize it by selecting an incremental number from the drop-down list in the Port Pool field. There are 100 port pool selections.



For example, if you select an increment of 3 from the Port Pool list, the values in the Derived Port Settings will reflect this choice. Use the scroll bar or click Advanced Edit to see the Port Values screen.



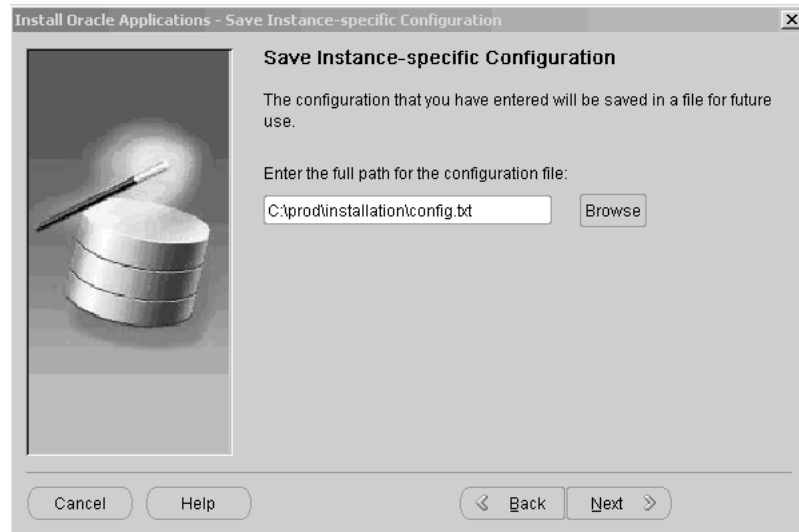
Because you selected an increment of 3, the default values are increased by that value. The Database Port (1521) has become 1524, the RPC Port (1626) has become 1629, and so on.

You can also specify ports by manually adjusting individual values on this screen. Use the vertical scroll bar or the Up and Down Arrow keys to move through the port settings. See Table A-3 in Appendix A for definitions.

Click OK save your changes and return to the Global Settings screen. Click Cancel to return to the Global Settings screen without making changes. Then, click Next to continue.

Step 13 Save the configuration file

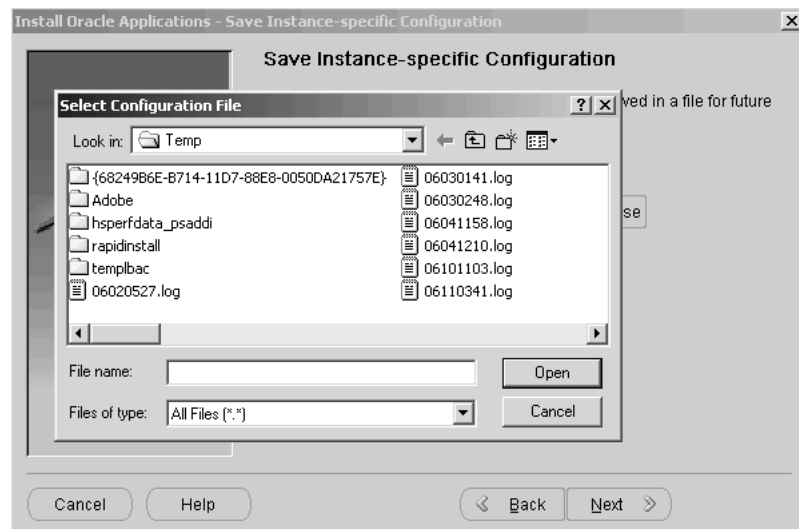
You have now completed all the information Rapid Install needs to set up and install a single-node system. The Save Instance-specific Configuration screen asks you to save the values you have entered in the wizard in a configuration file (config.txt or user-supplied name).



The configuration file contains all the information required to configure a specific Oracle Applications instance. Rapid Install uses these values during the installation to create the file system, install the database, and configure and start the server processes. It then stores the values in a central repository called a *context file*, which you can use to modify the system configuration at any time after the installation is complete.

Additional Information: See *AutoConfig in Oracle Applications Concepts*. See also *Modifying Configuration Parameters in Oracle Applications Maintenance Procedures*.

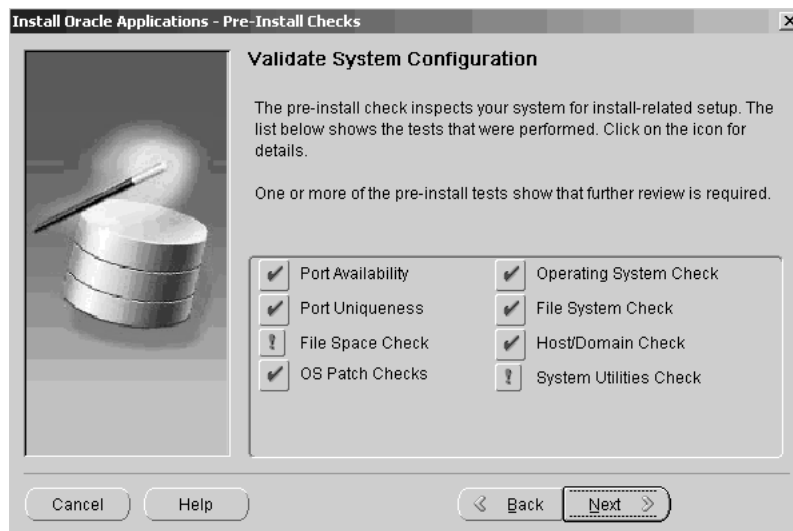
The default location of the config.txt file is the system temporary directory. It's a good idea to choose a permanent directory location because you may use this file at a later date. Enter a directory path or click Browse.



Navigate to the new directory path. Highlight the path and double-click to select it. Click Next to continue.

Step 14 Review pre-install test checks

Rapid Install performs a series of system tests to validate the configuration described in the configuration file. On the Pre-Install Checks screen it lists the tests performed and marks each one with an indication of whether it succeeded or failed.



The parameters that Rapid Install validates and reports on this screen include:

This test...	Validates these parameters...
Port Availability	The ports you selected are available for use.
Operating System Check	The version levels of your operating system.
Port Uniqueness	There are no duplicate defined ports for server processes.
File System Check	File system mount points exist and have correct privileges.
File Space Check	File system mount points have sufficient space.
Host/Domain Check	Host and domain names are verified.
OS Patch Checks	The patch level of your operating system.
System Utilities Check	Linking utilities (make, ld, and cc) are available.
OS User and Group check	Shown only if running on Unix or Linux systems. Indicates that the OS user account and group exist, and the user account is a member of the group.
JDK Availability Check	Not performed on Solaris, Linux, or Windows platforms because JDK is installed automatically by Rapid Install. On other platforms, Rapid Install prompts you to enter the directory path to JDK. The test then verifies that JDK is available. See <i>Oracle Applications Installation Notes</i> for more information.

The results of each test are labeled with icons. There are three result types:

- Check mark
The test succeeded.
- Exclamation mark (!)
The configuration requires review. Click the ! to get information about the system test review. Click Yes to continue, and No if you are going to resolve the issues. Rapid Install displays an alert if you continue without resolving the issues.

- An *x* mark

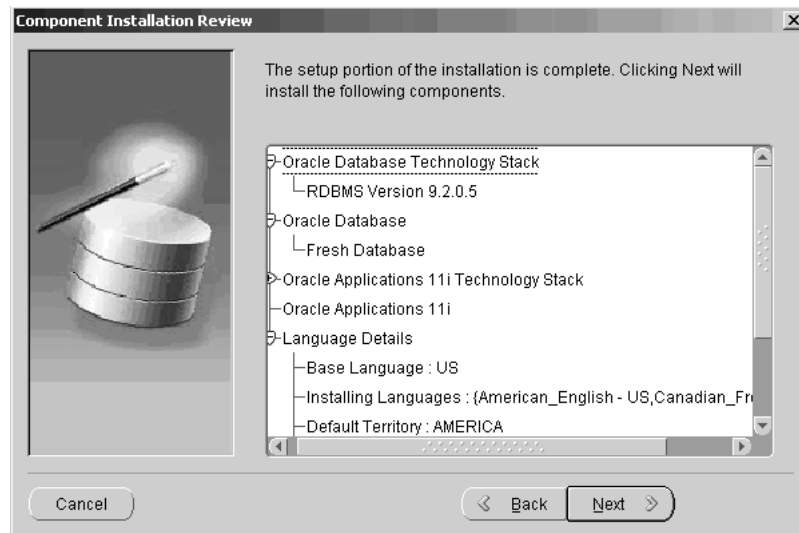
All issues marked *x* must be resolved before you continue with the installation. Click the *x* to see the errors. If you can resolve an issue by altering the values provided on one of the wizard screens, click Back until you reach the appropriate screen, and re-enter the values. Some tests must be resolved in the operating system. In that case, you may have to restart the Rapid Install wizard after the problem has been fixed.

Additional Information: See Restart the Installation in this chapter.

When there are no issues to resolve, click Next to continue.

Step 15 Begin the installation

On the Component Installation Review screen, Rapid Install lists the components it will install, based on the system parameters you entered in the wizard. Here is an example.



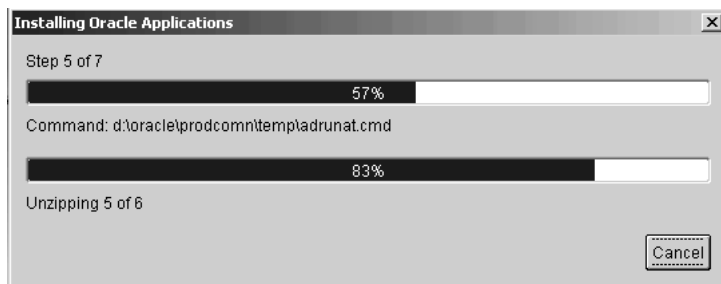
Click Next. Rapid Install displays another alert screen asking you to verify that you are ready to begin the installation.



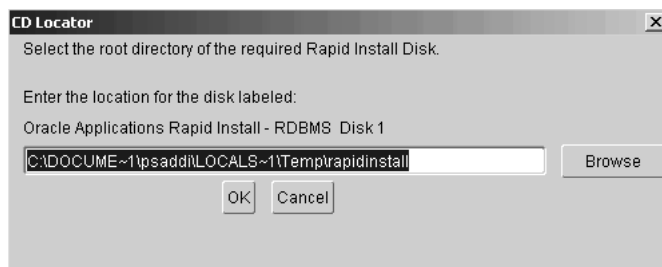
Click Yes to begin.

Status Indicators and Prompts

During an installation, Rapid Install displays a main progress bar and an individual progress bar. The main progress bar reports on the completion percentage of the installation as a whole. The individual progress bar reports on the progress of each individual step. The installation is not complete until all the progress bars disappear from your screen.



Rapid Install requires very little user intervention. However, you may receive a prompt requesting information if any of the components are missing from the stage directory.

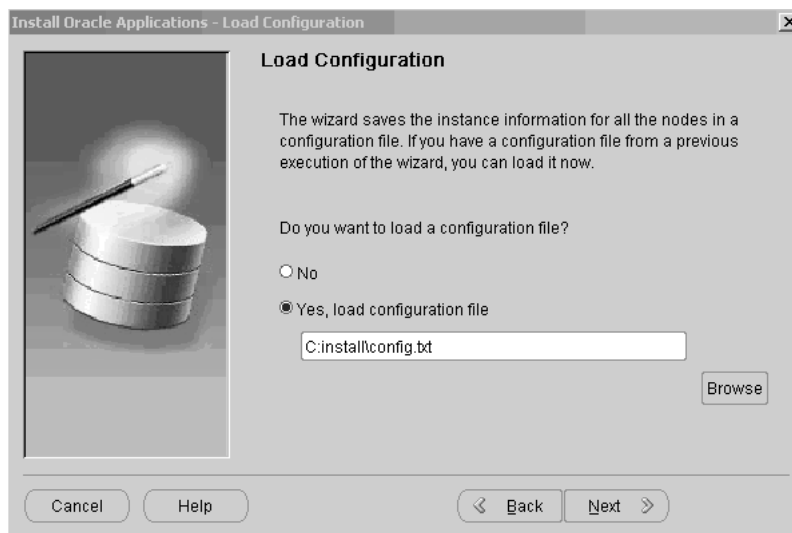


Enter the correct path if it differs from the one in the prompt, and click OK. Rapid Install continues.

Restart the Installation

If the installation process terminates before completion, you can restart it by running the Rapid Install wizard from the command line and adding `-restart` to the `rapidwiz` command. When the initial Rapid Install screen appears, select the same operation you started with and click Next.

Rapid Install has stored the configuration in the `config.txt` file, so choose "Load an existing configuration file." There is no need to complete the wizard screens a second time.



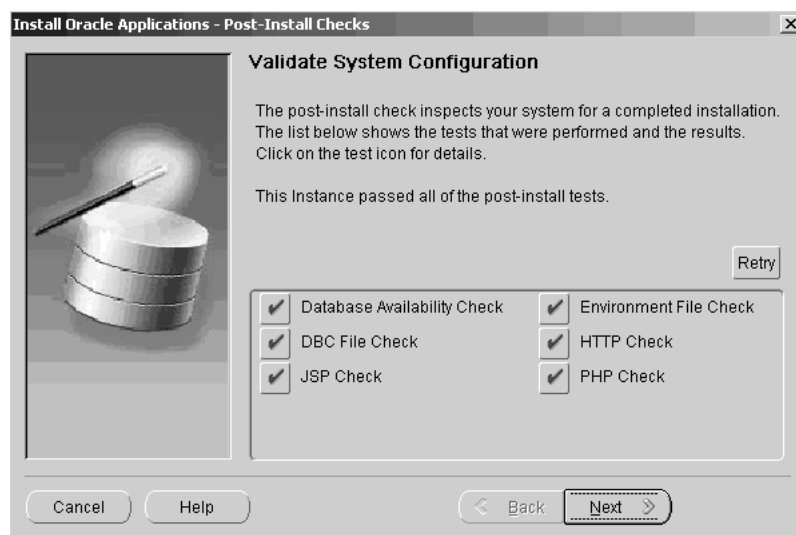
If the correct location of the `config.txt` file is not shown, type in the path or select it using the Browse button. Click Next.

Rapid Install moves through the installed components and automatically starts at the point where it previously stopped. Previously completed actions start and complete rapidly as the wizard determines that there is nothing additional to do.

Note: There may be validation warnings (for example, port in use) if your database was already installed before the restart process. You can safely ignore these messages.

Review Post-installation Tests

After the installation is complete, Rapid Install automatically validates the installed Applications environments. It tests the system for correctly configured environment files, application listeners, and database availability. It then displays the Post-install Checks screen.

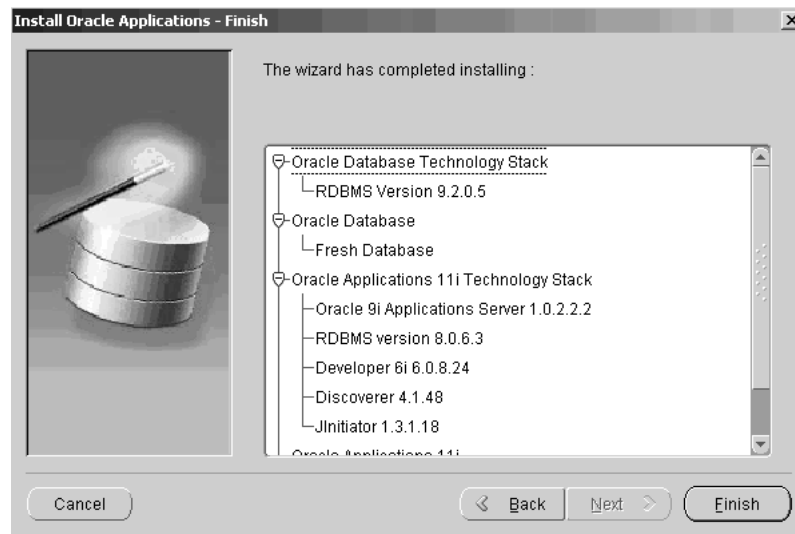


Post-installation tests include:

This test...	Validates these parameters
Database Availability Check	database is running and allows users to log on.
Environment File Check	environment file has been delivered.
DBC File Check	DBC file has been created.
HTTP File Check	HTTP listener is working.
JSP Check	Java server pages are working.
PHP Check	Personal Homepage is working.

Rapid Install lists the tests it has completed. Review the information. If there is an ! or x icon, click it to see the details. If any of the checks fail, refer to the Rapid Install log files to determine the reason, and resolve each problem before continuing. When the errors are fixed, click Retry to perform the post-install validation again.

Click Next if there are no errors. Rapid Install informs you of the components that it installed on the Finish screen.



If you need to review the Post-install Checks screen, click Back. Otherwise, click Finish to complete the Rapid Install session.

Setting Up an Express Installation

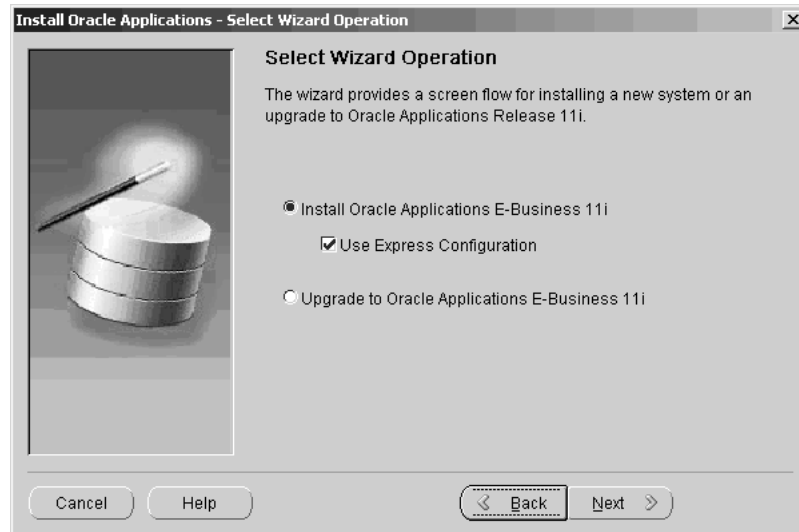
An Express Installation sets up a fully configured single-user/single-node system with either a fresh database or Vision Demo database. You specify basic configuration parameters, such as database type and name, top-level installation directory, and port increments. The remaining directories and mount points are supplied by Rapid Install using default values.

This type of installation contains (by default) a set of core Applications products and the US7ASCII character set in both the database and the APPL_TOP. You can easily register additional products (according to your Oracle licensing agreement) after the installation is complete by using the OAM License Manager. However, converting a character set may be time-consuming.

Additional Information: See Registering Additional Applications Components in *Oracle Applications Maintenance Procedures*.

Step 1 Select Express installation

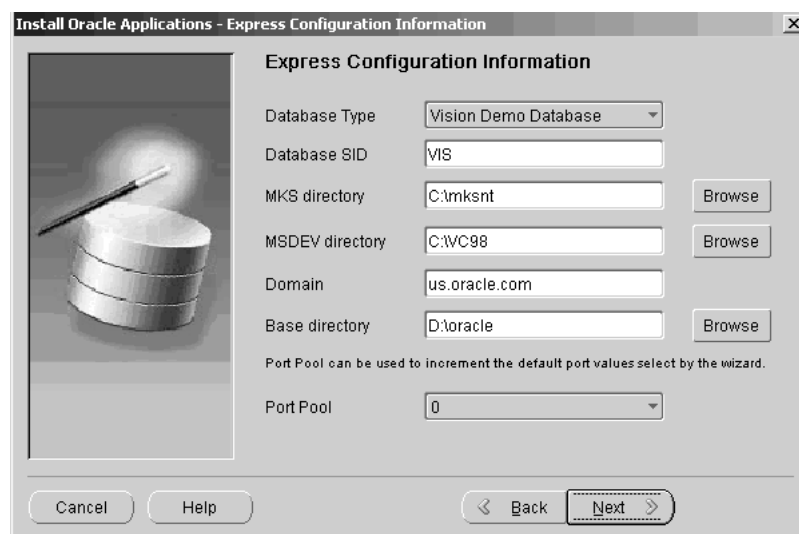
Start Rapid Install. On the Select Wizard Operation screen, click Install Oracle Applications E-Business 11i and then check Use Express Configuration.



Click Next to continue.

Step 2 Enter configuration values

The Express Configuration Information screen prompts for some basic configuration values.



In the Database Type field, use the drop-down list to choose either a Vision Demo database or a fresh database, and then enter a name for the local database in the Database SID field. Enter the path to the MKS Directory and MSDEV Directory (Windows) or click Browse and navigate to the correct path. In UNIX systems, you must set the X-Display to an active and authorized Windows display.

Enter a valid Domain Name. This value, when combined with a host name, must produce a fully qualified domain name. For example, for <myhost>.us.oracle.com, the domain name is us.oracle.com.

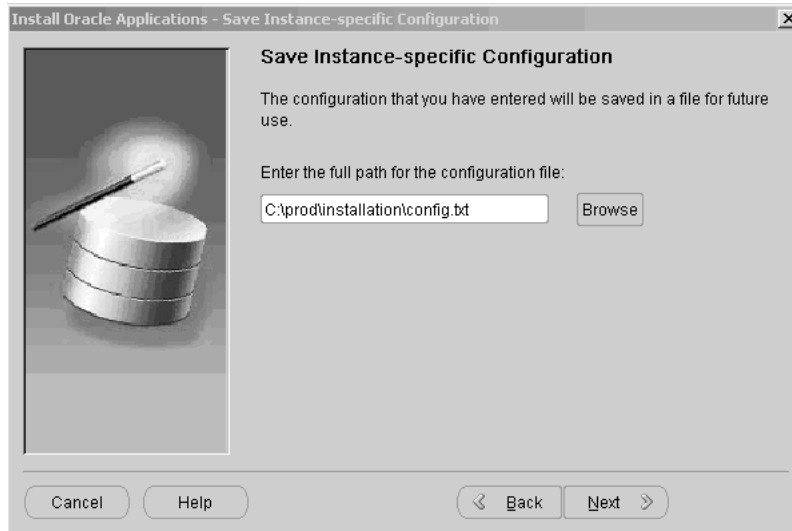
In the Base Directory field, enter the top-level directory path you want Rapid Install to use to create the derived mount points for the database server and all application tier servers. Or, click Browse and navigate to the correct path.

Additional Information: The fields on this screen are fully described in Table A-2 in Appendix A.

Click Next to continue.

Step 3 Save configuration

The Save Instance-specific Configuration screen asks you to save the values in a configuration file (config.txt).



The configuration file contains all the information required to configure a specific Oracle Applications instance. When Rapid Install runs, it uses these basic values to set up a base directory. Under the base directory, it sets up both the *oracle* user and the *applmgr* user, and creates the rest of the file system under the default login users (*oracle* and *applmgr*) using the default directory structure. It stores this installation information in the config.txt file.

Additional Information: See Applications File System in *Oracle Applications Concepts*. See also Create Login Accounts in Chapter 1.

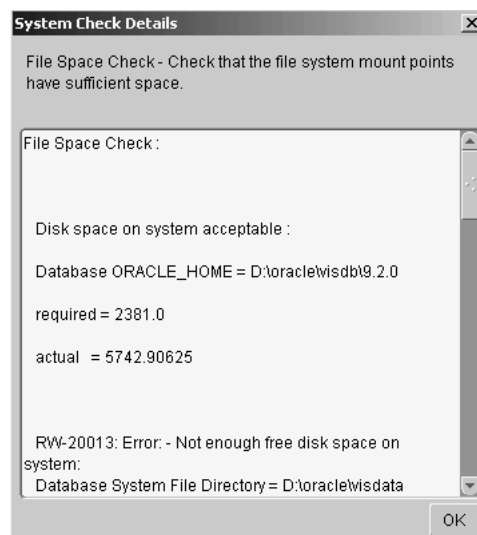
The default location of the config.txt file is the system temporary directory. It's a good idea to choose a permanent directory location because you may use this file at a later date. Enter a directory path or click Browse and select a new one. Click Next to continue.

Step 4 Start installation process

Rapid Install displays the pre-install tests as it performs them. When it is complete, the Pre-install Checks screen appears.

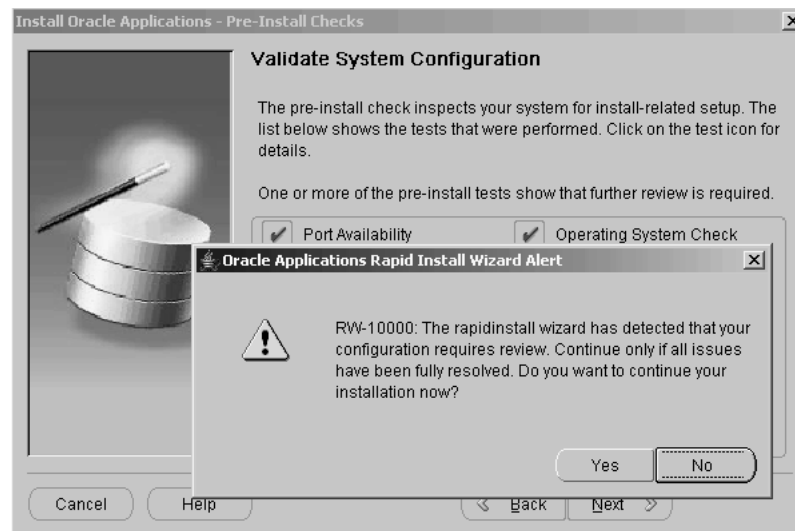


If there is an ! or x icon, click it to see the details stored during the check process. For example, if you click on the exclamation point beside File Space Check, you can see the issue that the system check has flagged.



Determine which issues you need to fix, and click OK to return to the Pre-install Checks screen.

If you decide to continue the processing without fixing flagged issues, Rapid Install displays the following warning when you click Next.



Click Yes to continue or No to stop the process. If you click No, you must go back to the appropriate screen and re-enter the incorrect or incompatible parameter. Click Back to return to a previous screen.

Step 5 Continue processing

The remaining screens in the Rapid Install flow are the same as for a custom installation.

What To Do Next

Once the installation is complete, there are some finishing steps that are required for all users, and some that are required for specific types of installations. For example, all users must configure the client software, but some users may also need to set up NLS support. Go to Chapter 6, and perform the tasks that apply to your system.

Multi-node Installations

To set up a multi-node system, you complete the appropriate screens in the Rapid Install wizard. This chapter describes those screens in the following sections:

- Performing a Multi-node Installation
- Enabling Load Balancing
- Setting Up the Other Nodes
- What To Do Next

Performing a Multi-node Installation

In a multi-node installation, you install both application tier and database tier servers across two or more nodes. You use the Rapid Install wizard to collect and save the configuration values. To perform the installation, you run Rapid Install by pointing to the configuration (config.txt file). Then, you use the same configuration values to set up all the other nodes in the system.

Additional Information: See Applications File System in *Oracle Applications Concepts*.

Note: You must run Rapid Install on the database node first, *before* you run it on any of the other nodes. The instructions in this chapter begin with a database node installation.

Beginning with this release, Rapid Install creates a shared APPL_TOP as the default for multi-node systems. You use the wizard screens to indicate the number of nodes. In addition, you can set up load balancing during the initial installation to distribute forms or concurrent processing requests across multiple servers.

Additional Information: See Shared APPL_TOP and Load Balancing in *Oracle Applications Concepts*.

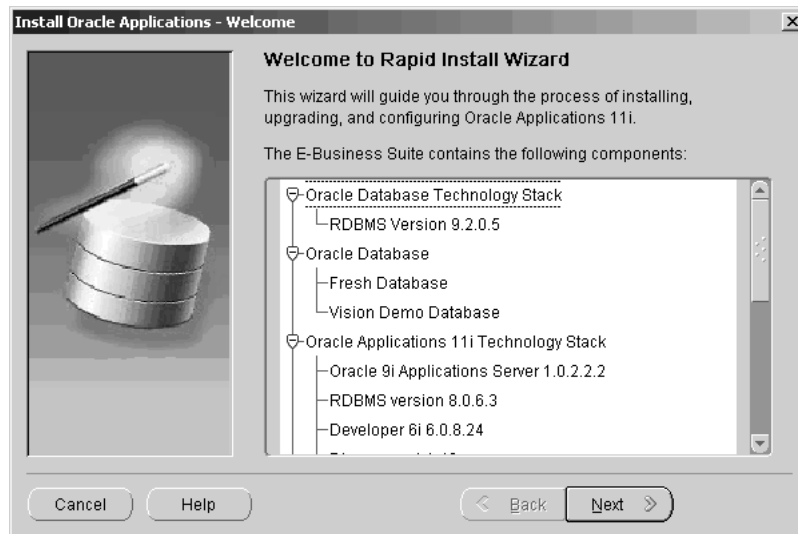
Describe the System Configuration

This chapter describes the setup steps for a multi-node installation. To set up a single-node system or use the Express installation option, see Chapter 2.

Follow the instructions in the Before You Begin section in Chapter 1. Then, complete the following tasks. Remember, you must run Rapid Install on the database node first.

Step 1 Start the Rapid Install wizard

Start the wizard from the command line by typing *rapidwiz* at the prompt. The Welcome screen appears.



This screen lists the components that are included in, or supported by, this release of Oracle Applications. Use the scroll bar to bring all the components into view.

Notice that a new (fresh) installation contains an Oracle9i (9.2.0.5) RDBMS. For an upgrade, Rapid Install installs an Oracle9i (9.2.0.5) RDBMS Oracle home without a database. You can use this Oracle home to upgrade or migrate your existing database to Oracle9i. See Chapter 3 in *Upgrading Oracle Applications*.

This screen is for information only. No action is required. Click Next to continue.

Step 2 Select a wizard operation

Use the Select Wizard Operation screen to indicate the action you want Rapid Install to perform. You begin both new installations and upgrades from this screen. Based on the action you choose, the Rapid Install wizard continues with the appropriate screen flow.



The available actions are as follows:

- Install Oracle Applications E-Business 11i

This action sets up a new, fully configured system, with either a fresh database or a Vision Demo database. The configuration is derived from the system-specific configuration parameters you enter in the Rapid Install wizard and save in the configuration file (config.txt). This custom configuration reflects the way you will use your Oracle Applications products.

Additional Information: The steps in this chapter and in Chapter 2 describe a new installation.

- Express Configuration

This action sets up a fully configured, single-user/single-node system with either a fresh database or Vision Demo database. You supply a few basic parameters, such as database type and name, top-level install directory, and increments for port settings. The remaining directories and mount points are supplied by Rapid Install using default values.

Additional Information: This option is available only for single-node systems. See Setting Up an Express Installation in Chapter 2.

- Upgrade to Oracle Applications E-Business 11i

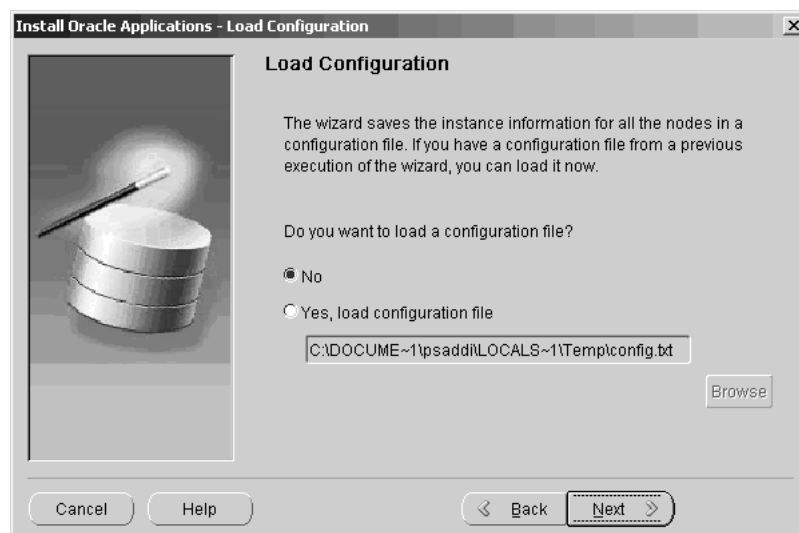
Choose this option to indicate that you are upgrading your E-Business Suite products to the current version of Oracle Applications. The wizard screen flow presents two paths: one that lays down the file system and installs the new technology stack, and one that configures servers and starts services.

Additional Information: See Chapter 4 in this book to learn how Rapid Install works during a system upgrade.

In the following steps, you will set up a new installation. Click Install Oracle Applications E-Business 11i. Click Next to continue.

Step 3 Identify configuration file

On the Load Configuration screen, you indicate whether you will be using an existing configuration file.



If you answer No, Rapid Install saves the configuration parameters you enter on the wizard screens in a new configuration file (config.txt) that it will use to configure your system for the new installation. You indicate the location and the name of the new configuration file on a subsequent screen.

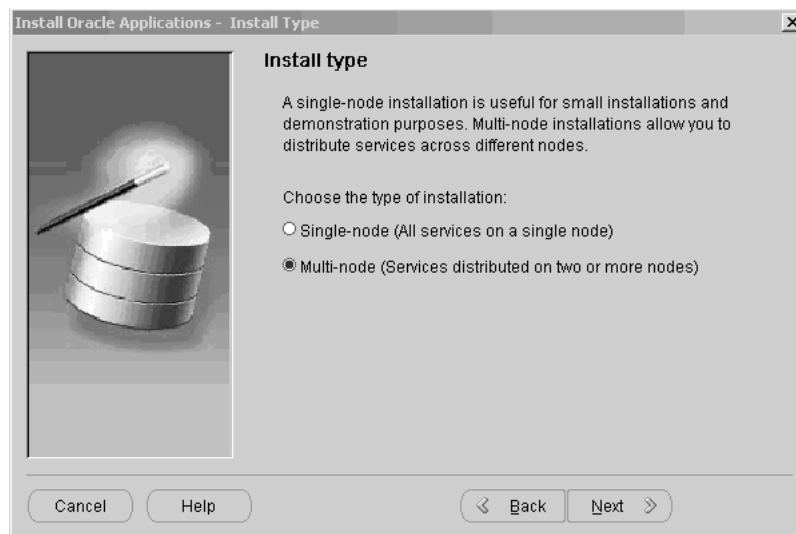
If you choose "Yes, load configuration file," the directory path field becomes active. Entering the file name and path points Rapid Install to a previously stored configuration and indicates that you want to use those parameters. Typically, you choose this option when copying the configuration file to other nodes in a multi-node installation, or when restarting Rapid Install after an interruption in the installation processing.

Additional Information: See Setting Up the Other Nodes on page 3-32. See also Restart the Installation on page 3-24.

Because this is a new installation, click No. Click Next to continue.

Step 4 Choose installation type

On the Install Type screen, you indicate whether you want to install servers on a single node or distribute them across multiple nodes.



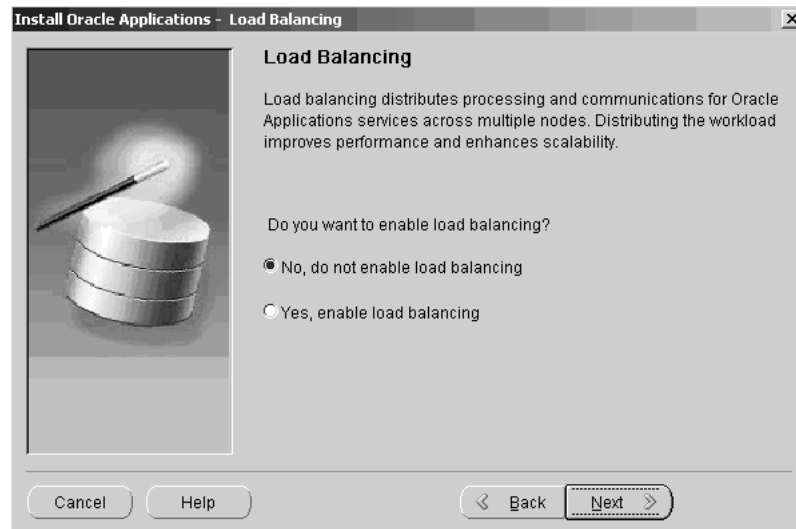
In a single-node installation, the RDBMS, the core AD directories and product directories, and the concurrent processing, forms, and Web servers are installed on one node under a common APPL_TOP.

In a multi-node installation, the RDBMS and the concurrent processing server, forms server, and Web server can be distributed across multiple nodes. The core AD directories and all product directories are installed under the APPL_TOP on all tiers. Nodes can be configured to share an APPL_TOP.

You are setting up a multi-node system. Click Multi-node, and click Next to continue.

Step 5 Use load balancing

On the Load Balancing screen, you can set up a configuration that will distribute the forms or concurrent processing load across multiple forms or concurrent processing servers (respectively).



In a system that employs load balancing, requests are automatically directed to a server on the "least loaded" node — the one that has the smallest number of processing tasks in progress.

Additional Information: See the chapters on Load Balancing and Applications Architecture in *Oracle Applications Concepts*. See also *Advanced Configurations and Topologies for Enterprise Deployments of E-Business Suite 11i* on OracleMetaLink (Doc ID: 217368.1).

On this screen, you choose whether to enable load balancing. If you choose the "No, do not enable load balancing" option, the wizard assumes that your system will not be configured for multiple forms or concurrent processing servers.

If you choose the "Yes, enable load balancing" option, the wizard prompts you to indicate the number of forms servers and concurrent processing servers, and then steps you through the task of assigning those servers to the nodes in your system.

In this example, choose "No, do not enable load balancing." The Enabling Load Balancing section on page 3-26 describes the screen flow for enabling this option.

Step 6 Assign servers to nodes and indicate operating system

The Node Information screen lists the servers to be installed and prompts you to provide a name for each node and indicate the operating system.

Service	Node Name	Operating System
Database	DB-CM-ADMIN	Linux
Administration	DB-CM-ADMIN	Linux
Concurrent Mgr	DB-CM-ADMIN	Linux
Forms	FORMS-1	Linux
Web (primary)	WEB-1	Linux

☒ Enable a shared APPL_TOP for this instance. [Details](#)

Cancel Help < Back Next >

You assign servers to individual nodes using the Node Name field. Type the name of the node where each service will be installed, repeating the same name for all services to be installed on that node. For example, in a system configured for three nodes, type DB-CM-ADMIN as the name of the node that will host the Database and the Concurrent Mgr. The AD core technologies (administration services, also known as the Administration server) are also installed (under the APPL_TOP) on the DB-CM-ADMIN node.

To install the forms server and the Web server on separate nodes, type FORMS-1 as the node name for the Forms services, and WEB-1 as the node name for the Web services. Select Linux from the drop-down list in the Operating System field.

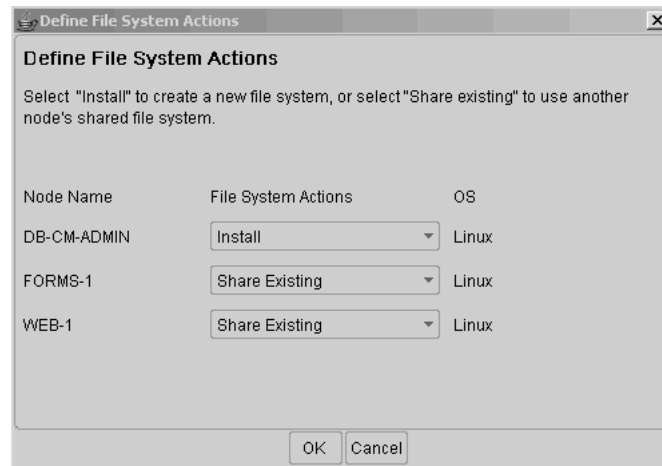
Note: Only nodes that run on the same operating system can share an APPL_TOP. Shared APPL_TOP configurations are not currently supported on Windows platforms.

Notice that the "Enable a shared APPL_TOP for this instance" check box at the bottom of the Node Information screen is checked. Rapid Install has set up the shared APPL_TOP configuration based on the nodes you identified on this screen.

Step 7 Set up a shared APPL_TOP

In a shared APPL_TOP system, the APPL_TOP is installed on only one node. The other nodes are set up to share that APPL_TOP, making changes to the shared file system immediately visible on all nodes. Using a shared APPL_TOP simplifies the maintenance of your configuration and greatly reduces downtime during maintenance tasks.

Click Details to see the file system actions for this shared configuration.



The Define File System screen shows the file sharing for the configuration you have described. It identifies the nodes as follows:

- **Install**

This is the base node. Its APPL_TOP is available for sharing with other nodes. On subsequent node-specific screens, the wizard prompts for directory paths for each node you mark as Install.

- **Share Existing**

A node marked Share Existing does not have its own APPL_TOP. It must share the APPL_TOP of a node marked Install.

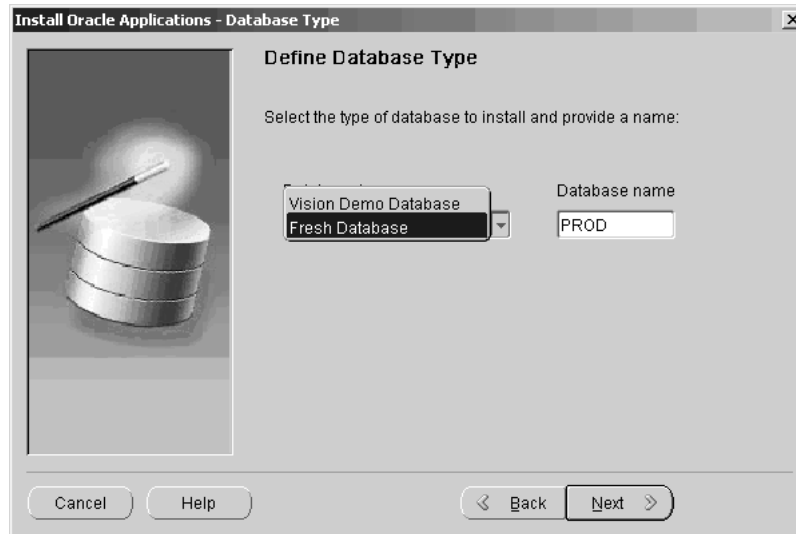
In this example, the node that hosts the RDBMS, concurrent manager, and administration server (DB-CM-ADMIN) is the base node, with the FORMS-1 node and the WEB-1 node set up to share the APPL_TOP on the DB-CM-ADMIN node.

Note: Rapid Install determines the best shared configuration based on the node information you enter. This configuration is the one that Oracle recommends.

Click OK to return to the Node Information screen. Then, click Next to continue.

Step 8 Define database type

On the Database Type screen, indicate the kind of database you want to install in the new system and supply the name you will use to identify it.



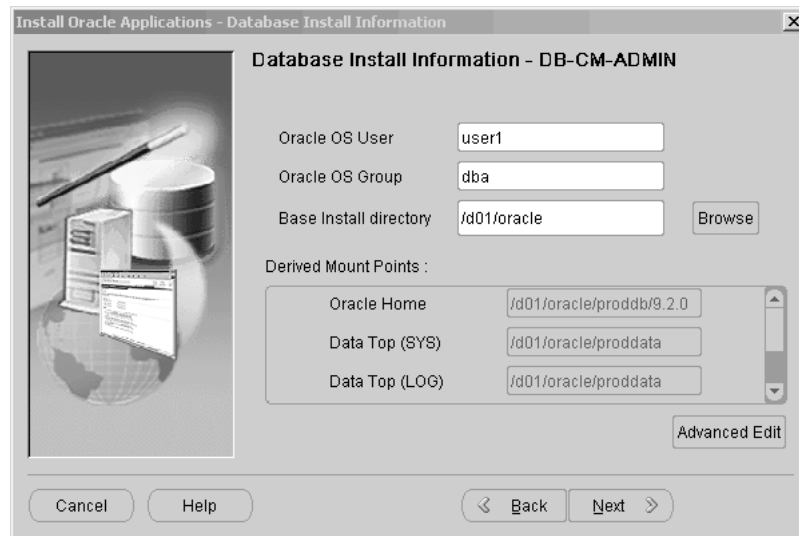
You can install a fresh database or a Vision Demo database.

- A *fresh* database is fully configured and ready for a new implementation. This type of database is suitable for any type of system that requires a fresh database, such as a production system or a test system. The default name for a production database is PROD. If you are installing a database for another use, for example as a test system or a backup system, choose the Fresh Database option and enter a Database Name that reflects that purpose, for example TEST.
- A *Vision Demo* database is used for demonstration or training purposes. It contains a fully configured Oracle Applications system that has been implemented and populated with a set of transactions for a fictitious company. The Vision Demo database is set up for multiple-organization use. It is installed with the UTF8 character set to maximize the support for character sets in this release. The default database name is VIS.

In this example, use the Database Type drop-down list to select a fresh database. Accept the default Database Name or type in another name (alphanumeric, not to exceed 8 characters in length, with no spaces) for the local instance. This name is often referred to as the database SID.

Step 9 Set up database installation directory

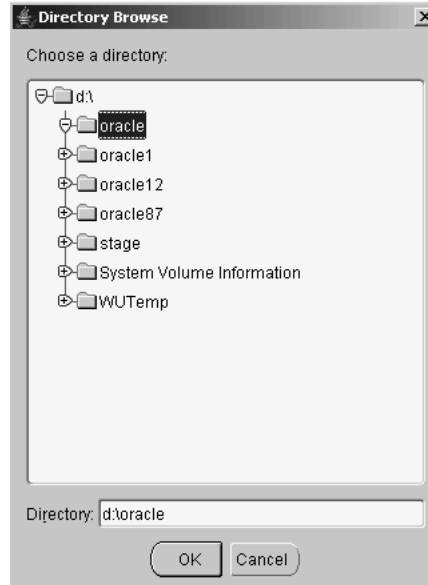
The Database Install Information screen prompts you for information Rapid Install needs to set up and install the database.



The Oracle OS User is the account that will own the database server file system. Enter the name of the Oracle OS Group. The Oracle OS User may belong to other groups, but it *must* belong to this group.

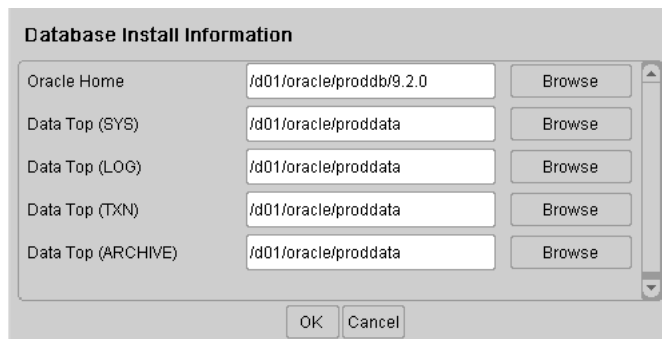
The "Base Install directory" field defaults to a sample directory name, using the syntax for the operating system you indicated on the Node Information screen (Linux). This directory is the top-level directory that Rapid Install uses to derive the mount points associated with the RDBMS.

Enter the base installation directory, or click Browse.



Navigate to the new directory, and highlight the path, or enter a path in the Directory field. Click OK to save the changes and return to the Database Install Information screen. Click Cancel to return without making changes.

From the Database Install Information screen, click Advanced Edit to review the derived mount points or to change the directory paths.



The 'Database Install Information' dialog box contains a table with five rows. Each row has a label on the left, a text input field in the middle, and a 'Browse' button on the right. The rows are: Oracle Home, Data Top (SYS), Data Top (LOG), Data Top (TXN), and Data Top (ARCHIVE). All text input fields contain the path '/d01/oracle/proddb/9.2.0' or '/d01/oracle/proddata'. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Label	Path	Action
Oracle Home	/d01/oracle/proddb/9.2.0	Browse
Data Top (SYS)	/d01/oracle/proddata	Browse
Data Top (LOG)	/d01/oracle/proddata	Browse
Data Top (TXN)	/d01/oracle/proddata	Browse
Data Top (ARCHIVE)	/d01/oracle/proddata	Browse

This screen displays default directories based on the base installation directory you specified on the Database Install Information screen. Table A-1 in Appendix A defines these mount points. Accept the defaults or change the derived mount points as needed. Click OK to return to the Database Install Information screen. Then, click Next to continue.

Note: If you are installing a Vision Demo database, the wizard omits the next few screens because the products are pre-set in this database. Go to Step 12.

Step 10 Select product license type

On the Suite Selection screen, the wizard prompts you to indicate the type of licensing agreement you have purchased from Oracle Applications. It then presents the appropriate licensing screen. *Completing a licensing screen does not constitute a license agreement.* It simply registers your products as active.

Note: The only way to set up a license agreement is to purchase Applications products through the Oracle Store or an Oracle sales representative. You should have complete information about your product license before you complete the licensing screens.



The 'Install Oracle Applications - Suite Selection' dialog box has a title bar with a close button. It features a graphic on the left showing a globe with a document and a pen. The main area is titled 'Select Licensing Type' and contains explanatory text about licensing models. Below the text are two radio buttons: 'E-Business Suite licensing' (selected) and 'Component Applications licensing'. At the bottom are 'Cancel', 'Help', 'Back', and 'Next' buttons.

Select Licensing Type

The Oracle Applications can be licensed using one of the following models: Component licensing, where Applications can be licensed individually, or Suite licensing, where the E-Business Suite license allows wide access to product functionality.

☒ E-Business Suite licensing
☐ Component Applications licensing

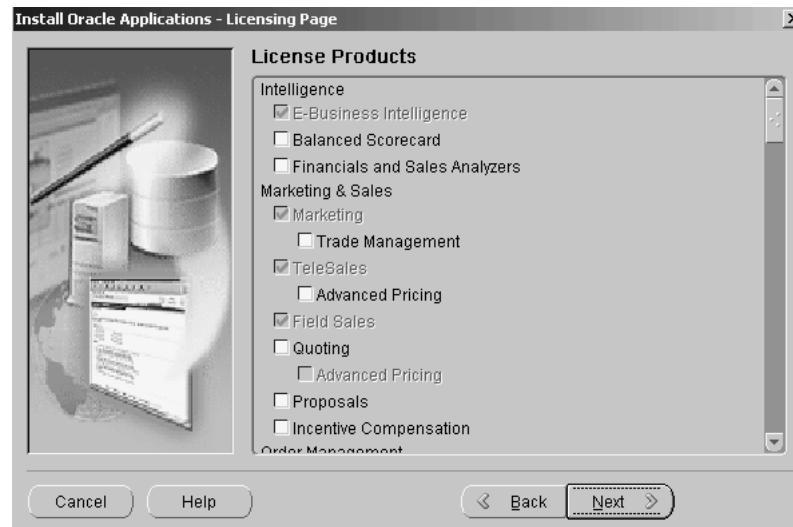
Rapid Install installs all products regardless of their licensed status. However, you must register products you have licensed so that they are flagged in the system as

active. An active flag marks products for inclusion in patching and other tasks that you will perform to update and maintain your system after the initial installation.

Note: Rapid Install automatically installs and registers shared and dependent products for you.

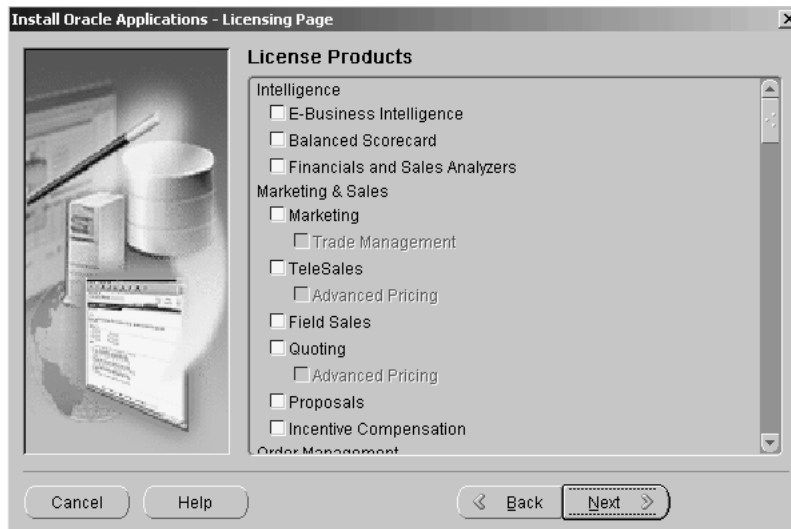
You can register products for either the E-Business Suite license model or the Component Applications license model. Complete only one licensing screen.

If you clicked the E-Business Suite licensing option on the Suite Selection screen, the Licensing Page for that option appears.



This licensing model allows wide access to Applications functionality. By choosing it, you tell Rapid Install to automatically register all products included in the E-Business Suite price bundle. The products that are checked and grayed are licensed automatically as a part of the suite. The ones that are not must be registered separately as add-on products — they are not part of the E-Business Suite price bundle. Place a check mark next to any add-on products you have licensed and want to register.

If you clicked the Component Applications licensing option on the Suite Selection screen, the Licensing Page for that option appears.



Choose this option if your licensing agreement is for individual Applications Component products. These products are licensed based on the number of authorized users or on the number of business transactions processed. All individual products are listed on this screen. Products that are grayed out cannot be selected unless the "parent" component is selected.

Note: To register additional products after the initial installation, use the Oracle Applications Manager (OAM) License Manager. See *Registering Products in Oracle Applications Maintenance Procedures*.

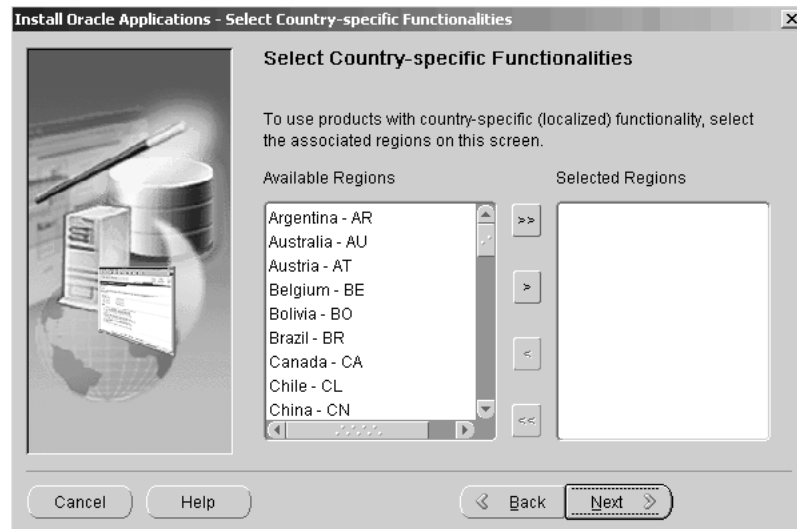
Complete the appropriate screen. Click Next to continue.

Step 11 Select country-specific functionalities

Some systems require the country-specific functionality of a localized Applications product. For example, if your company operates in Canada, products such as Human Resources require additional features to accommodate the Canadian labor laws and codes that differ from those in the United States. You register the name of the region associated with the localized product on the Select Country-specific Functionalities screen.

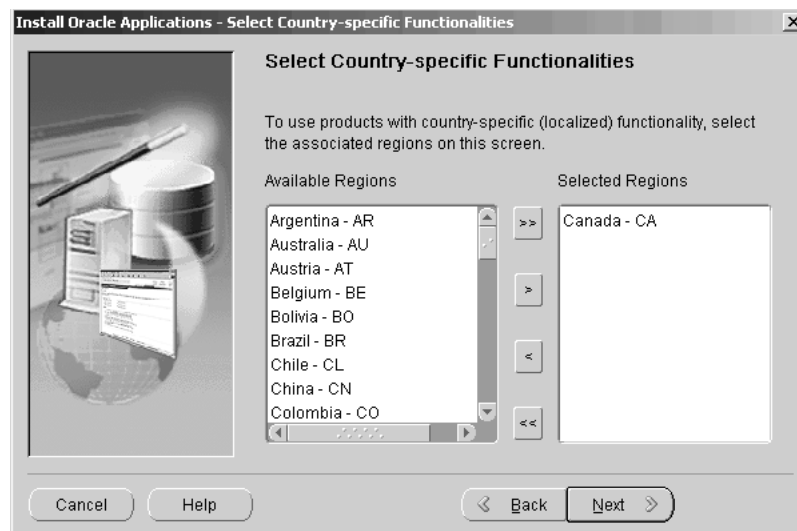
If your company operates only in the US, you can bypass this screen. If you begin doing business in another country at a later date, you can register the associated region at any time after the initial installation or upgrade by using the OAM License Manager.

Additional Information: See License Manager in *Oracle Applications Maintenance Utilities*.



All the country-specific functionalities that Oracle supports are listed on this screen, arranged alphabetically. Double-click a region in the Available Regions box to move it into the Selected Regions box or highlight it and click the right arrow (>). To de-select a region, highlight it and double-click or click the left arrow (<) to remove it from the Selected Regions box.

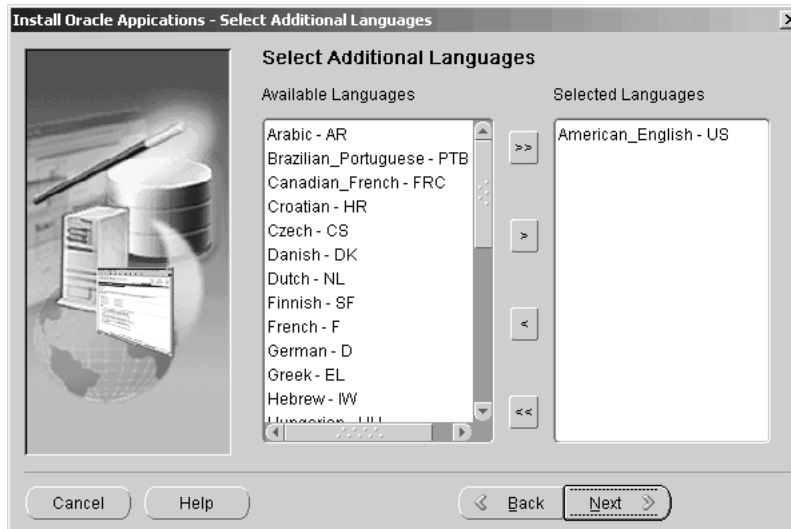
For example, if you select Canada, the screen would look like this.



To select or de-select all the regions and move them between boxes in a single action, use the double arrows. Click Next to continue.

Step 12 Select additional languages

American English is installed in your system by default. However, Oracle Applications supports numerous other languages. Use the Select Additional Languages screen to indicate the languages required for your system. You can select any number of languages to run in a single instance.

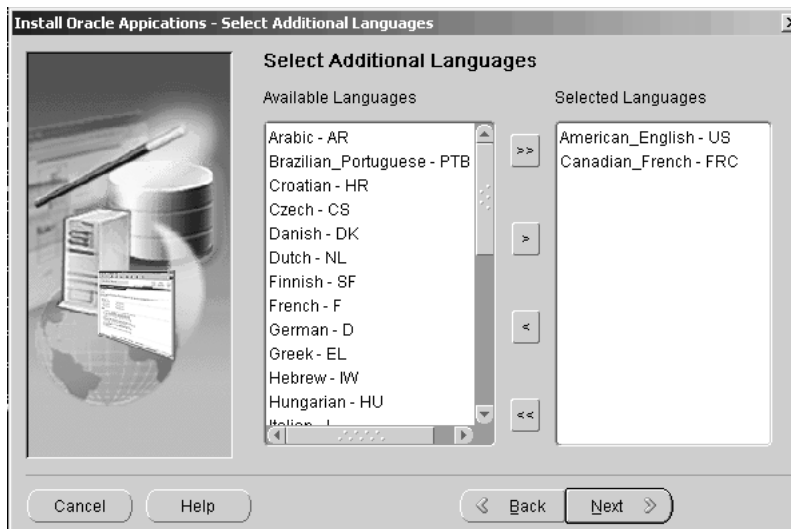


Prior to Release 11.5.9, the Rapid Install wizard registered additional languages as active — it did not actually install them. *In this release, the language files will be installed in the APPL_TOP. The languages you select also determine other NLS-related configuration parameters, such as base language, territory, and character set, your system requires.*

Additional Information: See Internationalization Support in *Oracle Applications Concepts*.

Double-click a language in the Available Languages box to move it into the Selected Languages box or highlight it and click the right arrow (>). Highlight a language in the Selected Languages box and click the left arrow (<) to remove it. The example shows Canadian French selected as an additional language.

To select or de-select all languages and move them between boxes in a single action, use the double arrows. You *cannot* remove American English from the Selected Languages box.



The wizard prompts you for the location of the language software later in the installation. You *must* have the *Oracle Applications Release 11i NLS* software available at that time.

Caution: If you do not have the software available when Rapid Install prompts for its location, the installation will stop and you will not be able to continue. Once you have installed a language, you cannot remove it.


You may need to perform additional tasks to finish the language installation. See *Oracle Applications NLS Release Notes* for details. You can register additional languages any time after the initial installation or upgrade. See *Registering Languages in Oracle Applications Maintenance Procedures*.

Click Next to continue.

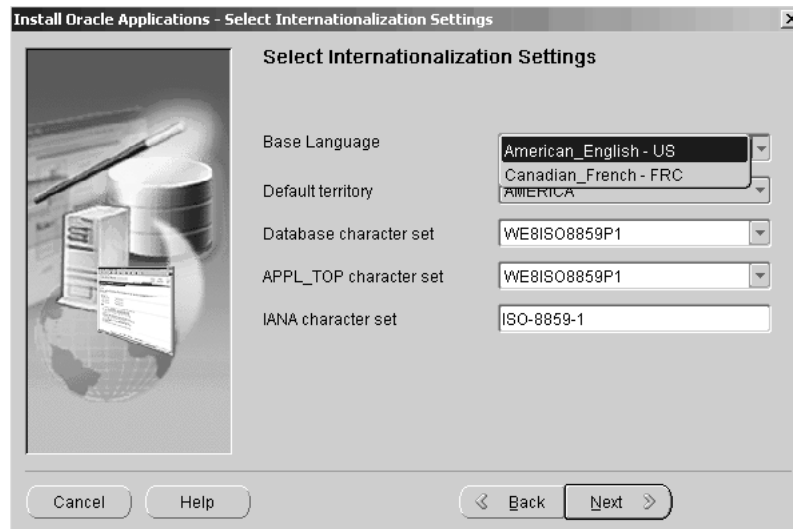
Step 13 Select internationalization (NLS) settings

The Select Internationalization Settings screen derives information from the languages you entered on the Select Additional Languages screen. You use it to further define NLS configuration parameters.

The NLS language and territory settings are stored as profile options in the database. They are configured at the site level when you run Rapid Install. The base language is used for the default language setting and the default territory is used for the territory profile option. Users inherit these values the first time they log on to Oracle Applications using the E-Business Suite Homepage.



The Base Language defaults to American English. If you chose to install additional languages on the Select Additional Languages screen, they appear in the drop-down list as options. In this example, the choices are American English and Canadian French.



Select a base language or accept American English as the default.

Rapid Install does not set RDBMS date and numeric formats during installation. It uses default formats based on the territory profile setting (as derived from NLS_LANG). The Default Territory is AMERICA at the site level. Enter a new value, as needed, based on your user requirements.

The "Database character set" and the "APPL_TOP character set" drop-down menus initially show US7ASCII as the default character set. Other compatible character sets are listed as well.

Note: UTF8 is the default character set for the Vision Demonstration database and the APPL_TOP. You cannot convert either of these character sets in a Vision database. Additional setup steps are required systems with fresh install databases that will use UTF8. See Set Up UTF8 Character Set in Chapter 6 for details.

However, because you selected Canadian French as an additional language, the character set choices have changed and now include only those that are compatible with both American English and Canadian French.



If you want to change the character set in either the database or the APPL_TOP select a new value from the drop-down list.

Note: The languages you install must be compatible with the character set you choose. The conversion is automatic, but it may take several hours to complete.

The IANA (Internet Assigned Numbers Authority) character set is the Internet-assigned standard character set name used by the Web server. You can change this value, as needed. See <http://www.iana.org/assignments/character-sets> for more information.

Complete the appropriate fields on this screen, and click Next to continue.

Step 14 Enter node-specific information for "Install" nodes

You have already specified the top-level directory and the mount points for the node where you will install the RDBMS. On the following node-specific screens, you specify the top-level directories and subdirectories associated with each of the other nodes you named on the Node Information screen on page 3-5. The system in this example contains three nodes.

The first screen (Admin Server/Concurrent Mgr) prompts for information about the node named DB-CM-ADMIN, which will contain the database, the concurrent manager, and the core AD directories.

Enter the name of the owner of the Applications file system as the Apps OS user and indicate the group the owner belongs to. The Base Install directory is the top-level directory that Rapid Install will use to derive the mount points on this node. You can accept the defaults or enter new values. Click Browse to navigate to a new path. Double-click the directory to select it.

To review or change values in the "Derived mount points" field, click Advanced Edit.

On the Application Tier Mount Points screen, use the vertical scroll bar or the Up and Down Arrow keys to move the derived settings fields and default values into view. Table A-2 in Appendix A defines the fields on the node-specific screens. You can accept the defaults, enter a change in an input field, or click Browse to navigate to a new directory path. Click OK to return to the DB-CCP node screen. Click Next to continue.

Step 15 Enter node-specific information for "Share Existing" nodes

The next node-specific screen (Forms Server) is for the FORMS-1 node, one of the nodes marked Share Existing on the Define APPL_TOP Type screen. It must be associated with another node, one with a file system that is available for sharing.

The drop-down list in the Share APPL_TOP with Node input field contains only one choice, DB-CM-ADMIN. On the Define APPL_TOP Type screen, you marked this node as Install, indicating that its APPL_TOP is available to share with another node. Since this is the only node marked Install (that has the same operating system as the other nodes), it is the only choice available.

Complete the information on this screen. The input fields are described in Table A-2 in Appendix A. Click Next to continue. The mount points default to the node designated as "Install" and cannot be changed.

The next node-specific screen (Web Server) prompts for configuration information for the third node in this system, WEB-1. This node was also marked as Share Existing, so you must associate it with a node that has a file system to share.

Configuration information for Node - WEB-1

Share APPL_TOP with Node: DB-CM-ADMIN

8.0.6 ORACLE_HOME: /d01/oracle/prodora/8.0

IAS ORACLE_HOME: /d01/oracle/prodora/IAS

Derived mount points from the selected node:

APPL_TOP Mount point	/d01/oracle/prodappl
APPL_TOP aux. 1	/d01/oracle/prodappl
APPL_TOP aux. 2	/d01/oracle/prodappl
APPL_TOP aux. 3	/d01/oracle/prodappl
COMMON_TOP	/d01/oracle/prodcomn

This node will also be associated with DB-CM-ADMIN so that it can share its file system. Complete the remaining fields on this screen, using the field definitions in Appendix A, Table A-2 if you need more information. Click Next to continue.

Step 16 Review global settings

Rapid Install uses the values specified on the Global Settings screen to identify a qualified domain name and to derive port settings that your system will use to connect services and listeners.

Global System Settings

Domain Name: us.oracle.com

Port Pool can be used to increment all port values at once. Use advanced edit for individual updates.

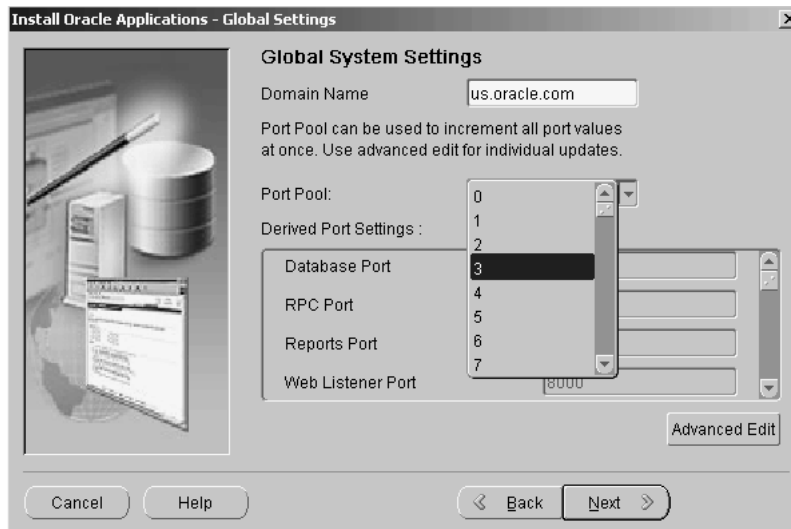
Port Pool: 0

Derived Port Settings:

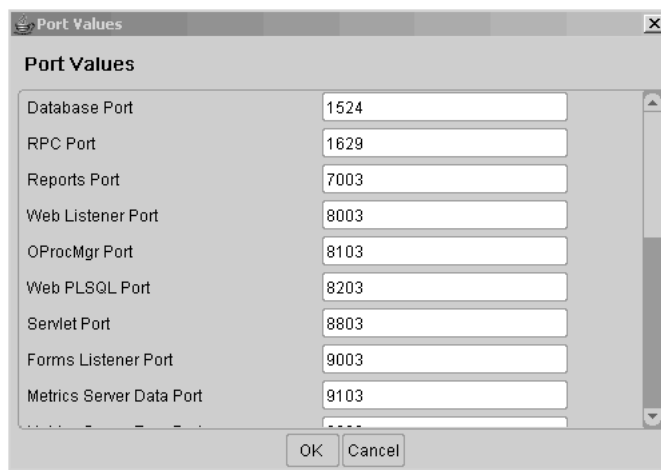
Database Port	1521
RPC Port	1626
Reports Port	7000
Web Listener Port	8000

Enter a valid value for the Domain Name. This value, when combined with a host name, must produce a fully qualified domain name. For example, for <myhost>.us.oracle.com, the domain name is us.oracle.com.

The starting number of the port value is pre-set, but you can customize it by selecting an incremental number from the drop-down list in the Port Pool field. There are 100 port pool selections.



For example, if you select an increment of 3 from the Port Pool list, the values in the Derived Port Settings will reflect this choice. Use the scroll bar or click Advanced Edit to see the Port Values screen.



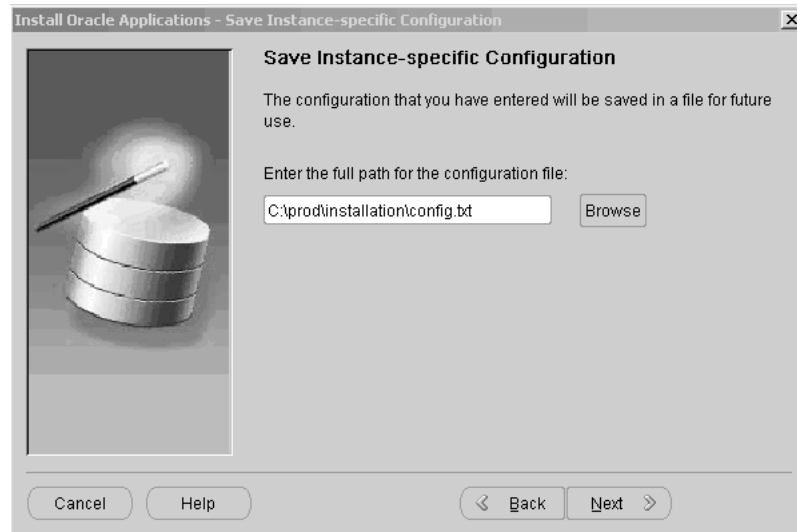
Because you selected an increment of 3, the default values are increased by that value. The Database Port (1521) has become 1524, the RPC Port (1626) has become 1629, and so on.

You can also specify ports by manually adjusting individual values on this screen. Use the vertical scroll bar or the Up and Down Arrow keys to move through the port settings. See Table A-3 in Appendix A for definitions.

Click OK save your changes and return to the Global Settings screen. Click Cancel to return to the Global Settings screen without making changes. Then, click Next to continue.

Step 17 Save the configuration file

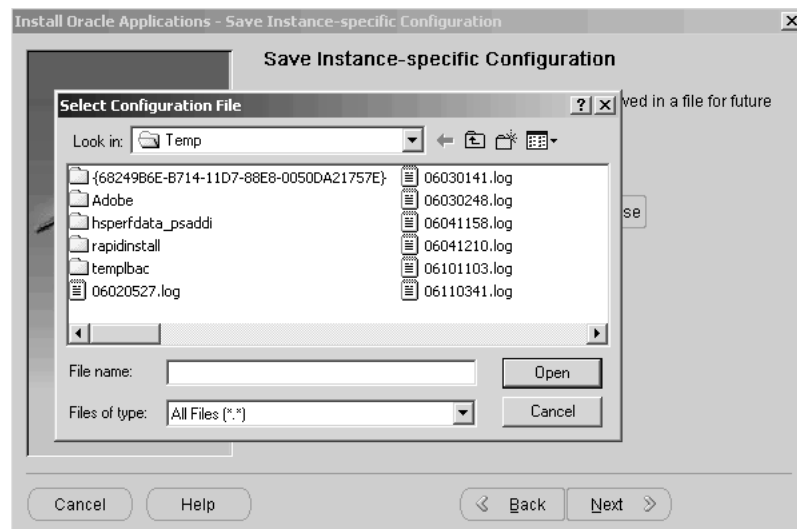
You have now completed all the information Rapid Install needs to set up and install a single-node system. The Save Instance-specific Configuration screen asks you to save the values you have entered in the wizard in a configuration file (config.txt or a user-supplied name).



The configuration file contains all the information required to configure a specific Oracle Applications instance. Rapid Install uses these values during the installation to create the file system, install the database, and configure and start the server processes. It then stores the values in a central repository called a *context file*, which you can use to modify the system configuration at any time after the installation is complete.

Additional Information: See *AutoConfig in Oracle Applications Concepts*. See also *Modifying Configuration Parameters in Oracle Applications Maintenance Procedures*.

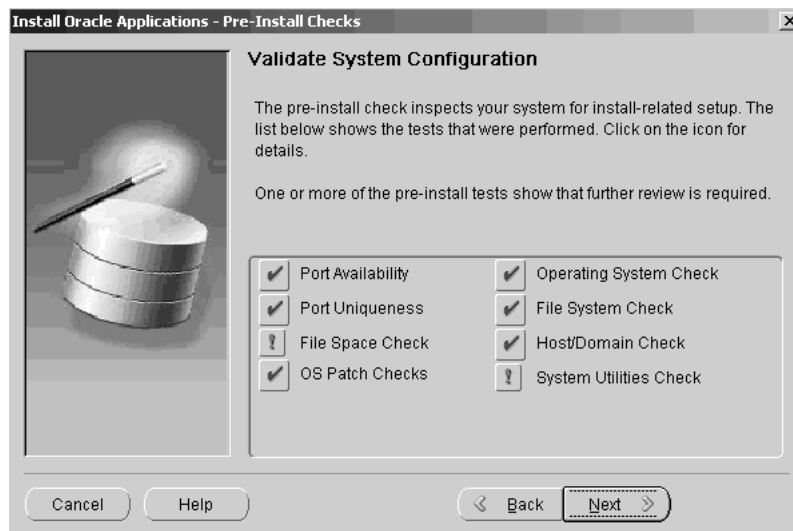
The default is to store the configuration file in the system temporary directory. It's a good idea to choose a safe location because you will use this file to configure the other nodes in your system. Enter a directory path or click **Browse**.



Navigate to the new directory path. Highlight the path and double-click to select it. Click **Next** to continue.

Step 18 Review pre-install test checks

Rapid Install performs a series of system tests to validate the configuration described in the configuration file. On the Pre-install Checks screen it lists the tests it performed and marks each one with an indication of whether it succeeded or failed.



The parameters that Rapid Install validates and reports on this screen include:

This test...	Validates these parameters...
Port Availability	The ports you selected are available for use.
Operating System Check	The version levels of your operating system.
Port Uniqueness	There are no duplicate defined ports for server processes.
File System Check	File system mount points exist and have correct privileges.
File Space Check	File system mount points have sufficient space.
Host/Domain Check	Host and domain names are verified.
OS Patch Checks	The patch level of your operating system.
System Utilities Check	Linking utilities (make, ld, and cc) are available.
OS User and Group check	Shown only if running on Unix or Linux systems. Indicates that the OS user account and group exist, and the user account is a member of the group.
JDK Availability Check	Not performed on Solaris, Linux, or Windows platforms because JDK is installed automatically by Rapid Install. On other platforms, Rapid Install prompts you to enter the directory path to JDK. The test then verifies that JDK is available. See <i>Oracle Applications Installation Update Notes</i> for more information.

The results of each test are labeled with icons. There are three result types:

- Check mark
The test succeeded.
- Exclamation mark (!)
The configuration requires review. Click the ! to get information about the system test review. Click Yes to continue, and No if you are going to resolve the issues. Rapid Install displays an alert if you continue without resolving the issues.

- An *x* mark

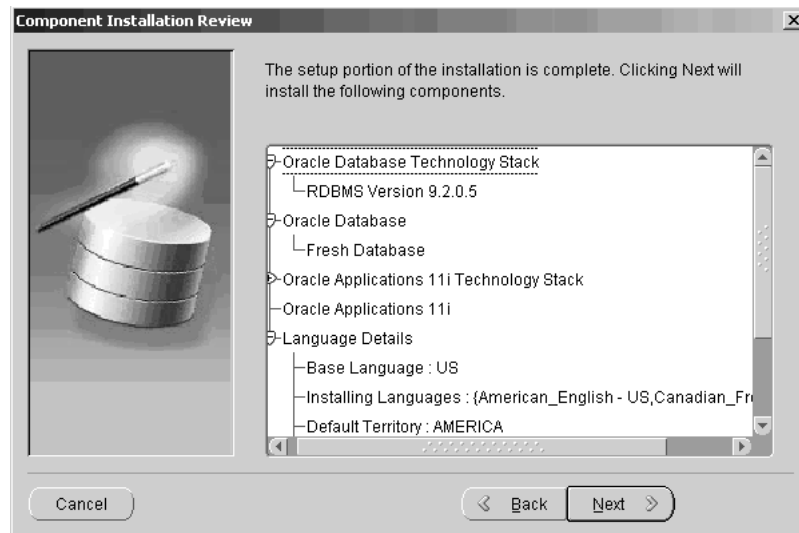
All issues marked *x* must be resolved before you continue with the installation. Click the *x* to see the errors. If you can resolve an issue by altering the values provided on one of the wizard screens, click Back until you reach the appropriate screen, and re-enter the values. Some tests must be resolved in the operating system. In that case, you may have to restart the Rapid Install wizard after the problem has been fixed.

Additional Information: See Restart the Installation in this chapter.

When there are no issues to resolve, click Next to continue.

Step 19 Begin the installation

On the Component Installation Review screen, Rapid Install lists the components it will install. The list is based on the system you described in the wizard. Here is an example.



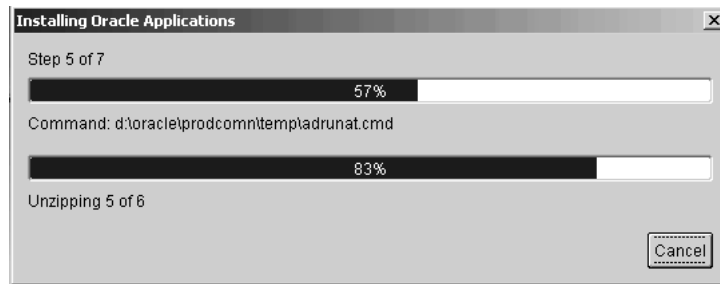
Click Next. Rapid Install displays another alert screen asking you to verify that you are ready to begin the installation.



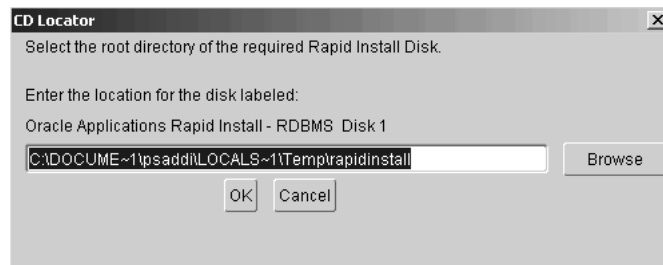
Click Yes to begin.

Status Indicators and Prompts

During an installation, Rapid Install displays a main progress bar and an individual progress bar. The main progress bar reports on the completion percentage of the installation as a whole. The individual progress bar reports on the progress of each individual step. The installation is not complete until all the progress bars disappear from your screen.



Rapid Install requires very little user intervention. However, you may receive a prompt requesting information if any of the components are missing from the stage directory.

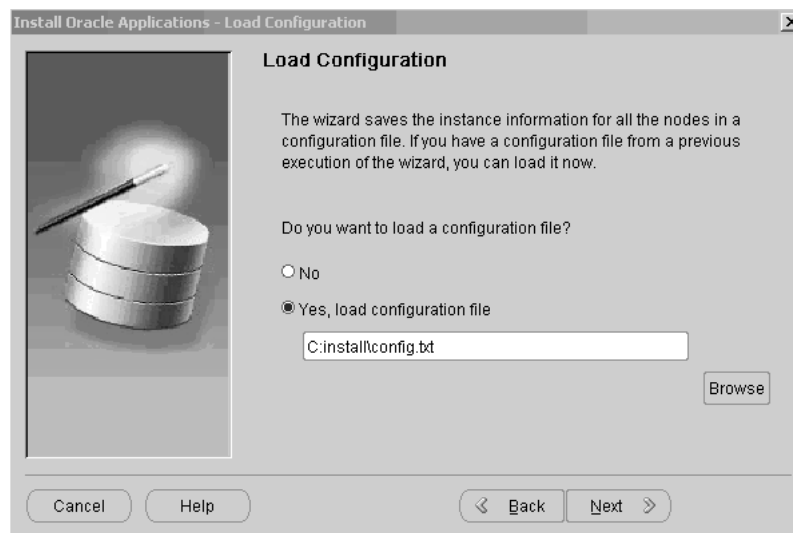


Enter the correct path if it differs from the one in the prompt, and click OK. Rapid Install continues.

Restart the Installation

If the installation process terminates before completion, you can restart it by running the Rapid Install wizard from the command line and adding `-restart` to the `rapidwiz` command. When the initial Rapid Install screen appears, select the same operation you started with and click Next.

Rapid Install has stored the configuration in the `config.txt` file, so choose "Load an existing configuration file." There is no need to complete the wizard screens a second time.



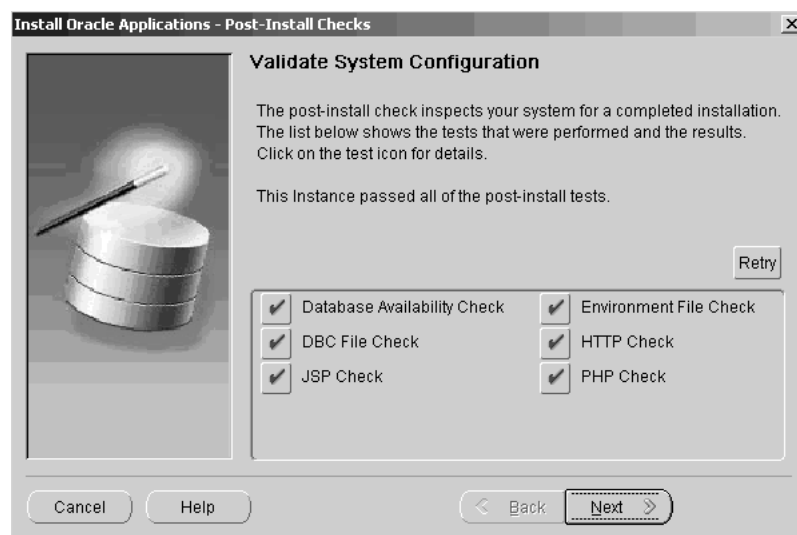
If the correct location of the `config.txt` file is not shown, type in the path or select it using the Browse button. Click Next.

Rapid Install moves through the installed components and automatically starts at the point where it previously stopped. Previously completed actions start and complete rapidly as the Wizard determines that there is nothing additional to do.

Note: There may be validation warnings (for example, port in use) if your database was already installed before the restart process. You can safely ignore these messages.

Review Post-installation Tests

After the installation is complete, Rapid Install automatically validates all components of the installed Applications environments. It tests the system for correctly configured environment files, application listeners, and database availability. It then displays the Post-install Checks screen.

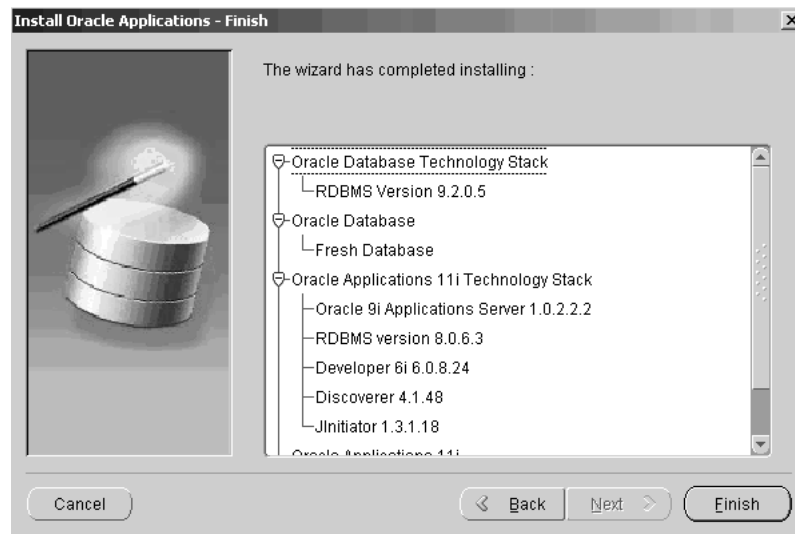


Post-installation tests include:

This test...	Validates these parameters
Database Availability Check	database is running and allows users to log on.
Environment File Check	environment file has been delivered.
DBC File Check	DBC file has been created.
HTTP File Check	HTTP listener is working.
JSP Check	Java server pages are working.
PHP Check	Personal Homepage is working.

Rapid Install lists the tests it has completed. Review the information. If there is an ! or x icon, click it to see the details. If any of the checks fail, refer to the Rapid Install log files to determine the reason, and resolve each problem before continuing. When the errors are fixed, click Retry to perform the post-install validation again.

Click Next if there are no errors. Rapid Install informs you of the components that it installed on the Finish screen.



If you need to review the Post-install Checks screen, click Back. Otherwise, click Finish to complete the Rapid Install session.

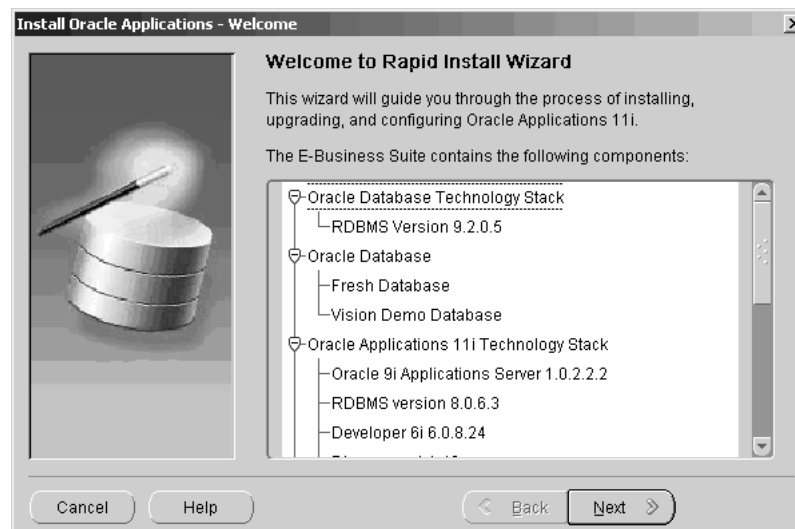
Enabling Load Balancing

You can configure your multi-node system to spread forms processing requests or concurrent processing requests across multiple forms or concurrent processing servers, causing the requests to be distributed to the "least loaded" server. In this release of Oracle Applications, Rapid Install can set up this configuration during the initial installation.

Additional Information: For information about using load balancing for other types of servers, see *Advanced Configurations and Topologies for Enterprise Deployments of E-Business Suite 11i* on OracleMetaLink (Doc ID: 217368.1).

Step 1 Start the Rapid Install wizard

Start the wizard from the command line by typing *rapidwiz* at the prompt. The Welcome screen appears.



This screen lists the components that are included in, or supported by, this release of Oracle Applications. Use the scroll bar to bring all the components into view.

Notice that a new (fresh) installation contains an Oracle9i (9.2.0.5) RDBMS. For an upgrade, Rapid Install installs an Oracle9i (9.2.0.5) RDBMS Oracle home without a database. You can use this Oracle home to upgrade or migrate your existing database to Oracle9i. See Chapter 3 in *Upgrading Oracle Applications*.

This screen is for information only. No action is required. Click Next to continue.

Step 2 Select a wizard operation

Use the Select Wizard Operation screen to indicate the action you want Rapid Install to perform. You begin both new installations and upgrades from this screen. Based on the action you choose, the Rapid Install wizard continues with the appropriate screen flow.



The available actions are as follows:

- Install Oracle Applications E-Business 11i

This action sets up a new, fully configured system, with either a fresh database or a Vision Demo database. The configuration is derived from the system-specific configuration parameters you enter in the Rapid Install wizard and save in the configuration file (config.txt). This custom configuration reflects the way you will use your Oracle Applications products.

Additional Information: The steps in this chapter and in Chapter 2 describe a new installation.

- Express Configuration

This action sets up a fully configured, single-user/single-node system with either a fresh database or Vision Demo database. You supply a few basic parameters, such as database type and name, top-level install directory, and increments for port settings. The remaining directories and mount points are supplied by Rapid Install using default values.

Additional Information: This option is available only for single-node systems. See Setting Up an Express Installation in Chapter 2.

- Upgrade to Oracle Applications E-Business 11i

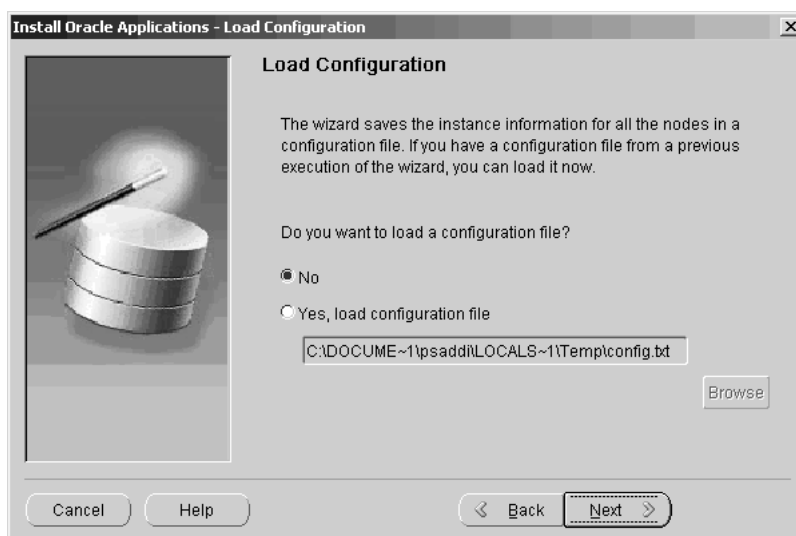
Choose this option to indicate that you are upgrading your E-Business Suite products to the current version of Oracle Applications. The wizard screen flow presents two paths: one that lays down the file system and installs the new technology stack, and one that configures servers and starts services.

Additional Information: See Chapter 4 in this book to learn how Rapid Install works during a system upgrade.

In the following steps, you will set up a new installation. Click Install Oracle Applications E-Business 11i. Click Next to continue.

Step 3 Select type of configuration

On the Load Configuration screen, you indicate whether you will be using an existing configuration file.



If you answer No, Rapid Install saves the configuration parameters you enter on the wizard screens in a new configuration file (config.txt) that it will use to configure your system for the new installation. You indicate the location and the name of the new configuration file on a subsequent screen.

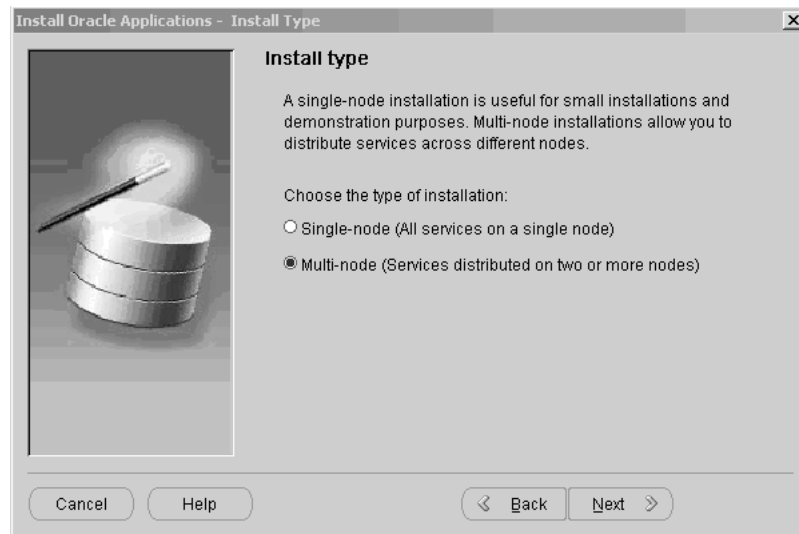
If you choose "Yes, load configuration file," the directory path field becomes active. Entering the file name and path points Rapid Install to a previously stored configuration and indicates that want to use those parameters. Typically, you choose this option when copying the configuration file to other nodes in a multi-node installation, or when restarting Rapid Install after an interruption in the installation processing.

Additional Information: See Setting Up the Other Nodes on page 3-32. See also Restart the Installation on page 3-24.

Because this is a new installation, click No. Click Next to continue.

Step 4 Choose installation type

On the Install Type screen, you indicate whether you want to install servers on a single node or distribute them across multiple nodes.



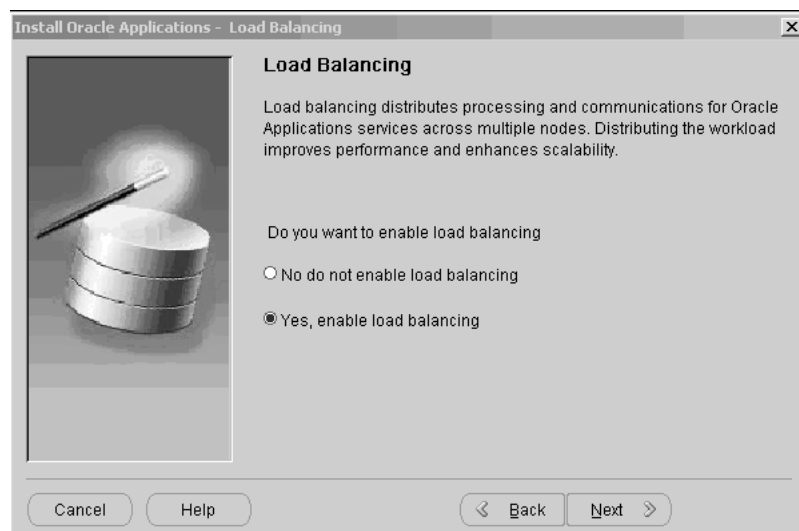
In a single-node installation, the RDBMS, the core AD technology directories and product directories, and the concurrent processing, forms, and Web servers are installed on one node under a common APPL_TOP.

In a multi-node installation, the RDBMS and the concurrent processing server, forms server, and Web server can be distributed across multiple nodes. The core AD technology directories and all product directories are installed under the APPL_TOP on all tiers. Nodes can be configured to share an APPL_TOP.

You are setting up a multi-node system. Click Multi-node, and click Next to continue.

Step 5 Use load balancing

On the Load Balancing screen, you can set up a configuration that will distribute the forms processing or concurrent processing load across multiple forms or concurrent processing servers (respectively).



In a system that employs load balancing, requests are automatically directed to a server on the "least loaded" node — the one that has the smallest number of processing tasks in progress.

Additional Information: See the chapters on Load Balancing and Applications Architecture in *Oracle Applications Concepts*. See also *Advanced Configurations and Topologies for Enterprise Deployments of E-Business Suite 11i* on OracleMetaLink (Doc ID: 217368.1).

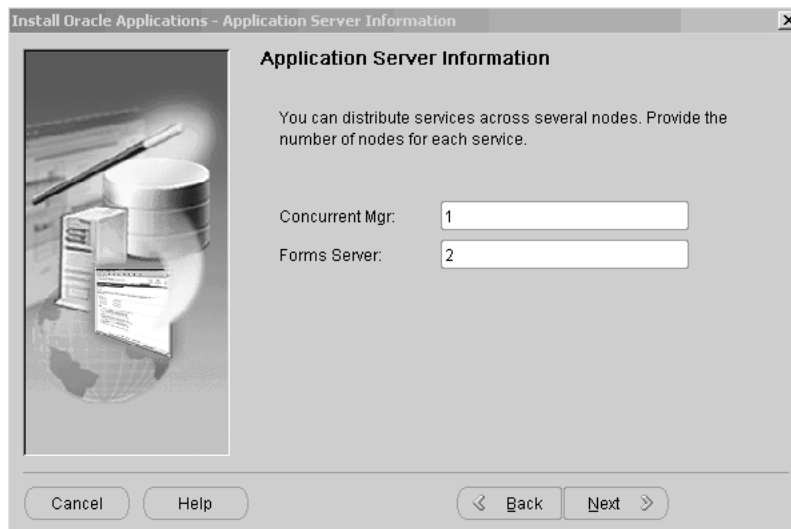
On this screen, you choose whether to enable load balancing. If you choose the "No, do not enable load balancing" option, the wizard assumes that your system will not be configured for multiple forms or concurrent processing servers.

If you choose the "Yes, enable load balancing" option, the wizard prompts you to indicate the number of forms servers and concurrent processing servers, and then steps you through the task of assigning those servers to the nodes in your system.

In this example, choose "Yes, enable load balancing."

Step 6 Indicate number of application servers

On the Application Server Information screen, indicate how many forms servers or concurrent processing servers you want to install in your system. You will associate the servers with individual nodes on a subsequent screen.



The default is one forms server and one concurrent processing server. In this example, set up two forms servers by typing the number 2 in the Forms Server field. Click Next to continue.

Step 7 Assign servers to nodes and indicate operating system

On the Node Information screen, you supply node names for the servers in your system. Notice that there is a space for information about two forms services because you indicated this configuration on the previous screen.

Service	Node Name	Operating System
Database	DB-CM-ADMIN	Linux
Administration	DB-CM-ADMIN	Linux
Concurrent Mgr	DB-CM-ADMIN	Linux
Forms 1	FORMS-WEB1	Linux
Forms 2	FORMS-2	Linux
Web (primary)	FORMS-WEB1	Linux

☒ Enable a shared APPL_TOP for this instance. [Details](#)

Cancel Help < Back Next >

You assign servers to individual nodes using the Node Name field. Type the name of the node where each service will be installed, repeating the same name for all services to be installed on that node. For example, in a system configured for three nodes, type DB-CM-ADMIN as the name of the node that will host the Database and the Concurrent Mgr. The AD core technologies (administration services, also known as the Administration server) are also installed (under the APPL_TOP) on the DB-CM-ADMIN node.

To install the Forms 1 service on a node by itself and install the Forms 2 and Web services on a separate node, type FORMS-WEB1 as the node name for Forms 1 and Web (primary), and FORMS-2 as the node name for Forms 2. Select Linux from the drop-down list in the Operating System field.

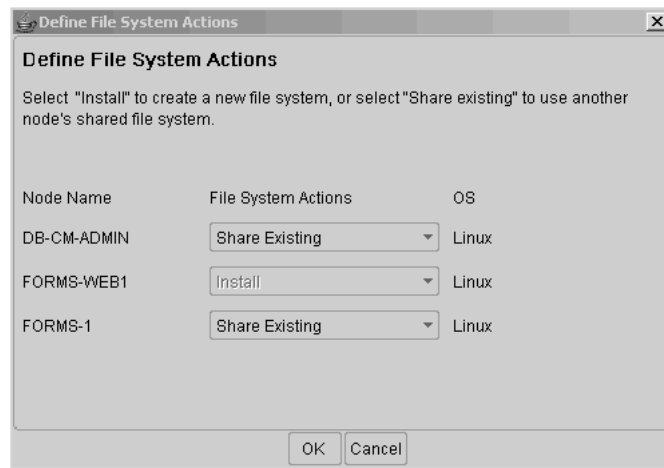
Note: Only nodes that run on the same operating system can share an APPL_TOP. Shared APPL_TOP configurations are not currently supported on Windows platforms.

Notice that the "Enable a shared APPL_TOP for this instance" check box at the bottom of the Node Information screen is checked. Rapid Install has set up the shared APPL_TOP configuration based on the nodes you identified on this screen.

Step 8 Set up a shared APPL_TOP

In a shared APPL_TOP system, the APPL_TOP is installed on only one node. The other nodes are set up to share that APPL_TOP, making changes to the shared file system immediately visible on all nodes. Using a shared APPL_TOP simplifies the maintenance of your configuration and greatly reduces downtime during maintenance tasks.

Click Details to see the file system actions for this shared configuration.



The Define File System screen shows the file sharing for the configuration you have described. It identifies the nodes as follows:

- **Install**
This is the base node. Its APPL_TOP is available for sharing with other nodes. On subsequent node-specific screens, the wizard prompts for directory paths for each node you mark as Install.
- **Share Existing**
A node marked Share Existing does not have its own APPL_TOP. It must share the APPL_TOP of a node marked Install.

If you want to set up the shared APPL_TOP in a different way, change the values on this screen. Then, click OK to return to the Node Information screen, and click Next to Continue.

Step 9 Complete system configuration

To finish describing your system configuration, complete the remaining wizard screens as described in Steps 8 – 19 beginning on page 3-7 in this chapter.

Setting Up the Other Nodes

You have finished the configuration and setup of the node where you installed the database — the first step in a multi-node installation. Now, run Rapid Install on each of the other nodes in your system using the same configuration file you used for the database node. *You can set up additional nodes in any order.*

1. Copy the configuration file (config.txt) you saved in Step 17 to *each* of the other nodes.
2. On any of the other nodes, start Rapid Install, and choose the Install Oracle Applications E-Business 11i option. Click Next to continue.
3. On Load Configuration screen, choose "Yes, load configuration file." When you select this option, the directory path field and Browse button become active. Enter the directory path to the config.txt file that you copied to this node, or click Browse to navigate to the file. Click Next to continue.
4. Because you set up the parameters for all nodes when you first created the configuration file, Rapid Install goes directly to the pre-install test and begins the validation process. See Step 18 on page 3-22 for details.

5. Review or resolve any issues flagged with *!* or *x* on the Pre-install Checks screen. If necessary, click Back to return to the appropriate screen(s) and make necessary changes. Save the config.txt file and then click Next to re-run the pre-install test. If there are no issues listed on the summary screen, click Next to continue.
6. Click Next when each alert screen is displayed. Rapid Install begins the installation on this node.
7. Repeat these steps for *each* of the other nodes in your system.

What To Do Next

Once the installation is complete, there are some finishing steps that are required for all users, and some that are required for specific types of systems. For example, all users must configure the client software, but some users may also need to set up NLS support. Go to Chapter 6, and perform the required tasks, and those that apply to your system.

Upgrading Your Installation

Rapid Install is used in both the pre-upgrade and post-upgrade processing during an upgrade from Oracle Applications Release 10.7 or Release 11.0 to Release 11*i* (11.5.10). This chapter describes the upgrade in general, and describes in detail the upgrade steps that rely on Rapid Install. It includes the following sections:

- How an Upgrade Works
- Creating the Upgrade File System
- Configuring and Starting Server Processes
- What To Do Next

How an Upgrade Works

As part of a system upgrade, you enter configuration parameters in the Rapid Install wizard and run Rapid Install as one of the pre-upgrade tasks (performed prior to running AutoUpgrade). It uses the parameters to lay down the file system and install the new technology stack. You must also migrate or upgrade your existing database to Oracle9*i* as one of the pre-upgrade tasks.

After you complete the pre-upgrade tasks, you run AutoUpgrade to upgrade products and update the database objects and code to Release 11*i*. Then, you run AutoPatch to apply the patches and run the drivers required to update the database to the most current release level (for example, 11.5.10). After you have completed the database upgrade, you run Rapid Install a second time to configure and start the servers and services.

Note: The upgrade instructions in this chapter apply only to an upgrade from Release 10.7 or 11.0 of Oracle Applications. For information on upgrading from a previous Release 11*i* version, see the *Oracle Applications Release 11.5.10 Maintenance Pack Installation Instructions*.

In general, you must perform the following tasks as described in the associated documentation:

- Read and understand all the documentation associated with the current release, including *Oracle Applications Release Notes*, *Oracle Applications NLS Release Notes*, *Oracle Applications Installation Update Notes*, *Upgrading Oracle Applications*, and this manual. All documentation is available either in the *Oracle Applications Documentation Library* or from *OracleMetaLink*.
- Complete the Category 1 steps listed in *Upgrading Oracle Applications*.

- Begin the Category 2 steps in *Upgrading Oracle Applications*. When instructed to do so, run Rapid Install using the “Create Upgrade file system” option. Rapid Install creates the new Applications file system, the new ORACLE_HOME for the RDBMS, and installs the other technology stack components.
- Continue with the Category 2 steps. When instructed to do so, use AutoPatch (see AutoPatch in *Oracle Applications Maintenance Utilities*) to apply upgrade patches in pre-install mode. You can find a list of the most up-to-date patches in the *Oracle Applications Release Notes*.
- Complete the remaining Category 2 steps, and the Category 3 steps, as directed in *Upgrading Oracle Applications*. One of the most important Category 3 steps is to migrate your RDBMS.
- After you complete the pre-upgrade tasks, you run AutoUpgrade to upgrade products and update the database objects and code to Release 11i. See AutoUpgrade in *Oracle Applications Maintenance Utilities*.
- The Category 4 steps in *Upgrading Oracle Applications* mark the beginning of the post-upgrade tasks. An important part of this phase of the upgrade is to run AutoPatch to apply the patches and drivers required to update the database to the most current release level.
- When instructed to do so in Category 4, return to this chapter for instructions on running Rapid Install to configure and start the server processes for the upgraded database. Then, complete the remaining Category 4 steps as described in *Upgrading Oracle Applications*.
- Complete the remaining Category 4 tasks, as well as those described in Category 5, Category 6, and the Finishing chapter.

Creating the Upgrade File System

When the Category 2 instructions in *Upgrading Oracle Applications* direct you to do so, run Rapid Install as described in the following pages.

Set Up the Configuration

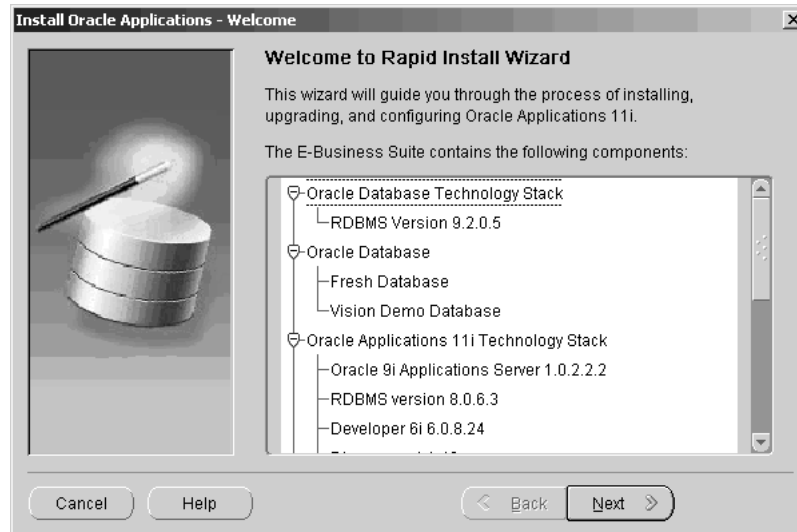
As described in the previous section, Rapid Install performs two functions during an upgrade. This section describes the first — specifying the configuration values that Rapid Install needs to lay down a new file system and install the new technology stack.

Additional Information: See Applications File System in *Oracle Applications Concepts*.

Follow the instructions in the Before You Begin section in Chapter 1. Then, complete the following tasks.

Step 1 Start the Rapid Install wizard

Start the wizard by typing *rapidwiz* at the command prompt. The Welcome screen appears.



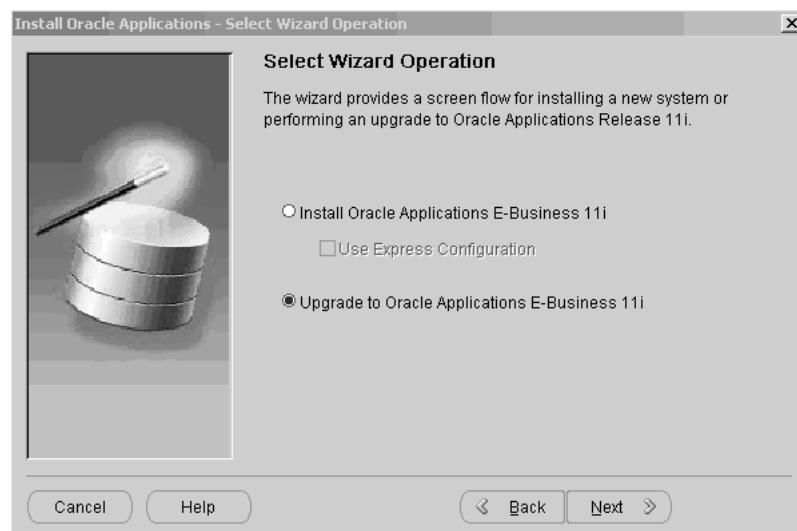
This screen lists the components that are included in, or supported by, this release of Oracle Applications. Use the scroll bar to bring all the components into view.

For an upgrade, Rapid Install installs an Oracle9i (9.2.0.5) RDBMS Oracle home without a database. You can use this Oracle home to upgrade or migrate your existing database to Oracle9i. See Chapter 3 in *Upgrading Oracle Applications*.

This screen is for information only. No action is required. Click Next to continue.

Step 2 Select a wizard operation

Use the Select Wizard Operation screen to indicate the action you want Rapid Install to perform. You begin both new installations and upgrades from this screen. Based on the action you choose, the Rapid Install wizard continues with the appropriate screen flow.



The available actions are as follows:

- **Install Oracle Applications E-Business 11i**

This action sets up a new, fully configured system, with either a fresh database or a Vision Demo database. The configuration is derived from the system-specific configuration parameters you enter in the Rapid Install wizard and save in the

configuration file (config.txt). This custom configuration reflects the way you will use your Oracle Applications products.

Additional Information: The steps Chapter 2 and in Chapter 3 describe a new installation.

- Express Configuration

This action sets up a fully configured, single-user/single-node system with either a fresh database or Vision Demo database. You supply a few basic parameters, such as database type and name, top-level install directory, and increments for port settings. The remaining directories and mount points are supplied by Rapid Install using default values.

Additional Information: The steps in Setting Up an Express Installation in Chapter 2 describe this option.

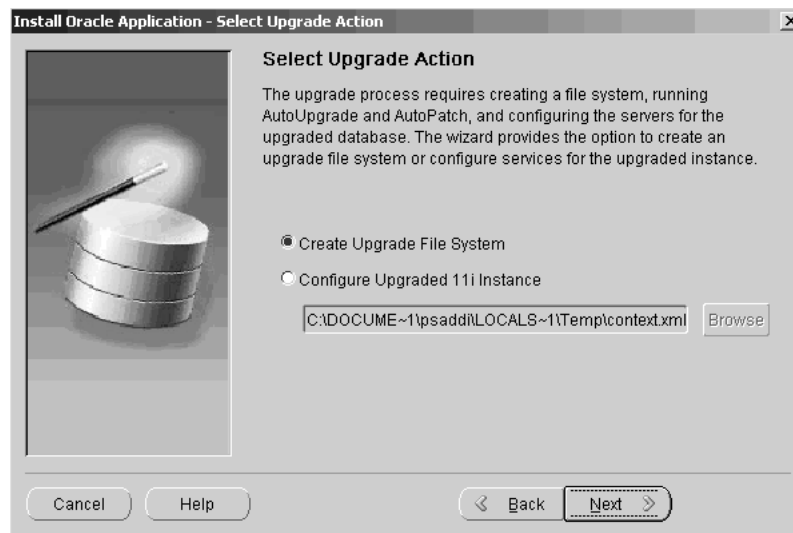
- Upgrade to Oracle Applications E-Business 11i

Choose this option to indicate that you are upgrading your E-Business Suite products to the current version of Oracle Applications. The wizard screen flow presents two paths: one that lays down the file system and installs the new technology stack, and one that configures servers and starts services.

In the following steps, you will enter information in the wizard for upgrading a single-node system. Click Upgrade Oracle Applications E-Business 11i. Then, click Next to continue.

Step 3 Choose upgrade option

On the Select Upgrade Action screen, you choose to: create the file system for your upgraded system or configure the upgraded instance.



The actions associated with an upgrade are performed in separate Rapid Install sessions as follows:

- Create Upgrade File System

You choose this option when prompted to run Rapid Install in the Category 2 pre-upgrade task list in *Upgrading Oracle Applications*. In the screen flow associated with this option, the wizard collects configuration parameters for your system and

stores them in a configuration file (config.txt). When you run Rapid Install, AutoConfig uses these values to lay down the file system structure and technology stack components for your configuration. When it runs, it also creates a context file (CONTEXT_NAME.xml) that contains all the parameters that describe your system. This context file is created and managed by AutoConfig.

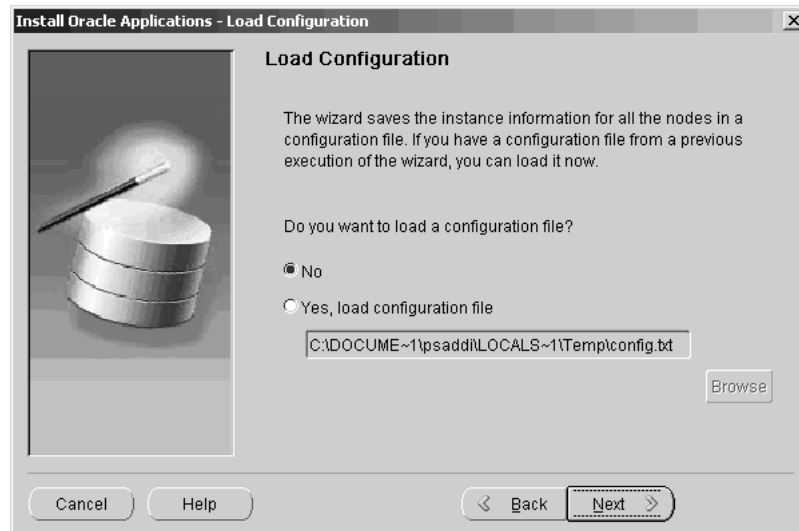
- **Configure Upgraded 11i Instance**

You choose this option when prompted to run Rapid Install as a Category 4 post-upgrade task in *Upgrading Oracle Applications*. In the associated screen flow, you specify the name of the context file (CONTEXT_NAME.xml) that AutoConfig created in Category 2. This time, AutoConfig uses the values in the context file to configure the servers and start the services.

Choose Create Upgrade file system and click Next.

Step 4 Identify configuration file

On the Load Configuration screen, you indicate whether you will be using an existing configuration file.



If you answer No, Rapid Install stores the configuration parameters you enter on the wizard screens in a new configuration file (config.txt) that it will use to lay down the file system and install the technology stack components for the upgraded system. You indicate the location and the name of the new configuration file on a subsequent screen.

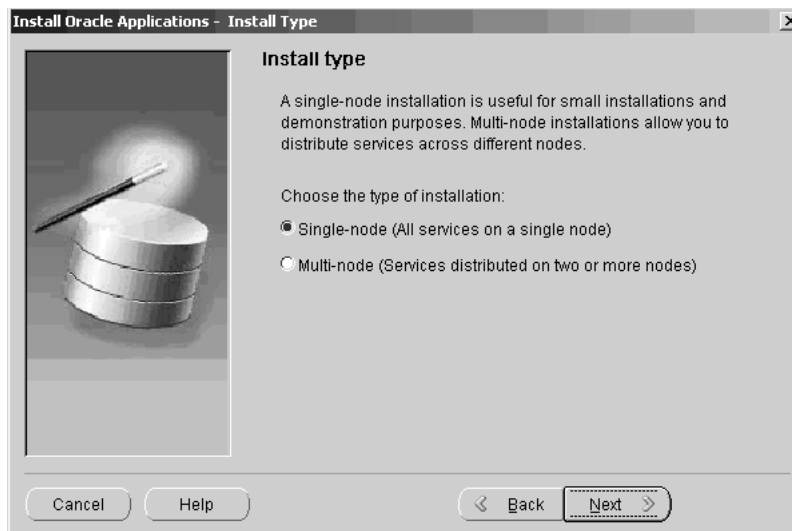
If you choose "Yes, load configuration file," the directory path field becomes active. Entering the file name and path points Rapid Install to a previously stored configuration and indicates that want to use those parameters. Typically, you choose this option when copying the configuration file to other nodes in a multi-node upgrade, or when restarting Rapid Install after an interruption in the upgrade processing.

Additional Information: See Set Up Additional Nodes (for multi-node systems only) in this chapter. See also Restart the Installation in Chapter 3.

Because the upgrade contains new configuration parameters, click No. Then, click Next to continue.

Step 5 Choose installation type

On the Install Type screen, you indicate whether your existing system is installed on a single node or distributed across multiple nodes.



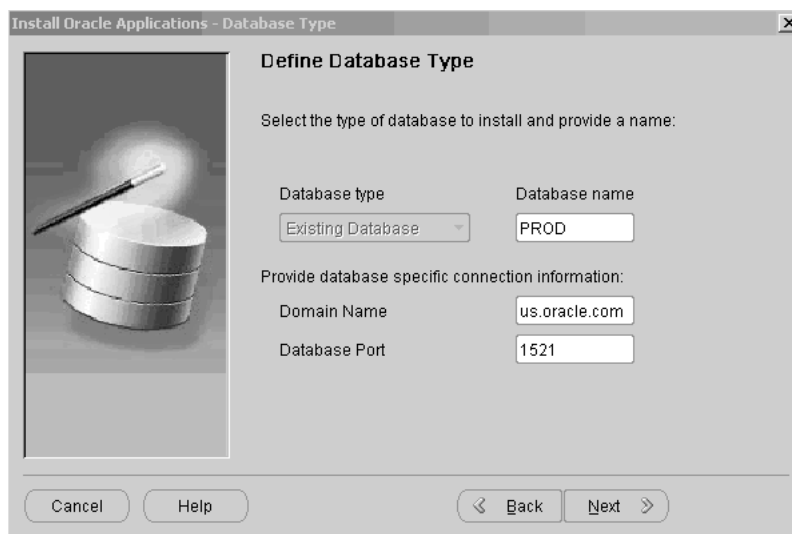
In a single-node upgrade, the RDBMS, the core AD technology directories and product directories, and the concurrent processing, forms, and Web servers are installed on one node under a common APPL_TOP.

In a multi-node upgrade, the RDBMS and the concurrent processing server, forms server, and Web server can be distributed across multiple nodes. The core AD technology directories and all product directories are installed under the APPL_TOP on all tiers. Nodes can be configured to share an APPL_TOP.

This example uses a single-node installation as an illustration of the screen flow. For information about the Rapid Wizard screens for multi-node systems, see Chapter 3. Select Single-node, and click Next to continue.

Step 6 Define the database type

On the Database Type screen, describe your existing database.



You will be upgrading your current, existing database, so the Database Type field is grayed out. Type the name that you want Rapid Install to use to identify your existing database in the Database Name field. The name must be alphanumeric, and cannot exceed 8 characters in length, with no spaces. Rapid Install records this name in the Net Services configuration and in the init.ora file.

Be sure to identify your *current* database for the upgrade. If the wizard cannot connect to your existing database during the upgrade process, you will be prompted for additional information on subsequent screens. For example, in Step 9 on page 4-9, the wizard looks for this connection so that it can determine the active and installed languages in your existing system. If it cannot find a connection, you will have to complete the Select Additional Languages screen to supply the missing information.

Enter a valid value for the Domain Name. This value, when combined with a host name, must produce a fully qualified domain name. For example, for <myhost>.us.oracle.com, the domain name is us.oracle.com.

The Database Port is the port that receives requests from the various servers for processing on the RDBMS. Click Next to continue.

Step 7 Enter passwords

The Review Application User Information screen lists usernames and the *default* passwords assigned by the wizard for the application user. You must record the actual passwords for your existing system before you continue.

Review Application User Information	
APPS Username	APPS
APPS Password	****
GWYUID Username	APPLSYS PUB
GWYUID Password	PUB
Guest Username	GUEST
Guest Password	ORACLE

The usernames and default passwords are: APPS Username (APPS), APPS Password (defaults to APPS), GWYUID Username (APPLSYS PUB), GWYUID Password (defaults to PUB), Guest Username (GUEST), and Guest Password (defaults to ORACLE).

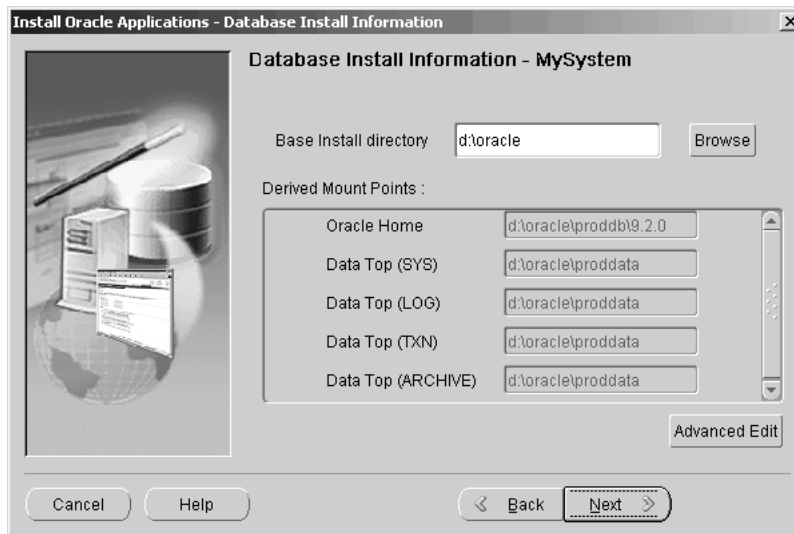
Complete the text boxes to change all the passwords on this screen to match the those in your existing system. Failing to record this information accurately could compromise the upgrade. The wizard stores this information in the configuration file.

Additional Information: See the *Oracle Applications System Administrator's Guide - Security* for details.

Click Next to continue.

Step 8 Set up database installation directory

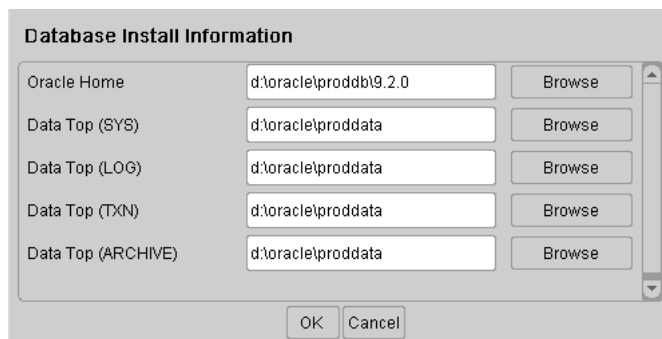
The Database Install Information screen prompts you for information Rapid Install needs to set up the database tier file system.



Do not omit any fields on this screen. Rapid Install uses some of this information in the pre-upgrade processing, and all the information is saved and used when you run Rapid Install again in the post-upgrade processing (after you run AutoUpgrade).

The "Base Install directory" field defaults to a sample directory name, using the operating system syntax for the machine where you started the Rapid Install wizard. In this example, the syntax is for a Windows operating system. This directory is the top-level directory that Rapid Install uses to derive the mount points associated with the RDBMS.

Enter a base installation directory, or click Browse and highlight a directory path. If you want to refine the directory path for individual mount points, click Advanced Edit.

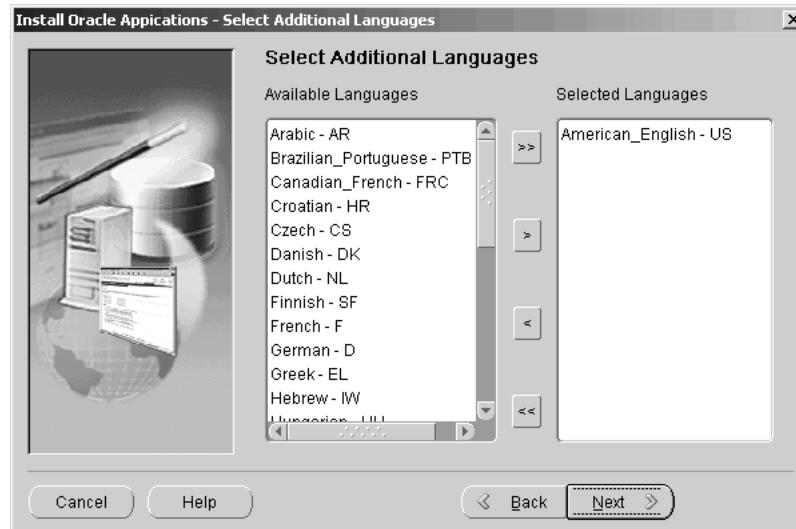


This screen displays default directories, based on the base install directory you specified on the Database Install Information screen. Table A-1 in Appendix A defines these mount points. Accept the defaults or change the derived mount points as needed. Click OK to return to the Database Install Information screen. Then, click Next to continue.

Step 9 Verify active (and installed) languages (conditional)

If Rapid Install can connect to your existing database, the wizard determines the active and installed languages in your current system. In that case, the Select Additional Languages screen does not appear. Bypass this step and continue with Step 10.

However, if no database connection is made, the wizard presents the Select Additional Languages screen, which lists all the languages supported by Oracle Applications in this release.



Review the languages on the list and move *only* the ones that are *currently* active in your system from the Available Languages box to the Selected Languages box. Double-click each language, or highlight it and click the right arrow (>) button. You cannot use this screen to add or delete languages from your existing database — only to record those that are currently active.

Note: After the upgrade is complete, you can use OAM License Manager to register additional languages as active in the upgraded system. See *Oracle Applications Maintenance Utilities*. See also *Oracle Applications NLS Release Notes*.

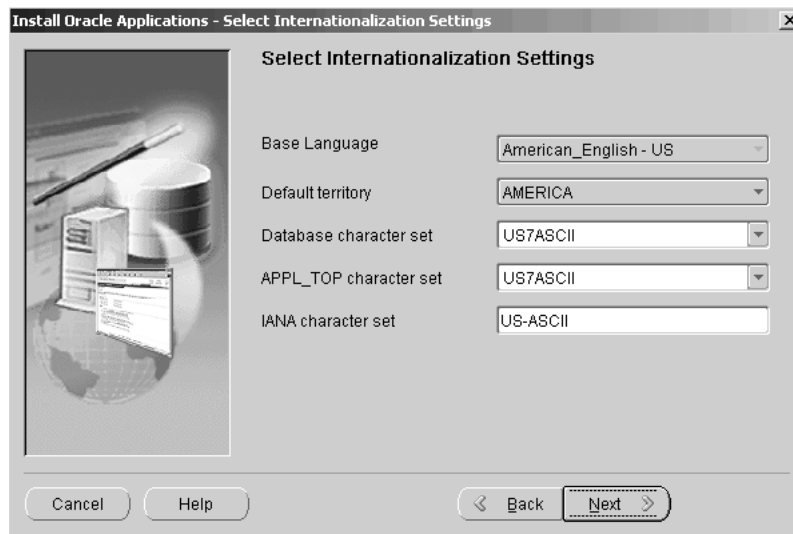
When you run Rapid Install, it prompts you for the translated software for all languages other than American English. You must have the Oracle Applications Release 11i NLS software available at that time.

Caution: If you do not have the translated software available when Rapid Install prompts for their location, the installation will stop and you will not be able to continue.

Once you have completed this screen, click Next to continue.

Step 10 Review Internationalization settings (conditional)

The Select Internationalization Settings screen displays settings for systems that require NLS functionality.



If Rapid Install can connect to your existing database, the wizard displays the Base Language, Default Territory, Database character set, APPL_TOP character set, and IANA character set in your existing database. Most of the fields are grayed out and cannot be changed.

However, if no database connect is found, this screen displays Rapid Install defaults, as described in the following paragraphs.

Base Language: If you have other active languages in your existing system, the Base Language field is not grayed out, regardless of whether a database connection was made. You can change the default, if necessary, to the base language in your existing system. If American English is the only active language in your existing system, this field is grayed out and cannot be changed.

Default Territory: This field is set to AMERICA, and should remain so during the upgrade. Your system administrator can change this value after the upgrade, if necessary.

Database character set and APPL_TOP character set: Defaults to a common character set that is compatible with the active languages indicated on the Select Additional Languages screen. If they are not the character sets in your existing system, select the correct ones from the drop-down list.

IANA character set: The Internet Assigned Numbers Authority character set is the Internet-assigned standard used by the Web server. If necessary, change this value to indicate the one used in your existing system. For more information, see <http://www.iana.org/assignments/character-sets>.

Click Next to continue.

Step 11 Enter node-specific information

You have already specified the top-level directory and the mount points for the RDBMS. Now, you must specify top-level directory and subdirectories associated with the application tier servers. The administration server contains the files and processes used to perform patching and other maintenance tasks.

In a single-node system, these servers are on the same node, so you can enter all the parameters on the Admin Server/Concurrent Mgr/Forms Server/Web Server screen.

The default sample directories use the syntax of the operating system where you started Rapid Install. In addition, some of the fields are operating system-specific. The MKS directory and MSDEV directory are specific to Windows. Enter the location of the MKS tools, and the location of the Visual C/C++ executables and .DLLs, respectively. If this is a Unix or Linux system, complete the information for Apps OS User (the owner of the application tier file system and technology stack) and Apps OS Group (the group that the Apps OS User belongs to). Accept the defaults or enter new values.

The Base Install directory is the top-level directory that Rapid Install will use to derive the mount points for the application tier servers on this node. You can accept the defaults or enter new values. Click Browse to navigate to a new path. Double-click the directory to select it.

To review or change values in the "Derived mount points" field, click Advanced Edit.

On the Application Tier Mount Points screen, use the vertical scroll bar or the Up and Down Arrow keys to move the derived settings fields and default values into view. Table A-2 in Appendix A defines the fields. You can change this information or accept the defaults. Use the Browse button to navigate to a new directory path, and double-click the path to select it. Click Next to continue.

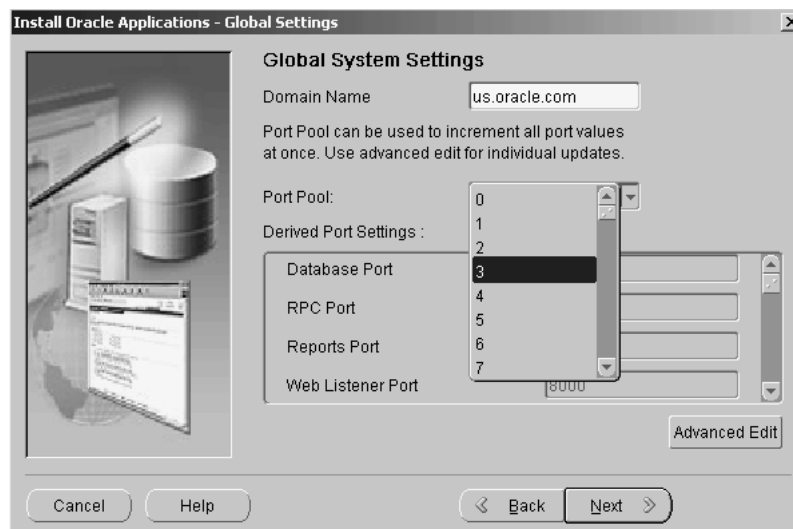
Step 12 Review global settings

Rapid Install uses the values specified on the Global Settings screen to identify a qualified domain name and to derive port settings that your system will use to connect services and listeners.

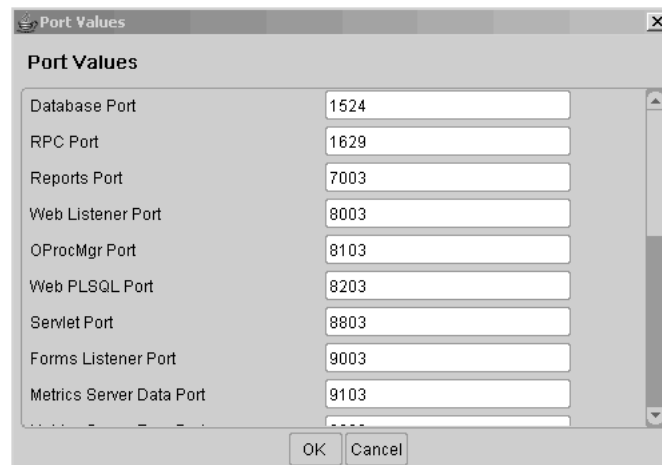


The Domain Name is the same name you entered on the Database Type screen, so this field is for information only and cannot be changed. If the name is not correct, click Back to return to the Database Type screen and change the name.

The starting number of the port value is pre-set, but you can customize it by selecting an incremental number from the drop-down list in the Port Pool field. There are 100 port pool selections.



For example, if you select an increment of 3 from the Port Pool list, the values in the Derived Port Settings will reflect this choice. Use the scroll bar or click Advanced Edit to see the Port Values screen.



The Port Values dialog box displays a list of ports and their corresponding values. The ports are listed on the left, and the values are entered in text boxes on the right. The values are: Database Port (1524), RPC Port (1629), Reports Port (7003), Web Listener Port (8003), OProcMgr Port (8103), Web PLSQL Port (8203), Servlet Port (8803), Forms Listener Port (9003), and Metrics Server Data Port (9103). The dialog box has OK and Cancel buttons at the bottom right.

Port Name	Value
Database Port	1524
RPC Port	1629
Reports Port	7003
Web Listener Port	8003
OProcMgr Port	8103
Web PLSQL Port	8203
Servlet Port	8803
Forms Listener Port	9003
Metrics Server Data Port	9103


Because you selected an increment of 3, the default values are increased by that value. The Database Port (1521) has become 1524, the RPC Port (1626) has become 1629, and so on.

You can also specify ports by manually adjusting individual values on this screen. Use the vertical scroll bar or the Up and Down Arrow keys to move through the port settings. See Table A-3 in Appendix A for definitions.

Click OK save your changes and return to the Global Settings screen. Click Cancel to return to the Global Settings screen without making changes. Then, click Next to continue.

Step 13 Save configuration parameters

You have now completed all the information Rapid Install needs to create the application tier file system, set up the new technology stack, and create the new Oracle Home for the database tier. The Save Instance-specific Configuration screen prompts you to save these values in a configuration file.



The Save Instance-specific Configuration dialog box prompts the user to save the configuration. It includes a text box for the full path to the configuration file, which is currently set to C:\prod\installation\config.txt. There is a Browse button next to the text box. The dialog box also has Cancel, Help, Back, and Next buttons at the bottom.

Save Instance-specific Configuration

The configuration that you have entered will be saved in a file for future use.

Enter the full path for the configuration file:

C:\prod\installation\config.txt

Buttons: Cancel, Help, Back, Next

The configuration file (config.txt) contains all the information required to configure a specific Oracle Applications instance. Rapid Install uses these values during the upgrade to lay down the file system and install the new technology stack.

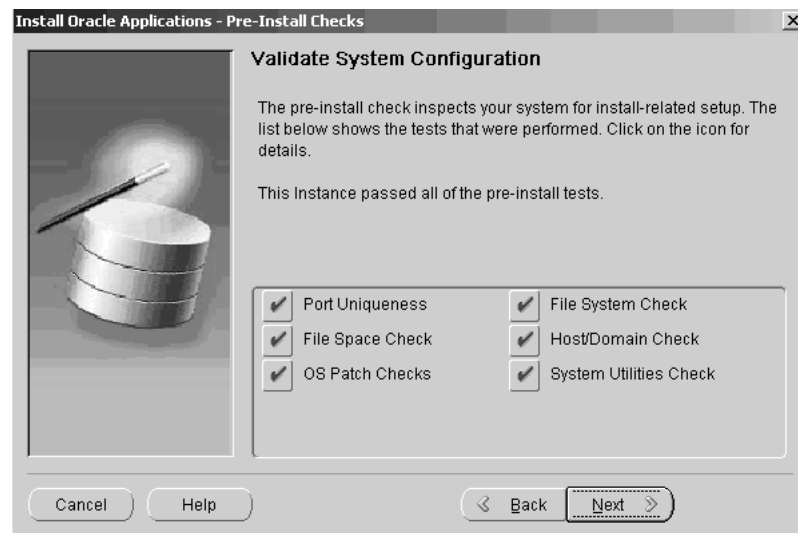
When Rapid Install runs, it employs AutoConfig to store the values in a central repository called a *context file*. You will point Rapid Install to this context file in the Configuring and Starting Server Processes section on page 4-18 to configure and start the server processes.

Additional Information: See AutoConfig in *Oracle Applications Concepts*. See Modifying Configuration Parameters in *Oracle Applications Maintenance Procedures*.

The default location of the config.txt file is the system temporary directory. It's a good idea to choose a permanent directory location because you may use this file at a later date. Enter a directory path or click Browse.

Step 14 Review pre-install test results

Rapid Install begins to validate the configuration described by your configuration file. It lists the tests performed on the Pre-Install Checks screen and marks each one with an indication of whether it succeeded or failed.



The parameters that Rapid Install validates include:

This test...	Validates these parameters...
Port Uniqueness	There are no duplicate defined ports for server processes.
File System Check	File system mount points exist and have correct privileges.
File Space Check	File system mount points have sufficient space.
Host/Domain Check	Host and domain names are verified.
System Utilities Check	Linking utilities (make, ld, and cc) are available.
JDK Availability Check	Not performed on Solaris, Linux, or Windows platforms because JDK is installed automatically by Rapid Install. On other platforms, Rapid Install prompts you to enter the directory path to JDK. The test then verifies that JDK is available. See <i>Oracle Applications Installation Update Notes</i> for more information.

The results of each test are labeled using an icon. There are three types:

- Check mark (tick)

The test succeeded.

- Exclamation mark (!)

The configuration requires review. Click the ! to get information from the system test review. Rapid Install alerts you if you continue without resolving the issues.

- An x mark

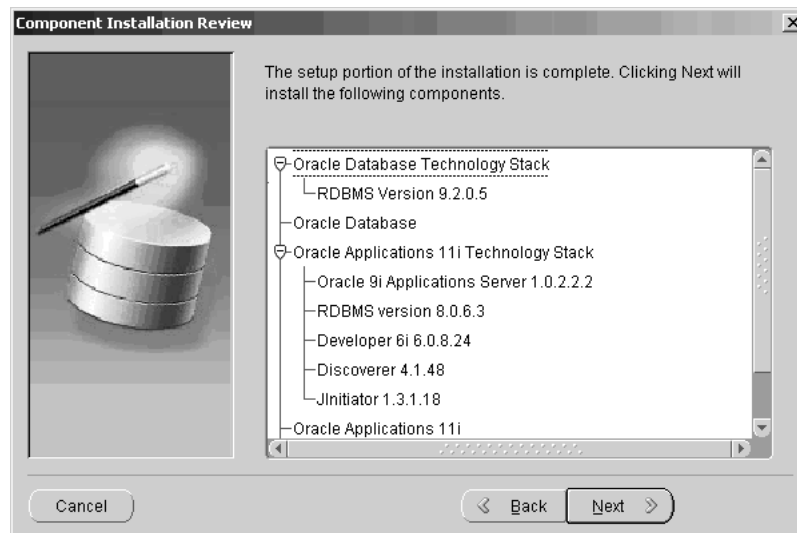
All issues marked x must be resolved before you continue with the installation. Click the x to see the errors. If you can resolve an issue by fixing the values provided on the settings screen(s), click Back until you reach the appropriate screen, and re-enter the values. Some tests must be resolved in the operating system. In that case, you may have to restart the Rapid Install wizard after the problem has been fixed.

Additional Information: See Restart the Installation in Chapter 2.

When there are no other issues to resolve, click Next to continue.

Step 15 Run Rapid Install

Rapid Install lists the actions it will take during the installation process. The list varies based on your installation.



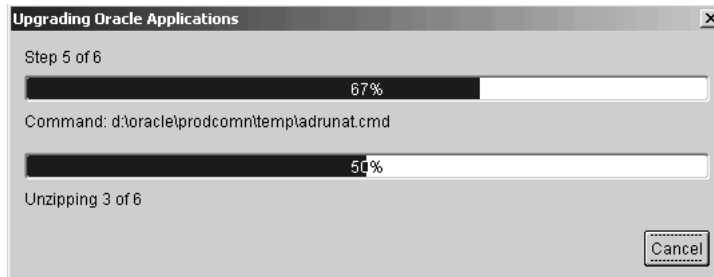
Click Next to continue. Rapid Install displays another alert screen asking you to verify that you are ready to begin the installation. Click Yes to continue.



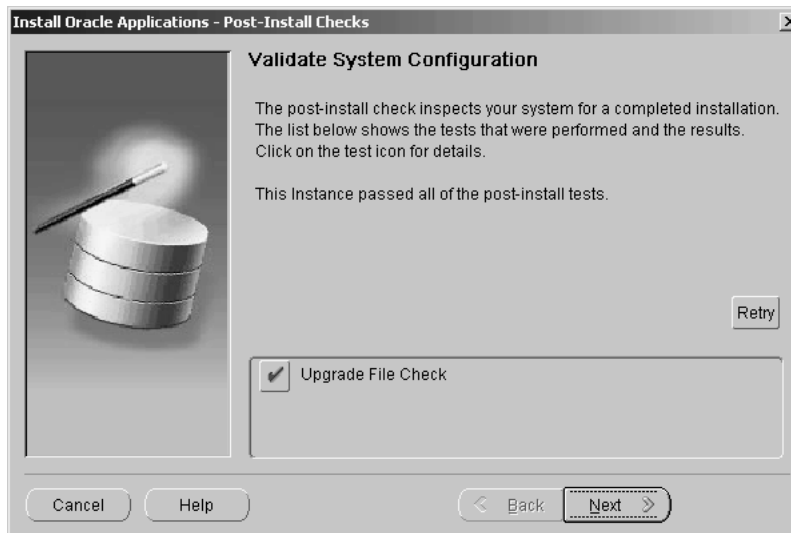
Rapid Install creates the new file systems for the application tier components (APPL_TOP and technology stack ORACLE_HOME) and the 9i ORACLE_HOME for the database.

Status Indicators and Prompts

When it runs, Rapid Install displays a main progress bar and an individual progress bar. The main progress bar reports on the completion percentage of the installation as a whole. The individual progress bar reports on the progress of each individual step. The installation is not complete until all the progress bars disappear from your screen.



When the processing is complete, Rapid Install displays the Post-install Checks screen.



If the test does not succeed, review the errors listed on the screen. Click the Back button to return to the appropriate screens and make corrections as needed. Then click the Retry button.

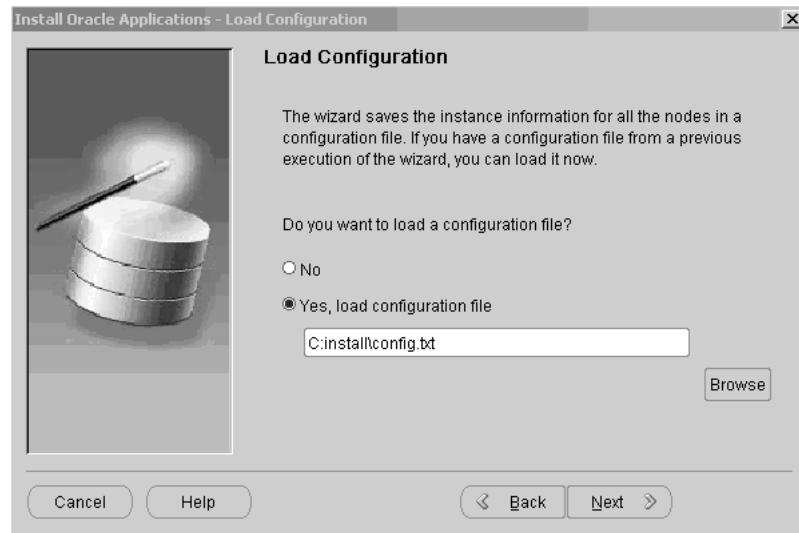
If there are no errors, click Next. Rapid Install displays a Finish screen that lists the components that it has installed and describes any steps you need to perform to complete the upgrade.

Review the information on this screen, and click Finish. Rapid Install exits. If your system has multiple nodes, follow the instructions in the next section to set up the additional nodes. If this is a single-node system, this phase of the upgrade is complete.

Restart the Upgrade

If the installation process terminates before completion, you can restart it by running the Rapid Install wizard from the command line and adding `-restart` to the `rapidwiz` command. When the initial Rapid Install screen appears, select the same operation you started with and click Next.

Rapid Install has stored the configuration in the config.txt file, so on the Load Configuration screen, choose "Load an existing configuration file." There is no need to complete the wizard screens a second time.



If the correct location of the config.txt file is not shown, type in the path or select it using the Browse button. Click Next.

Rapid Install moves through the installed components and automatically starts at the point where it previously stopped. Previously completed actions start and complete rapidly as the wizard determines that there is nothing additional to do.

Note: There may be validation warnings (for example, port in use) if your database was already installed before the restart process. You can safely ignore these messages.

Set Up Additional Nodes (for multi-node systems only)

If your system is installed across more than one node, you must perform some additional tasks. If your system is a single-node installation, omit this section and go to the Continue the Upgrade Tasks section.

Follow these steps to run Rapid Install on each of the nodes where the concurrent processing, forms, and Web servers are located.

1. Copy the configuration file you saved in Step 13 to each of the other nodes.
2. Go back to Step 1 and start Rapid Install. Choose "Upgrade to Oracle Applications E-Business 11i".
3. On the Select Upgrade Action screen, choose the "Create Upgrade File System" option.
4. On the Load Configuration screen, choose "Yes, load configuration file" and enter the configuration file name and directory path.
5. Because you set up the parameters for all nodes when you first created the configuration file, Rapid Install goes directly to the pre-install test and begins the validation process.

Continue the Upgrade Tasks

Return to *Upgrading Oracle Applications* and complete the remaining Category 2 steps in Chapter 2 and Category 3 Steps in Chapter 3 for each node in the system. The Category 3 steps include running AutoUpgrade to upgrade your products. See *Oracle Applications Maintenance Utilities* for information on using AutoUpgrade.

Step 1 Apply post-upgrade patches and updates

After AutoUpgrade is finished, go to Chapter 4, *Upgrading Oracle Applications*, and complete the tasks under the Update and Patching Tasks heading. These tasks describe important post-upgrade patches and updates that must be applied before configuring and starting server processes.

Step 2 Continue with database upgrade tasks

Continue with the Category 4 tasks in Chapter 4 in *Upgrading Oracle Applications*. When instructed to run Rapid Install to configure and start the server processes, complete the steps in the next section.

Configuring and Starting Server Processes

When instructed to do so in *Upgrading Oracle Applications*, run Rapid Install again to configure and start the server processes. Then, complete the remaining post-upgrade tasks.

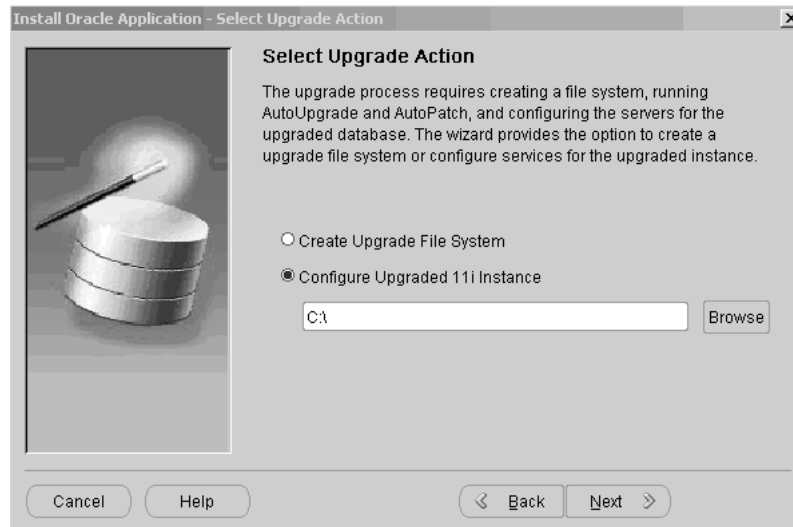
Configure the Existing Instance

When you ran Rapid Install previously, it created and stored an instance-specific context by replacing system variables you entered on the wizard screens with the specific values you saved in the configuration file (config.txt). In this section, you point Rapid Install to the Applications context file, so that it can use the values there to complete the process of configuring your system.

First, ensure that the database and Net Services listeners are started. Then, start Rapid Install as instructed in Step 1 on page 4-2.

Step 1 Configure server processes

On the Select Wizard Operation screen, choose the Upgrade to Oracle Applications 11i option to indicate to you are performing an upgrade. This displays the Select Upgrade Action screen.



On this screen, click **Configure Upgraded 11i instance** to indicate that you want to configure and start the servers for the upgraded database.

Step 2 Indicate the name and location of context file

When you ran Rapid Install previously, it configured your system by replacing system variables you entered on the wizard screens with the specific values you saved in the configuration file (config.txt). It stored this information as an Applications context file named `<CONTEXT_NAME>.xml`.

Additional Information: See *AutoConfig in Oracle Applications Concepts*.

Complete the directory path to point Rapid Install to the Applications context file. It is located in `<APPL_TOP>/admin/<CONTEXT_NAME>.xml`. Enter the path directly in the box, or click **Browse** and highlight the path in the directory.

Click **Next** to continue.

Step 3 Begin the configuration process

For security reasons, the APPS password is not saved in the context file, so you will be prompted to re-enter it on the **Review Application User Information** screen. See *Enter passwords* on page 4-7 for details. Click **Next**.

Rapid Install notifies you of the components and processes it will configure and start. Click **Next** to continue.

At the prompt click **Yes** and begin the configuration process.



Rapid Install creates server process control scripts and starts all server processes, including the current managers. When this process is complete, it displays a screen

that informs you of the completed steps. Click Finish. Rapid Install exits. This phase of the upgrade is complete.

Finish Post-upgrade Tasks

After you complete the steps in this chapter, return to *Upgrading Oracle Applications* and complete the remaining steps in Category 4. Then, complete the steps for Category 5, Category 6, and the tasks in the Finishing your Upgrade chapter.

What To Do Next

Go to Chapter 6 in this book and follow all the instructions that apply to your upgraded system.

Installing Technology Stack Components

As a part a technology stack upgrade, you use Rapid Install to install the new technology stack components. This chapter describes the associated Rapid Install screen flow, and includes the following topics:

- Upgrading an Existing Technology Stack
- Database Tier Installations
- Application Tier Installations

Upgrading an Existing Technology Stack

You can use a special Rapid Install startup option to upgrade an existing database tier or application tier node to a new technology stack (techstack) without performing a complete system upgrade. With this option, you can install new ORACLE_HOMEs and generate configuration files (using AutoConfig) that will switch your existing system to use the upgraded components.

Note: You must have the Rapid Install software available or have already copied the Rapid Install wizard executable to a stage area.

In addition to running Rapid Install, there are additional tasks associated with a complete technology stack upgrade. These steps are documented in *OracleMetaLink* notes and are specifically referenced in this chapter.

Database Tier Installations

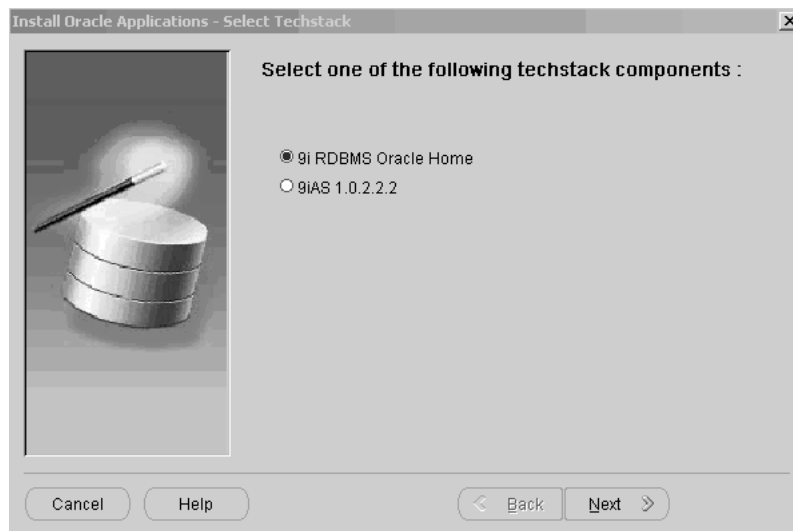
You can use Rapid Install to install the new ORACLE_HOME for an upgrade to an Oracle9i database.

Step 1 Upgrade Oracle Applications to Release 11.5.7 or later

Your Oracle Applications must be at Release 11.5.7 or later to be certified for use with Oracle9i Release 2 (9.2.0). If your release is not 11.5.7 or later, you must upgrade to the latest maintenance level now.

Step 2 Start the Rapid Install wizard

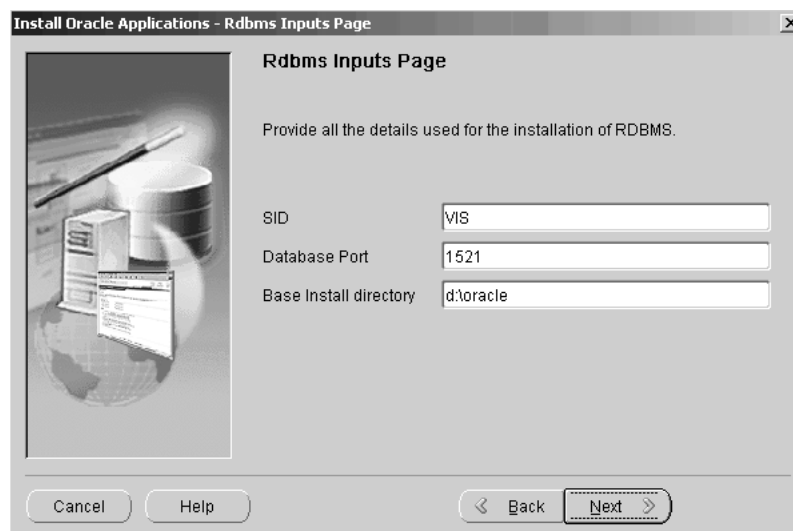
When instructed to do so, start the Rapid Install wizard by typing *rapidwiz -techstack* at the command prompt. The Select Techstack screen appears.



This screen lists the techstack components that the wizard can install. To install a new ORACLE_HOME for an Oracle9i database, select 9i RDBMS Oracle Home. Click Next.

Step 3 Provide details for the RDBMS techstack

On the RDBMS Inputs Page, you provide the information the wizard needs to install a new ORACLE_HOME for the Oracle9i database.



Complete the information on this screen as follows:

SID: the name for the local database instance. This name must be alphanumeric, not to exceed 8 characters in length, with no spaces.

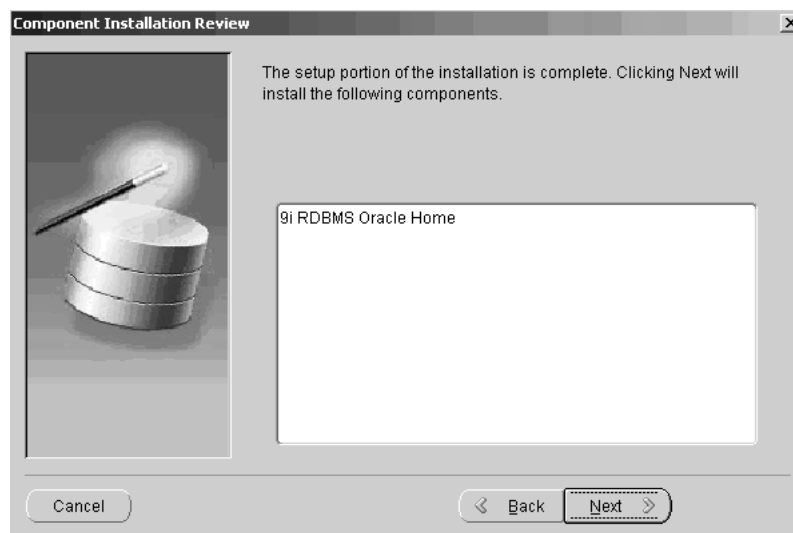
Database Port: the port setting for the Net Services Listener port that receives requests from the various servers for processing on the RDBMS.

Base Install Directory: the top-level directory that Rapid Install uses to install the RDBMS. All subdirectories (mount points) associated with the RDBMS are derived from this directory.

Click Next to continue.

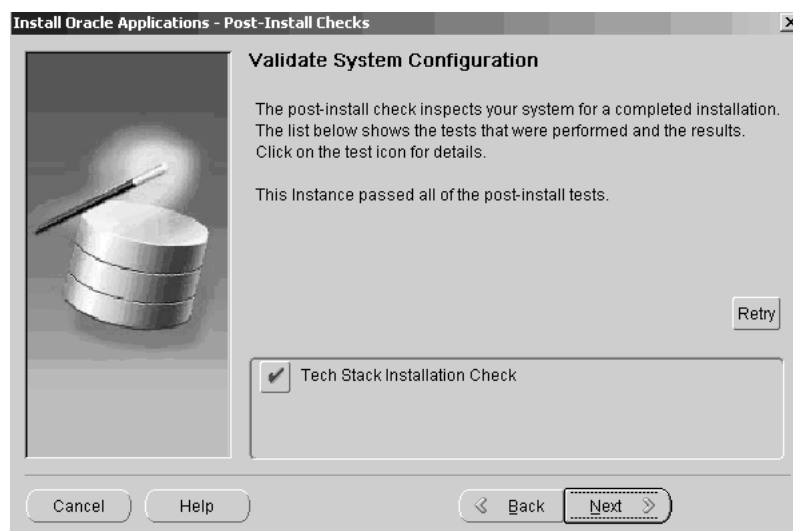
Step 4 Begin the techstack upgrade

The Component Installation Review screen lists the components that the wizard will install.



If this information is correct, click Next to start the installation. The wizard prompts you to begin. Click Yes to continue. Rapid Install begins the installation and displays a progress bar to inform you of the status.

Once the components are installed, Rapid Install displays the Post-Install Checks screen.



This screen verifies that the configuration is correct. Click Next to continue. The Finish screen displays the components installed. Click Finish to end the Rapid Install session.

Step 5 Complete the database upgrade

You must now perform the remaining tasks necessary to complete the database upgrade. They may include applying patches, verifying certain parameters (like init.ora), and so on.

Go to *Interoperability Notes: Oracle Applications Release 11i with Oracle9i Release 2 (9.2.0)* (OracleMetaLink Doc ID: 216550.1) and complete the following sections and subsections:

- Section 1: complete the Database Upgrade and After the Database Upgrade subsections.
- Section 2: complete all the steps in this section.

Application Tier Installations

You can upgrade an existing application tier node to Oracle9i Applications Server (9iAS) 1.0.2.2.2 by running Rapid Install to install only the technology stack components. These components include:

- Oracle HTTP Server powered by Apache (Web server)
- Oracle Discoverer
- Oracle Portal
- Oracle Login Server, supporting Enterprise Single Sign-on

Step 1 Complete pre-install steps

Follow the instructions in the *Installing Oracle9i Application Server 1.0.2.2.2 with Oracle Applications* document on OracleMetaLink (Doc ID: 146468.1).

Step 2 Start the Rapid Install wizard

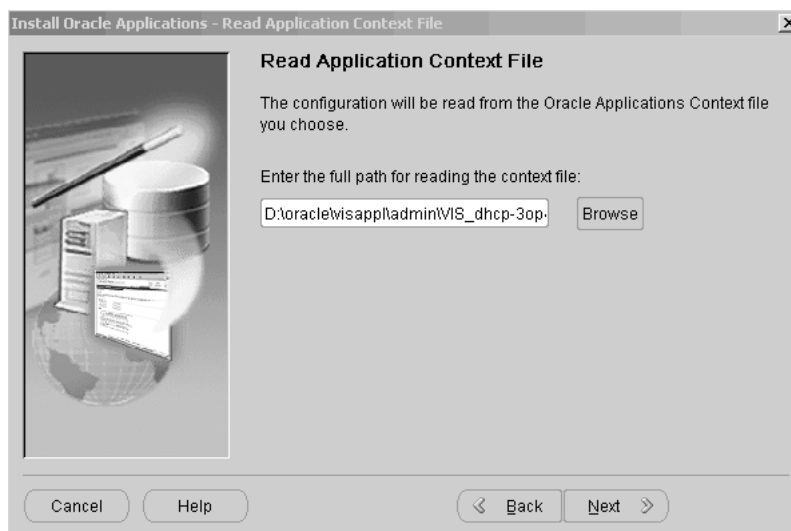
When instructed to do so, start the Rapid Install wizard by typing *rapidwiz -techstack* at the command prompt. The Select Techstack screen appears.



This screen lists the techstack components that the wizard can install. To install a new application tier techstack, select 9iAS 1.0.2.2.2. Click Next.

Step 3 Select the context file

As a part of the techstack installation, you must add new parameters to the application tier context file. Use the Read Application Context File screen point Rapid Install to the context file for your existing system.

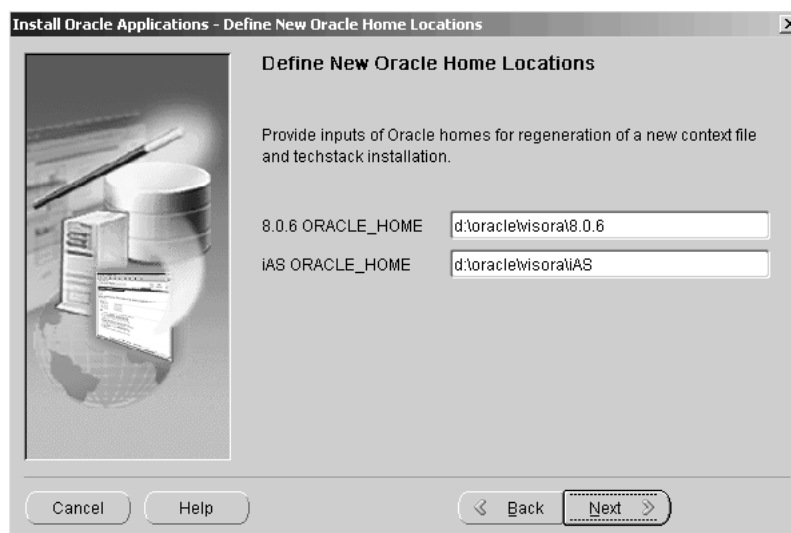


AutoConfig has previously stored configuration parameters in a context file. To modify this configuration, you need to change the parameters so that they point to the new ORACLE_HOMES.

Enter the path and file name directly in the text box, or click Browse and navigate to the file. Highlight the file and click OK to return to the Read Application Context File screen. Click Next to continue.

Step 4 Enter locations for Oracle homes

On the Define New Oracle Home Locations screen, provide the location of the ORACLE_HOMES associated with the updated application tier technology stack.



Enter the location for the new ORACLE_HOMES that will be associated with the upgraded iAS technology stack and stored in the regenerated context file.

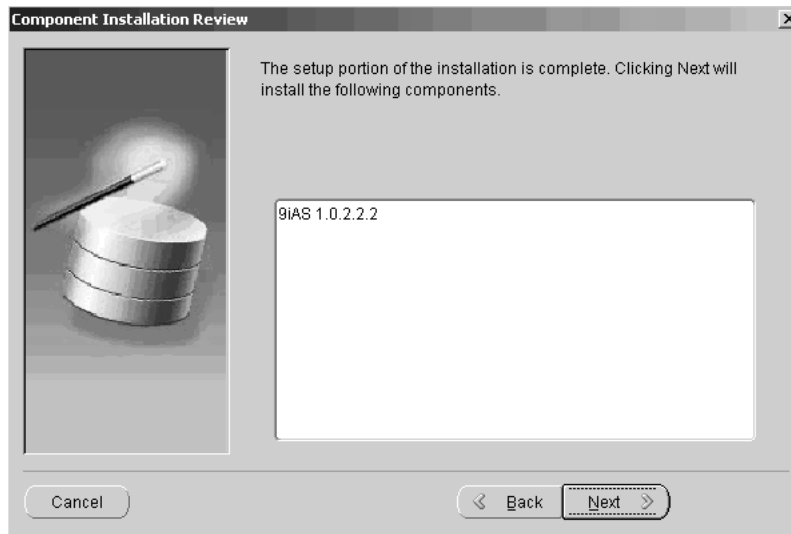
8.0.6 ORACLE_HOME: type the directory path to the location for the new 8.0.6 Oracle home.

iAS ORACLE_HOME: type the directory path to the location for the new 9iAS Oracle home.

Click Next to continue.

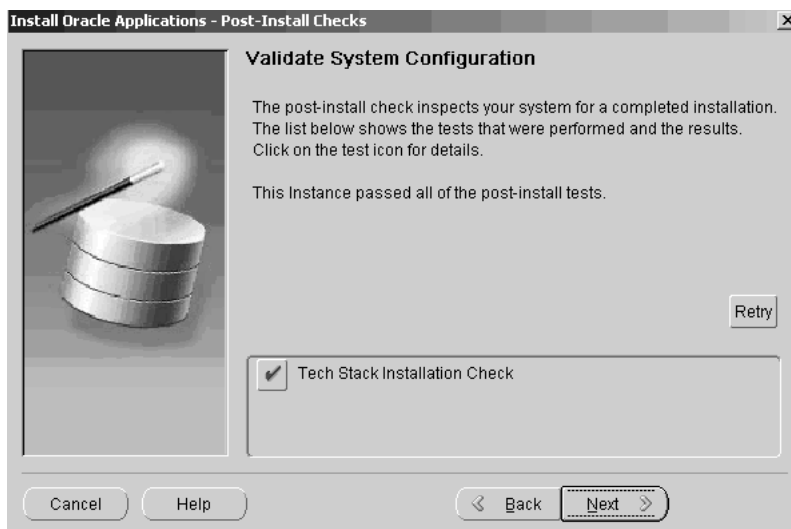
Step 5 Start the installation

The Component Installation Review screen lists the components that the wizard will install.



If this information is correct, click Next to start the installation. The wizard prompts you to begin. Click Yes to continue. Rapid Install begins the installation and displays a progress bar to inform you of the status.

Once the components are installed, Rapid Install displays the Post-Install Checks screen.



This screen verifies that the configuration is correct. Click Next to continue. The Finish screen displays the components installed. Click Finish to end the Rapid Install session.

Step 6 Complete the post-install steps

After the installation is complete, complete the remaining application tier installation steps. They may include applying patches, manually updating other context file parameters, and so on. Return to the *Installing Oracle9i Application Server 1.0.2.2.2 with Oracle Applications* document on *OracleMetaLink* (Doc ID: 146468.1) and follow the instructions.

Finishing Tasks

Certain tasks are necessary to finish a new installation, an upgrade, or a technology stack installation for Oracle Applications Release 11*i*. There are also other tasks that may be required only for systems with specific functionality. This chapter discusses required and conditional tasks, and contains the following topics:

- Required Tasks for All New Installations
- Conditional Tasks for New Installations
- Backing Up Oracle Applications

Required Tasks for All New Installations

The tasks in this section are required to complete the installation process started by running Rapid Install. You must complete *every* task in this section.

Update PL/SQL Log and Out Directory

The temporary directory on your database server for log and output files from PL/SQL concurrent programs is set to /usr/tmp by default. This value is listed in the utl_file_dir parameter in the init.ora file and assigned to the APPLPTMP environment variable. This directory should be in a secure location on the database server node with read and write access for the owner of the database server. It must be accessible from all tiers.

Once you have chosen the new directory, enter it as the value for utl_file_dir in init.ora for your database. Then, use the Edit Parameters feature of OAM AutoConfig to update the APPLPTMP variable in the Applications context file with the directory location that you entered for utl_file_dir. Run the AutoConfig script (adautocfg.sh) to recreate the environment files.

Additional Information: See Modifying Configuration Parameters in *Oracle Applications Maintenance Procedures*. See also AutoConfig in *Oracle Applications Maintenance Utilities*.

Configure Database Initialization Parameters

The current init.ora settings allow for a total of 100 connections. However, after the standard setup is complete, only a few users can be connected because of the connections used by the concurrent managers, AQ workers, job queues, and so on. You can find a complete list of the initialization parameters in the Oracle *MetaLink* document *Database Initialization Parameters for Oracle Applications 11i* (Doc ID: 216205.1). See also AutoConfig in *Oracle Applications Maintenance Utilities*.

Implement Product and Country-specific Functionality

Depending on which products or country-specific functionality you plan to use in your installation, you may need to perform additional tasks or apply additional patches. Refer to the individual product or country-specific implementation manuals, user's guides, or *OracleMetaLink* for details.

Change Passwords

The default passwords for the SYS account and SYSTEM account of the Oracle Applications database are *change_on_install* and *manager*, respectively. To maintain database security and restrict access to these accounts, change these passwords. The password for both SYS and SYSTEM in the Vision Demo is *manager*.

Additional Information: See Managing User Privileges and Roles in the Oracle9i documentation set.

You should also change the default passwords for the Applications product accounts of the production and test databases.

Additional Information: See Applications DBA Duties in *Oracle Applications System Administrator's Guide - Configuration*.

Review Security Practices

Review the recommended security processes documented in *Best Practices for Securing Oracle E-Business Suite - v2.1* on *OracleMetaLink*. In particular, if you have any computers requiring direct access to the E-Business Suite database that are not registered nodes in AutoConfig (such as OAM clients), you must explicitly grant access as documented in sections 2.15 and 2.16.

Log On to Oracle Applications

You log in to Oracle Applications using a client web browser. There are two ways to log on: from the Applications Login page URL and from the Rapid Install Portal.

Oracle Applications Login page

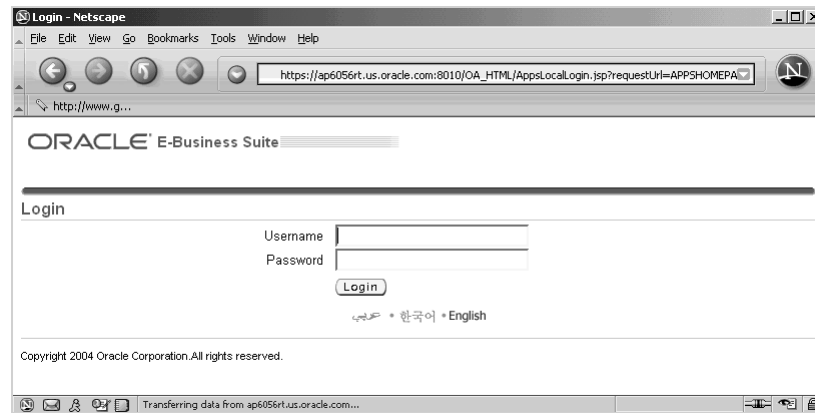
From the Oracle Applications Login page, you can access the E-Business Suite Home Page, which provides a single point of access to HTML-based applications, forms-based applications, and Business Intelligence applications. You access the Oracle Applications Login page from the following URL:

`http://<host name>.<domain name>:<HTTP port>/oa_servlets/AppsLogin`

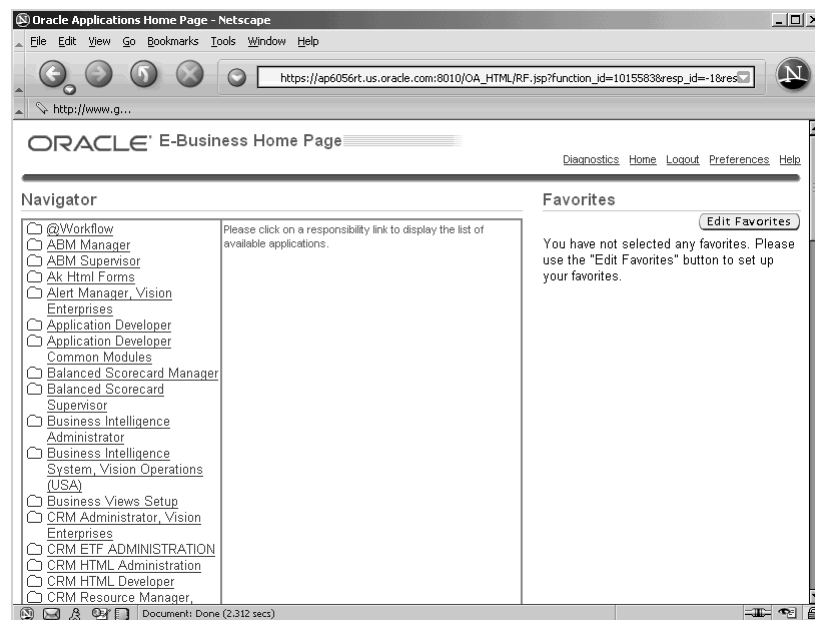
For example:

`http://oraapps1.oracle.com:8000/oa_servlets/AppsLogin`

Once connected, the Applications Login page appears. Type your Username and Password.



The E-Business Suite Home Page appears. Use this page to access responsibilities for any of the individual Oracle Applications products that you have licensed.



The system administrator should log in the first time using the sysadmin login account that is pre-configured in the Applications installation. Use the System Administrator responsibility to launch an Applications Forms session where the system administrator can complete the implementation steps.

Additional Information: See *Oracle Applications System Administrator's Guide - Security*.

Using the Rapid Install Portal

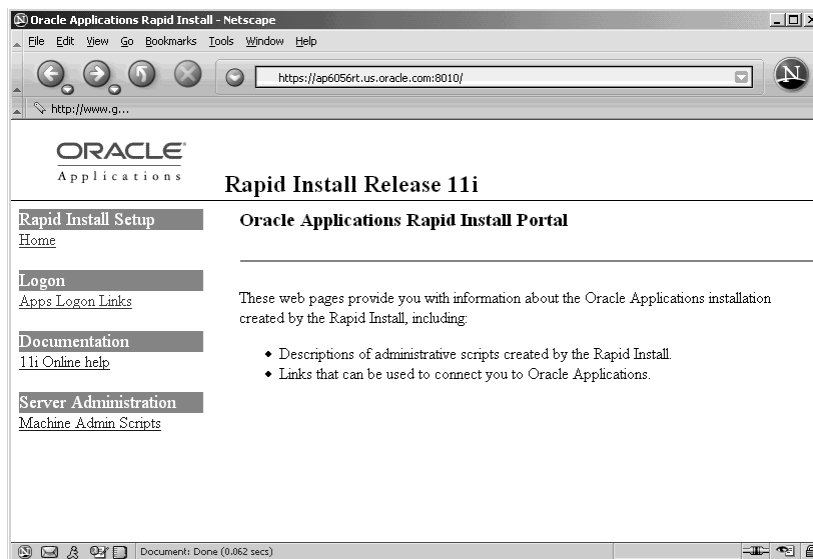
The Rapid Install Portal is a web site created automatically during installation. You can access it with a standard browser using the following URL:

`http://<SERVER>.<domain>:<http port>`

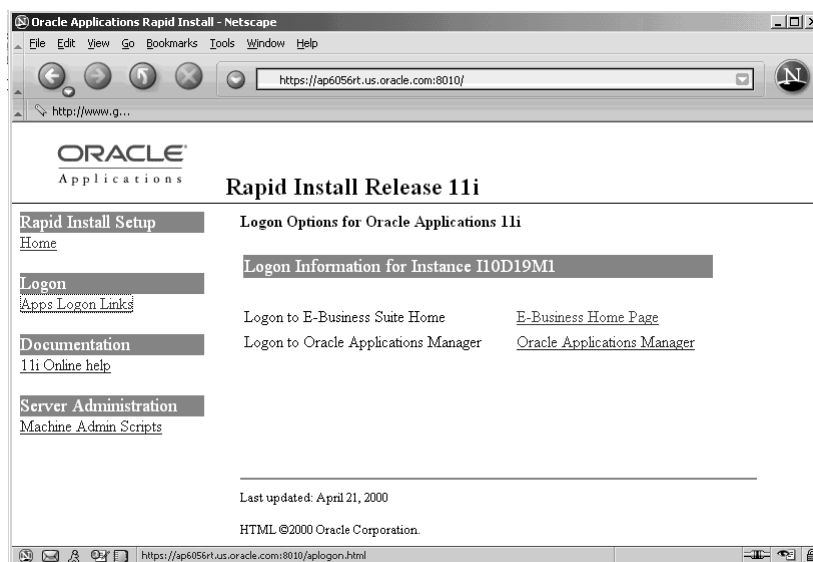
For example, if you configured Rapid Install to install the HTTP server using port 7777 on a node named R11WEB in the domain MYCOMPANY.COM, you would use the following URL to connect to the Rapid Install Portal:

`http://R11WEB.MYCOMPANY.COM:7777`

Once connected, the Rapid Install Portal web page appears.



It provides links to Applications logon pages, online help for using Oracle Applications, and a list of installed scripts and their location. For example, click the Apps Logon Links under the Logon section to see the Release 11i Logon Options page.



From this page, you can access the Oracle E-Business Suite Home page or the Oracle Applications Manager (OAM) login page.

Configure Client Software to Use the Forms Applet

The connection between the client and the E-Business Suite forms is provided through an applet in the client Web browser. The forms client applet supports all Oracle Applications forms-based products, and is packaged as a collection of Java archive (JAR) files. In order to use forms in Oracle Applications, the forms client applet must run within a Java Virtual Machine (JVM) on the client PC. Instead of using the browser's own JVM, Oracle Applications uses the Oracle JInitiator component to enhance the performance of the applications and provide stability.

Additional Information: See The Desktop Client in *Oracle Applications Concepts*. See also *Complete Guide to JInitiator for Oracle's E-Business Suite: Overview, Setup & Troubleshooting* (OracleMetaLink Doc ID: 162488.1).

Download the JInitiator executable

Start from the Oracle Applications signon screen and enter your username and password. The Oracle Applications E-Business Suite Home page appears. Select a responsibility, and then choose an Oracle Forms-based function. Follow the instructions for the type of browser you are using — JInitiator is implemented as a plug-in for Netscape, and as an ActiveX component for Microsoft Internet Explorer.

For Netscape users:

A new window appears with a plug-in (a piece of a puzzle). Click the icon and answer Yes to the prompt for “trusting” Oracle. The Plug-in not Loaded window appears. Click the Get the Plug-in button.

1. In the Save As dialog box, indicate where you want to download the JInitiator executable (oajinit.exe). This behavior may vary if you have set up Netscape to use a download method other than the default, such as SmartDownload, or if you have certain antivirus software installed.
2. Save oajinit.exe to any location on the client (such as the temp directory).
3. Exit from all web browser sessions. Use the Windows Explorer to navigate to the location where you downloaded oajinit.exe. Double-click the executable.
4. InstallShield runs to install Oracle JInitiator. When prompted, click Yes and follow the instructions. (You can use the default location for installing Oracle JInitiator.)

For Microsoft Internet Explorer users:

According to the security settings of your browser, JInitiator may begin downloading automatically, or a Security Warning window may appear, prompting you to install Oracle JInitiator. If the Security Warning window appears, click Yes.

1. InstallShield runs to install Oracle JInitiator. When prompted, click Yes and follow the instructions. (You can use the default location for installing Oracle JInitiator)
2. After the installation is complete, exit from all web browser sessions to allow Microsoft Internet Explorer to load the Oracle Applications certificate that is needed for proper operation of Oracle Applications.

Set Up Printers

To register printers in the Printers form of Oracle Applications, the system administrator must know each printer's operating system name. To determine the names, do the following:

UNIX:

At the command prompt, type this command:

```
$ lpstat -p
```

Windows:

Click the Printers icon in the Start menu.

Enabling Printers on Windows-based Systems

The concurrent manager starts by default under the internal SYSTEM account. This account does not have access to network printing devices. To run reports using the concurrent manager, complete the following steps:

1. Log in to a user account that has administrative privileges.
2. From the Services menu, highlight the Concurrent Manager service (OracleConcMGR<SID>), where <SID> is the database SID, and click Startup. In the Log in As section, select This Account and enter the username and password used to start the concurrent manager. Click OK.
3. Repeat the actions in Step 2 for the TNS Listener service (<SID>Ora806TNSListener80APPS_<SID>).
4. Define a printer.
Use the Add Printer option to define a printer for the user account used in Step 2.
5. Reboot the system so that the changes take effect.

Additional Information: For more information about setting up printers, see the *Oracle Applications System Administrator's Guide - Configuration*.

Conditional Tasks for New Installations

The tasks in this section are conditional — you must perform them if any of these features or procedures apply to your newly installed Oracle Applications system.

Configure Multiple Servers to Use JInitiator

During the installation, Rapid Install created several files associated with the JInitiator. If you have added additional Web (HTTP) servers, you need to copy the following files to each additional server using a utility such as FTP:

- APPL_TOP/admin/adsign.txt
- APPL_TOP/admin/adkeystore.dat
- APPL_TOP/admin/appltop.cer

Resize the Database

You need to increase the size of your production database. The increase will depend on the products you have licensed and the additional features (such as multiple languages or multiple organizations) you configure in your installation.

Set Up National Language Support (NLS)

If you will use languages other than American English in your installation, read the information in the *Oracle Applications NLS Release Notes*, and complete the necessary steps for installing the translated software.

Caution: You must complete the tasks in the *Oracle Applications NLS Release Notes* before using your Applications products in a language other than American English.

The supported languages and the associated language codes for Oracle Applications Release 11*i* are as follows:

Language	Language Code
Arabic	AR
Brazilian Portuguese	PTB
Canadian French	FRC
Croatian	HR
Czech	CS
Danish	DK
Dutch	NL
French	F
Finnish	SF
German	D
Greek	EL
Hebrew	IW
Hungarian	HU
Italian	I
Japanese	JA
Korean	KO
Latin American Spanish	ESA
Norwegian	N
Polish	PL
Portuguese	PT
Romanian	RO
Russian	RU
Simplified Chinese	ZHS
Slovak	SK
Spanish	E
Swedish	S
Thai	TH
Traditional Chinese	ZHT
Turkish	TR

Set Up UTF8 Character Set

Regardless of the languages installed, you must complete the following additional steps if you use the UTF8 character set.

For UNIX users:

Complete the following tasks:

- Modify Tk2Motif.rgb in your 8.0.6 ORACLE_HOME. For all Tk2Motif.rgb files located at \$ORACLE_HOME/guicommon6/tk60/admin and \$ORACLE_HOME/guicommon6/tk60/admin/<LangCode>, open the file using any text editor and find the following line:

```
!Tk2Motif*fontMapCs: iso8859-2=EE8ISO8859P2
```

Change it to look like this:

```
Tk2Motif*fontMapCs: iso8859-1=UTF8
```

Make sure you remove the “!” character to uncomment the line.

- Use the PASTA utility (FNDPSTAX) for printing.

For Windows users:

Complete the following tasks:

- For each active language, make a backup copy of fmrweb<LangCode>.res and replace it with the corresponding UTF8 version (fmrweb<LangCode>_utf8.res). For example, under the 8.0.6 ORACLE_HOME, type:

```
C:\> cd %ORACLE_HOME%\FORMS60
C:\> rename fmrweb<LangCode>.res fmrweb<LangCode>.res.bak
C:\> copy fmrweb<LangCode>_utf8.res fmrweb<LangCode>.res
```

This step is not required for American English because the default fmrweb.res file, which contains the English language information, is valid for UTF8 and all other character sets.

- Use the PASTA utility (FNDPSTAX) for printing.

Additional Information: See *Printers in Oracle Applications System Administrator's Guide - Configuration*.

Configure the Oracle Workflow Java-based Notification Mailer

If you plan to use the Oracle Workflow java-based Notifications Mailer, you must complete additional setup and implementation steps. See *Configuring the Oracle Workflow 2.6/OWF.H Java-based Notification Mailer with Oracle Applications 11i* on *OracleMetaLink* (Document ID: 268085.1) for complete information.

Set Up and Implement Oracle Embedded Data Warehouse (EDW)

If you have licensed Oracle Embedded Data Warehouse (EDW), you must complete additional setup and implementation steps before using this product. Refer to *About Oracle E-Business Intelligence Embedded Data Warehouse Patchset D, 11iEDW.D* on *OracleMetaLink* (Document ID: 258899.1) for complete information.

Set Up and Implement Discoverer End User Layer (EUL)

To set up and implement the Discoverer End User Layer, follow the instructions documented in *Using Discoverer 10g with Oracle Applications 11i* on *OracleMetaLink* (Document ID: 257798.1) for more information.

Set Up Demand Planning

To set up and begin using Demand Planning, you must perform the implementation tasks outlined in the *Oracle Demand Planning Installation and Configuration Guide*.

Convert to a Public Sector, Education, or Non-for-Profit System

Rapid Install sets up products for commercial or for-profit use. To convert your system to use public sector, education, or not-for-profit products, you must run AutoUpgrade. Follow the instructions in "Identify Organization Type," in Chapter 2 of *Oracle Applications Maintenance Utilities*.

Convert Database to Multiple Organizations (Multi-Org)

The Rapid Install Vision Demo database is enabled for Multi-Org. However, the production and test databases are not. If you want Multi-Org architecture in the production or test environments, refer to the instructions for converting to Multi-Org in *Oracle Applications Maintenance Procedures*.

Additional Information: See *Multiple Organizations in Oracle Applications* and Multiple Organization (Multi-Org) Architecture in *Oracle Applications Concepts*.

Understand System Administration Tasks

You should be completely familiar with the information in the *Oracle Applications System Administrator's Guide*. This 3-volume set contains important information about Oracle Applications.

Understand Oracle Applications Maintenance Tasks

You should be completely familiar with the information in both volumes of the *Maintaining Oracle Applications Documentation Set* (*Oracle Applications Maintenance Utilities* and *Oracle Applications Maintenance Procedures*). Both books contain important details about administration utilities and maintenance tasks.

Backing Up Oracle Applications

Your operating system administrator should back up the Oracle Applications product files, including COMMON_TOP, 8.0.6 technology components, and the iAS technology components. Your database administrator should back up the Oracle Applications database and database home components.

Configuration Details

This appendix contains lists of the fields found on the screens in the Rapid Install wizard. It pays special attention to the configuration values that are not visible in the sample screen shots. It also discusses additional system requirements. It consists of these topics:

- Rapid Install Configuration Parameters
- Requirements for a New Production Database
- Vision Demonstration Database Requirements

Rapid Install Configuration Parameters

This section lists and defines configuration parameters on the Database Install Information screen, the node-specific configuration information screens, and the Global Settings screen in the Rapid Install wizard. Rapid Install uses these values during an installation or upgrade to set up and configure your system.

Additional Information: See Applications File System in *Oracle Applications Concepts* for more information about the directories and subdirectories discussed in this section.

Database Parameters

This section lists and describes the values you enter on the Database Install Information screen in the Rapid Install wizard. Rapid Install uses this information to set up the top-level directory and the subdirectories (mount points) on the node where you install the RDBMS. See "Set up database installation directory" in Chapter 2 for an example of this screen.

Table A-1 Database Install Information

Input Field Name	Definition
Oracle OS User (UNIX)	Operating system user that owns the Oracle application tier and database tier technology stack.
Oracle OS Group (UNIX)	The Oracle OS User must belong to this group.
Base Install directory	The top-level directory that Rapid Install uses to install the RDBMS. All subdirectories (mount points) associated with the RDBMS are derived from this directory.
Oracle Home	The location of the 9.2.0 ORACLE_HOME (database home), which contains files for running and maintaining the RDBMS.
Data Top (SYS)	Derived from the Base Install directory, this is the mount point for all database system files.

Table A–1 (Cont.) Database Install Information

Input Field Name	Definition
Data Top (LOG)	Derived from the Base Install directory, this is the mount point for all database log files.
Data Top (TXN)	Derived from the Base Install directory, this is the mount point for all transaction data and index files.
Data Top (ARCHIVE)	Derived from the Base Install directory, this is the mount point for all archive, media, advanced queue, summary, and undo files.

Note: The tablespace model for this release has changed. See Tablespace Management in *Oracle Applications Concepts* for details.

Node-specific Parameters

This section lists and describes the fields on the node-specific screens in the Rapid Install wizard. All servers in a single-node system are installed on the same node. You enter configuration information for this node on the Admin Server/Concurrent Mgr/Forms Server/Web Server screen. See "Enter node-specific information" in Chapter 2 for an example of this type of screen.

In a multi-node system, there is a separate screen for each node. The screen names are based on the names you assign on the Node Information screen. See "Enter node-specific information for "Install" nodes" in Chapter 3 for an example of this type of screen.

Table A–2 Node-specific Configuration Information

Input Field Name	Definition
X DISPLAY (UNIX)	Used by the forms server, Web server, and the concurrent processing server (including the reports server), this display must always be accessible during runtime. Set it to an active and authorized X Windows display, pointing to a machine that is always available to the instance.
MKS Directory (Windows)	Location of MKS tools. Used for relinking executables or .DLLs.
MSDEV Directory (Windows)	Location of the Visual C/C++ executables and .DLL files. Used for linking executables or .DLLs.
Apps OS User (UNIX)	Operating system user that owns the application tier file system and technology stack.
Apps OS Group (UNIX)	The group the Apps OS User's belongs to.
Base Install directory	The top-level directory that Rapid Install uses to install the forms, Web, and concurrent processing servers, including the core AD technologies (the administration server). All subdirectories associated with these servers are derived from this directory.
APPL_TOP Mount Point	The first APPL_TOP mount point directory, and the auxiliary mount point directories used to distribute APPL_TOP among multiple directories or partitions.
APPL_TOP aux 1 APPL_TOP aux 2 APPL_TOP aux 3	If you plan to install the entire file system on one mount point or disk, all APPL_TOP auxiliary directories should have the same mount point or disk name. In this case, the APPL_TOP disk space requirements are 12 – 14 GB, depending on your platform.

Table A–2 (Cont.) Node-specific Configuration Information

Input Field Name	Definition
COMMON_TOP	<p>Holds directories for files used across products or in conjunction with third-party products. It contains the following subdirectories:</p> <ul style="list-style-type: none"> ■ admin - contains several subdirectories used for concurrent manager log and out directories, scripts used during installation, and scripts used for daily maintenance of the instance. ■ html - contains files used by html-based products such as JSP files, java scripts, xml files, and style sheets. ■ java - location of all JAR files. Also holds 3rd-party Java files and other zip files. ■ portal - contains Rapid Install Portal files. The Rapid Install Portal is a web page that provides access to post-installation tasks, Server Administration scripts, installation documentation, and online help. ■ temp - used for caching by certain processes such as Oracle Reports. ■ util - contains 3rd-party utilities such as JDK, JRE, and UnZip.
8.0.6 ORACLE_HOME	The ORACLE_HOME directory for the Developer 6i products (Forms, Reports, and Graphics). Installed on node(s) that contain the forms server, the Web server, and the concurrent processing server. The Applications file system is linked to this 8.0.6 ORACLE_HOME.
iAS ORACLE_HOME	The ORACLE_HOME directory for the Oracle Application Server (iAS). Installed on node(s) that contain the forms server, the Web server, and the concurrent processing server.
Temp Directory	Contains temporary files. This directory is not used during installation.

Global System Settings

This section lists and describes the fields on the Global Settings screen in the Rapid Install wizard. Rapid Install uses them to identify the qualified domain name and derive port settings that your system will use to connect all services and listeners. See "Review global settings" in Chapter 2 for an example of the screen.

Table A–3 Global Settings Information

Input Field Name	Definition
Domain Name	A <i>valid</i> domain name used when configuring Oracle Applications for the network. You must enter a domain name that, when combined with a host name, produces a fully qualified domain name (FQDN). For example, in the FQDN <myhost>.us.oracle.com, the domain name is us.oracle.com.
Port Pool	A list of increment settings that you can choose to make the pre-set port numbers unique. For example, choose 3 from the list to change port setting 1521 to 1524.
Database Port	Net Services Listener port that receives requests from the various servers for processing on the RDBMS.
RPC Port	The TCP/IP port on the node where you install the concurrent manager that receives incoming Report Review Agent requests.
Reports Port	TCP/IP port on the reports server (on the node where you install the concurrent manager) that receives incoming requests from browsers or other servers.
Web Listener Port	Port on the Web server that receives incoming requests from browsers or other servers.
OProcMgr Port	Port for process that monitors the Apache JVM state. Routes requests for the JVM.
Web PLSQL Port	HTML content from database is re-directed to the PL/SQL Apache listener. This is the port that receives the PL/SQL data.

Table A–3 (Cont.) Global Settings Information

Input Field Name	Definition
Servlet Port	Port on the Web server that browsers connect to when invoking Java servlets.
Forms Listener Port	TCP/IP port on the forms server that receives incoming requests from browsers or other servers.
Metrics Server Data Port	TCP/IP port on which the Metrics Server receives load data from Metrics Clients running on other machines.
Metrics Server Req. Port	TCP/IP port on which the Metrics Server receives the “least-loaded host” requests from Forms clients.
Map Viewer Servlet Port	Dedicated TCP/IP servlet port on the Web server that receives requests for the Map Viewer.
OEM Web Utility Port	Dedicated TCP/IP port on the Web server that receives requests for the Oracle Enterprise Manager.
VisiBroker OrbServer Agent Port	Dedicated TCP/IP port on the HTTP server that received requests for the VisiBroker OrbServer agent, used by Oracle Discoverer.
MSCA Server Port	Port used by the MSCA server.
MSCA Dispatcher Port	Port used by the MSCA Dispatcher.
Java Object Cache Port	Port used for the Java Object Cache.
OACORE Servlet Port Range	Range of ports used by the OACORE servlets (for the Self-Service framework).
Discoverer Servlet Port Range	Range of ports used by the Discoverer servlets.
Forms Servlet Port Range	Range of ports used for the Forms Servlet JServ processes.
XMLSVCS Servlet Port Range	Range of ports used by the XML service.

Log Files

Rapid Install saves the log files associated with the installation or upgrade. They are located in the following directories:

Database tier log files

Stored in the `ORACLE_HOME/appsutil/log/<CONTEXT_NAME>` directory on the node where you installed the RDBMS.

Application tier log files

Stored in the `APPL_TOP/admin/<CONTEXT_NAME>/log` directory on the node where the AD core technologies are located (the administration node).

Requirements for a New Production Database

The fresh database installed by Rapid Install is Oracle9i (9.2.0.5). It can be used for any purpose for example for a production system or a test system). It is minimally sized with 100% sizing factor. The default character set is US7ASCII, and the default database block size is 8192 bytes.

Note: The database tier technology stack installed for Windows by Rapid Install is 9.2.0.5.3 (9.2.0 Oracle home).

All Oracle Applications Release 11i base products are fully installed, but only basic technology products are automatically registered as being licensed and active. You register all the products in your Oracle licensing agreement using the Rapid Install wizard. During the process of entering initial configuration values on the wizard screens, you can change the character set, and Rapid Install will convert your database accordingly. The init.ora file for the database is in the /dbs directory of your ORACLE_HOME and is named init<SID>.ora.

The database has system tablespace, rollback segment tablespace, and temp tablespaces. It follows the Oracle Applications Tablespace Model (OATM). This newly streamlined model consists of twelve, locally managed tablespaces and is based on the objects' Input/Output characteristics. OATM also provides support for implementing RAC on Linux.

Additional Information: See *Oracle Applications Tablespace Model Release 11i – Tablespace Migration Utility* in OracleMetaLink (Doc ID: 248857.1).

Table A–4 Production database size (OATM)

Tablespace	Description	Size (MB)
APPS_TS_ARCHIVE	Tables that contain archived purge-related data.	800
APPS_TS_INTERFACE	Interface and temporary data and indexes.	900
APPS_TS_MEDIA	Multimedia objects, such as text, video, sound, graphics, and spatial data.	1200
APPS_TS_NOLOGGING	Materialized views not used for summary management and temporary objects.	60
APPS_TS_QUEUES	Advanced Queuing and dependent tables and indexes.	1000
APPS_TS_SEED	Reference and setup data and indexes.	2500
APPS_TS_SUMMARY	Summary management objects, such as materialized views, fact tables, and other objects that record summary information.	1000
APPS_TS_TX_DATA	Tables that contain transactional data.	3000
APPS_TS_TX_IDX	Indexes on transaction tables.	4500
APPS_UNDOTS1	Automatic Undo Management (AUM) tablespace. UNDO segments are same as ROLLBACK segments when AUM is enabled.	2000
SYSTEM	System tablespace used by the Oracle database.	10000
CTXD	Oracle interMedia	20
PORTAL	Single Sign-on SDK	100
ODM	Oracle Data Mining	100
OLAP	OLAP	100
OWAPUB	Oracle iAS	10
TEMP	Temporary tablespace	1100

Vision Demonstration Database Requirements

The Vision Demonstration database provides a sample set of transaction data for a fictitious company (Vision Corporation). It uses most Oracle Applications products and is configured for multi-node systems. It is installed with the UTF8 (universal) character set to maximize the number of supported languages.

The init.ora file for the database is in the ORACLE_HOME/dbs directory and is named init<SID>.ora. The sizes shown in the table are approximate, and may vary according to platform.

Table A–5 Vision Demonstration database size (OATM)

Tablespace	Description	Size (MB)
APPS_TS_ARCHIVE	Tables that contain archived purge-related data.	2000
APPS_TS_INTERFACE	Interface and temporary data and indexes.	1500
APPS_TS_MEDIA	Multimedia objects, such as text, video, sound, graphics, and spatial data.	4000
APPS_TS_NOLOGGING	Materialized views not used for summary management and temporary objects.	125
APPS_TS_QUEUES	Advanced Queuing and dependent tables and indexes.	1000
APPS_TS_SEED	Reference and setup data and indexes.	2500
APPS_TS_SUMMARY	Summary management objects, such as materialized views, fact tables, and other objects that record summary information.	6500
APPS_TS_TX_DATA	Tables that contain transactional data.	12500
APPS_TS_TX_IDX	Indexes on transaction tables.	14600
APPS_UNDOTS1	Automatic Undo Management (AUM) tablespace. UNDO segments are identical to ROLLBACK segments when AUM is enabled.	4000
SYSTEM	System tablespace used by the Oracle database.	10000
CTXSYS	Oracle interMedia	30
PORTAL	Single Sign-on SDK	100
ODM	Oracle Data Mining	100
OLAP	OLAP	100
OWAPUB	Oracle iAS	10
SYNCSERVER	Mobile Server	150
TEMP	Temporary tablespace	2000

Vision Demo uses the Multi-Org feature. The following table shows the operating units in the database. Responsibilities connect to one of these operating units.

Table A–6 Vision Demo operating units

Operating Unit	Username/Password
Vision Operations	APPS/APPS
Vision Corporation	APPS/APPS
Vision Industries	APPS/APPS
APPS/APPS Vision Services	APPS/APPS
Vision Project Manufacturing	APPS/APPS
Vision ADB	APPS/APPS

Note: There are several schemas in the Vision Demo for other accounts used to demonstrate Oracle Applications integration with other products. These schemas are not documented here.

Many Applications users are predefined in the Vision Demo. The following username/password pairs have System Administrator responsibility:

- SYSADMIN/SYSADMIN
- MFG/WELCOME
- OPERATIONS/WELCOME
- SERVICES/WELCOME
- MRC/WELCOME
- HRMS/WELCOME

Numerics

8.0.6 ORACLE_HOME

definition of, A-3

A

accessibility

goal of, ix
of Web sites, ix

active flag

description of, 2-8, 3-11
setting, 1-12

adautocfg.sh

running, 6-1

adautostg.pl

running, 1-9

additional nodes

setting up, 3-32
setting up for upgrade, 4-17

add-on products

installing, 2-9, 3-11

adkeystore.dat, 6-6

adsign.txt, 6-6

Advanced Edit screen

using, 2-7, 2-14, 2-16, 3-9, 3-17, 3-20, 4-8, 4-11,
4-12

alias

startup option for, 1-11

APPL_TOP

character set, 2-13, 3-16
character set (upgrade), 4-10

APPL_TOP aux 1-3

definition of, A-2

Application Server Information screen

using, 3-30

application tier

definition of, 1-2
file size for, 1-6
technology stack, 1-4

Application Tier Mount Points screen

using, 2-15, 3-18

Applications Context file

editing, 6-1

Applications Tier Mount Points screen

using, 4-11

applmgr user

setting up, 1-7
setting up in Express install, 2-24

appltop.cer, 6-6

Apps OS Group

definition of, A-2

Apps OS User

definition of, A-2

AutoConfig

about, 1-1
for a techstack upgrade, 5-1
in an upgrade, 4-5

AutoConfig script

running, 6-1

AutoUpgrade

running, 4-18

B

backup

system, 6-9

base install directory

definition of, A-1

base language

choosing, 2-12, 3-15
choosing in an upgrade, 4-10

base node

designating, 3-7, 3-32

C

certification information

where to find, 1-4

character sets

compatible, 2-13, 3-16, 4-10
express installation, 1-2

client software

configuring, 6-4

COMMON_TOP

definition of, A-3

Component Applications

license model, 2-9, 3-11

Component Installation Review screen

using, 2-19, 3-23, 5-3

concurrent processing servers

multiple, 3-5, 3-30

- config.txt, 1-1, 2-16, 3-20
- configuration file
 - about, 2-3, 3-4
 - copy for multi-node install, 3-32
 - copy for upgrade, 4-17
 - populating, 1-1
 - saving, 2-16, 2-24, 3-20, 4-13
- configuration parameters
 - list of, A-1
- context file
 - creating, 1-1
 - description of, 2-17, 3-21
 - in an upgrade, 4-5, 4-14
 - locating in an upgrade, 4-19
- country-specific functionality
 - implementation steps, 6-2
 - selecting, 2-9, 3-12
- CPU
 - requirements, 1-5

D

- Data Top (ARCHIVE)
 - definition of, A-2
- Data Top (LOG)
 - definition of, A-2
- Data Top (SYS)
 - definition of, A-1
- Data Top (TXN)
 - definition of, A-2
- database
 - character set, 2-13, 3-16
 - character set (upgrade), 4-10
 - choosing for installation, 2-5, 3-8
 - in an upgrade, 4-3
 - parameters, A-1
 - resizing, 6-6
- database availability
 - validating, 2-21, 3-25
- Database Install Information screen
 - using, 2-5, 3-8, 4-8
- Database Port
 - definition of, A-3
- database tier
 - file system size, 1-6
 - technology stack, 1-4
 - upgrading techstack for, 5-1
- Database Type screen
 - using, 2-4, 3-7
 - using in an upgrade, 4-6
- DBC file
 - validating, 2-21, 3-25
- default territory
 - choosing, 2-12, 3-16
 - choosing in an upgrade, 4-10
- Define APPL_TOP Type screen
 - using, 3-18
- Define File System screen
 - using, 3-7, 3-32
- Demand Planning

Index-2

- setting up, 6-8
- Discoverer Servlet Port Range
 - definition of, A-4
- documentation library
 - contents, x
- Domain Name
 - definition of, A-3
- Domain user
 - in Windows installations, 1-8

E

- E-Business Suite
 - license model, 2-8, 3-11
- Embedded Data Warehouse
 - implementing, 6-8
- End User Layer
 - implementing, 6-8
- environment file
 - validating, 2-21, 3-25
- Express Configuration Information screen
 - using, 2-23
- express installation
 - description of, 1-2, 2-3, 3-3, 4-4
 - setting up, 2-22

F

- file space
 - validation, 2-18, 3-22, 4-14
- file system
 - creating, 1-1
 - creating for upgrade, 4-4
 - validation, 2-18, 3-22, 4-14
- Finish screen
 - using, 2-21, 3-25
- forms applet
 - using, 6-4
- Forms Listener Port
 - definition of, A-4
- forms servers
 - memory requirements, 1-5
 - multiple, 3-5, 3-30
- Forms Servlet Port Range
 - definition of, A-4
- fresh database
 - description of, 1-2, 2-5, 3-8, A-4

G

- Global Settings screen
 - using, 2-15, 3-19, 4-12
- global system settings
 - list of, A-3
- GUEST group
 - for Windows login accounts, 1-8

H

- host/domain
 - validation, 2-18, 3-22, 4-14

HTTP file
validating, 2-21, 3-25

I

IANA
character set, 2-14, 3-17
character set (upgrade), 4-10
iAS ORACLE_HOME
definition of, A-3
initialization parameters
about, 6-1
init.ora
location of, A-5
settings, 6-1
utl_file_dir parameter, 6-1
Install node
designating, 3-7, 3-32
Install Type screen
using, 2-4, 3-4, 3-28, 4-6
installation operation
choosing, 2-2, 3-2, 3-27

J

JAWS
about, ix
JDK
installing, 1-8
validation, 2-18, 3-22, 4-14
JInitiator
configuring for multiple servers, 6-6
downloading executable, 6-5
in MS Internet Explorer, 6-5
in Netscape, 6-5
JSP
validating, 2-21, 3-25

L

language files
disk space, 1-6
languages
in an upgrade, 4-9
installed in APPL_TOP, 2-11, 3-14
installing, 2-10, 3-13
software translations for, 2-11, 3-14, 4-9, 6-6
supported, 6-7
license type
selecting, 2-7, 3-10
licensing agreements
setting up, 2-8, 3-10
Licensing Page
using for Component Applications, 2-9, 3-11
using for E-Business Suite, 2-8, 3-11
load balancing
definition of, 1-3, 3-26
Load Balancing screen
using, 3-4, 3-29
Load Configuration screen
using, 2-3, 3-3, 3-28, 4-5

using for additional nodes, 3-32, 4-17
using to restart, 2-20, 3-24, 4-17
local user
in Windows installations, 1-8
log directory
updating for PL/SQL, 6-1
log files
application tier, A-4
database tier, A-4
disk space, 1-6
location of, A-4
purging, 1-6
login accounts
creating, 1-7

M

maintenance tasks
importance of, 6-9
Map Viewer Servlet Port
definition of, A-4
memory requirements
forms server, 1-5
RDBMS, 1-5
Metrics Server Data Port
definition of, A-4
Metrics Server Req. Port
definition of, A-4
MKS Directory
definition of, A-2
mount points
application tier, 2-14, 3-17, 4-10
database tier, 2-6, 3-9, 4-8
description of, 1-12
express installation, 1-2, 2-3, 2-22, 2-23, 3-3, 4-4
MSCA Dispatcher Port
definition of, A-4
MSCA Server Port
definition of, A-4
MSDEV Directory
definition of, A-2
multi-node installation
description of, 1-2, 2-4, 3-1, 3-4
first node, 3-1
in an upgrade, 4-6, 4-17
setting up additional nodes, 3-32
use existing config.txt, 3-32
Multi-Org
converting database to, 6-9
in Vision Demo, A-6
multi-user installations
creating accounts for, 1-7

N

new installation
description of, 1-2, 2-2, 3-3, 4-3
new technology stack
startup option for, 1-11
NLS

- requirements, 1-1
- setting in an upgrade, 4-10
- settings, 1-12, 2-12, 3-15
- supported languages, 6-7
- Node Information screen
 - for multi-node systems, 3-5, 3-30
- node-specific parameters screen
 - for a single-node system, 2-14
 - for multi-node system, 3-17
 - in an upgrade, 4-10

O

- OACORE Serlet Port Range
 - definition of, A-4
- OAM License Manager
 - using, 2-9, 3-12
 - using in an upgrade, 4-9
- OEM Web Utility Port
 - definition of, A-4
- online education
 - about, xi
- operating system
 - validation, 2-18, 3-22
- OProcMgr Port
 - definition of, A-3
- Oracle Applications Login page
 - using, 6-2
- Oracle Home
 - definition of, A-1
- Oracle Learning Network
 - about, xi
- Oracle OS Group
 - description of, 2-6, 3-9
- Oracle OS User account
 - description of, 2-6, 3-9
- Oracle Store
 - URL, x
- Oracle Support Services
 - contacting, xi
- oracle user
 - setting up, 1-7, 2-24
- OS patches
 - validation, 2-18, 3-22
- OS User and Group
 - validation, 2-18, 3-22
- other files
 - disk space, 1-7
- otn.oracle.com
 - using, x
- out directory
 - updating for PL/SQL, 6-1
- output files
 - disk space, 1-6
 - purging, 1-6

P

- passwords
 - changing upgrade defaults, 4-7

- for system upgrade, 4-7, 4-19
- in Vision Demo, A-7
- system security, 6-2
- PASTA utility
 - using in NLS, 6-8
- patches
 - disk space, 1-7
- PHP
 - validating, 2-21, 3-25
- port availability
 - validation, 2-18, 3-22
- Port Pool
 - definition of, A-3
- port uniqueness
 - validation, 2-18, 3-22, 4-14
- Port Values screen
 - using, 2-16, 3-20, 4-12
- ports
 - setting increments for, 2-15, 3-19, 4-12
 - setting values, 2-15, 3-19, 4-12
- Post-install Checks screen
 - using, 2-21, 3-25
 - using in a techstack upgrade, 5-3
 - using in an upgrade, 4-16
- Pre-install Checks screen
 - using, 2-18, 2-24, 3-22, 3-33
 - using in an upgrade, 4-14
- printers
 - enabling for Windows, 6-6
 - setting up, 6-5
- products
 - registering, 1-1, 1-12, 2-7, 3-10
 - shared and dependent, 2-8
- progress bars
 - description of, 2-19, 3-23, 4-16
- Public Sector, Education, or Non-Profit
 - converting to, 6-9

R

- Rapid Install Portal
 - using, 6-3
- RDBMS
 - memory requirements, 1-5
- RDBMS Inputs page
 - using, 5-2
- Reports Port
 - definition of, A-3
- restarting
 - an installation, 2-20, 3-24
 - command line option, 1-11
 - in an upgrade, 4-16
- Review Application User Information screen
 - using, 4-7
- RPC Port
 - definition of, A-3

S

- Save Instance-specific Configuration screen

- using, 2-16, 2-24, 3-20
 - using in an upgrade, 4-13
- security practices
 - reviewing, 6-2
- Select Additional Languages screen
 - using, 2-10, 3-13
 - using in an upgrade, 4-9
- Select Country-specific Functionalities screen
 - using, 2-9, 3-12
- Select Internationalization Settings screen
 - using, 2-12, 3-15
 - using in an upgrade, 4-9
- Select Techstack screen
 - using, 5-1
- Select Upgrade Action screen
 - using, 4-4
- Select Wizard Operation screen
 - using, 2-2, 2-22, 3-2, 3-27, 4-3
 - using in an upgrade, 4-18
- server processes
 - configuring in an upgrade, 4-18
 - stop and start scripts, 1-1
- Servlet Port
 - definition of, A-4
- shared APPL_TOP
 - default configuration, 3-6, 3-31
 - definition of, 1-3
 - enabling, 3-6, 3-31
- Shared Existing node
 - designating, 3-7, 3-32
- single-node installation
 - description of, 1-2, 2-1, 2-4, 3-4
- single-user installations
 - creating accounts for, 1-7
- sizing
 - suggestions, 1-5
- software bundle
 - contents, 1-8
 - translated software, 1-9
- software requirements
 - all platforms, 1-4
- stage area
 - creating, 1-8
 - directory structure, 1-10
 - disk space for, 1-6
- Start Here disk
 - using, xi
- startup options
 - Rapid Install, 1-10
 - specialized, 1-11
- Suite Selection screen
 - using, 2-7, 3-10
- SYS account password
 - defaults for, 6-2
- SYSTEM account password
 - defaults for, 6-2
- system administration tasks
 - importance of, 6-9
- system utilities
 - validation, 2-18, 3-22, 4-14

T

- tablespace models
 - about, A-5
- technology stack
 - installing, 1-4
 - required components, 1-4
 - reviewing components, 2-2, 3-2, 4-3
 - upgrading, 5-1
- Temp Directory
 - definition of, A-3
- temporary directories
 - disk space, 1-6
- temporary files
 - disk space, 1-6
- Tk2Motif.rgb, 6-8
- top-level directory
 - application tier, 2-14, 3-17, 4-8
 - description of, 1-12
 - RDBMS, 2-6, 3-9, 4-10
- training
 - about, xi
- translated software
 - availability of, 2-11, 3-14, 4-9
- typographic conventions
 - about, xii

U

- upgrade operations
 - choosing, 2-2, 3-2, 4-3
- upgraded installation
 - description of, 1-3, 2-3, 3-3, 4-4
- upgrades
 - applying patches, 4-2, 4-18
 - configuring server processes, 4-18
 - configuring servers, 4-5
 - creating file system in, 4-2
 - identifying database, 4-7
 - migrating the RDBMS, 4-2
 - Oracle home, 4-3
- user accounts
 - for Windows installations, 1-8
- UTF8 character set
 - in Vision Demo, A-5
 - set up for fresh install, 6-7
- utl_file_dir parameter
 - location of, 6-1

V

- validation warnings
 - during restart, 2-21, 3-25, 4-17
- virtual documentation
 - about, x
- VisiBroker OrbServer Agent Port
 - definition of, A-4
- Vision Demo database
 - character set in, 2-13, 3-16
 - description of, 1-2, 2-5, 3-8, A-5
 - NLS settings in, 2-13

- passwords, A-7
- predefined users, A-7
- using Multi-Org, A-6

W

- Web Listener Port
 - definition of, A-3
- Web PLSQL Port
 - definition of, A-3
- Welcome screen
 - using, 2-1, 3-2, 3-26, 4-2
- wizard
 - buttons and keys, 1-13
 - description of, 1-1
 - help, 1-13
 - input fields, 1-12
 - navigating in, 1-12
- Workflow Mailer
 - configuring, 6-8

X

- X DISPLAY
 - definition of, A-2
- XMLSVCS Servlet Port Range
 - definition of, A-4