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PeopleTools 8.53 Installation for Microsoft SQL Server

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About This Documentation

This preface discusses:

- Understanding This Documentation
- Audience
- Typographical Conventions
- Products
- Related Information
- Comments and Suggestions

Understanding This Documentation

This documentation is designed to direct you through a basic PeopleSoft installation. It is not a substitute for the database administration documentation provided by your relational database management system (RDBMS) vendor, the network administration documentation provided by your network vendor, or the installation and configuration documentation for additional software components that are used with PeopleSoft products.

This documentation is divided into two parts. The chapters in Part 1 include the information that is required to complete a basic PeopleSoft installation. The chapters and appendices in Part 2 include information for less common or optional tasks.

Required updates to this installation documentation are provided in the form of “Required for Install” incidents, which are available on My Oracle Support. In addition, addenda to the recent PeopleTools installation guides are periodically posted in My Oracle Support on the same page as the initial posting.

Instructions for installing Oracle’s PeopleSoft PeopleTools are provided in PeopleSoft PeopleTools installation guides. Application-specific installation instructions are provided in a separate document for the PeopleSoft application. For instance, if you are installing Oracle’s PeopleSoft Customer Relationship Management (CRM), you need both the PeopleSoft PeopleTools installation guide and the additional instructions provided for installing PeopleSoft CRM.

To find the installation documentation for PeopleSoft PeopleTools or for your PeopleSoft application, go to My Oracle Support and search for the installation guide for your product and release.

Note. Before proceeding with your installation, check My Oracle Support to ensure that you have the latest version of this installation guide for the correct release of the PeopleSoft product that you are installing.

Audience

This documentation is written for the individuals responsible for installing and administering the PeopleSoft environment. This documentation assumes that you have a basic understanding of the PeopleSoft system. One of the most important components in the installation and maintenance of your PeopleSoft system is your on-site expertise.

You should be familiar with your operating environment and RDBMS and have the necessary skills to support that environment. You should also have a working knowledge of:

- SQL and SQL command syntax.
- PeopleSoft system navigation.
- PeopleSoft windows, menus, and pages, and how to modify them.
- Microsoft Windows.

Oracle recommends that you complete training, particularly a PeopleSoft Server Administration and Installation course, before performing an installation.

See Oracle University, <http://education.oracle.com>

Typographical Conventions

To help you locate and understand information easily, the following conventions are used in this documentation:

Convention	Description
Monospace	Indicates a PeopleCode program or other code, such as scripts that you run during the install. Monospace is also used for messages that you may receive during the install process.
<i>Italics</i>	Indicates field values, emphasis, and book-length publication titles. Italics is also used to refer to words as words or letters as letters, as in the following example: Enter the letter <i>O</i> . Italics are also used to indicate user-supplied information. For example, the term <i>domain</i> is used as a placeholder for the actual domain name in the user's environment. When two such placeholders are used together, they may be set apart with angle brackets. For example, the path <code><PS_CFG_HOME>/appserv/<domain></code> includes two placeholders that require user-supplied information.
Initial Caps	Field names, commands, and processes are represented as they appear on the window, menu, or page.
lower case	File or directory names are represented in lower case, unless they appear otherwise on the interface.
Menu, Page	A comma (,) between menu and page references indicates that the page exists on the menu. For example, "Select Use, Process Definitions" indicates that you can select the Process Definitions page from the Use menu.

Convention	Description
Cross-references	<p>Cross-references that begin with <i>See</i> refer you to additional documentation that will help you implement the task at hand. We highly recommend that you reference this documentation.</p> <p>Cross-references under the heading <i>See Also</i> refer you to additional documentation that has more information regarding the subject.</p>
“ ” (quotation marks)	Indicate chapter titles in cross-references and words that are used differently from their intended meaning.
Note. Note text.	Text that begins with <i>Note.</i> indicates information that you should pay particular attention to as you work with your PeopleSoft system.
Important! Important note text.	A note that begins with <i>Important!</i> is crucial and includes information about what you need to do for the system to function properly.
Warning! Warning text.	A note that begins with <i>Warning!</i> contains critical configuration information or implementation considerations; for example, if there is a chance of losing or corrupting data. Pay close attention to warning messages.

Products

This documentation may refer to these products and product families:

- Oracle® BPEL Process Manager
- Oracle® Enterprise Manager
- Oracle® Secure Enterprise Search
- Oracle® Tuxedo
- Oracle® WebLogic Server
- Oracle's PeopleSoft Application Designer
- Oracle's PeopleSoft Change Assistant
- Oracle's PeopleSoft Change Impact Analyzer
- Oracle's PeopleSoft Data Mover
- Oracle's PeopleSoft Process Scheduler
- Oracle's PeopleSoft Pure Internet Architecture
- Oracle's PeopleSoft Customer Relationship Management
- Oracle's PeopleSoft Financial Management
- Oracle's PeopleSoft Human Capital Management
- Oracle's PeopleSoft Enterprise Learning Management
- Oracle's PeopleSoft Pay/Bill Management
- Oracle's PeopleSoft PeopleTools

- Oracle's PeopleSoft Enterprise Performance Management
- Oracle's PeopleSoft Portal Solutions
- Oracle's PeopleSoft Staffing Front Office
- Oracle's PeopleSoft Supply Chain Management

Note. This documentation refers to both Oracle's PeopleSoft Portal Solutions and to PeopleSoft PeopleTools portal or portal technologies. PeopleSoft Portal Solutions is a separate application product. The PeopleSoft PeopleTools portal technologies consist of PeopleSoft Pure Internet Architecture and the PeopleSoft PeopleTools portal technology used for creating and managing portals.

See <http://www.oracle.com/applications/peoplesoft-enterprise.html> for a list of PeopleSoft Enterprise products.

Related Information

Oracle provides reference information about PeopleSoft PeopleTools and your particular PeopleSoft Application. You can access documentation for recent releases of PeopleSoft PeopleTools and PeopleSoft Applications at the PeopleSoft Hosted Documentation site. You can also find documentation by searching for the product name on My Oracle Support.

- My Oracle Support. This support platform requires a user account to log in. Contact your PeopleSoft representative for information.

To locate documentation on My Oracle Support, search for the title and select PeopleSoft Enterprise to refine the search results.

See My Oracle Support, <https://support.oracle.com>

- *PeopleTools: Getting Started with PeopleTools* for your release. This documentation provides a high-level introduction to PeopleTools technology and usage.

See Oracle PeopleSoft Hosted Documentation, <http://www.oracle.com/pls/psfthomepage/homepage>

- PeopleSoft Application Fundamentals for your PeopleSoft Application and release. This documentation provides essential information about the setup, design, and implementation of your PeopleSoft Application.

To install additional component software products for use with PeopleSoft products, including those products that are packaged with your PeopleSoft products as well as products from other vendors, you should refer to the documentation provided with those products, as well as this documentation.

Comments and Suggestions

Your comments are important to us. We encourage you to tell us what you like, or what you would like changed about PeopleSoft documentation and other Oracle reference and training materials. Please send your suggestions to:

PSOFT-Infodev_US@oracle.com

While we cannot guarantee to answer every email message, we will pay careful attention to your comments and suggestions. We are always improving our product communications for you.

Part I

Mandatory Installation

The chapters in the first part of this installation guide cover only those tasks that are required for a basic PeopleSoft installation. Everyone carrying out an installation should use the tasks in Part I. After setting up the Application Server, PeopleSoft Pure Internet Architecture, and Process Scheduler Server, you verify that you can sign into the PeopleSoft installation in a browser.

CHAPTER 1

Preparing for Installation

This chapter discusses:

- Understanding the PeopleSoft Installation
- Using Oracle Software Delivery Cloud to Obtain Installation Files
- Considering Project Planning
- Planning Your Initial Configuration
- Planning Database Creation
- Planning Multilingual Strategy
- Reviewing Patches and Updates Required at Installation
- Installing Supporting Applications
- Installing Microsoft SQL Server 2008
- Increasing the Size of Tempdb
- Installing Client Connectivity
- Performing Backups
- Using PeopleSoft Change Assistant and PeopleSoft Change Impact Analyzer

Understanding the PeopleSoft Installation

This chapter will help you plan and prepare for a basic PeopleSoft installation. Before you begin the installation, please note:

- See *Getting Started on the PeopleSoft Installation*, for an overview of the installation and for information on obtaining the necessary documentation and software.

You can find *Getting Started on the PeopleSoft Installation* on the same My Oracle Support page as this installation guide.

- Before you begin your PeopleSoft installation, use the PeopleSoft hardware and software requirements information in the My Oracle Support Certifications area to verify that you have the correct hardware and software in place to support a successful installation.

See Hardware and software requirements for PeopleSoft PeopleTools and your PeopleSoft Application on My Oracle Support.

See My Oracle Support, Certifications.

Warning! If you are unable to meet any of the criteria outlined in the hardware and software requirements and certification information on My Oracle Support, contact Oracle before going forward with the installation. Attempting to complete an installation on an unsupported configuration can be a very costly decision, and Oracle will not provide support for such PeopleSoft installations.

- Use the My Oracle Support Certifications area to determine the latest certified versions of additional components, such as Oracle Tuxedo or IBM WebSphere, which are supported for the PeopleSoft PeopleTools release you are installing.
- If you will be upgrading your current release after you perform this installation, you also need to install Change Assistant. The page on My Oracle Support containing your upgrade documentation and files includes information on which tool you need.
- For critical issues related to the installation process, see the My Oracle Support web site. Be sure to read the “Required for Installation or Upgrade” incidents on the Patches and Updates page for the PeopleSoft PeopleTools version that you are installing.
- For online technical support information, use the My Oracle Support web site. My Oracle Support includes tools for self-directed searches of information including reference documents and problem resolutions, as well as service request management tools.

See My Oracle Support, <https://support.oracle.com>

- To download software and documentation, use the Oracle Software Delivery Cloud portal, and the Oracle Technology Network.

See Oracle Software Delivery Cloud, <http://edelivery.oracle.com>

See Oracle Technology Network, <http://www.oracle.com/technetwork/index.html>

- Be aware that not all application releases are certified and supported to run on all PeopleSoft PeopleTools releases. Please check the PeopleSoft policy information in article ID 1348959.1 on My Oracle Support for further details on the support policy for your particular application. If you are planning to do a PeopleTools-Only upgrade, do not continue until you have verified that your application is supported on the target PeopleSoft PeopleTools release.
- This installation guide may refer you to other PeopleSoft documentation resources for more information or instructions. You can access Oracle’s PeopleSoft Hosted Documentation online during the installation process. For PeopleSoft PeopleTools 8.53, you also have the option to install PeopleSoft Online Help documentation, a dynamic, interactive, accessible HTML version of the documentation formerly known as “PeopleBooks.”

See Also

"Installing the PeopleSoft Online Help Solution"

Oracle’s PeopleSoft Hosted Documentation, <http://www.oracle.com/pls/psft/homepage>

"Installing PeopleSoft Change Assistant"

Task 1-1: Using Oracle Software Delivery Cloud to Obtain Installation Files

Before beginning the installation, you should have obtained the PeopleSoft installation software by downloading the necessary zip files from the Oracle Software Delivery Cloud portal. Use the documentation available on Oracle Software Delivery Cloud to be sure that you obtain all the zip files required for your environment.

See Oracle Software Delivery Cloud, <http://edelivery.oracle.com>

In case you have not yet obtained the necessary files, this documentation includes sections on obtaining the files at appropriate points during the installation process.

Task 1-2: Considering Project Planning

Identify the maintenance schedule for upcoming PeopleSoft PeopleTools and PeopleSoft Application releases. These releases are typically on a regular schedule (for example, quarterly, biannually) and should be included in your project planning and budgeting processes. Maintenance schedules are posted on My Oracle Support. It is important to plan regular maintenance in your overall project plans. For example, for a year-long enterprise upgrade, development, and conversion project, make sure to set aside time for applying the PeopleSoft PeopleTools minor releases that ship during that time frame. Otherwise, if you fall behind, you may find that you need a fix shipped with one of the minor releases that cannot be backported as a patch.

Search for the term “maintenance schedules” on My Oracle Support. You can find schedules by year and quarter for PeopleSoft PeopleTools and PeopleSoft Applications. The schedules include lists of bundles and maintenance packs for individual products.

Task 1-3: Planning Your Initial Configuration

This section discusses:

- Understanding Workstations
- Understanding PeopleSoft Servers and Clients
- Defining the PeopleSoft Client
- Defining the File Server
- Defining the Database Server
- Defining the Application Server
- Defining the Batch Server
- Defining Installation Locations
- Defining the Web Server
- Using Oracle Configuration Manager

- Using Laser Printers

Note. Oracle supports a number of versions of UNIX and Linux in addition to Microsoft Windows for the PeopleSoft installation. Throughout this book, there are references to operating systems. Where necessary, this book refers to specific operating systems by name (for example, Oracle Solaris, IBM AIX, or Linux); however, for simplicity the word UNIX is often used to refer to all UNIX-like operating systems, including Linux.

Understanding Workstations

This section discusses:

- Using the PeopleTools Development Environment (Windows-Based Clients)
- Using Workstations Equipped with Supported Web Browsers

Note. With the PeopleSoft Pure Internet Architecture, Windows-based clients are primarily used as a development environment. End users can use any machine equipped with a supported web browser.

Using the PeopleTools Development Environment (Windows-Based Clients)

Windows-based clients are referred to as the PeopleTools Development Environment. These clients—which run on supported Microsoft Windows platforms—can connect to the PeopleSoft database directly using client connectivity software (a two-tier connection) or through a PeopleSoft application server (a three-tier connection).

Three-tier connectivity offers great performance advantages over two-tier (especially over a WAN), reduces network traffic, and generally does not require that you install database connectivity on the client. However, any Windows-based clients that will be running Data Mover scripts against the database, or running COBOL or Structured Query Report (SQR) batch processes on the client, must have database connectivity installed.

Note. COBOL is not needed for PeopleTools or for applications that contain no COBOL programs. Check My Oracle Support for details about whether your application requires COBOL.

See *Installing Supporting Applications*.

You need to have the PeopleTools Development Environment set up to create your database. For more information on setting up the PeopleTools Development Environment, refer to the product documentation for PeopleSoft Configuration Manager.

See the *PeopleTools: System and Server Administration* product documentation for more information about using PeopleSoft Configuration Manager.

For installation purposes, you must set up at least one Windows-based client for sign-on using a two-tier connection to the database, so that it can create and populate the PeopleSoft database. This documentation refers to this client as the install workstation. Depending on your installation plan, you may want to set up more than one install workstation so that you can perform asynchronous installation tasks in parallel.

Note. The Microsoft Windows machine that you use to perform your PeopleSoft PeopleTools installation must be running in 256-color mode or higher when running the PeopleSoft installation and database configuration on Microsoft Windows. This is not necessary for UNIX or console mode.

Using Workstations Equipped with Supported Web Browsers

To run the PeopleSoft Pure Internet Architecture, the client workstation only needs a web browser that is HTML 4.0 compliant. You may need an additional workstation for demonstration and testing purposes if you plan to use a browser running on a platform other than Microsoft Windows—such as Macintosh or UNIX.

See *PeopleTools: PeopleSoft Portal Technology*.

See My Oracle Support, Certifications.

Understanding PeopleSoft Servers and Clients

You use the PeopleSoft Installer to install PeopleSoft servers and the PeopleSoft Client. Here is a summary of the functionality included in each server or client installation:

- *File Server*

All Client executables (such as PeopleSoft Application Designer and Configuration Manager), PS/nVision, Change Assistant, files and directories necessary to perform upgrade, and Client SQR.

See Defining the File Server

- *PeopleSoft Client*

All Client executables (such as PeopleSoft Application Designer and Configuration Manager), PS/nVision, Change Assistant, Change Impact Analyzer, PeopleSoft Test Framework, PSEM Agent, and Client SQR.

See Defining the PeopleSoft Client.

- *Application Server*

PSADMIN, COBOL for remote call, Verity

Note. There is a separate procedure for installing Verity.

- *Database Server*

Scripts and data directories, files necessary to run Data Mover.

- *Process Scheduler Server*

PSADMIN, COBOL, SQR, Verity.

- *Web Server*

Windows PeopleSoft Pure Internet Architecture (PIA) installation, UNIX web files and shell scripts, Portal Search data files, and Verity.

Task 1-3-1: Defining the PeopleSoft Client

The PeopleSoft Enterprise media pack for PeopleSoft PeopleTools 8.53 includes a separate zip file to enable you to install only the components needed for the PeopleSoft Client. Keep in mind that the PeopleSoft Client can be installed *only* on Microsoft Windows.

The PeopleSoft Client is the environment repository for the PeopleSoft PeopleTools Development environment.

Task 1-3-2: Defining the File Server

The file server is the environment (or file) repository for the PeopleTools Development Environment, which is needed for the Database Configuration Wizard. The file server is also the repository for the files necessary to perform an upgrade. This includes Change Assistant and all of the executables and scripts that are necessary to perform an upgrade. You will apply patches and updates from My Oracle Support directly to the file server and then copy the updated files to your other servers. In addition, the file server is a source repository for COBOL and SQR.

Important! Remember, a COBOL compiler is not needed for PeopleSoft PeopleTools unless your application contains COBOL programs. If your application requires COBOL and you are running on Microsoft Windows, we require that you maintain a central repository of your COBOL source code on the Windows file server. See the task Installing Supporting Applications later in this chapter for details on where you should install your COBOL compiler.

If you follow the default procedures recommended in this documentation, the install workstations, Windows batch servers, and Windows report servers will access the PeopleSoft files on the file server by pointing to a directory referred to in this documentation as *PS_HOME* on a shared network drive. You can install SQR and Crystal Reports on the file server, or install them locally on Windows batch servers and on Windows-based clients that will be running these processes locally.

If you are working only on Microsoft Windows, and you install the file server along with the other servers, you do not need to repeat the file server setup.

If you need to set up the file server on a separate Microsoft Windows machine, you should install PeopleSoft PeopleTools, any PeopleSoft applications, and the Multilanguage files.

In some cases you may choose to set up local copies of the PeopleSoft executables on the PeopleTools Development Environment and Windows batch servers, rather than mapping to a shared directory on the file server. You can use the instructions in the chapter “Using the PeopleSoft Installer” to perform such local installations.

Note. If you have used the PeopleSoft Server Transfer program in the past, it is no longer needed, because the PeopleSoft Installer lets you install files directly to the designated server.

Task 1-3-3: Defining the Database Server

The servers that host your PeopleSoft databases need sufficient processing, storage, and networking resources to process the database requests, store the data and transaction logs, and communicate freely to the clients of this data. These databases will include your own PeopleSoft database prototypes as well as any system and demonstration databases delivered directly from Oracle with the PeopleSoft installation media.

See Planning Database Creation.

Database sizes vary depending on the applications that you install. The size of your prototype PeopleSoft database will also depend on the amount of data to be converted from your legacy system. A good rule of thumb for estimating the size of your prototype PeopleSoft database is to estimate the amount of disk space needed for the data to be converted from your legacy system, add to this the size required for the PeopleSoft System database, and then add an additional 50 percent of this combined figure to allow for growth.

Task 1-3-4: Defining the Application Server

The application server is the centerpiece of the PeopleSoft Pure Internet Architecture. It connects to the PeopleSoft database and handles almost all SQL-intensive interactions with the database server required during online transaction processing. Windows-based clients, in three-tier, communicate with the application server using Oracle Tuxedo messages. In the PeopleSoft Pure Internet Architecture, the application server interacts with user workstations through a web server.

The application server also provides functionality required for application messaging and for implementing the PeopleSoft Pure Internet Architecture. An application server is required in all PeopleSoft installations.

For Microsoft SQL Server the application server will run on a Windows-based server too. Oracle recommends a physical three-tier configuration for the PeopleSoft installation, which means the application server will reside on a separate server than the database server. If performance for both the database server and the application server is not an issue, you can run both on the same server—a logical three-tier configuration.

See SQL Server books online.

All application servers require database connectivity to the database server. Before beginning your installation, make sure that you can connect from the application server to the database server using a SQL client tool. This topic will be addressed later in this chapter.

See Also

PeopleTools: PeopleSoft Portal Technology

Task 1-3-5: Defining the Batch Server

The term *batch server* is equivalent to the term *Process Scheduler server*. PeopleSoft batch processes, such as COBOL and SQR, are scheduled and invoked by a Process Scheduler server. In almost all configurations, batch server SQR and COBOL files are located and executed on the same computer as the database server.

For Microsoft SQL Server databases, a Process Scheduler located on the batch server can point to and invoke files that are physically located on the file server.

Oracle supports setting up the batch environments on a dedicated server, an application server, or even on the database server.

Any computer operating as a batch server must have database connectivity installed so that it can make a two-tier connection to the PeopleSoft database.

See Also

PeopleTools: PeopleSoft Process Scheduler

Task 1-3-6: Defining Installation Locations

This section discusses:

- Understanding Installation Locations
- Defining PS_HOME
- Defining PS_APP_HOME
- Defining PS_CFG_HOME
- Defining PS_CUST_HOME

- Defining PIA_HOME

Understanding Installation Locations

As you proceed through the PeopleSoft PeopleTools installation, you are asked to specify several installation locations. Use the information in this section to choose how to specify the installation locations for the various components in a PeopleSoft installation.

In addition to these installation locations, there are home directories for the various supporting software, such as Oracle WebLogic, which are described in the appropriate chapters.

Defining PS_HOME

The *PS_HOME* directory holds the PeopleSoft PeopleTools files. The way that you specify the other installation locations discussed in the following sections will determine whether other files are installed in *PS_HOME* or elsewhere; for example, whether the PeopleSoft Application files are installed into *PS_HOME* or into *PS_APP_HOME*.

See "Using the PeopleSoft Installer."

For information on setting up *PS_HOME* as a read-only environment, see the *PeopleTools: System and Server Administration* product documentation on securing *PS_HOME* and *PS_CFG_HOME*.

Defining PS_APP_HOME

The *PS_APP_HOME* location holds the PeopleSoft Application files.

Depending upon the PeopleSoft Application that you are installing, for PeopleSoft PeopleTools 8.52 and later, the directory where you install the PeopleSoft application files does not have to be the same as the location where you install PeopleSoft PeopleTools, *PS_HOME*. You can select any writeable location on the file system. The *PS_APP_HOME* location is sometimes referred to as "Application Home."

For details about whether this functionality is supported for your PeopleSoft Application, and how it is used, see the PeopleSoft Application-specific installation guide.

If you choose to install the PeopleSoft Application software to a *PS_APP_HOME* location that is different from the *PS_HOME* location where you installed PeopleSoft PeopleTools 8.53, you will need to define a *PS_APP_HOME* environmental variable. For example:

- On Microsoft Windows:
 - a. Select Start, Programs, Control Panel, System.
 - b. Select Advanced System Setting.
 - c. On the System Properties dialog box, select Advanced, and click Environment Variables.
 - d. Add or modify the user variable *PS_APP_HOME* and specify its value. For example:

```
PS_APP_HOME=c:\fscm92
```

- On UNIX, specify the environment variable with a command such as this:

```
PS_APP_HOME=/data1/ora/fscm92;export PS_APP_HOME
```

If your environment includes more than one PeopleSoft Application, such as FSCM and HCM, you can install into a separate *PS_APP_HOME* location for each. However, in this case, you must change the value of the *PS_APP_HOME* environment variable for any configuration tasks.

For information on setting and working with the *PS_APP_HOME* environment variable, see the product documentation *PeopleTools: System and Server Administration*, "Working with *PS_APP_HOME*."

See “Installing and Compiling COBOL on <Windows or UNIX>” for further information.

Defining PS_CFG_HOME

The *PS_CFG_HOME* location holds the configuration files for the application server, batch server and search server domains.

It also holds the configuration files for web server domains if *PIA_HOME*, defined in the next section, is equal to *PS_CFG_HOME*. This location is sometimes referred to as “Config Home.”

When you install PeopleSoft PeopleTools 8.53 and the PeopleSoft Application software, the PeopleSoft installer places the required files into the specified *PS_HOME* directory. When you create an application server, batch server, or search server domain, the configuration files associated with that domain are installed into a directory referred to as *PS_CFG_HOME*.

By default, the system separates the binary files (executables and libraries) stored in *PS_HOME* from the ASCII files (configuration and log files) associated with a domain stored in *PS_CFG_HOME*. This separation applies only to these servers:

- PeopleSoft Application Server
- PeopleSoft Process Scheduler Server
- PeopleSoft Search Server

When you use the PSADMIN utility, the system creates the *PS_CFG_HOME* directory based upon environment variables associated with the current user. This table lists the user environment variable and default directory by operating system:

Operating System	User Environment Variable	PS_CFG_HOME Default Location
UNIX	HOME	\$HOME/psft/pt/<peopletools_version>
Microsoft Windows	USERPROFILE	%USERPROFILE%\psft\pt<peopletools_version>

For example, if USERPROFILE is C:\Documents and Settings\asmith and the PeopleTools version is 8.53, by default *PS_CFG_HOME* would be C:\Documents and Settings\asmith\psft\pt\8.53. The configuration and log files for the application server, process scheduler server, and search server are installed below this directory.

Note. The *PS_CFG_HOME* directory is associated with the *PS_HOME* from which it was originally generated.

This server domain configuration allows for a more flexible installation. You also have the opportunity to place different security restrictions on the binary and configuration files. To take advantage of this flexibility, you have the option to specify a different location by setting a *PS_CFG_HOME* environment variable. Before doing so, however, see the *PeopleTools: System and Server Administration* product documentation for a more complete explanation of working with *PS_CFG_HOME*.

Defining PS_CUST_HOME

The *PS_CUST_HOME* location holds customized file system objects.

Anything that is changed from the file system objects that are delivered with the PeopleSoft Application installation should be placed here. The sub-directory structure must mirror the *PS_APP_HOME* upon which it is based. For example, when you install your PeopleSoft Application, the directory structure includes SQR scripts in *PS_APP_HOME/sqr*. If you have customized SQR scripts, you would place them in *PS_CUST_HOME/sqr*.

If a value is not assigned for the *PS_CUST_HOME* environment variable it assumes the default value of *PS_HOME*. This location is sometimes referred to as “Cust Home.”

For information on setting up and using *PS_CUST_HOME*, see *PeopleTools: System and Server Administration*.

Defining PIA_HOME

When you install the PeopleSoft Pure Internet Architecture, the files are installed in the *PIA_HOME* directory. The *PIA_HOME* location holds the webserv directory, and the files for the PeopleSoft Pure Internet Architecture installation. The directory where you install PeopleSoft Pure Internet Architecture, *PIA_HOME*, does not have to be the same as the location where you install PeopleSoft PeopleTools and the PeopleSoft Application software, *PS_HOME*. You have the option to specify the installation location for the PeopleSoft Pure Internet Architecture by setting the environment variable *PS_CFG_HOME*.

See "Setting Up the PeopleSoft Pure Internet Architecture (in GUI Mode and in Console Mode)."

The *PS_CFG_HOME* directory is created the first time that the PSADMIN utility starts. PSADMIN recognizes that *PS_CFG_HOME* is not present and creates it when necessary. This is done before any domains are created. When you invoke PeopleSoft Pure Internet Architecture, the installer checks your environment to determine the *PS_CFG_HOME*. If the environment variable *PS_CFG_HOME* is defined, the *PS_CFG_HOME* location is seen as the directory to which that environment variable points. If *PS_CFG_HOME* is not defined the default value is used.

See the product documentation for using the %V Meta variable in *PeopleTools: System and Server Administration* product documentation for more information about setting the *PS_CFG_HOME* environment variable.

Task 1-3-7: Defining the Web Server

A web server is required to run the PeopleSoft Pure Internet Architecture. The PeopleSoft Pure Internet Architecture is certified to work with either of the following two J2EE web application servers (also commonly referred to as web servers):

- Oracle WebLogic Server
- IBM WebSphere Server

You can refer to the Certifications page on My Oracle Support for supported web server combinations.

In conjunction with Oracle WebLogic and IBM WebSphere, Oracle has also certified the use of the following HTTP servers as reverse proxy servers (RPS):

- With Oracle WebLogic, the certified HTTP servers are Microsoft IIS, Sun Java System web server, Apache HTTP server, and Oracle HTTP Server.
- With IBM WebSphere the certified HTTP server is IBM HTTP Server (IHS).

Oracle WebLogic, IBM WebSphere, and the supported reverse proxy servers will provide out-of-the-box SSL support across all supported operating systems. Oracle WebLogic and IBM WebSphere provide demo digital certificates, but for production grade SSL you must purchase digital certificates from a Certificate Authority supported by the web server that you are using (for example, Verisign, Baltimore, Entrust, and so on).

Task 1-3-8: Using Oracle Configuration Manager

When you install PeopleSoft PeopleTools 8.53, you can configure the Oracle Configuration Manager. Oracle Configuration Manager enables you to connect to My Oracle Support to upload your environment information to an Oracle repository. When you enter your configuration information for the Oracle Configuration Manager during the PeopleSoft PeopleTools installation, the installer checks the Internet connection and associates the current environment data with your My Oracle Support account. Oracle Configuration Manager offers the following advantages:

- Facilitates communication with Oracle Software Support
- Improves access to the Oracle knowledge base
- Enables pro-active problem avoidance.

If you choose not to configure the Oracle Configuration Manager during the PeopleSoft PeopleTools installation, you can complete the configuration at a later date. If your system is already configured to use Oracle Configuration Manager, the PeopleSoft installer does not display the screens for the configuration.

See Also

Oracle Configuration Manager Documentation, <http://www.oracle.com/technetwork/indexes/documentation/index.html>

"How to Install Oracle Configuration Manager (OCM) for PeopleTools 8.48, 8.49, 8.50, 8.51, and 8.52," My Oracle Support, (search for article name)

PeopleTools: Change Assistant and Update Manager, "Integrating with Oracle Configuration Manager"

Task 1-3-9: Using Laser Printers

Along with the printer you will need a Windows printer driver to print the online reports that produce 180-character-wide reports using the HP LinePrinter font. Your printer must be configured with sufficient memory (typically 1.5 MB) to produce graphics images for page printouts.

See Also

My Oracle Support, Certifications

Task 1-4: Planning Database Creation

This section discusses:

- Understanding Database Creation
- Determining Databases and Database Names
- Defining Microsoft SQL Server and PeopleSoft Databases

Understanding Database Creation

When performing a PeopleSoft installation, you will create these types of PeopleSoft databases:

- System (also called SYS) databases, which contain the PeopleSoft PeopleTools and product-specific metadata required for development of a production database.

- Demo (DMO) databases, which are populated with sample data for study, demonstration, or training purposes.

Note. When using the PeopleSoft installer to install PeopleSoft application software, one of the steps includes an option to select the System Database and the Demo Database. To properly install a Demo database, you must select *both* the System Database and the Demo Database options.

See “Using the PeopleSoft Installer.”

Task 1-4-1: Determining Databases and Database Names

Before you begin the installation process, you should determine how many PeopleSoft databases (System or Demo) of which type you need and how you intend to use them. You should also determine the names of the databases at this point, using database names that:

- Are limited to eight characters, all UPPERCASE.
- Capture information about the PeopleSoft product line and the type of database.

For example, you may want to create two databases with the names PSHRDMO and PSHRSYS, using the two characters HR (for Human Resources) to indicate the product line.

Note. Microsoft SQL Server allows you to create database names that begin with a number (as in 8PTDMO). However, database names that begin with a number are not valid PeopleSoft database names and will result in errors.

Task 1-4-2: Defining Microsoft SQL Server and PeopleSoft Databases

The terms “Microsoft SQL Server database” and “PeopleSoft database” have essentially the same meaning. A PeopleSoft database is a set of SQL objects defined as having the same owner ID. These objects are always within a single Microsoft SQL Server database. A Microsoft SQL Server may hold more than one PeopleSoft database, but only one PeopleSoft database may reside in a Microsoft SQL Server database. A PeopleSoft database includes the PeopleSoft objects and application data for one or more products in a PeopleSoft product line. Each PeopleSoft database has a database owner, known as the access ID. Make sure that the access ID and its password do not exceed eight characters in length. This is a PeopleSoft requirement for the access ID.

Note. When installing the PeopleSoft database do not use *sa* as your access ID. Instead use a login which does not have system administration privileges.

If you are upgrading your database from pre-8.50 PeopleSoft PeopleTools to release 8.51 or later, see the appendix “Synchronizing the ACCESSID User” for instructions on configuring your access ID.

The levels of security provided by Microsoft are:

- The operating system
- The Microsoft SQL Server
- The server's databases
- The database's objects

All of the objects in a PeopleSoft database will be owned by the owner ID. Only the connect ID will be granted SELECT access to the signon tables. SELECT access will be granted on three tables—PSSTATUS, PSACCESSPRFL, and PSOPRDEFN—for the PeopleSoft connect ID.

Note. The connect ID is explained in “Creating a Database,” Running the Database Configuration Wizard.

Task 1-5: Planning Multilingual Strategy

This section discusses:

- Understanding Multilingual Issues
- Choosing a Base Language
- Selecting Additional Languages
- Selecting a Database Collation

Understanding Multilingual Issues

Before beginning your installation, you should determine which languages your PeopleSoft system will need to support. If multiple languages are required, determine which language will be used most often. These decisions will affect tasks at various stages of the installation, including file server setup, database creation, and the ability to change the base language of the PeopleSoft database after it is created. Even if you do not plan on running your system in more than one language, you should decide the following information before completing this task:

- Database base language
- Additional languages (if any)
- Database character set

The current languages provided by Oracle and their language codes are listed in the following table, as well as the corresponding database character sets for that language. These are the languages for which Oracle provides pretranslated products. If you plan to provide users access to your applications in these languages, Oracle recommends that you install the translations during your initial installation. This approach will keep you from having to perform an upgrade if you decide to add the Oracle-provided translations at a later date. After installation, you also have the option of performing your own translations, and adding additional languages.

In considering which languages to include, whether for pretranslated objects or for your own application development, keep in mind that certain languages require a Unicode database. Also, Oracle recommends that you consider installing a Unicode database to allow for multi-language use in the future.

See Selecting a Database Collation.

Language Code	Language	Database Character Set
ARA	Arabic	Unicode
CFR	Canadian French	Unicode or non-Unicode
CZE	Czech	Unicode
DAN	Danish	Unicode or non-Unicode
DUT	Dutch	Unicode or non-Unicode
ENG	US English	Unicode or non-Unicode
FIN	Finnish	Unicode or non-Unicode
ESP	Spanish	Unicode or non-Unicode
FRA	French	Unicode or non-Unicode

Language Code	Language	Database Character Set
GER	German	Unicode or non-Unicode
HUN	Hungarian	Unicode
ITA	Italian	Unicode or non-Unicode
JPN	Japanese	Unicode or non-Unicode
KOR	Korean	Unicode
NOR	Norwegian	Unicode or non-Unicode
POL	Polish	Unicode
POR	Portuguese	Unicode or non-Unicode
ROM	Romanian	Unicode
RUS	Russian	Unicode
SVE	Swedish	Unicode or non-Unicode
THA	Thai	Unicode
TUR	Turkish	Unicode
UKE	United Kingdom English	Unicode or non-Unicode
ZHS	Simplified Chinese	Unicode
ZHT	Traditional Chinese	Unicode

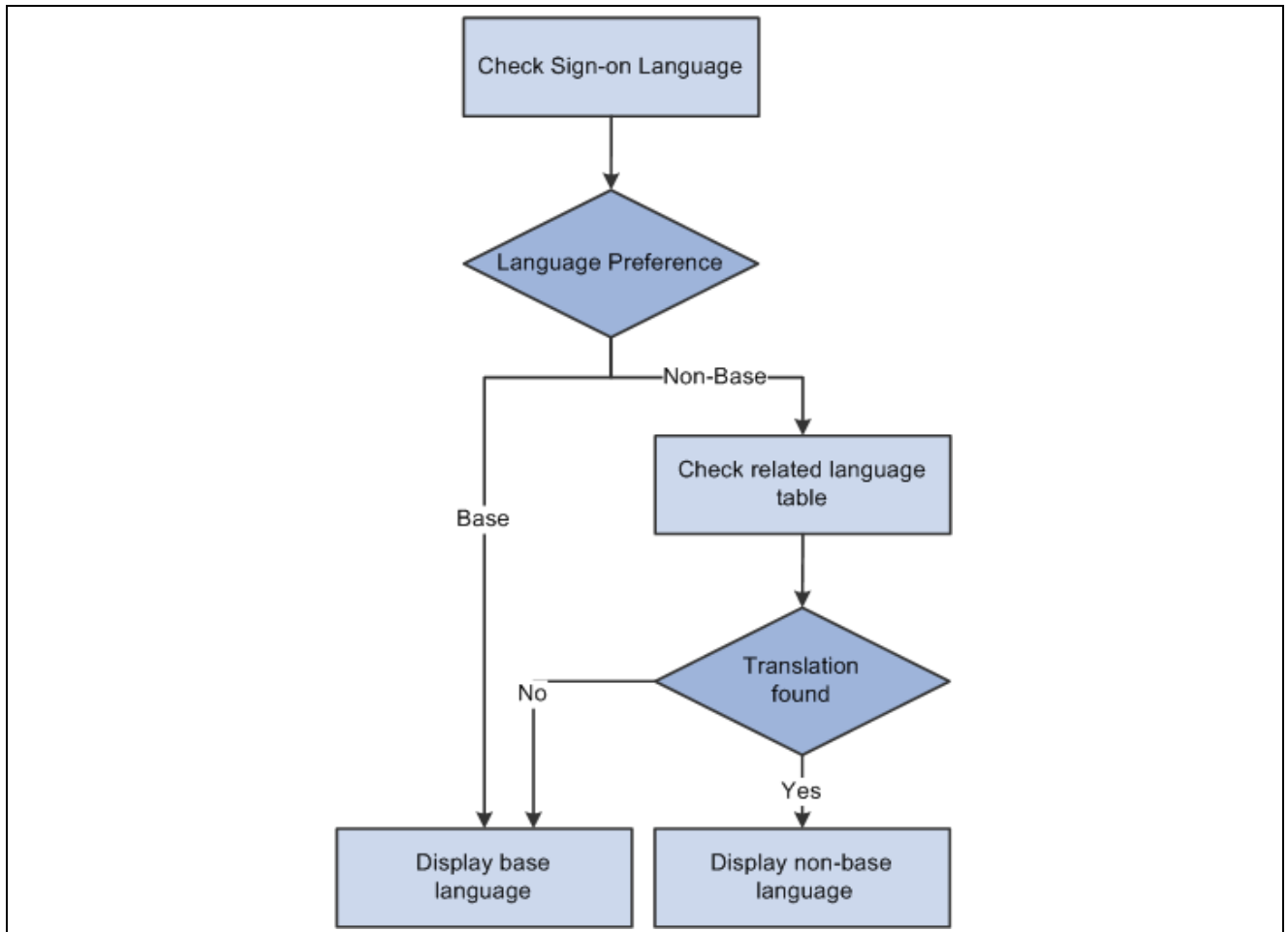
See Also

PeopleTools: Global Technology

Task 1-5-1: Choosing a Base Language

Each PeopleSoft database can have only one base language. PeopleSoft databases ship with English as the default base language. Typically, the base language of your database should match the language most commonly used by your organization, as it affects the performance of PeopleSoft applications.

When PeopleSoft PeopleTools attempts to open language-sensitive objects (such as pages and menus), it first compares the operator's preferred language to the base language of the database. If the preferred language matches the base language, PeopleSoft PeopleTools immediately loads the required definition from the base language PeopleSoft PeopleTools tables. However, if the user's preferred language differs from the database's base language, PeopleSoft PeopleTools must first query the related language tables for the object. Should a translation of the object not be found in the operator's preferred language, a query is then performed on the base language tables. The following process flow illustrates the selection of the language used for language-sensitive objects, beginning with the language selected when the user signs in to the PeopleSoft application:



Language selection process using the base language and the preferred language

While these queries typically occur very quickly, they still take up valuable processing time. To optimize performance you can set the base language of your database as the language that is used most often by your users. Another consideration is that because PeopleSoft databases are shipped with a base language of English, maintenance is simpler if English remains the base language. Both configurations are supported by Oracle.

Task 1-5-2: Selecting Additional Languages

Because more than one language can coexist in a single PeopleSoft database, you should decide which languages to install. Oracle provides translations of all end-user objects with the Global Multi-Language installation files. It is much easier to install additional languages upon initial database creation than to add them later in your implementation process, so we recommend that you choose which additional languages may be required now. There is no limit to the number of languages that can coexist in a single PeopleSoft database; however, remember that each language will require additional storage space, primarily for PeopleSoft PeopleTools objects.

Task 1-5-3: Selecting a Database Collation

This section discusses:

- Understanding Database Collation
- Using Non-Unicode Databases

- Using Unicode Databases

Understanding Database Collation

Depending on the languages that you are planning to select for your PeopleSoft installation, you need to determine which collation you will use during the Microsoft SQL Server installation. First you must determine whether you need a Unicode database.

Using Non-Unicode Databases

Use these considerations for environments that support one language: The suggested collation for most PeopleSoft databases is Latin1_General_Bin. This supports Western European languages (English, Danish, Dutch, Finnish, French, German, Italian, Norwegian, Portuguese, Spanish, and Swedish). If the language you will use is not in this list you may need to install a Unicode database, because not all the languages are supported on non-Unicode databases. Otherwise the default options will work.

Use these considerations for environments that support several languages or non-Western European languages: If all the required languages you will use share the same Windows locale id or code page you do not need to install a Unicode database. Simply decide which collation you need to use when setting up your server and database, using the table below as a reference. This table shows a list of collations and the languages they support (the list does not show all the languages supported by Oracle):

Collation	Languages Supported
Latin1_General_Bin	Western European or Latin-1. (All Western Europe: English, Danish, Dutch, Finnish, French, German, Italian, Norwegian, Portuguese, Spanish, and Swedish)
Japanese_Bin	Japanese, English

Note. In addition to *_BIN collations, all the *_AS_CS_WS_KS collations are supported, where “*” can be any language listed above.

Using Unicode Databases

Unicode enables you to maintain data in virtually any modern language in a single database. Prior to Unicode, many languages could not coexist in one database, as they did not share a common character set. On Microsoft SQL Server, Unicode databases differ from non-Unicode databases because they use the NVARCHAR data type (or NCHAR data type if using PeopleSoft Applications 8.9 or earlier) instead of CHAR for character data. Unicode databases are particularly important if the languages that you selected do not share the same character set. Typically, a single character set can encode all languages written in a single script. For example, English, French, and Spanish all share the same script (Latin), so they can coexist in a non-Unicode database. However, Japanese does not share the same script as French, so if you need to have Japanese and French coexist in a single system, you need a Unicode database.

Note. The characters required for the English language exist in all Unicode and non-Unicode character sets. For example, Japanese and unaccented English can coexist in a single Unicode or non-Unicode database.

If you plan on installing or supporting a combination of languages that do not share the same character set, you should use a Unicode database. The primary disadvantage of a Unicode database is the disk space it requires. On Microsoft SQL Server, some characters require more disk space than a non-Unicode database, so the database size will be larger depending on the data content.

This table includes a list of collations you may want to use for supported languages:

Collation	Languages Supported
Arabic_BIN	Arabic, English
Chinese_PRC_BIN	Chinese, English
Chinese_Taiwan_Stroke_BIN	Chinese, English
Cyrillic_General_BIN	Russian, English
Czech_BIN	Czech, English
Greek_BIN	Greek, English
Hebrew_BIN	Hebrew, English
Hungarian_BIN	Hungarian, English
Korean_Wansung_BIN	Korean, English
Polish_BIN	Polish, English
Thai_BIN	Thai, English
Turkish_BIN	Turkish, English

Remember that all characters required for English are defined in all Unicode and non-Unicode character sets.

See the information on character sets in the *PeopleTools: Global Technology* product documentation.

Task 1-6: Reviewing Patches and Updates Required at Installation

Before beginning the installation, check the Patches and Updates page on My Oracle Support to identify any patches, updates, or fixes required at installation that you will need to apply, based on the products, product version, and PeopleSoft PeopleTools version that you are installing. Specific instructions for applying the patches and updates are included in each listed incident.

Make note of all the patches and updates, and plan to apply them at appropriate stages during the installation procedure. For example, a replacement for a PeopleTools executable would be applied after installing the media pack to the appropriate server, and so on.

Note. For any patches and updates that require database changes, be sure to read the section on deciding when to apply patches.

See “Completing the Database Setup,” Reviewing Patch Application.

The following procedure describes how to access the Patches & Updates database. Contact Oracle if you don't have a user ID and password for My Oracle Support.

Note. The My Oracle Support interface is updated periodically. For information on using the Patches & Updates area, select the Help link at the top of the page.

To review patches and updates required at installation:

1. Go to My Oracle Support at <https://support.oracle.com>.
2. Enter your user name and password to log in.

Note. Be sure to log on, or you will not see all of the menu options.

3. Select Patches & Updates.
4. In the Patch Search section, select the Product or Family (Advanced) link.
The Search page includes several search filters. Click the plus sign to add additional filters.
5. In the Product drop-down list, select PeopleSoft PeopleTools.

Note. PeopleSoft products begin with the word *PeopleSoft*.

6. In the Release drop-down list, select the appropriate PeopleSoft PeopleTools release for the patch search.
7. Select Install/Upgrade (PeopleSoft) as a search filter, and select Required at Install from the drop-down list beside it.

Note. This search filter is only available when you select PeopleSoft products.

8. Click the Search button (Patch Search).
9. Note any PeopleTools patches and updates that apply to your installation.
Open the Read Me documentation to view information about the patch that you choose for your installation.
10. Return to the Patch Search page (or click Edit Search on the results page) and search for any PeopleSoft Application-related incidents by selecting the appropriate product or product family, release, and language.
It is strongly recommended that you include Language as a search filter for PeopleSoft Application patch searches.
Make sure the Required for Install option is selected and click the Search button (Patch Search).
11. Note any PeopleSoft Application-specific patches and updates that apply to your installation.

Note. Keep in mind that your installation may require additional software components. In this case you will also need to check for updates and patches for the additional component software. Later chapters cover this topic in detail.

After this installation, you can upgrade your Java Runtime Engine (JRE) to a newer version without upgrading PeopleTools, as long as the new JRE is certified.

See Also

"Installing Web Server Products"

"Installing Additional Components"

"Operating System, RDBMS, and Additional Component Patches Required for Installation PeopleTools," My Oracle Support (search for the article title)

Task 1-7: Installing Supporting Applications

Oracle requires that a number of supporting applications be installed for the PeopleSoft installation on batch servers and on any Windows-based client on which batch processes will be run locally. (Throughout the rest of this section we refer to these Windows-based clients as *two-tier clients*.) Be sure to check My Oracle Support, Certifications to ensure that you are installing software versions that are certified by Oracle.

COBOL

- Consult the PeopleSoft information on My Oracle Support to verify whether your application requires COBOL. Remember that COBOL is not needed for PeopleSoft PeopleTools or for applications that do not contain COBOL programs.

See "PeopleSoft Enterprise Frequently Asked Questions about PeopleSoft and Micro Focus COBOL Compiler," My Oracle Support, (search for the article name).

See "PeopleSoft Enterprise Frequently Asked Questions about PeopleSoft and the IBM COBOL Compiler," My Oracle Support, (search for the article name).

- For PeopleSoft applications written in COBOL, install the appropriate version of the COBOL compiler on the server where you will compile.

For Microsoft Windows servers, install the appropriate version of Micro Focus Net Express.

See "Installing and Compiling COBOL on Windows."

- If all your servers are on Microsoft Windows operating systems, Oracle recommends that you install a COBOL compiler on the file server.

You can install PeopleSoft PeopleTools plus any patches on the file server, compile your COBOL there, and then copy the COBOL binaries to your application and batch servers.

Note. The delivered releases before PeopleSoft PeopleTools 8.4 included both source and compiled COBOL for Windows users. From release 8.4 onwards, the delivered PeopleSoft PeopleTools includes source only. If your application requires COBOL, you will need to compile it.

If your application requires COBOL it is not necessary to install the COBOL runtime on every application and batch server. But it *is necessary* to install the COBOL runtime license on each application and batch server where COBOL programs will be executed.

- The format of COBOL source file names of patches or customizations on the file server should always be UPPERCASE.cbl to ensure compatibility with your UNIX servers.
- The PeopleSoft Installer installs COBOL source code from the installation directory to your Microsoft Windows file server and to all UNIX servers, but not to the rest of your Microsoft Windows servers.

SQR

- On Microsoft Windows batch servers and two-tier clients, you have the option of installing SQR locally, or mapping to a copy installed on the file server.
- Because SQR does not require any local registry settings, you can execute SQR from any Microsoft Windows batch server or two-tier client once SQR has been installed to a shared directory. Installing SQR locally will result in improved performance; over a slow network connection the improvement will be significant.

Microsoft Office

Install Microsoft Office (Excel and Word) on any Windows batch server or two-tier client that will be running PS/nVision or Microsoft Word batch processes.

Microsoft Office must be installed locally, because it requires registry settings.

See Also

My Oracle Support, Certifications

Task 1-8: Installing Microsoft SQL Server 2008

This section discusses:

- Understanding Microsoft SQL Server 2008 Installation
- Installing SQL Server 2008 on the Database Server
- Starting and Stopping Microsoft SQL Server 2008
- Installing Microsoft SQL Server 2008 for Client Only
- Configuring the ODBC Data Source
- Configuring the ODBC Data Source for 32-bit and 64-bit Connectivity Drivers

Understanding Microsoft SQL Server 2008 Installation

This task describes how to install Microsoft SQL Server 2008 for use with PeopleSoft software. For complete step-by-step instructions on installing Microsoft SQL Server 2008, refer to the SQL Server 2008 Books Online.

See support.microsoft.com or Microsoft support services

PeopleSoft PeopleTools 8.53 and later releases require 64-bit Microsoft SQL Server and client software.

Note. If you are upgrading from an existing installation on Microsoft SQL Server 2005 please see the appendix “Upgrading to Microsoft SQL Server 2008.”

Task 1-8-1: Installing SQL Server 2008 on the Database Server

This task describes how to install Microsoft SQL Server 2008 on the database server. You may need to reboot your server after the installation.

Note. There are different editions of Microsoft SQL Server 2008. Make sure that the edition you install is appropriate for your requirements. Some editions are not compatible with certain operating systems. You can check the version and edition of your existing SQL Server installation by issuing the command ‘SELECT @@VERSION’ from SQL Server Management Studio. Consult the SQL Server Books Online and Microsoft support for more information about editions.

To install Microsoft SQL Server 2008 on the database server:

1. If you want to uninstall your previous Microsoft SQL Server software before installing Microsoft SQL Server 2008, you can use Control Panel, Add/Remove Programs.

Note. We recommend that you install only one SQL Server version per server. This should simplify the administration. However, in some instances you may need to install multiple versions, and it is possible to have side-by-side installations of different versions of Microsoft SQL Server.

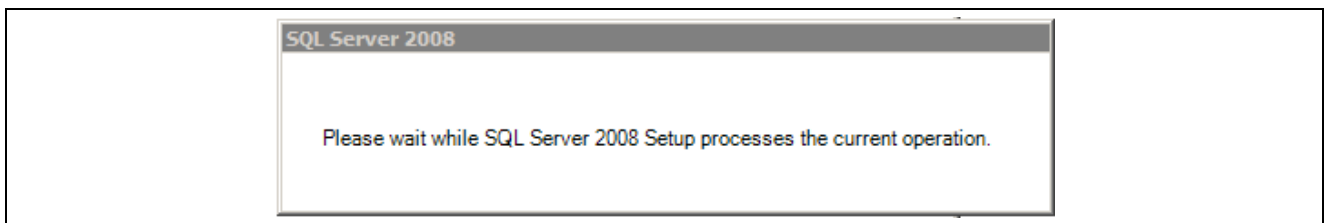
2. Insert the Microsoft SQL Server 2008 DVD into the DVD drive.

The installation should start automatically, but if it does not, run `setup.exe` from the DVD-ROM's directory.

The first part of the installation delivers the software components, which are a prerequisite to use SQL Server. Windows Installer 4.5 and .NET Framework 3.5 SP1 are prerequisites for the SQL Server 2008 setup. The system needs a reboot after installing .NET Framework 3.5 SP1 and Windows Installer 4.5. Please install .NET Framework 3.5 SP1 and Windows Installer 4.5 and reboot the system before installing SQL Server 2008.

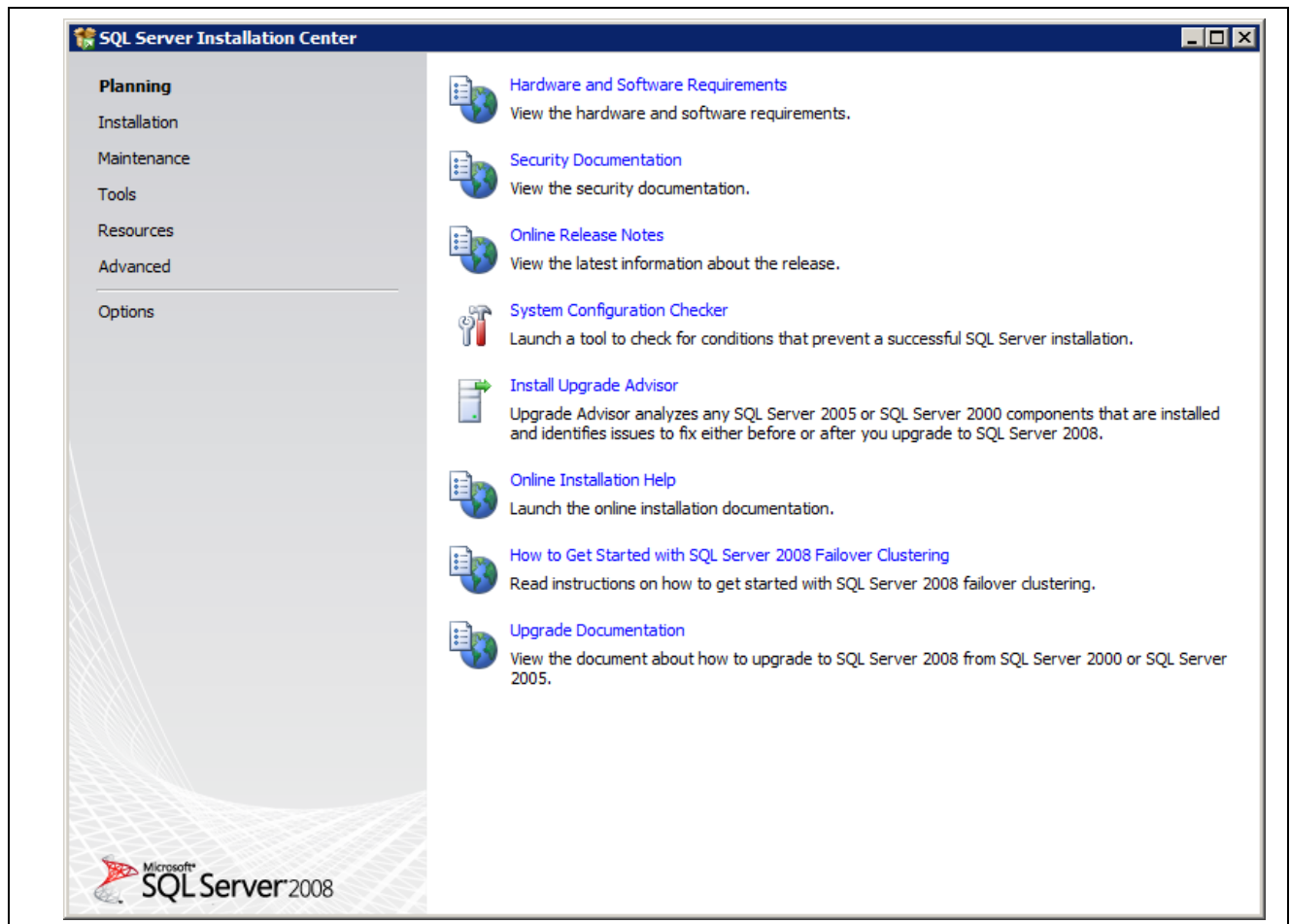
3. Select `setup.exe`.

An initialization window appears, followed by the SQL Server Installation Center window.



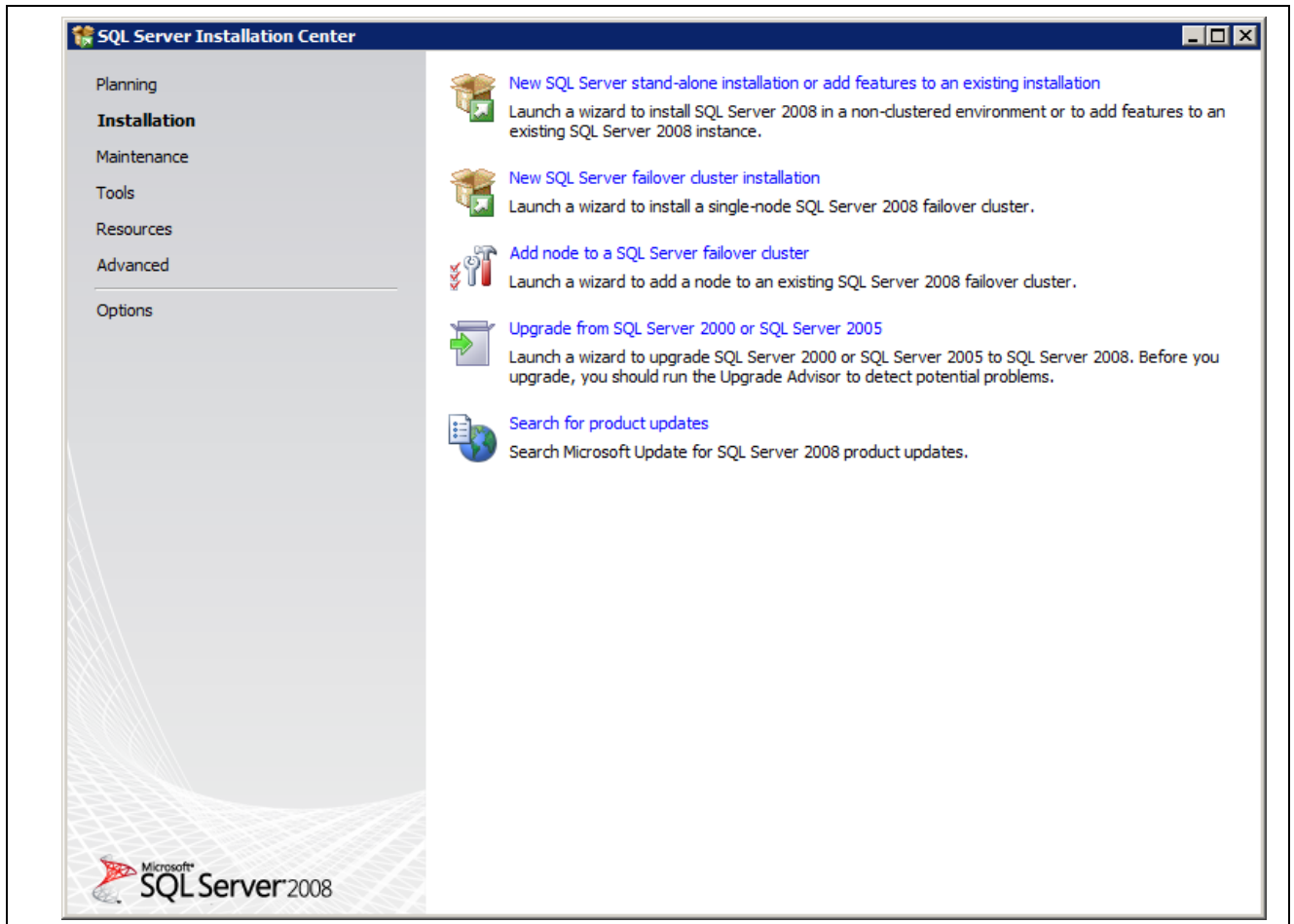
SQL Server 2008 initialization window

4. Select the Installation link at the top left.



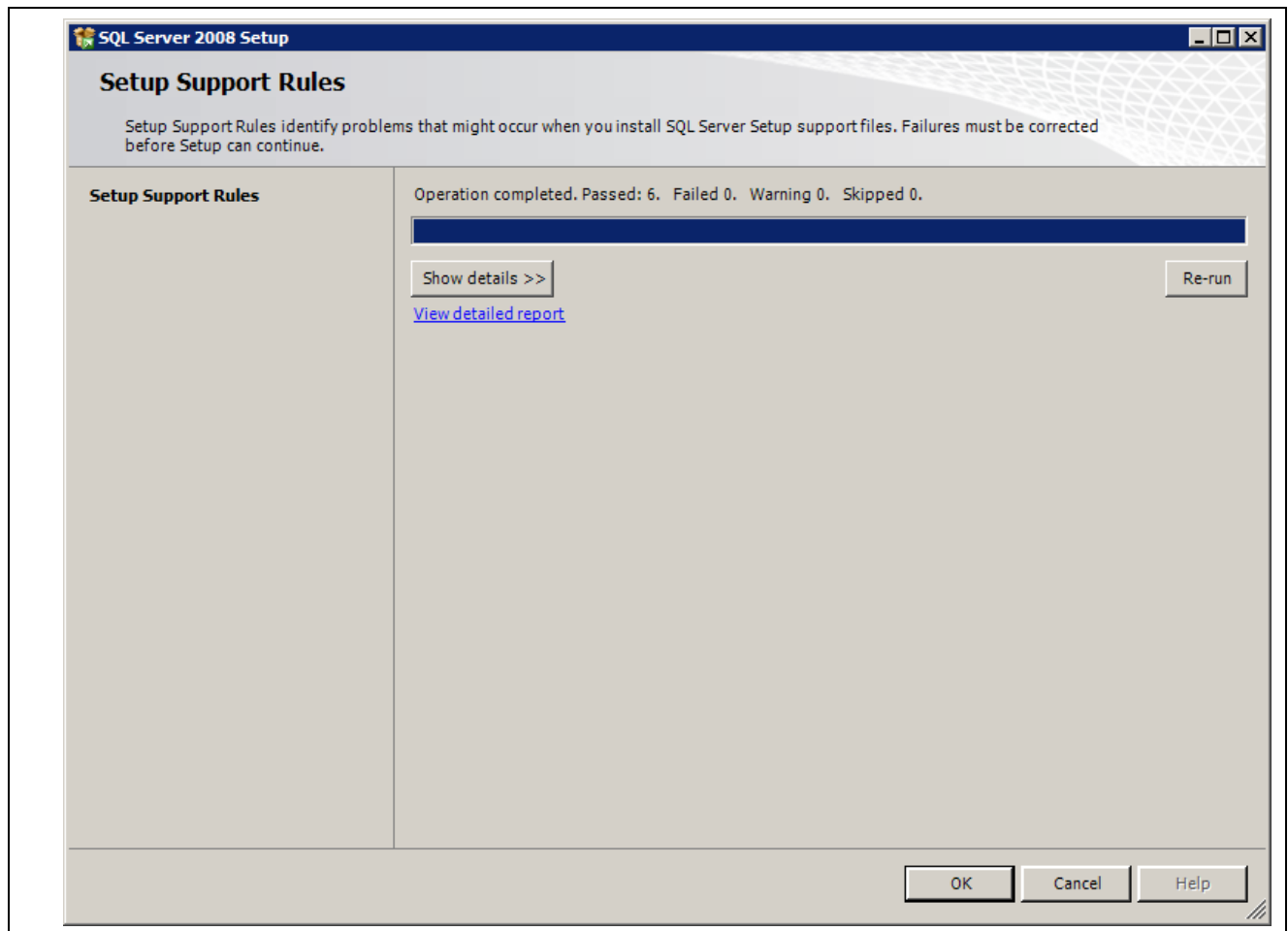
SQL Server Installation Center window

5. Select the link New SQL Server stand-alone installation or add features to an existing installation.



Installation options on the SQL Server Installation Center window

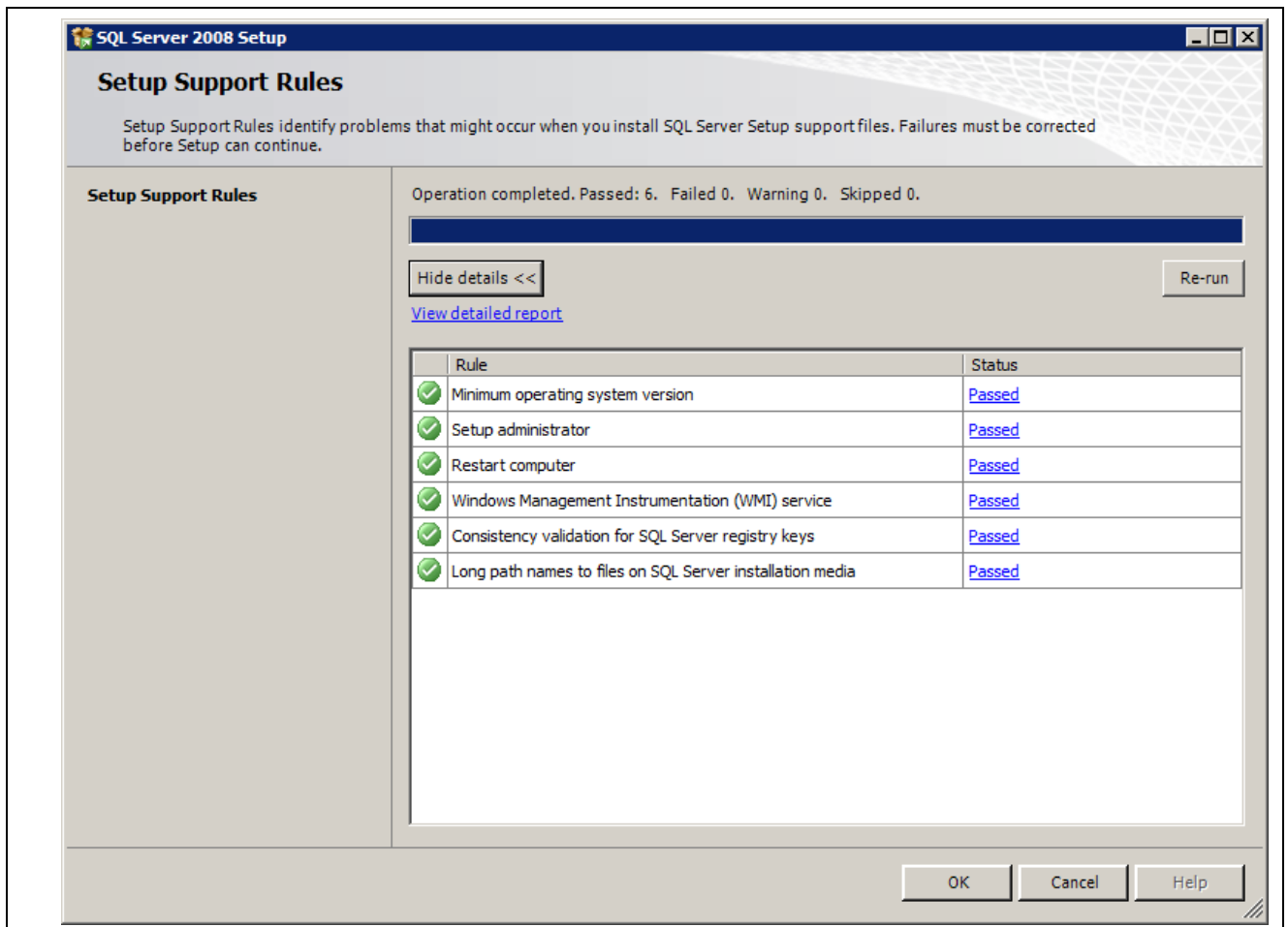
The Setup Support Rules window appears showing the progress of the initialization.



Setup Support Rules window

6. When the operation completes, click Show details.

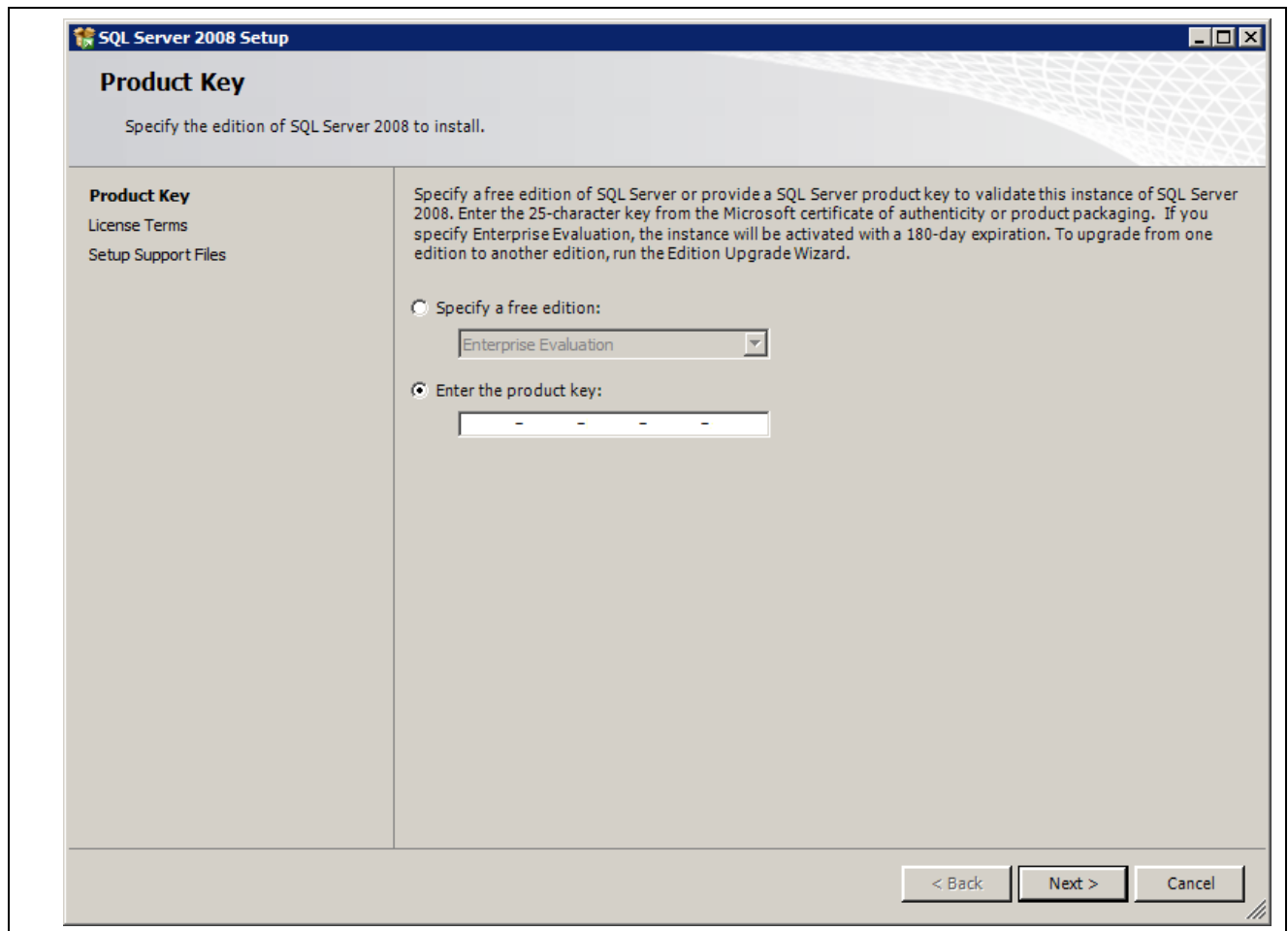
Verify that all the listed Rules display Passed in the Status column. If any one of them has not passed, select the link in the Status column to check the reason for the failure.



Setup Support Rules with details displayed

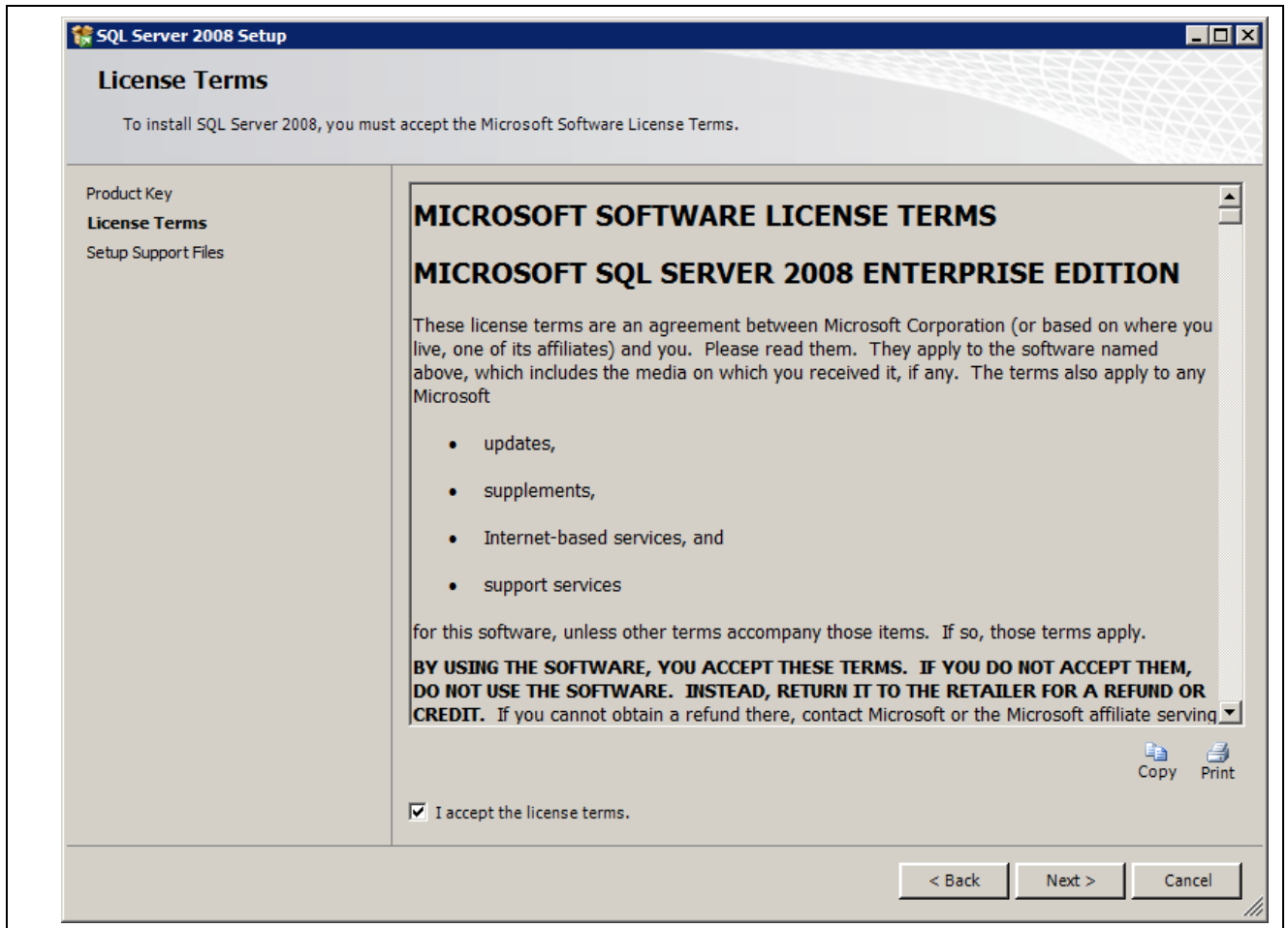
7. Click OK.

The Product Key window appears. Enter your product key value. If it is already populated, ignore this step and click Next to continue to the License Terms screen.



Product Key window

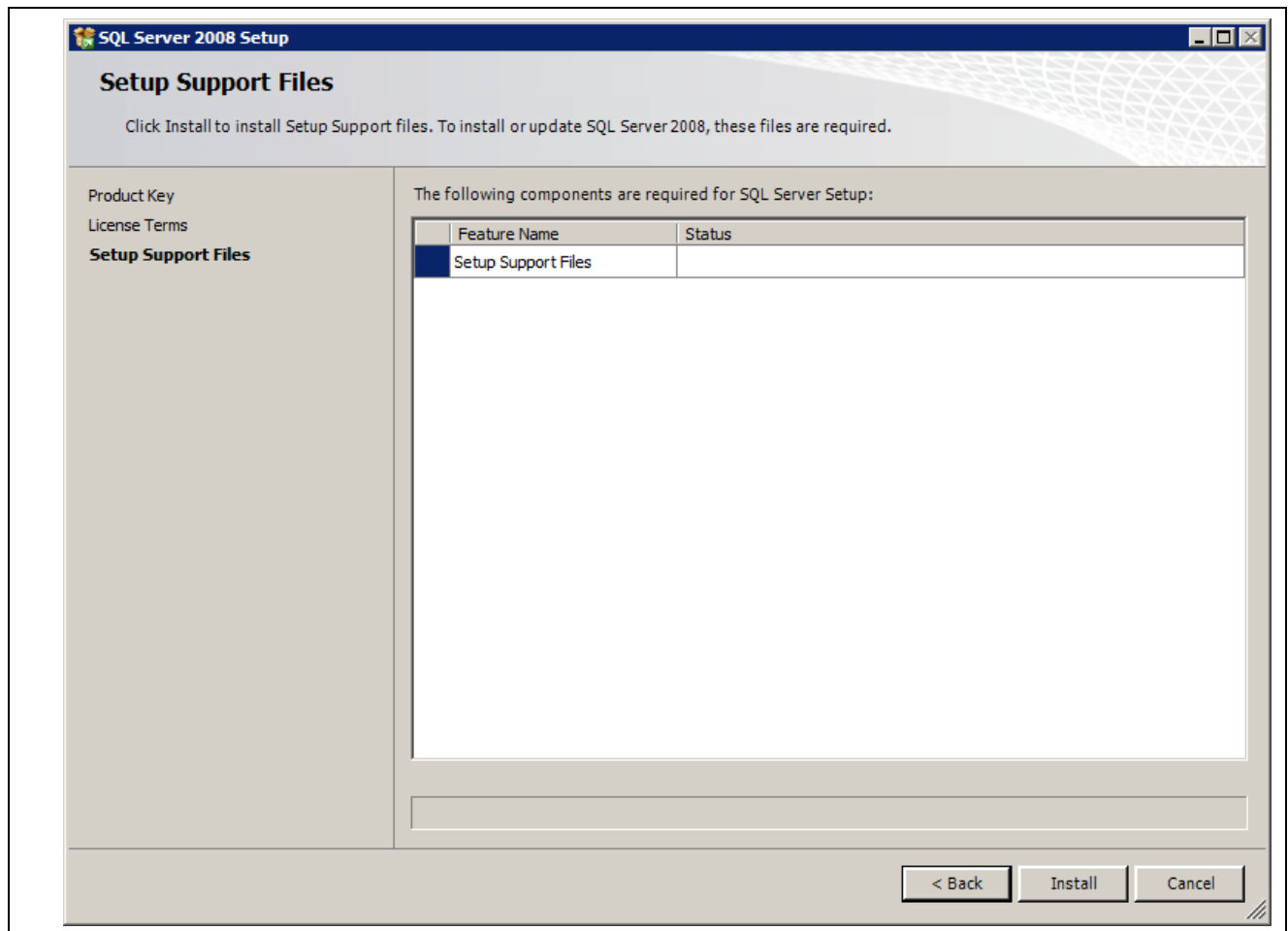
8. Read the terms and conditions carefully and select the check box I accept the license terms.



License Terms window

9. Click Next.

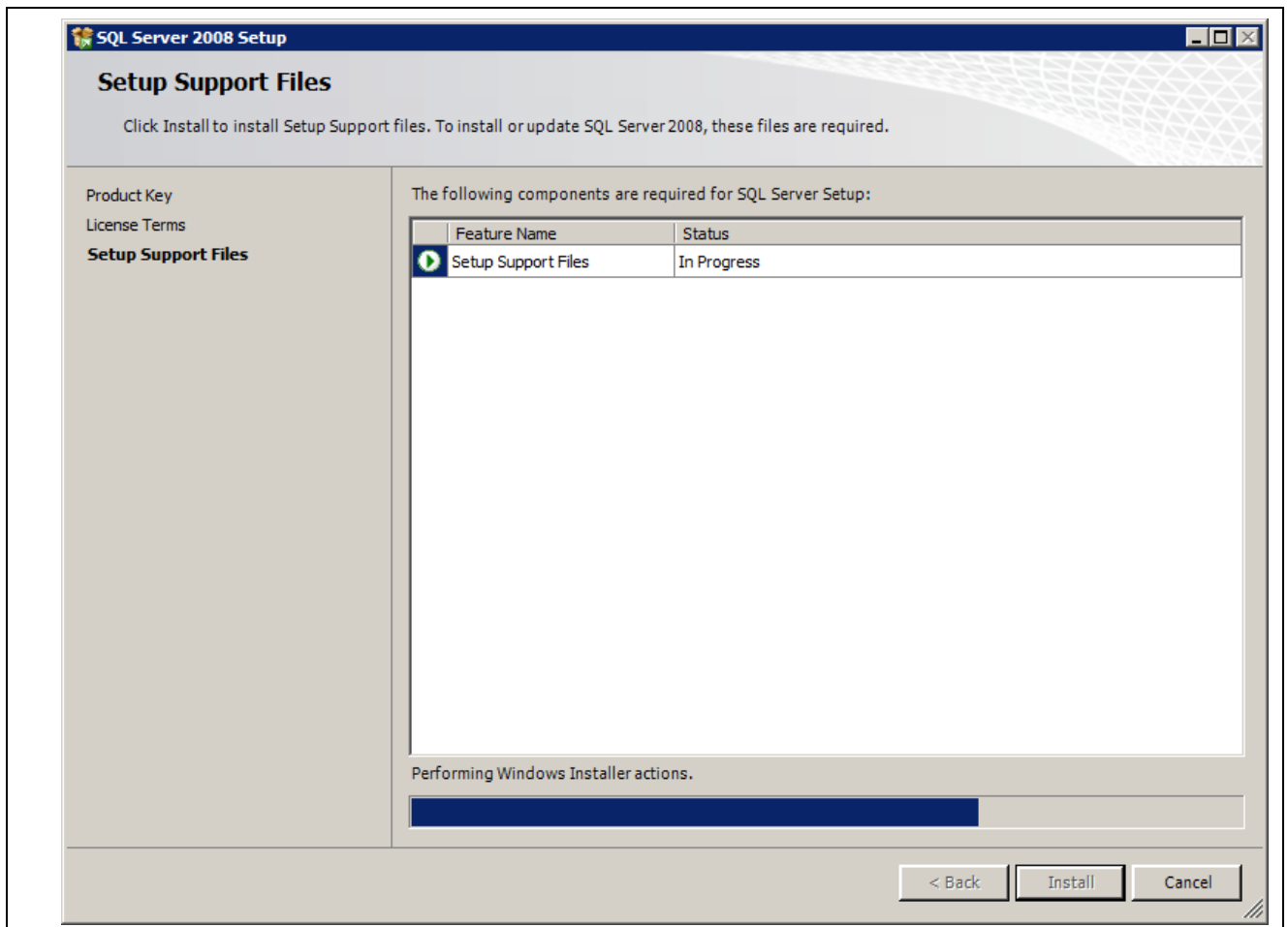
The Setup Support Files window appears.



Setup Support Files window

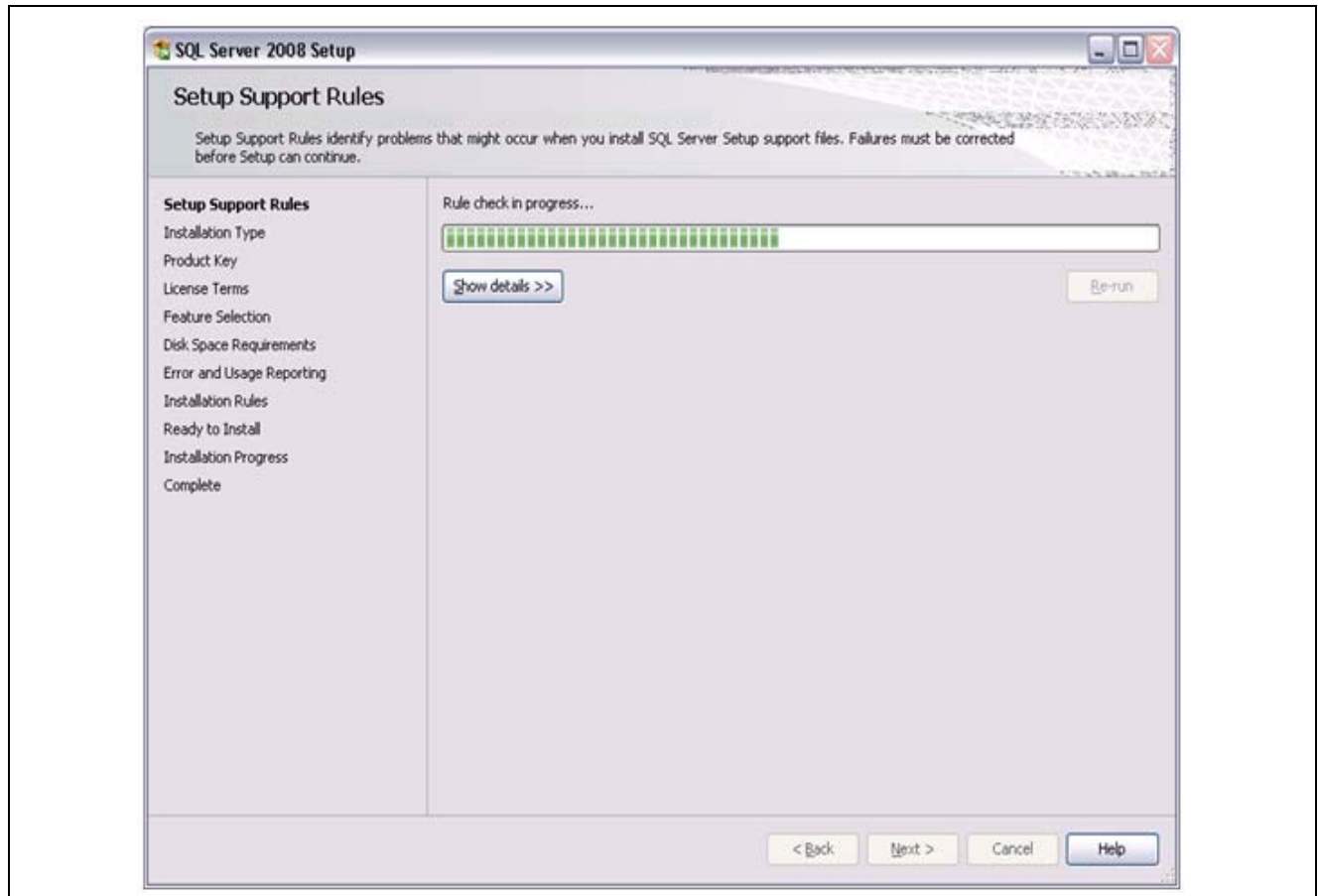
10. Click Install.

A progress indicator appears at the bottom of the window.



Setup Support Files window with progress indicator

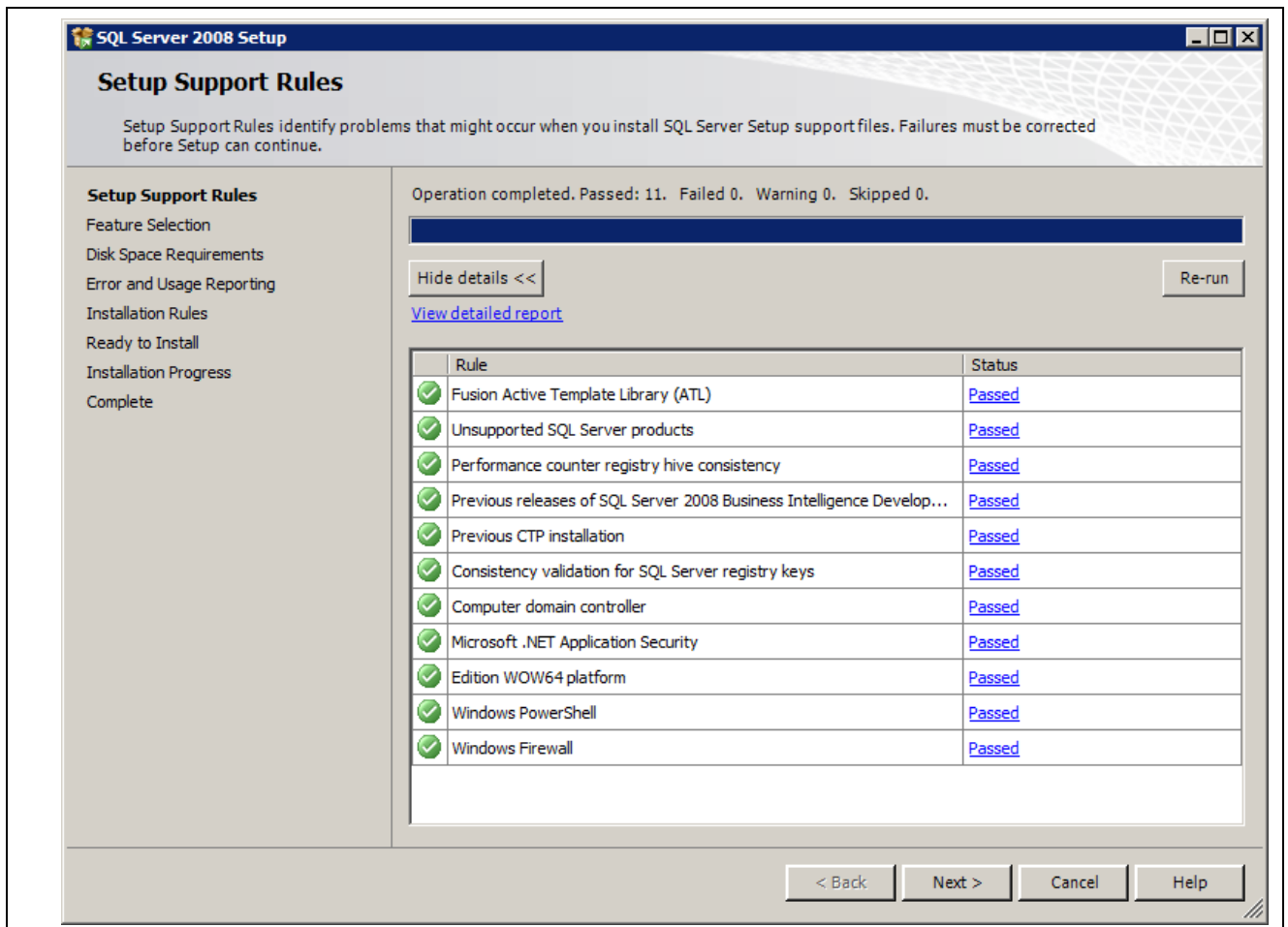
When the operation completes, the Setup Support Rules window appears with a progress indicator.



Setup Support Rules window displaying rule check progress

11. When the rule check finishes, click the Show details button to verify that all of the setup support rules passed successfully.

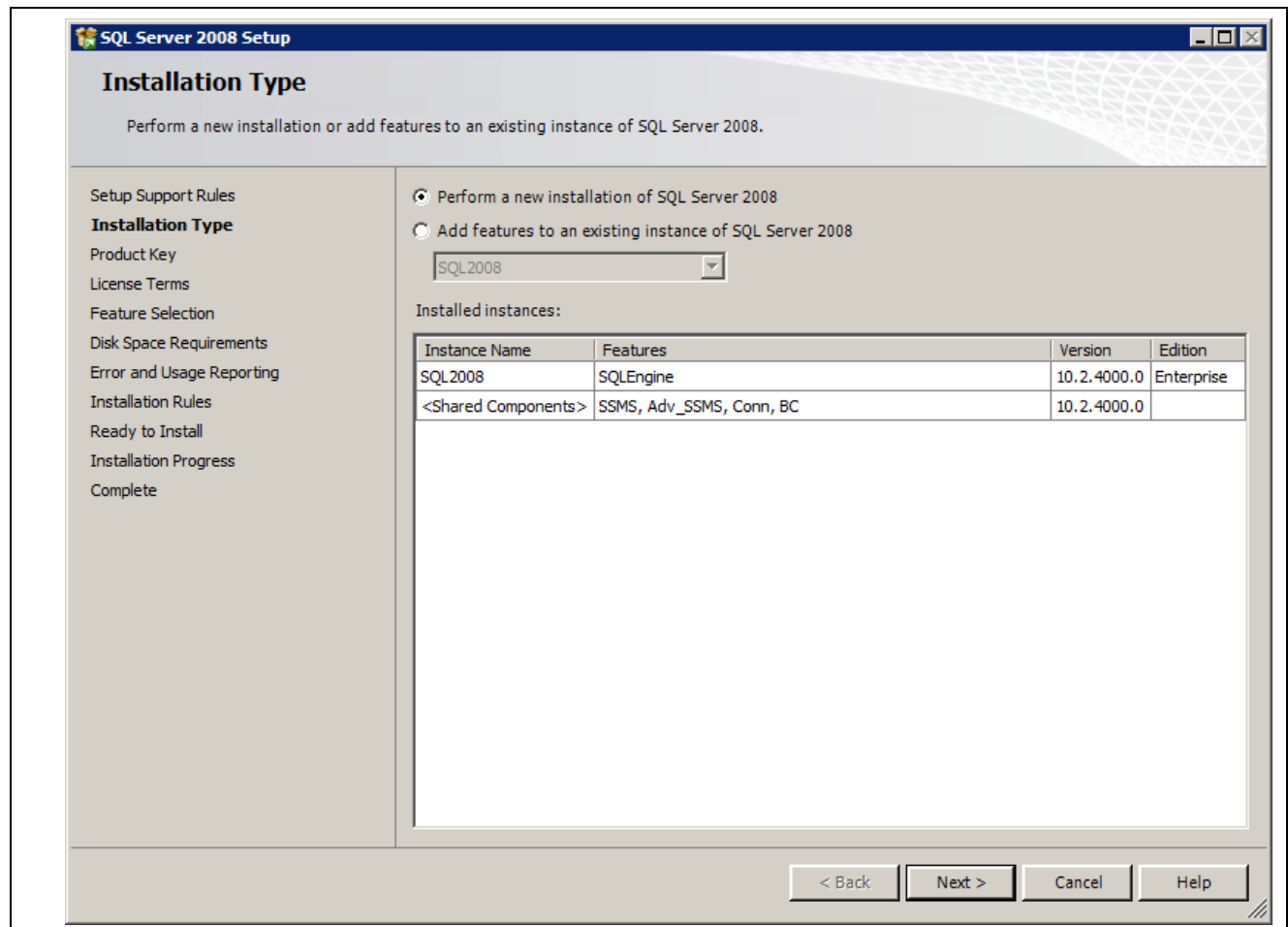
If any of the rules have not passed, click the link in the Status column to check the reason for the failure.



Setup Support Rules window displaying details

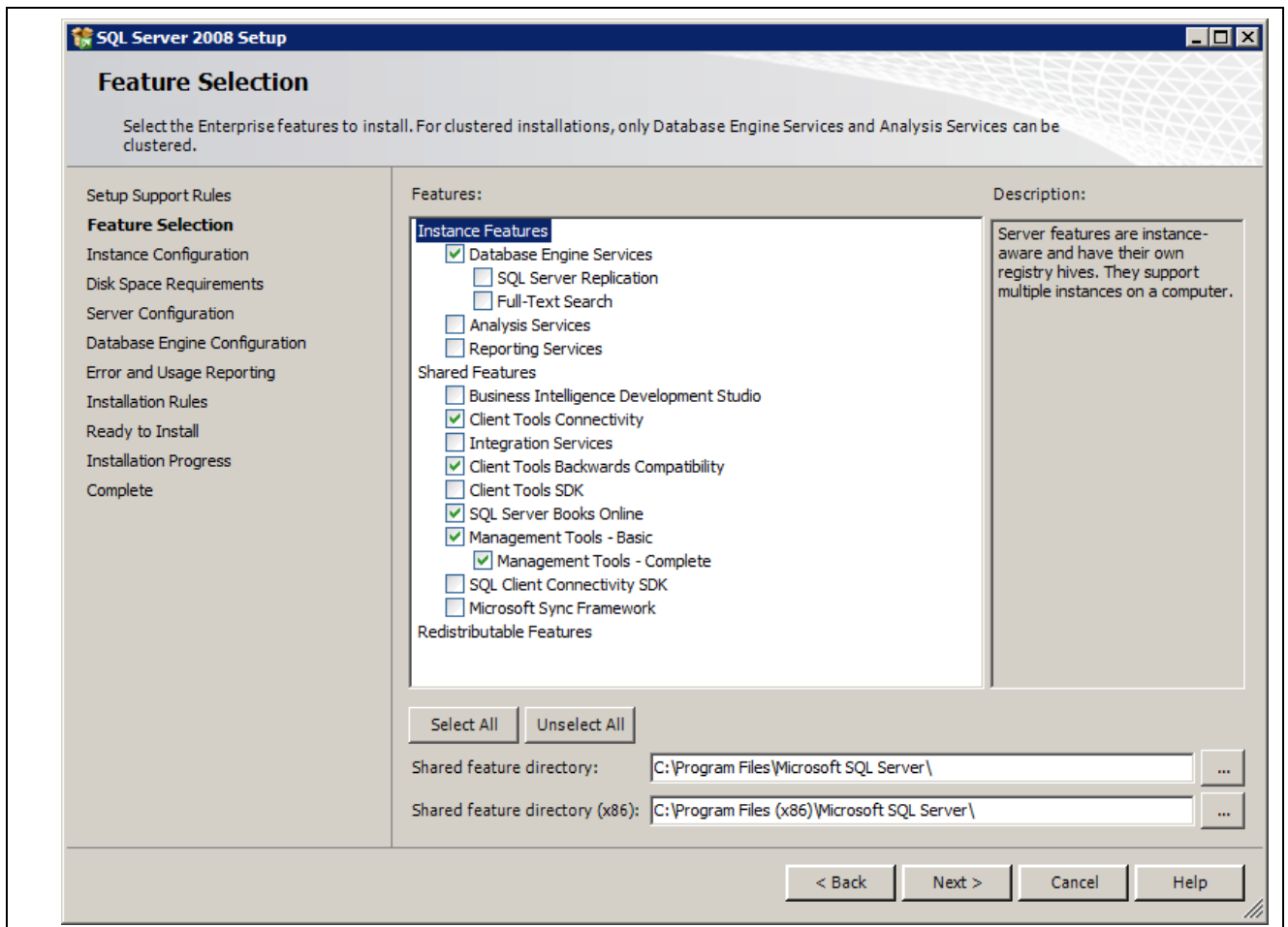
12. Click Next to proceed.

The Installation Type window appears.



Installation Type window

13. Select the radio button Perform a new installation of SQL Server 2008 and click Next.



Feature Selection window

A Feature Selection window appears that lists all the features of Microsoft SQL Server 2008 that need to be installed. For your PeopleSoft installation, select the following features (these are the minimum requirements):

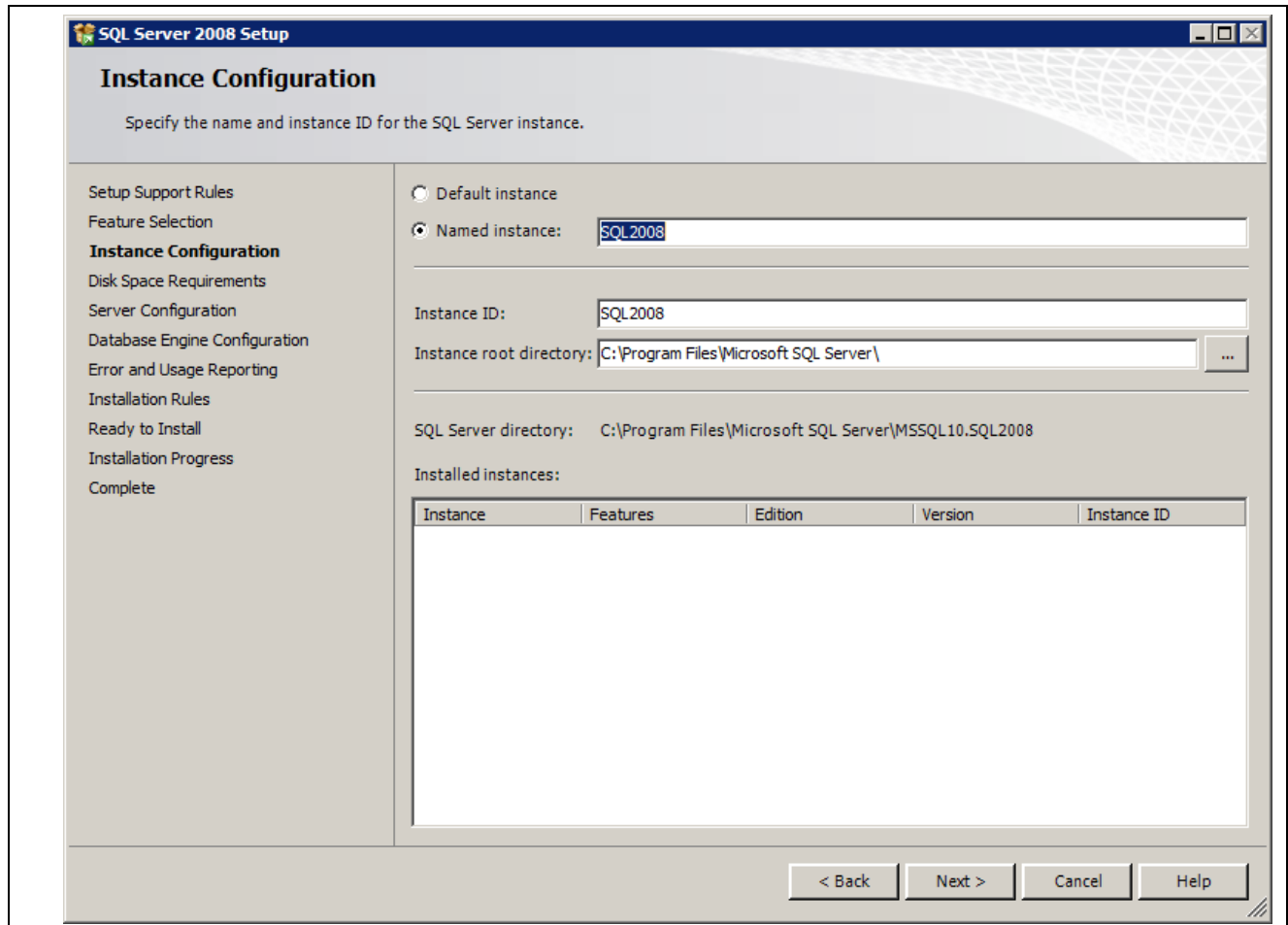
- Database Engine Services
- Client Tools Connectivity
- Client Tools Backward Compatibility
- SQL Server Books online (this is optional)

14. Clear the check boxes beside the following features:

- SQL Server Replication
- Full Text Search
- Analysis Services
- Reporting Services
- Microsoft Sync Framework
- SQL Server Books online (optional)
- Business Intelligence Development Studio
- Integration Services

15. Click Next to proceed.

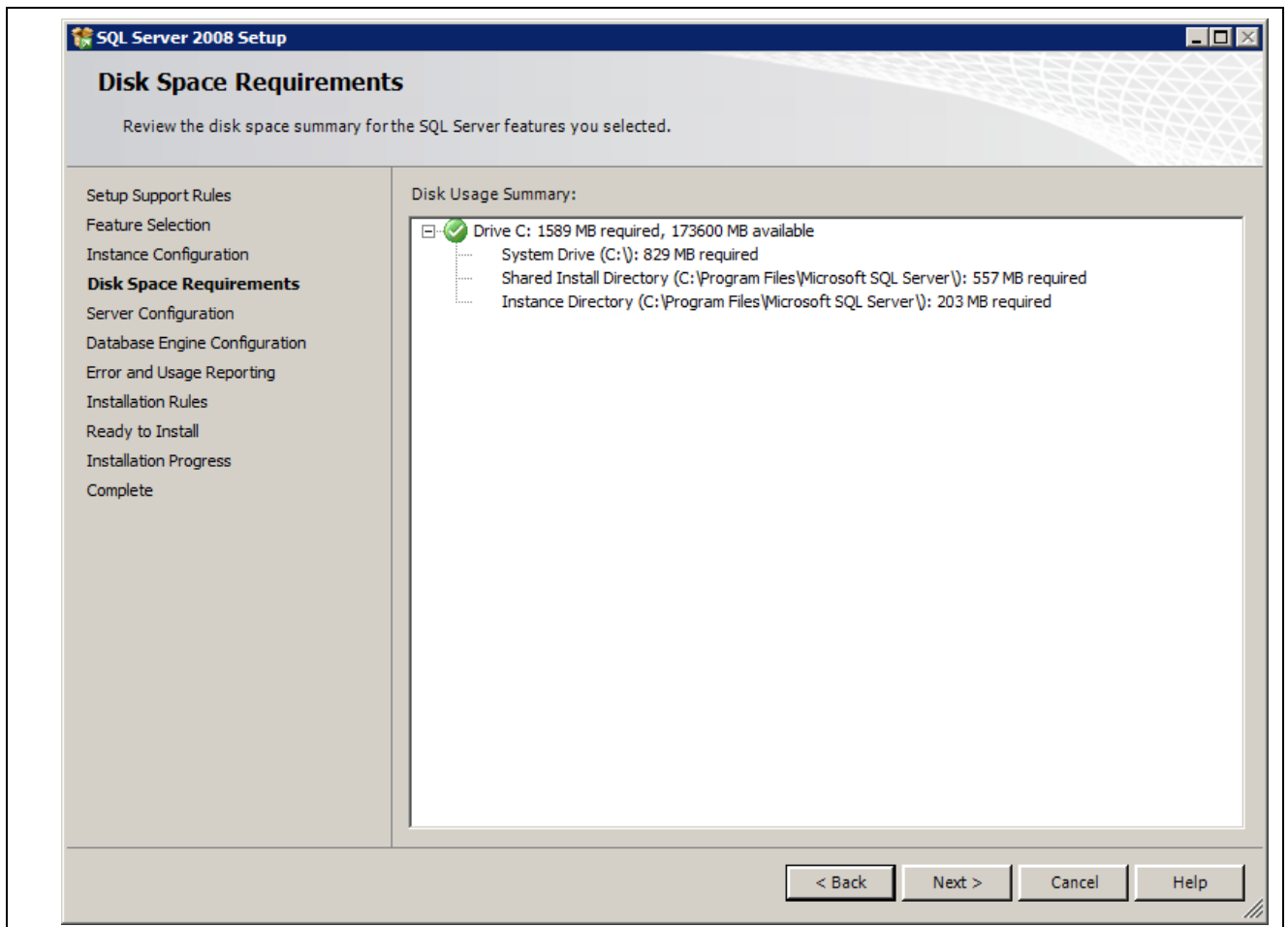
The Instance Configuration window appears. Select the Named instance option and enter *SQL2008* as the name. Specify a location for the Instance root directory. Due to the size requirements for database installations, it is recommended that you change to a location other than the default location. (This example shows the default directory, however.)



Instance Configuration window

16. Click Next.

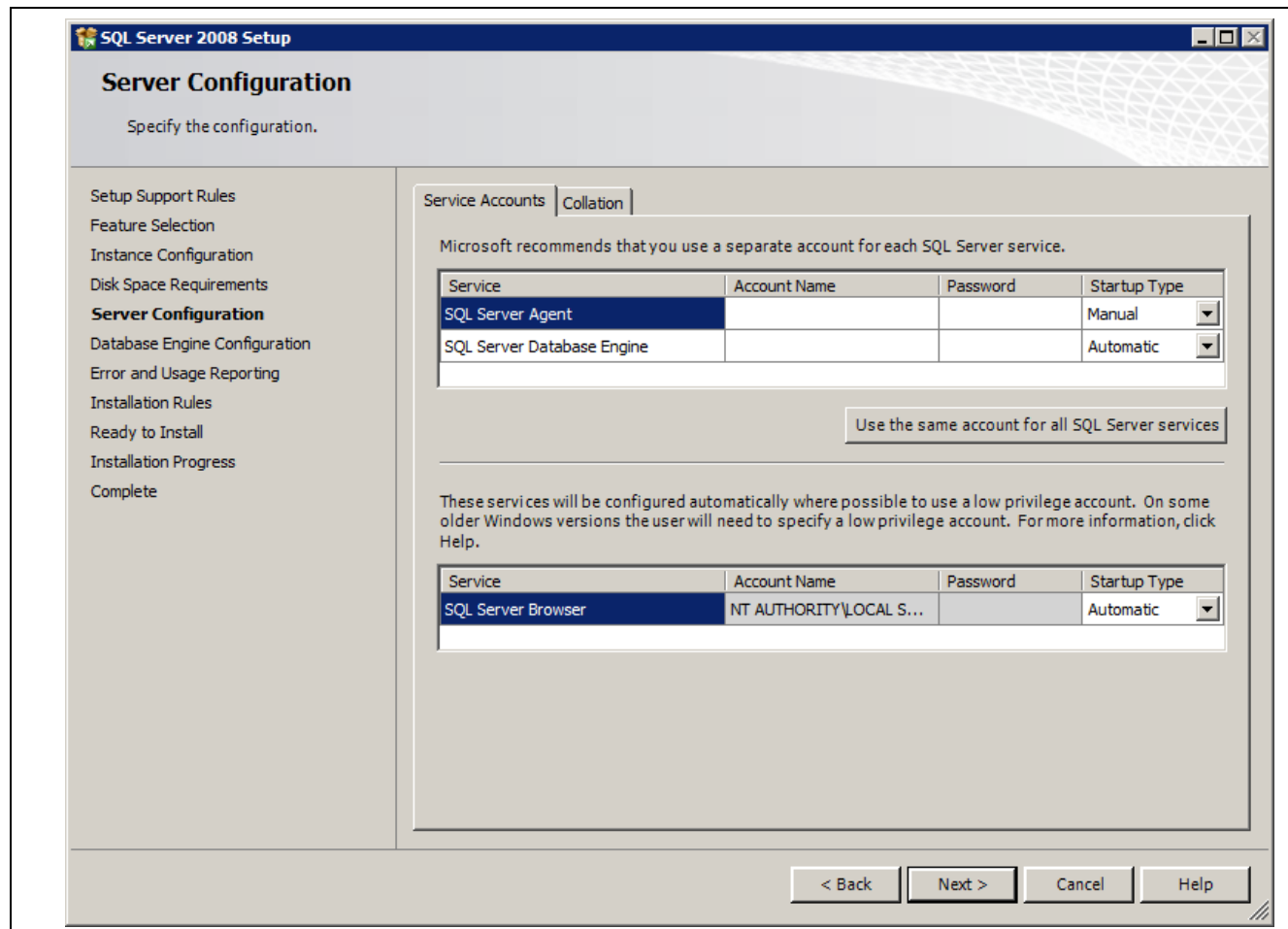
The Disk Space Requirements window appears. Total space required is approximately 1.5 GB.



Disk Space Requirements window

17. Click Next.

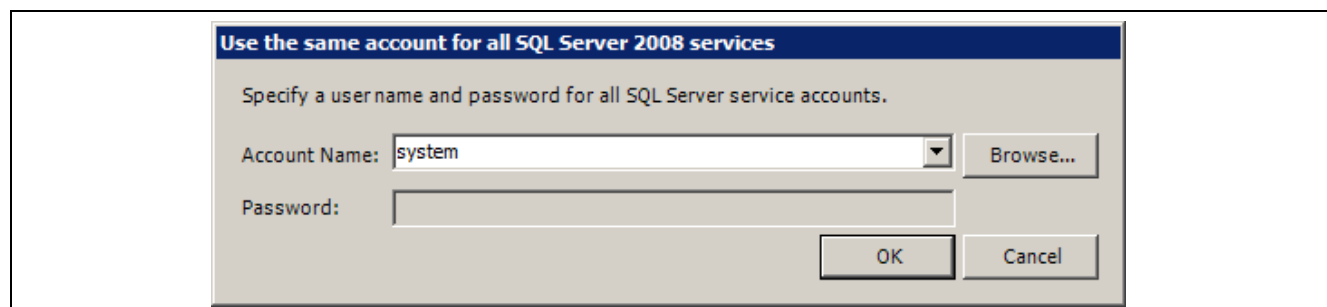
The Server Configuration window appears.



Server Configuration window

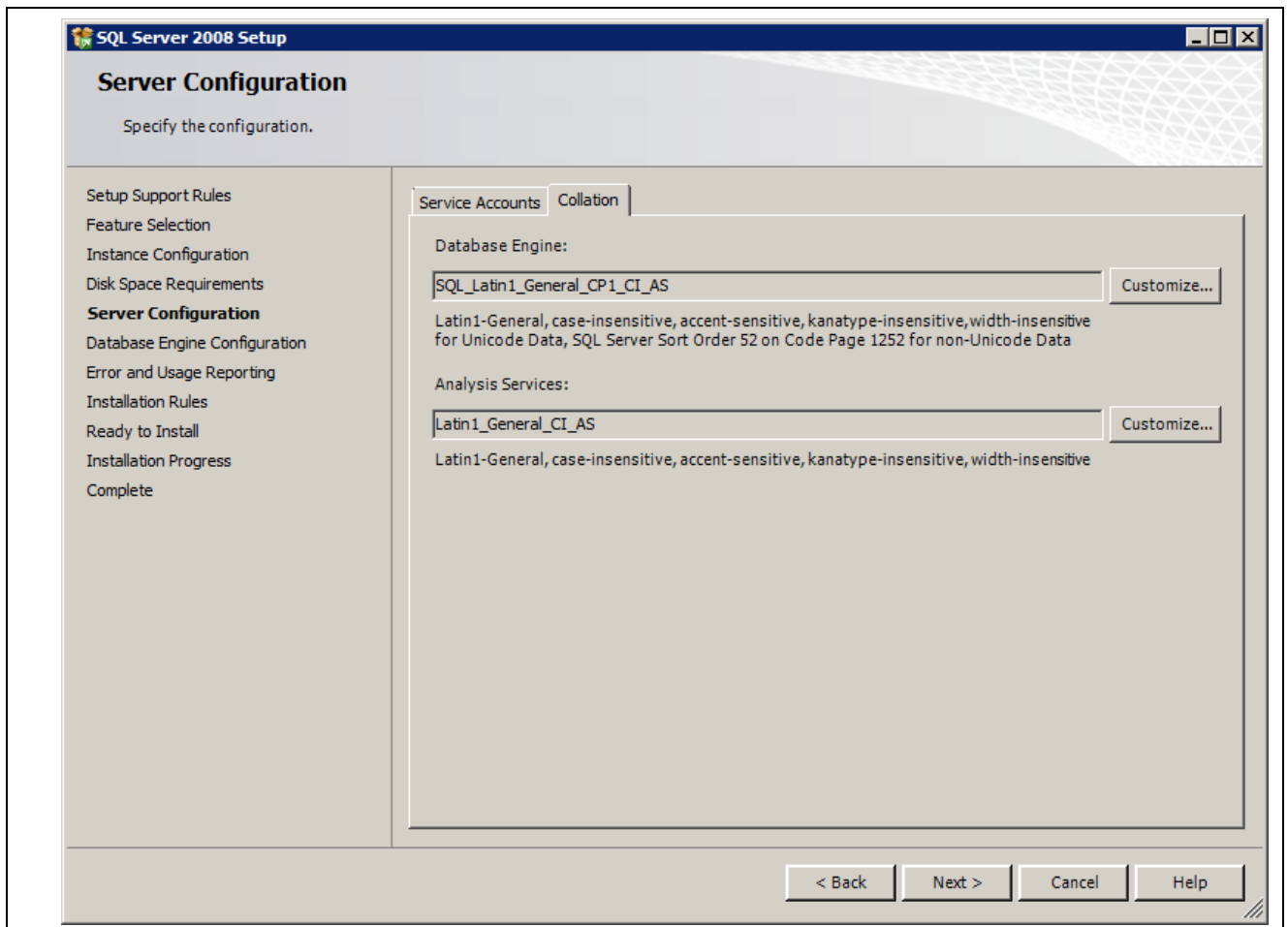
18. Use a local system account by clicking Use the same account for all SQL Server Services; this applies to SQL Server Agent and SQL Server Database service.

A dialog box appears asking for an account name and password. Oracle recommends the use of a local system account to start and stop SQL Server. In this example the Account Name is system, and there is no entered password.



Use the same account for all SQL Server 2008 services dialog box

19. On the Server Configuration window, select the Collation tab.

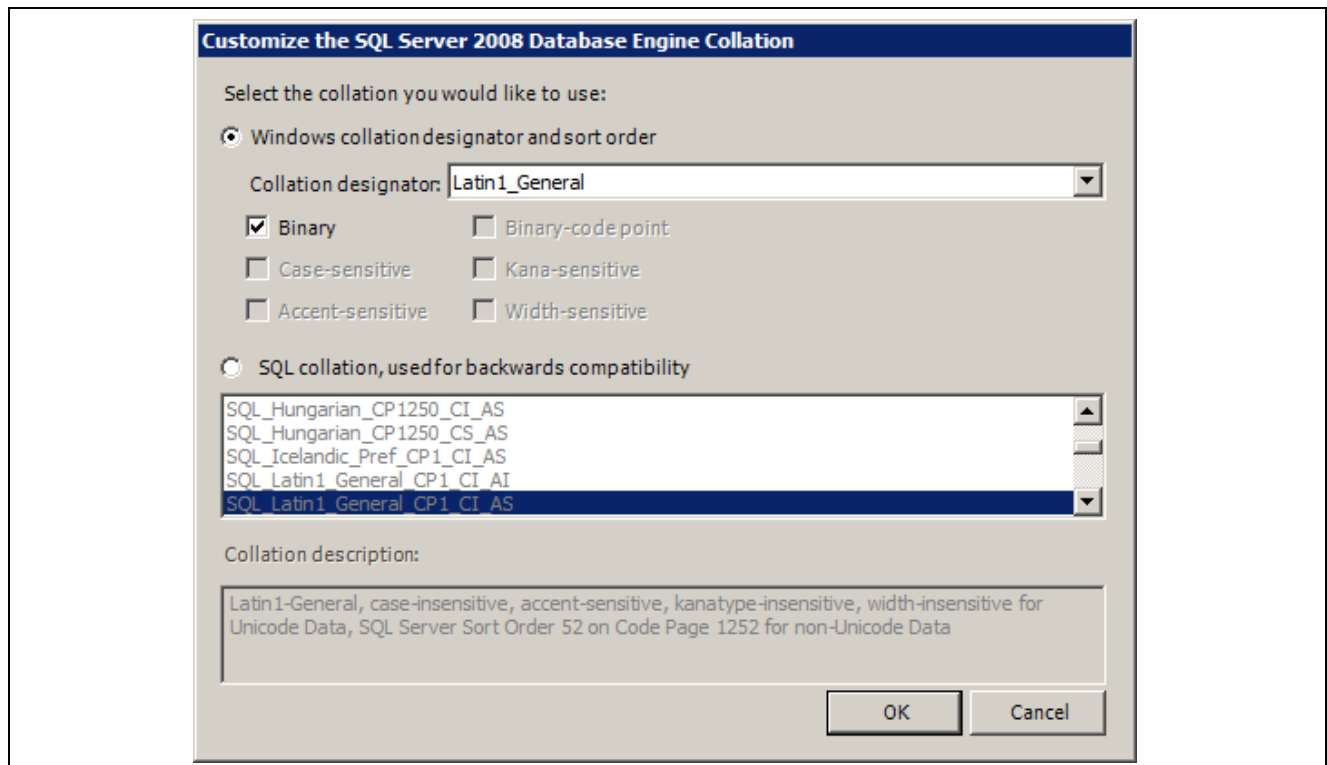


Collation page on the Server Configuration window

20. Click Customize beside Database Engine to change the default collation, SQL_Latin1_General_CP1_CI_AS.

On the Customize the SQL Server 2008 Database Engine Collation dialog box, select the option Windows collation designator and sort order. Select *Latin1_General* as the Collation designator, and the Binary option.

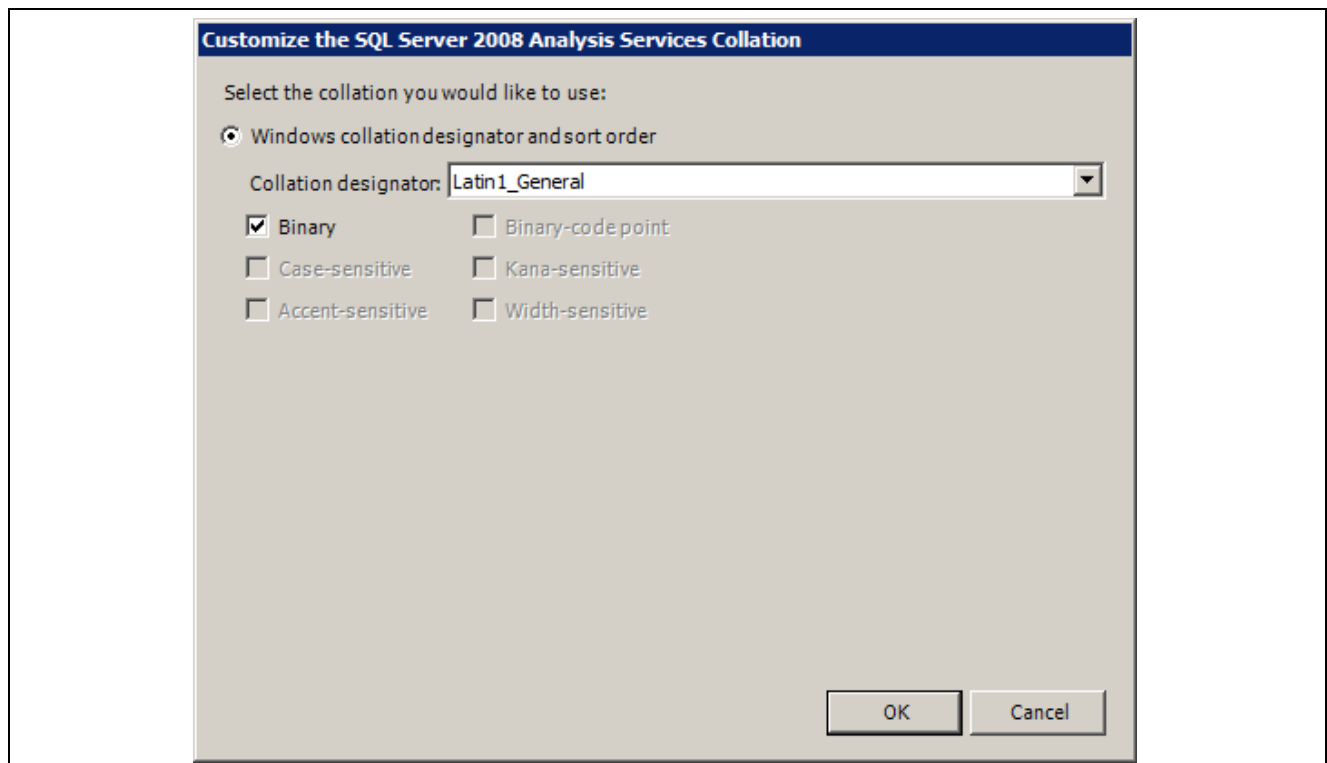
Selecting these options changes the collation to *Latin1_General_Bin*. Your collation designation may vary if you are not using English.



Customize the SQL Server 2008 Database Engine Collation dialog box

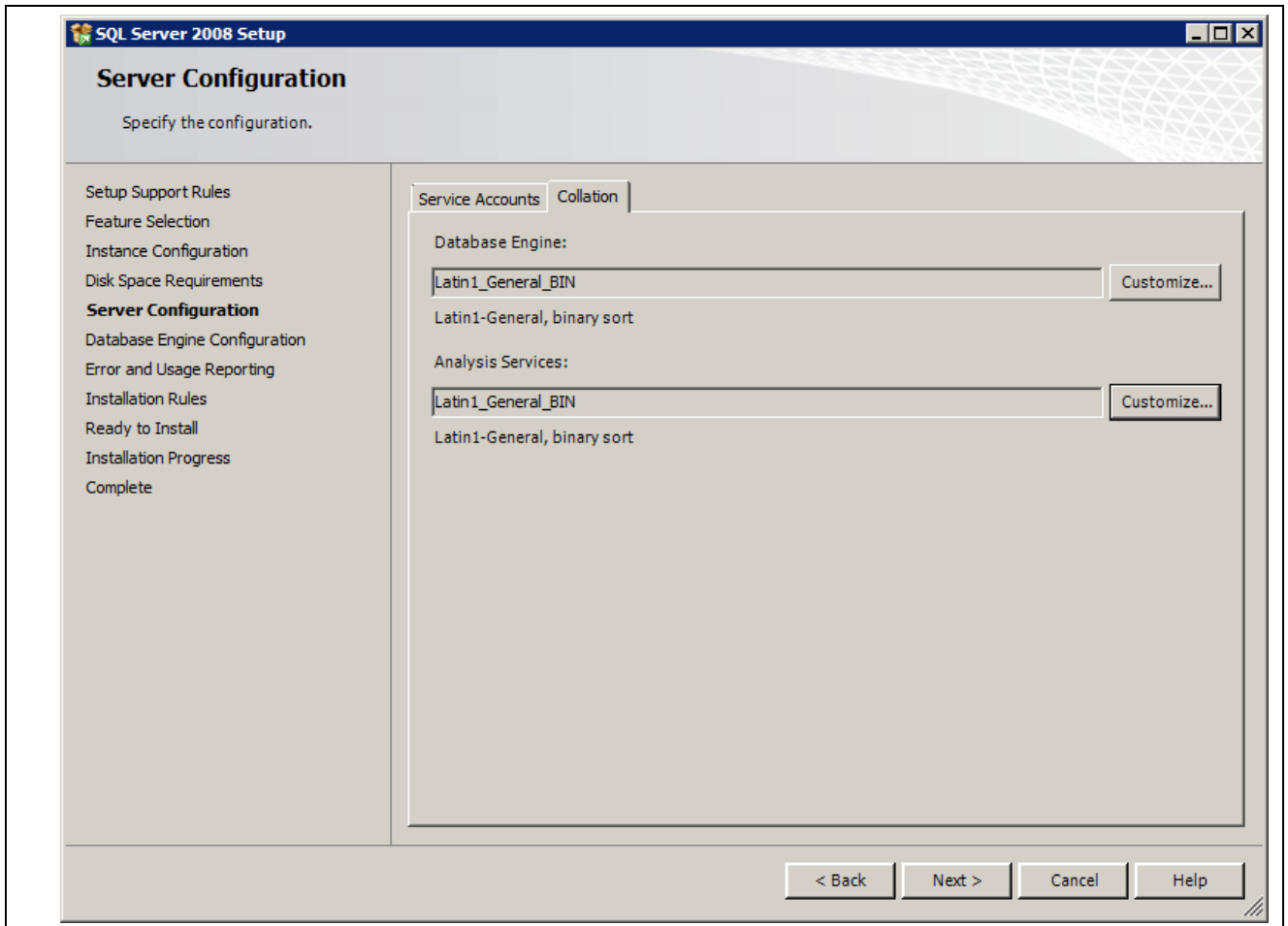
21. Click OK.

Repeat the previous step for Analysis Services.



Customize the SQL Server 2008 Analysis Services Collation dialog box

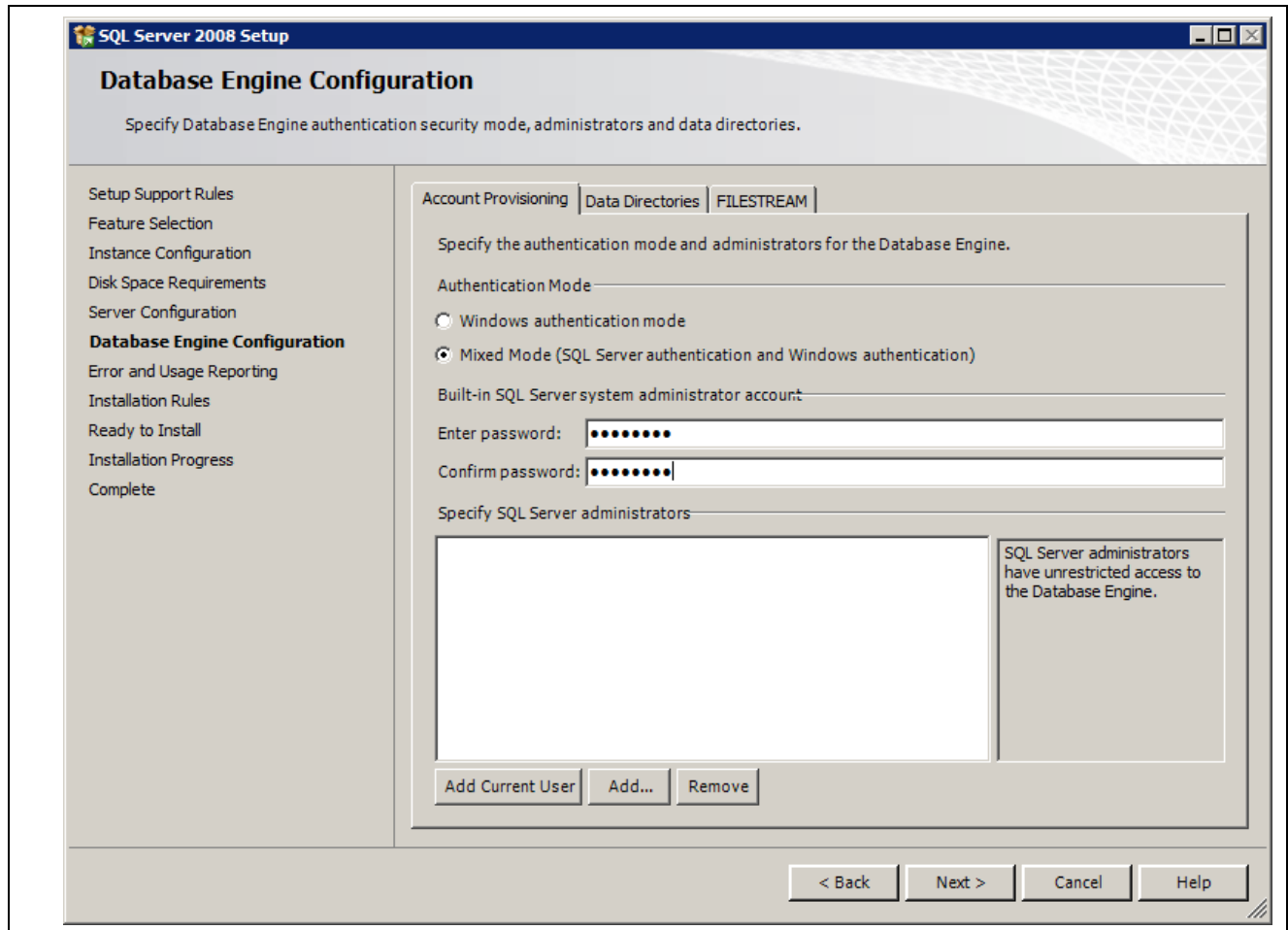
Verify on the Collation page that the collation is Latin1_General_BIN, Latin1-General, binary sort for both.



Verifying the collation settings on the Server Configuration window

22. Click Next to proceed.

The Database Engine Configuration window appears. Select the Mixed Mode option in the Authentication Mode area.



Database Engine Configuration window

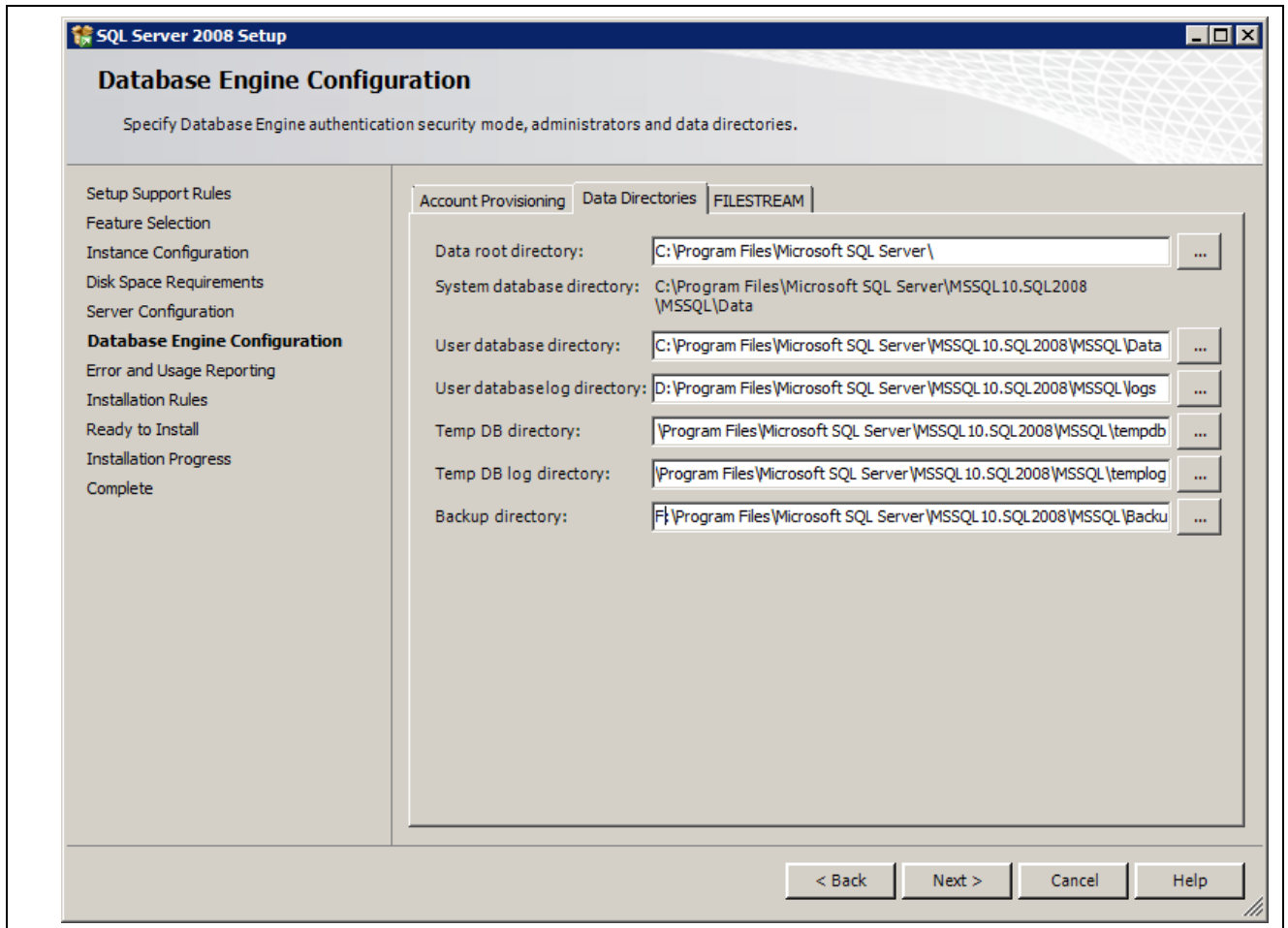
23. Enter and confirm a secure *sa* password.

The password needs to meet password policy requirements given in the SQL Server 2008 Books Online

24. Click Add Current User and select the user under whose account the setup is running.

25. Select the Data Directories tab.

The directories included on this page should reside on separate drives. Verify that the User database directory and the User database log directory are located in separate directories and on two different drives. In addition, the Temp DB directory and Temp DB log directory should be on a separate, third drive, and if possible, the Backup directory on a fourth drive.



Data Directories page on the Database Engine Configuration window

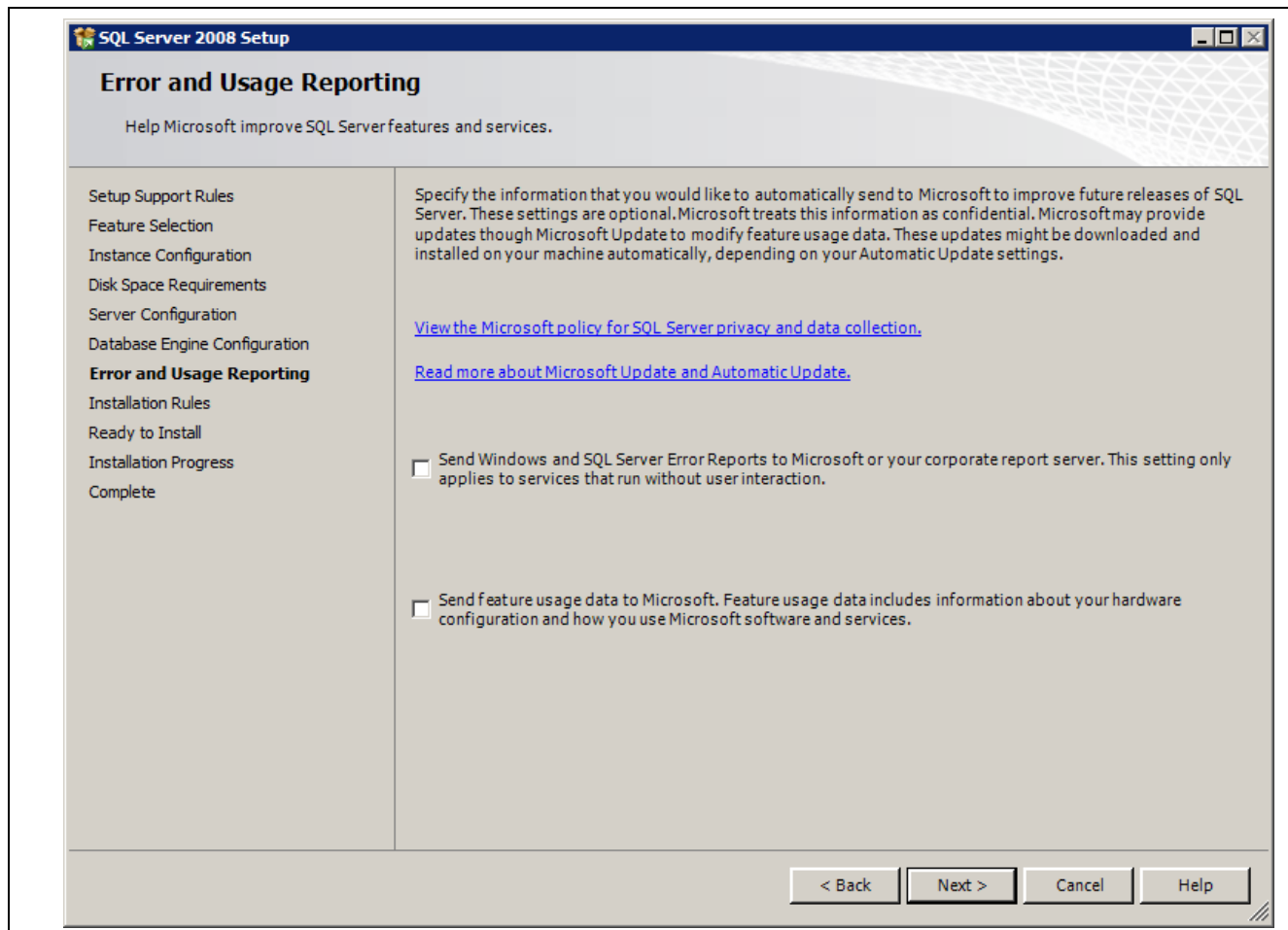
Consult the Microsoft support site, support.microsoft.com, for recommendations and best practices for the physical layout of database files, transaction log files, and tempdb.

See Microsoft SQL Server I/O subsystem requirements for the tempdb database, <http://support.microsoft.com/kb/917047/en-us>

See SQL Server 2000 Operations Guide: Capacity and Support Management, <http://www.microsoft.com/technet/prodtechnol/sql/2000/maintain/sqlops6.mspx>

26. Click Next.

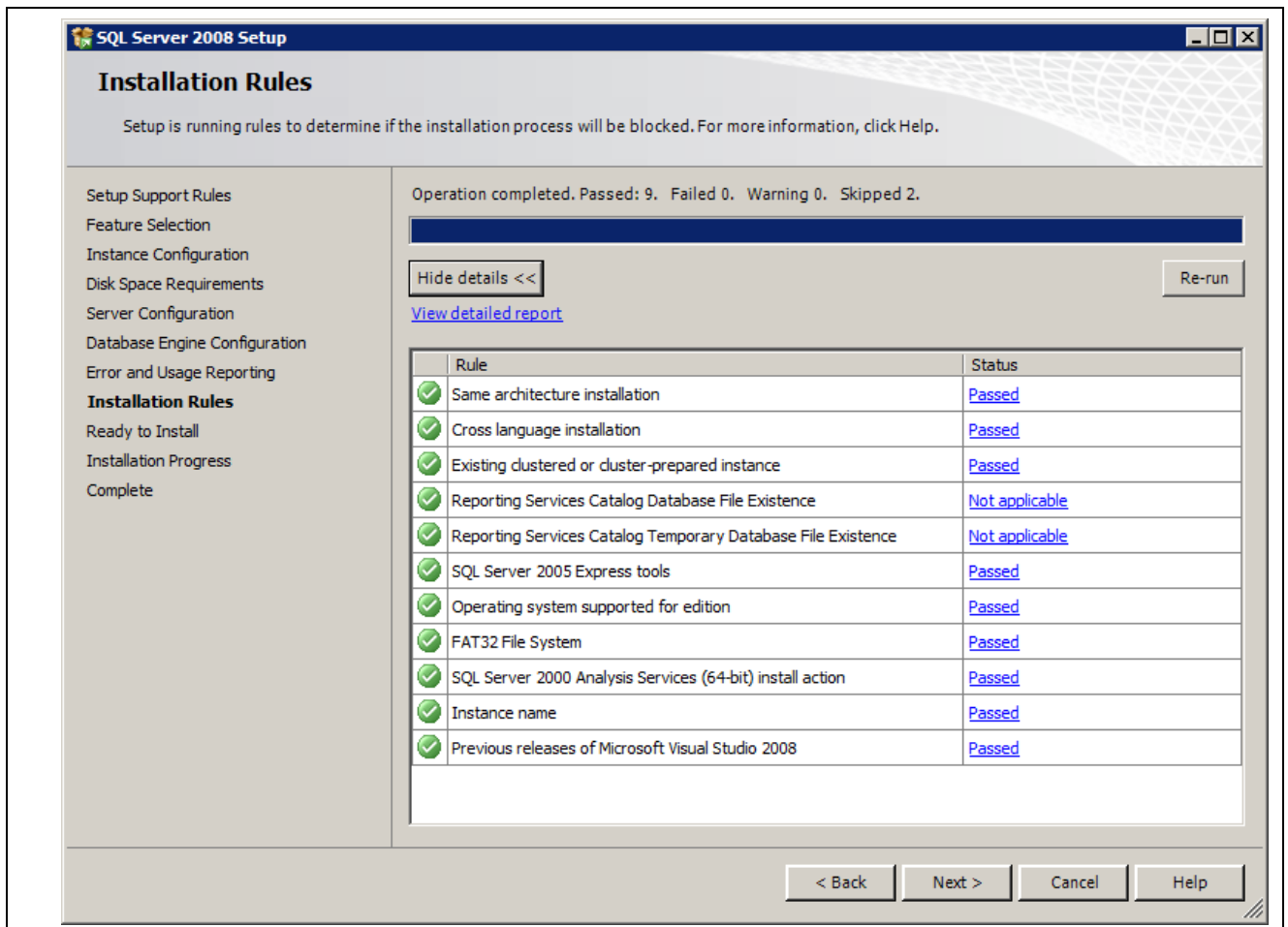
The Error and Usage Reporting window appears. If desired, select the options to send error reports or anonymous feature usage data to Microsoft.



Error and Usage Reporting window

27. Click Next.

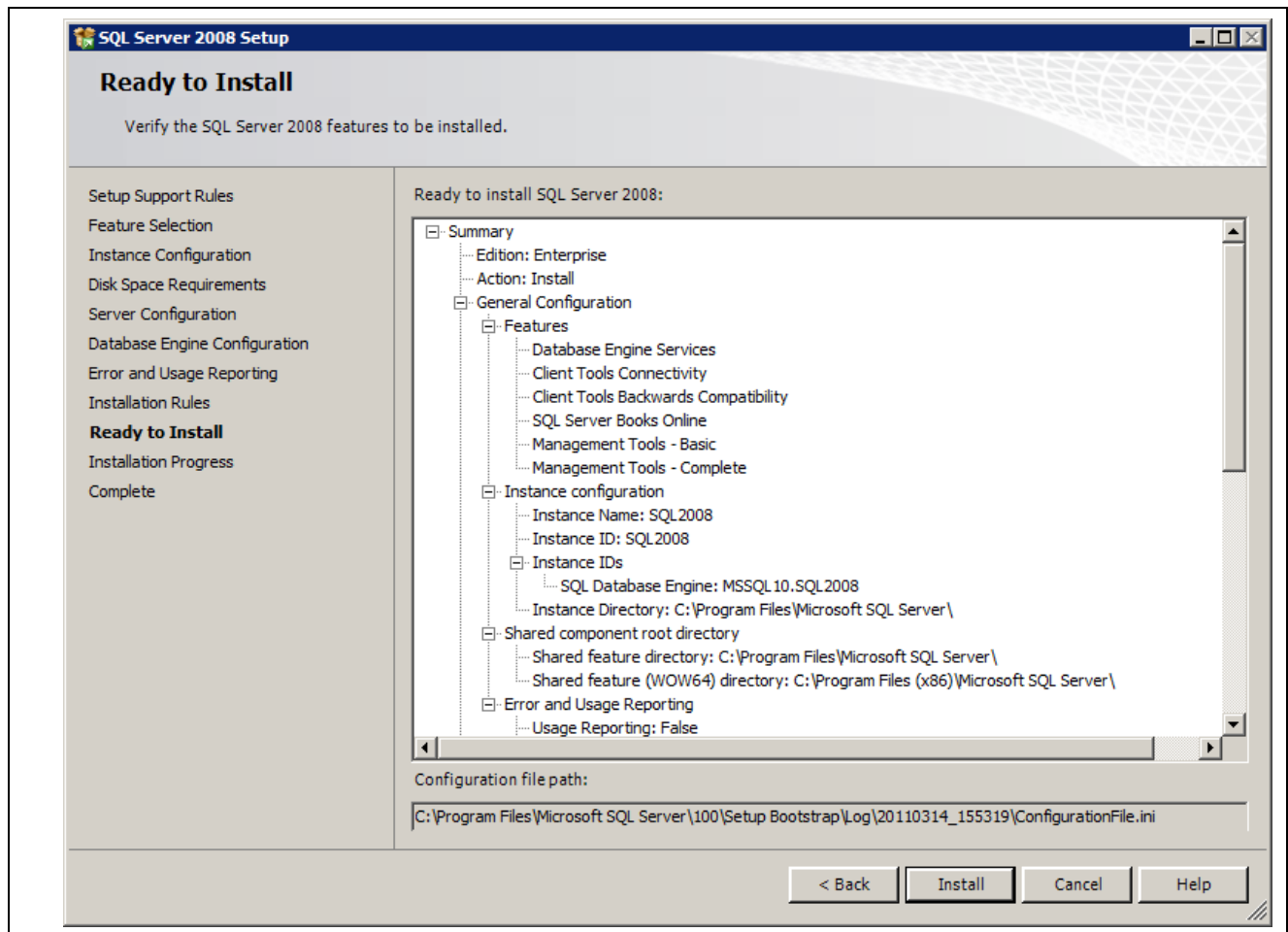
The Installation Rules window appears. Wait for all of the installation rules to pass successfully. All of the rules should have Passed in the Status column. If any rule does not pass, select the link in the Status column to check the reason for the failure.



Installation Rules window with Operation Completed message

28. Click Next.

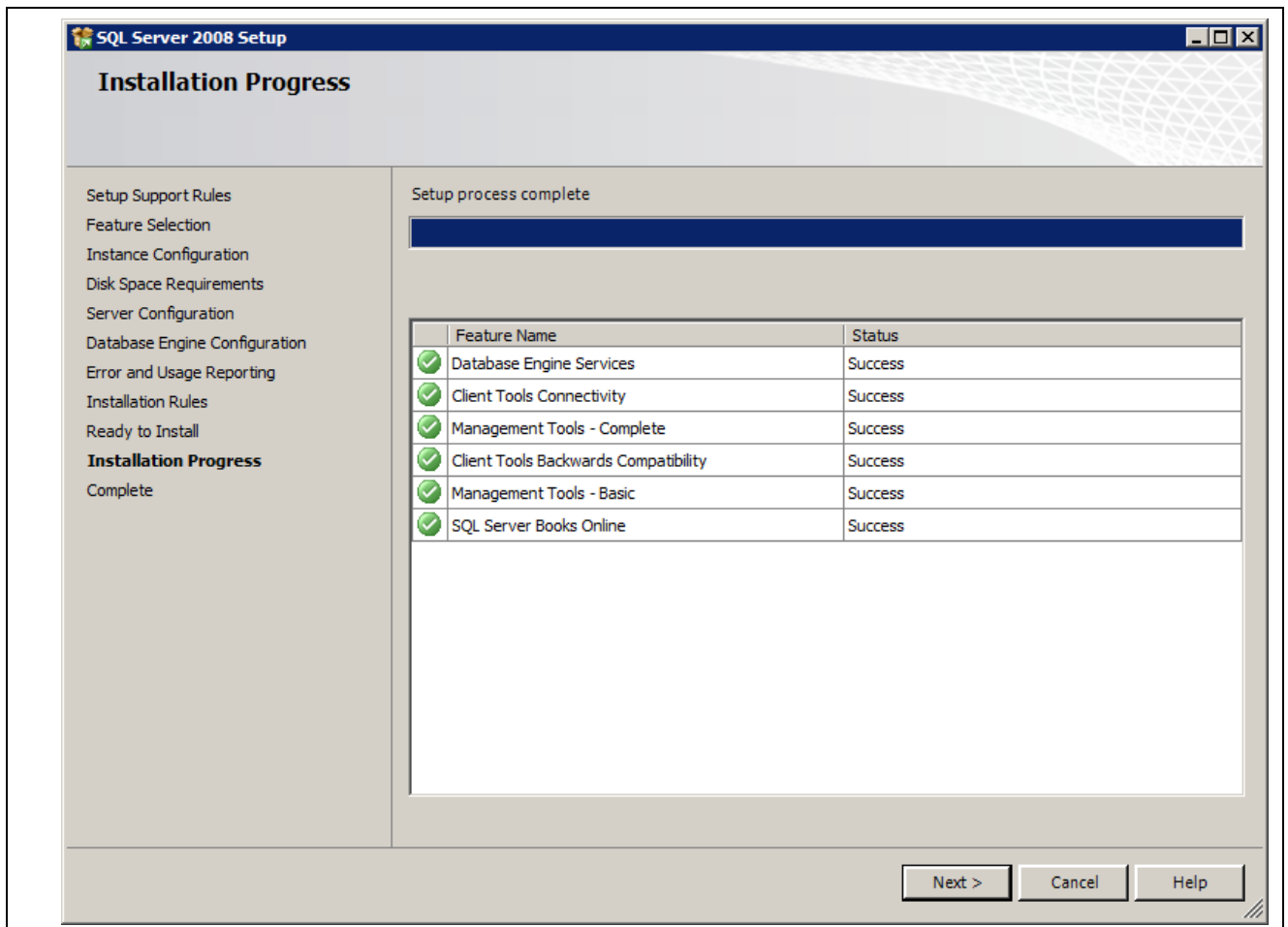
The Ready to Install window appears with a summary of the features and settings that you have selected. Select Install to proceed or Back to go back and correct a setting.



Ready to Install window

A window appears showing the progress of the installation. The installation requires 10-15 minutes.

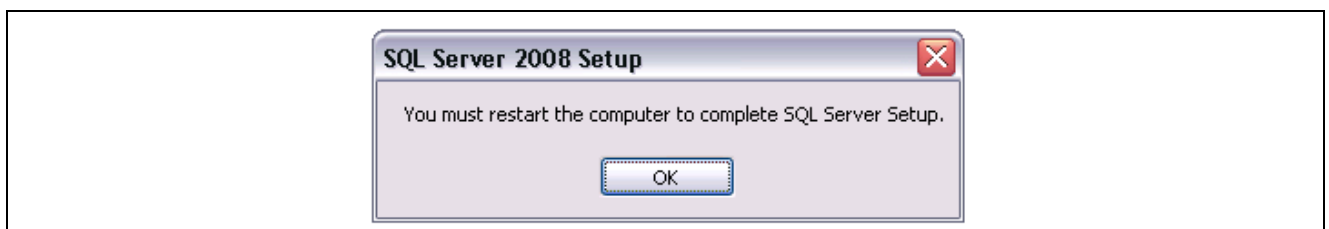
Wait for all the components to install successfully. All of the components should show a status of *Success* as shown in this example. If any one of them shows a status of *Failure* select the status link to check the reason for the failure.



Installation Progress window: setup process complete

29. If you did not reboot your system after installing .NET Framework 3.5 SP1, a dialog box appears asking you to reboot at this time.

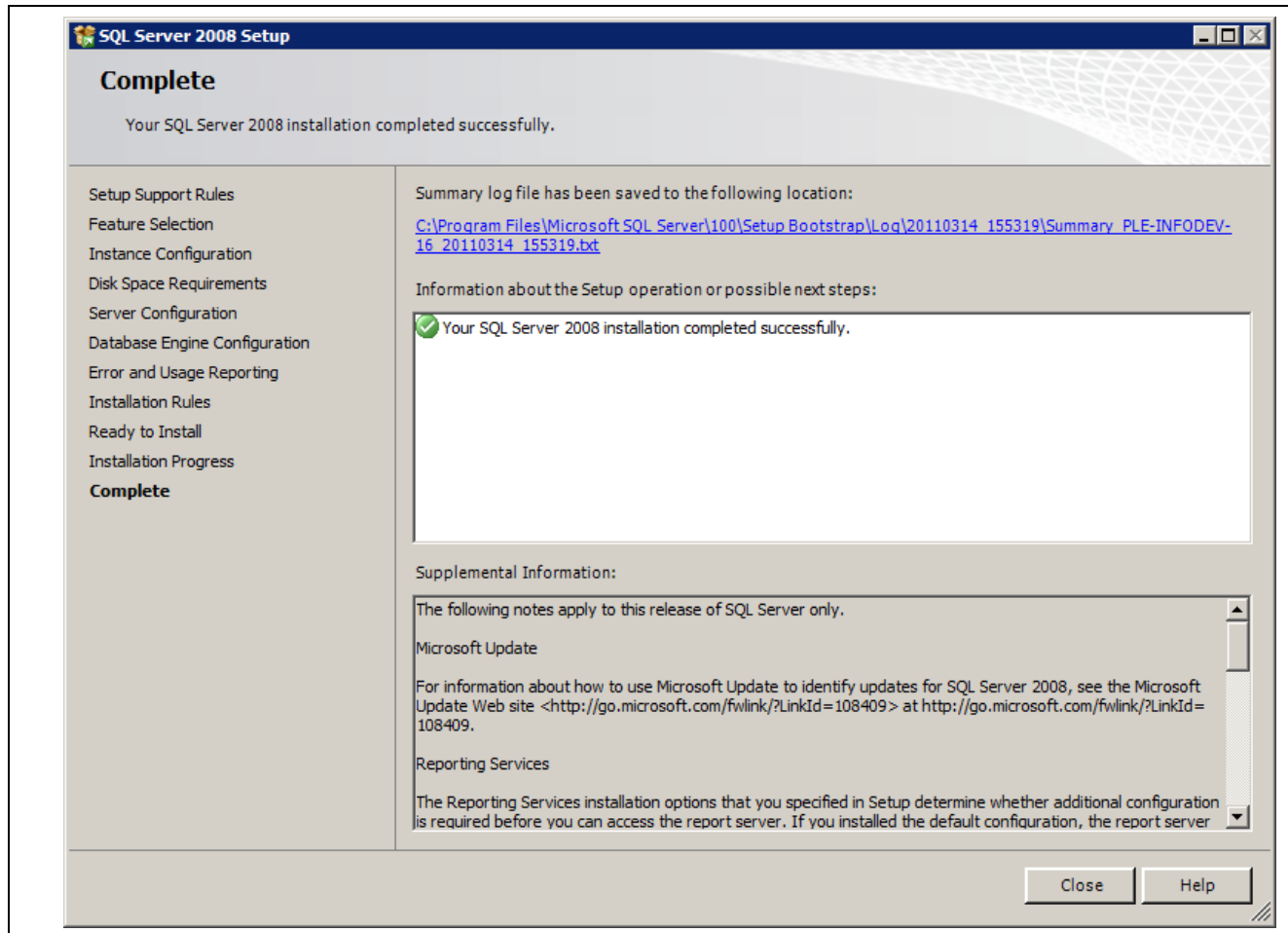
Click OK to reboot.



Computer Reboot Required dialog box

30. After the Microsoft SQL Server 2008 setup is complete, a Complete screen appears which gives the location of the setup log files and other information. The log files are saved in a directory labeled with the date.

In the example here, the log file directory is C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Log\<timestamp>\Summary_<xxx>.txt.



Window with SQL Server installation complete message and log information

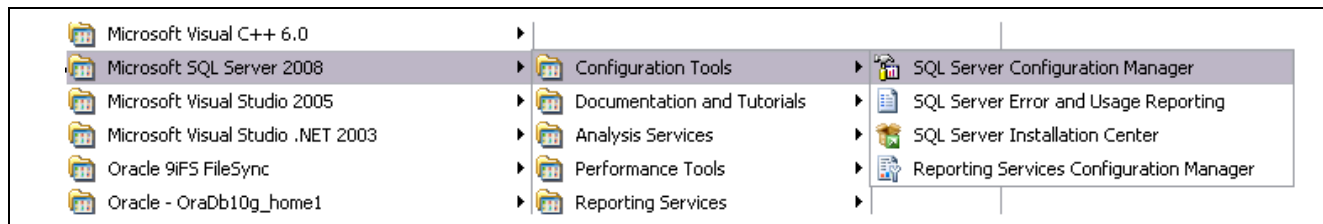
31. Click Close.

The Microsoft SQL Server 2008 server installation is complete.

Task 1-8-2: Starting and Stopping Microsoft SQL Server 2008

To start or stop the server:

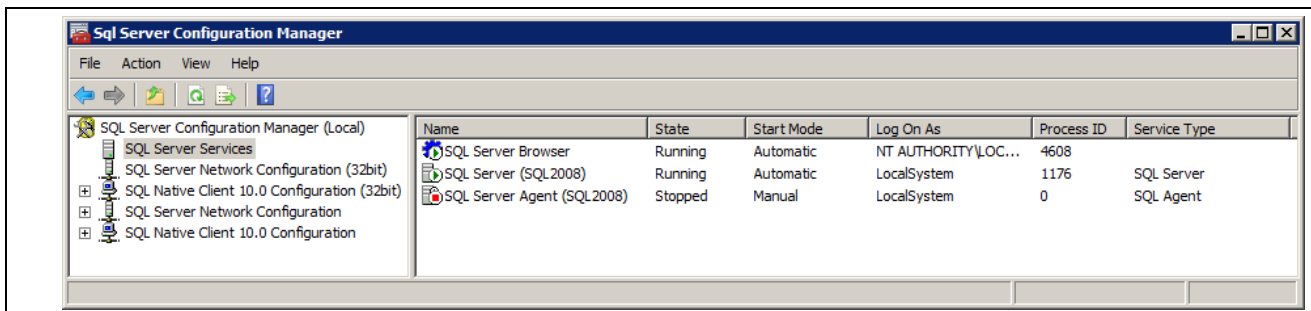
1. Select Start, Programs, Microsoft SQL Server 2008, Configuration Tools, SQL Server Configuration Manager.



Selecting SQL Server Configuration Manager

The SQL Server Configuration Manager window opens.

2. On the left side of the window select SQL Server Services, and on the right side select the server or instance name you want to start or stop.



SQL Server Configuration Manager window

3. If the service is running (for example, SQL Server (SQL2008)), click the stop button (■).
4. If the service is stopped, click the start button (▶).

Task 1-8-3: Installing Microsoft SQL Server 2008 for Client Only

Use these instructions to install only the client portion of Microsoft SQL Server 2008. You may use the client software, for example, when using a remote machine to connect to the database server on another machine.

To install Microsoft SQL Server 2008 client software:

1. If you want to uninstall your previous Microsoft SQL Server software before installing Microsoft SQL Server 2008, you can use Control Panel, Add/Remove Programs.

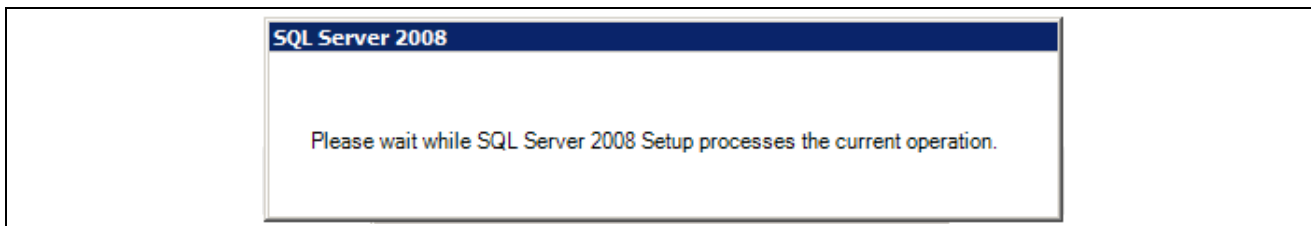
Note. Oracle recommends that you install only one SQL Server version per server. This should simplify the administration. However, in some instances you may need to install multiple versions, and it is possible to have side-by-side installations of Microsoft SQL Server 2005 and Microsoft SQL Server 2008.

2. Download the Microsoft SQL Server 2008 Software from the Microsoft website.

The first part of the installation delivers the software components, which are a prerequisite to use SQL Server 2008. Windows Installer 4.5 and .NET Framework 3.5 SP1 are prerequisites for the SQL Server 2008 setup. The system needs a reboot after installing Windows Installer 4.5 and .NET Framework 3.5 SP1. Install .NET Framework 3.5 SP1 and Windows Installer 4.5 and reboot the system before installing SQL Server 2008.

3. Select `setup.exe` from the directory where you downloaded the installation files.

An initialization window appears, followed by the SQL Server Installation Center window.



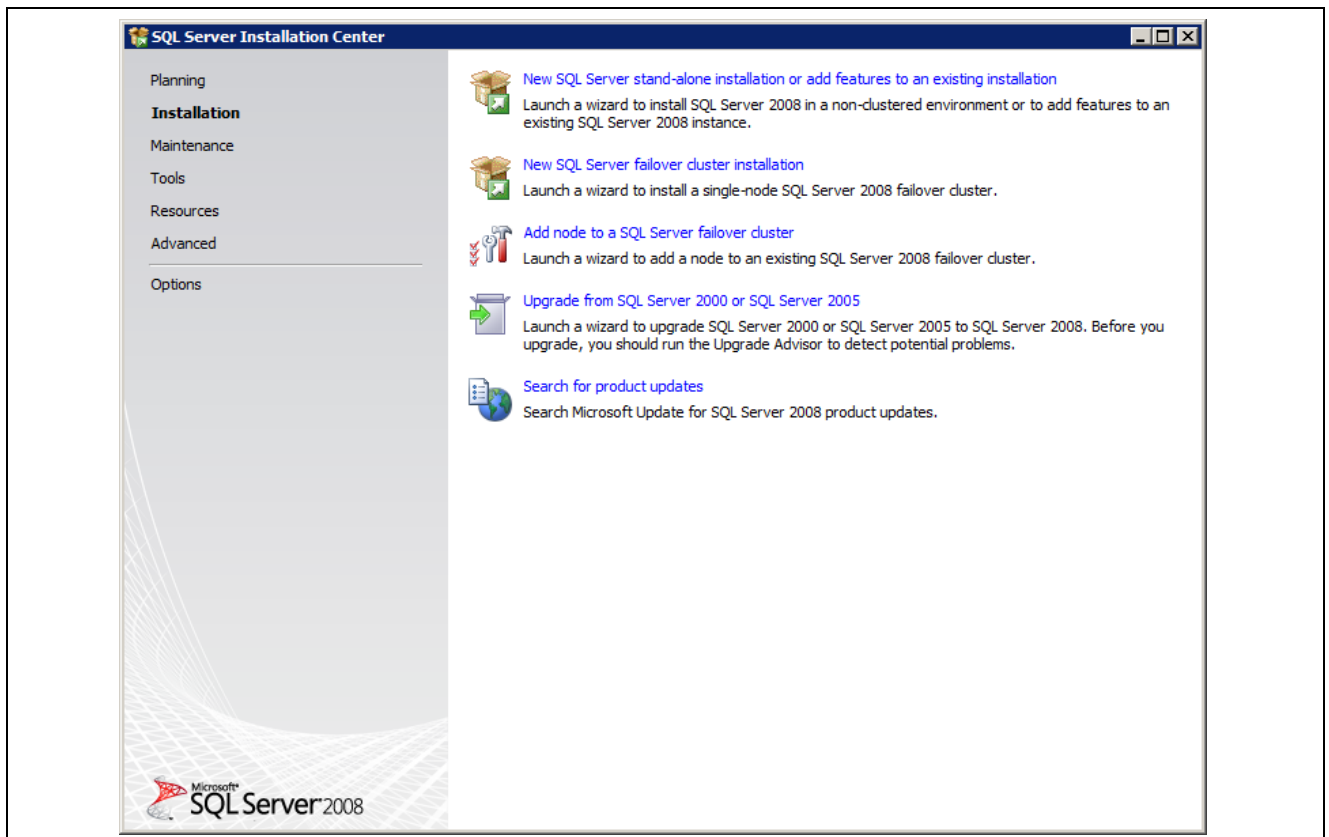
SQL Server 2008 Please wait message

4. Select the Installation link on the top left.



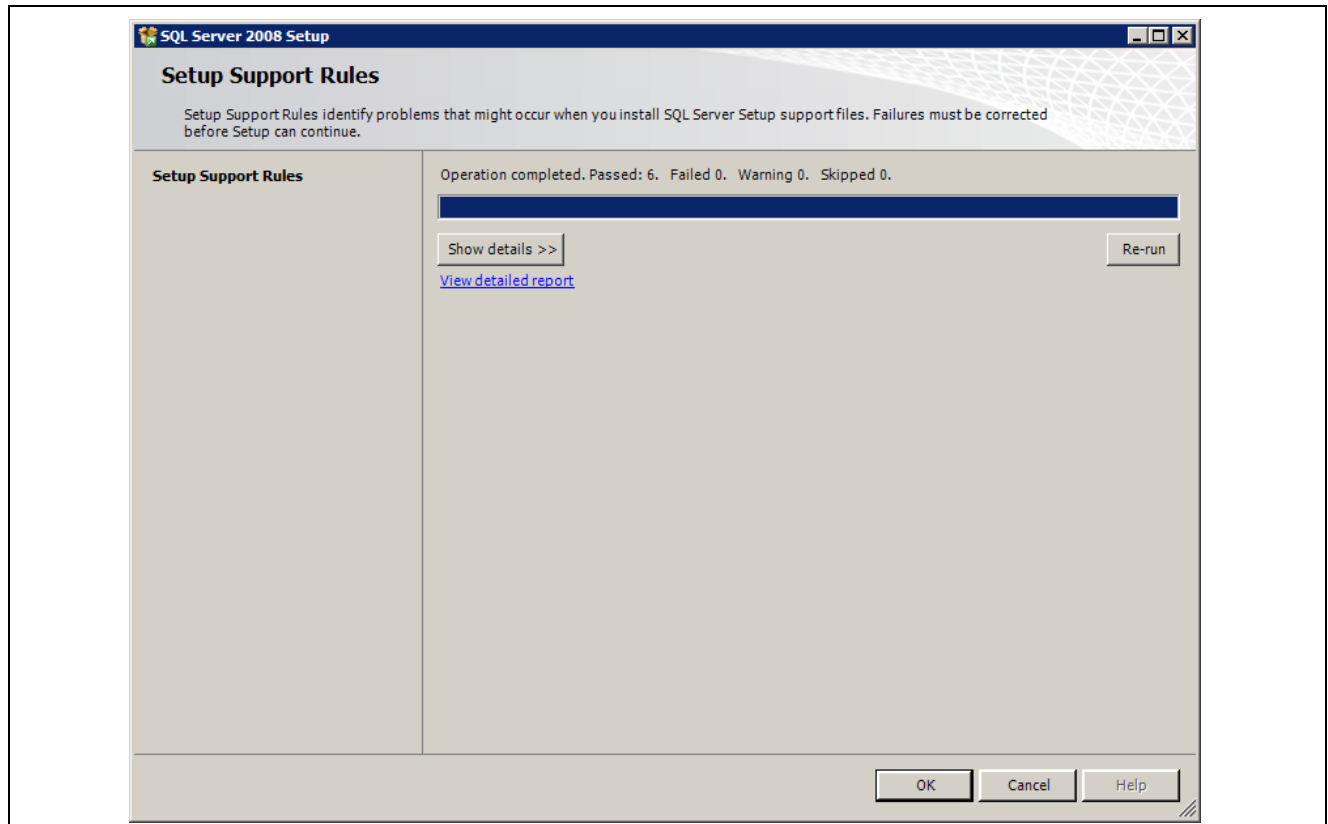
SQL Server Installation Center window with Planning Links

5. Select the link New SQL Server stand-alone installation or add features to an existing installation to proceed.



SQL Server Installation Center window with Installation links

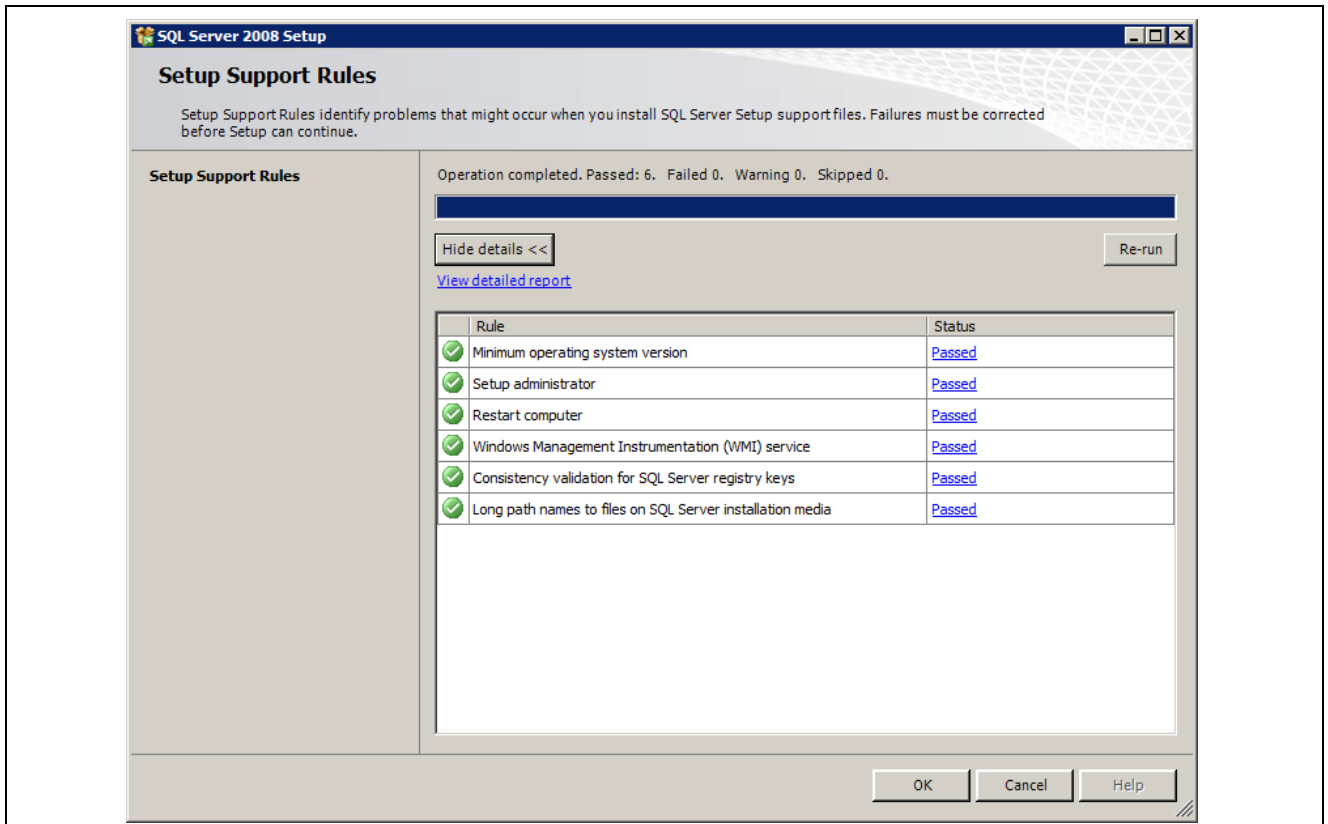
The Setup Support Rules window appears with a progress indicator.



Setup Support Rules window with progress indicator

6. When the operation is complete, click Show details.

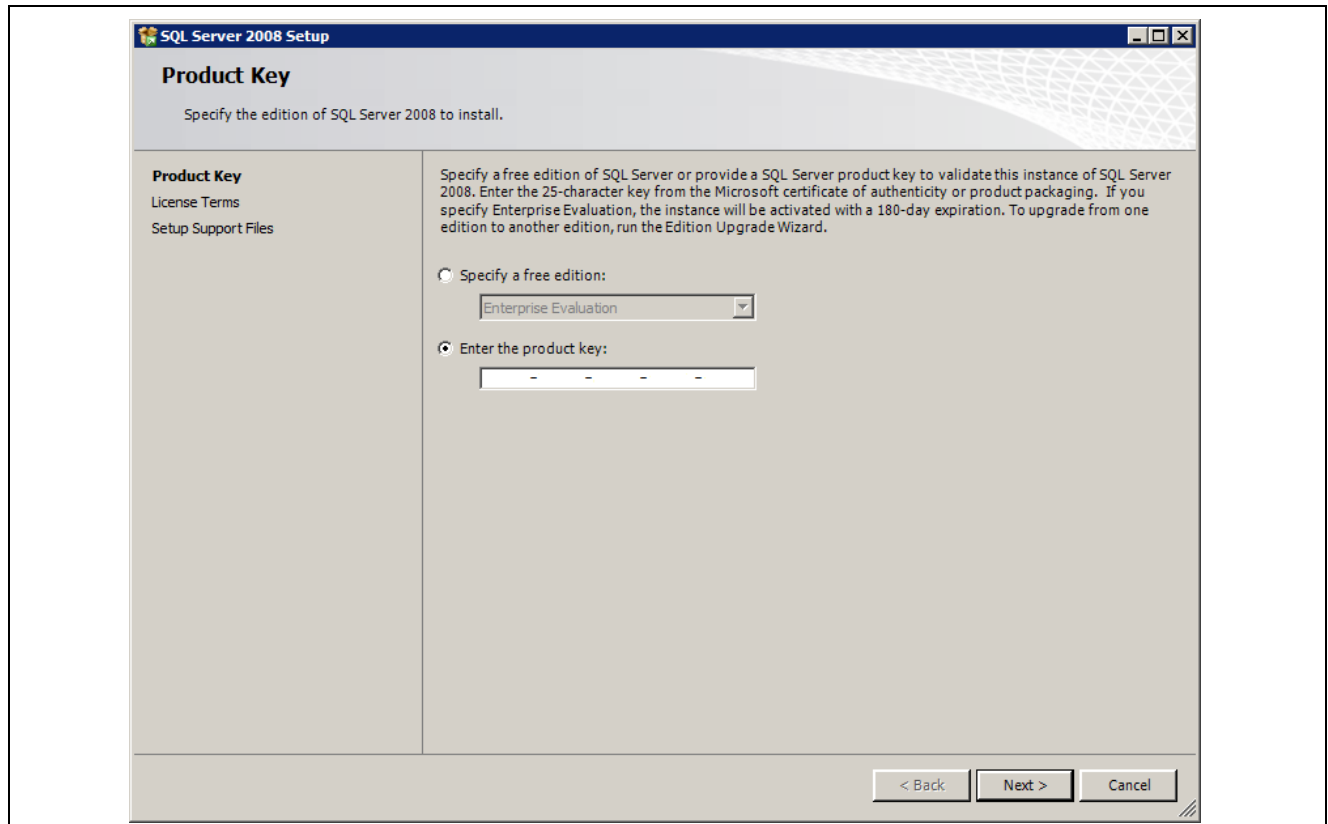
Verify that all the listed rules display Passed in the Status column. If any one of them has not passed, select the link in the Status column to check the reason for the failure.



Setup Support Rules window with result details

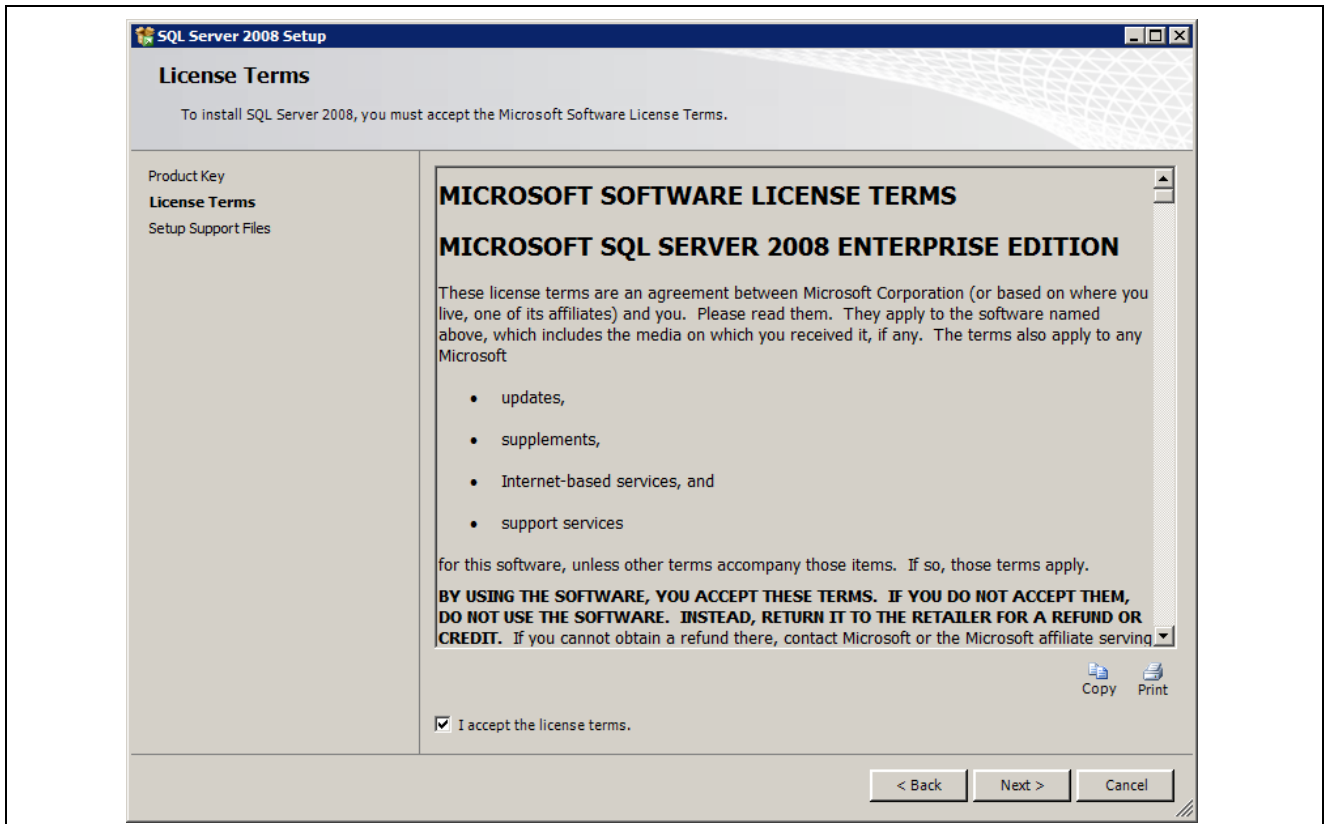
7. Click OK to proceed.

A Product Key window appears. Enter the product key. If it is already populated, ignore this step and click Next. (In this example the Product Key field is not populated.)



Product Key window

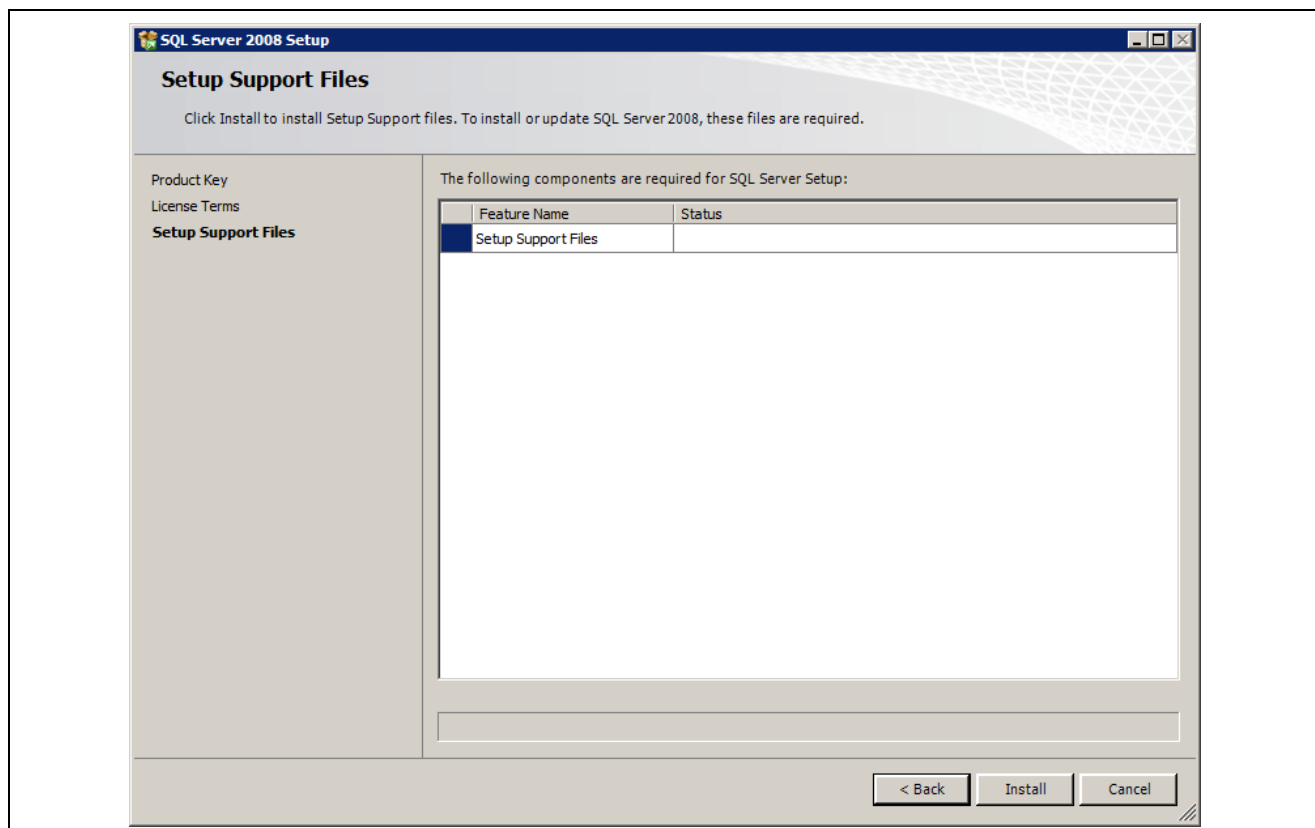
8. On the License Terms window, read the terms and conditions carefully and select the check box labelled I accept the license terms.



Microsoft Software License Terms window

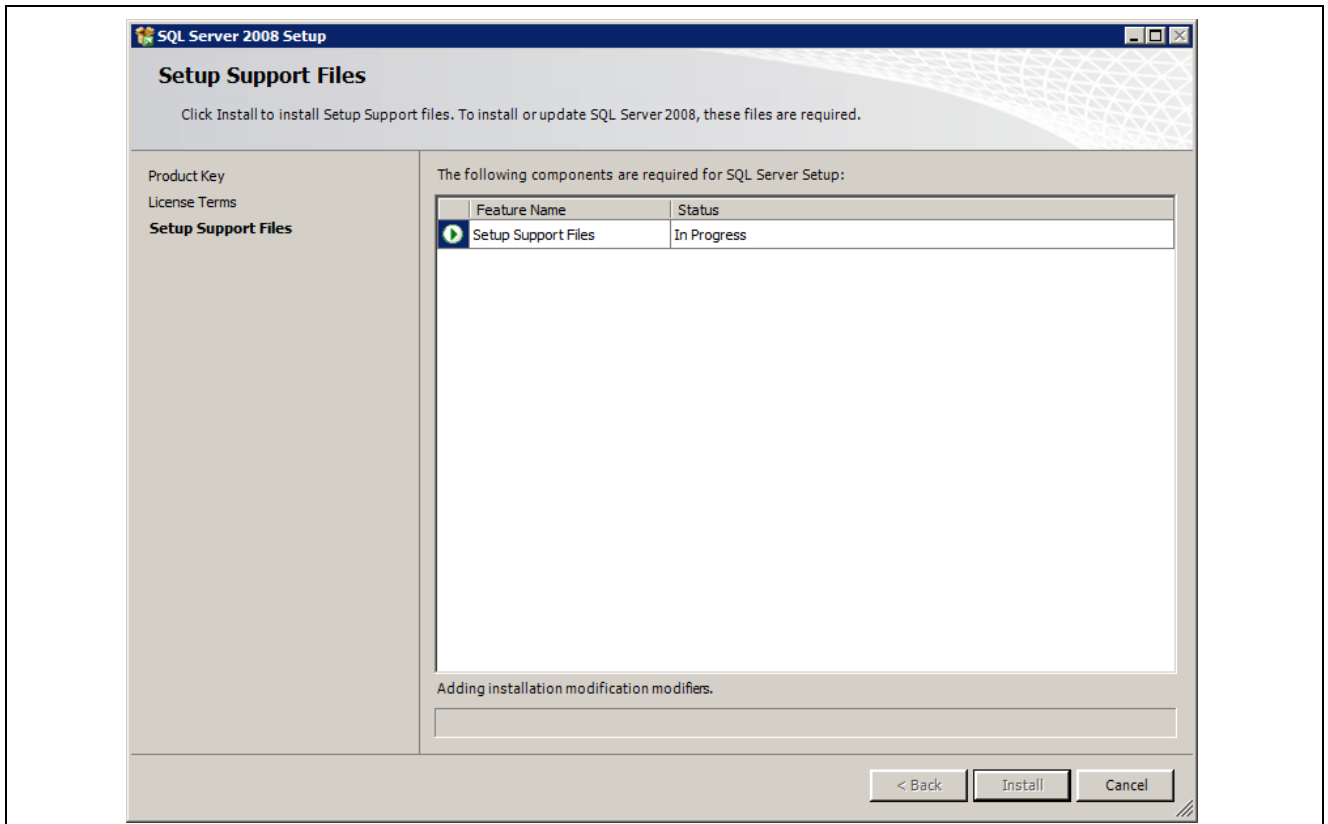
9. Click Next.

The Setup Support Files window appears.



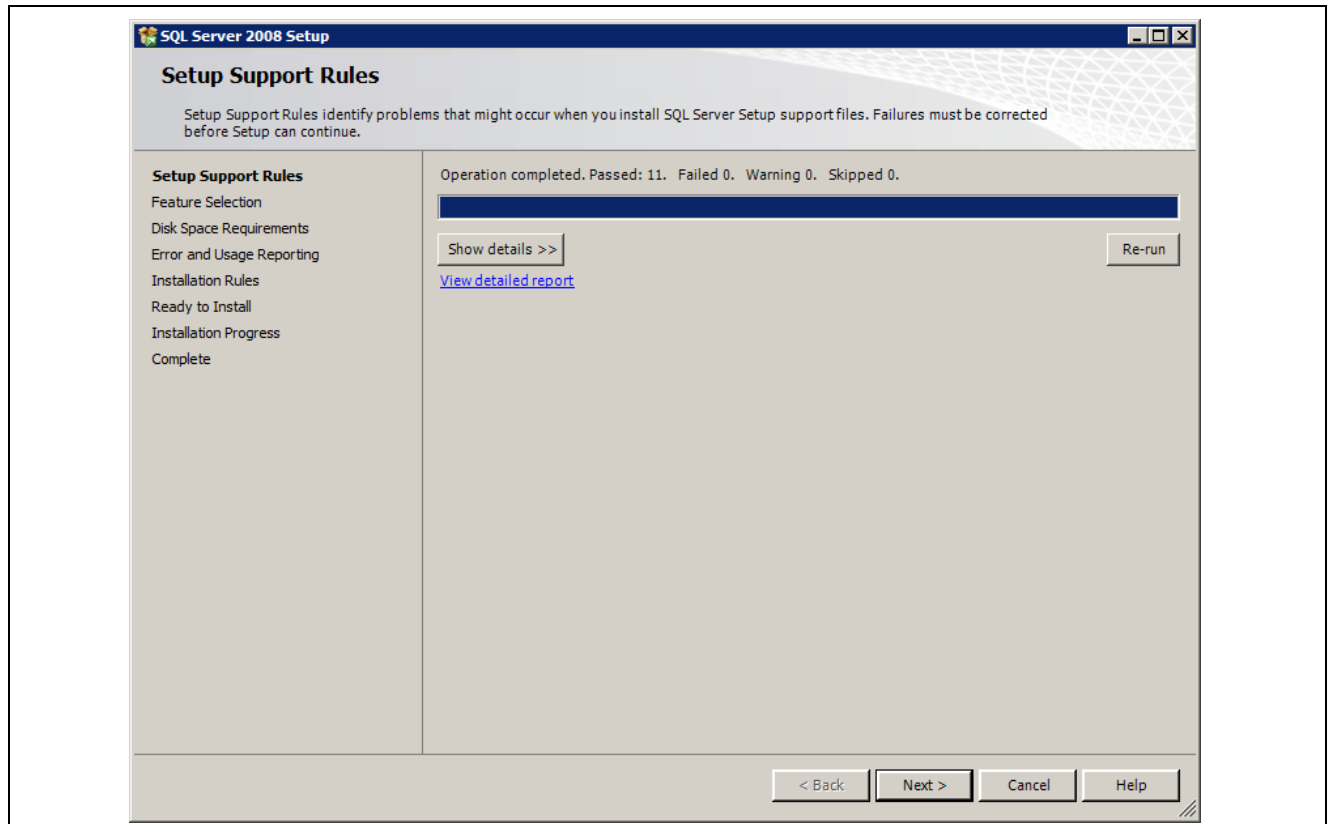
Setup Support Files window

10. Click Next to begin installing the setup support files.



Setup Support Files window with progress indicator

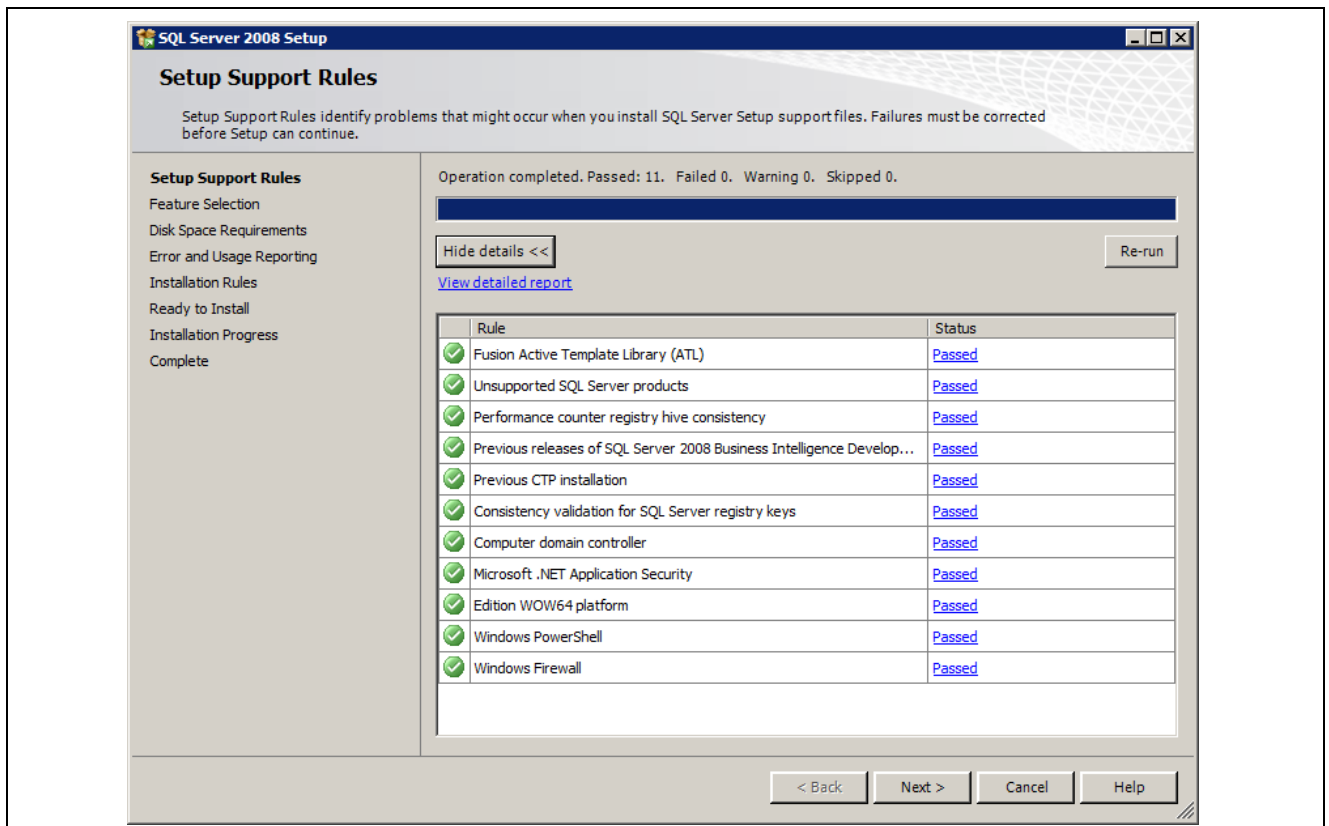
A progress bar appears at the bottom of the window. When the operation is complete, the Setup Support Rules window appears.



Setup Support Rules window with progress indicator

11. Click Show details on the Setup Support Rules window.

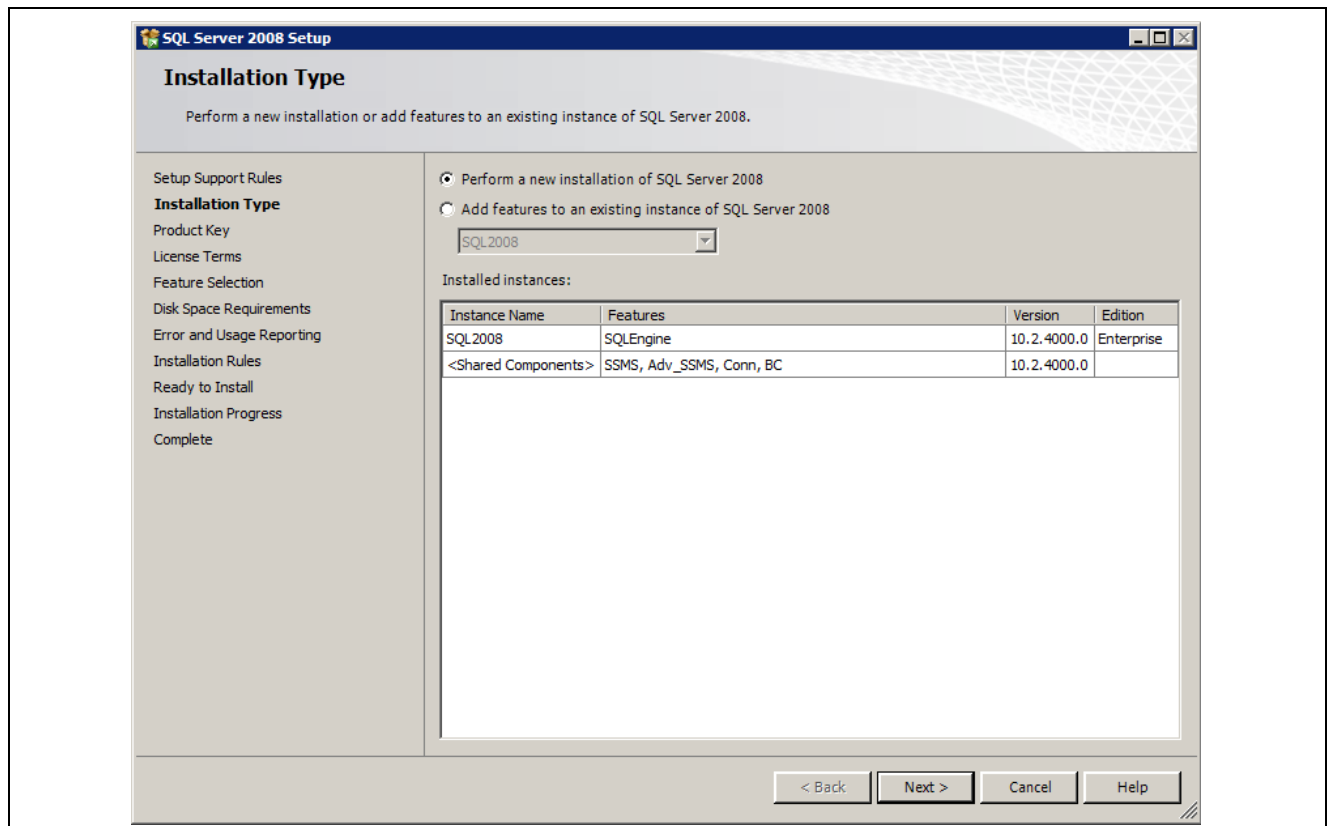
Verify that the status for all of the rules is Passed. If any of the rules has not passed, select the link in the Status column to check the reason for the failure.



Setup Support Rules window showing result details

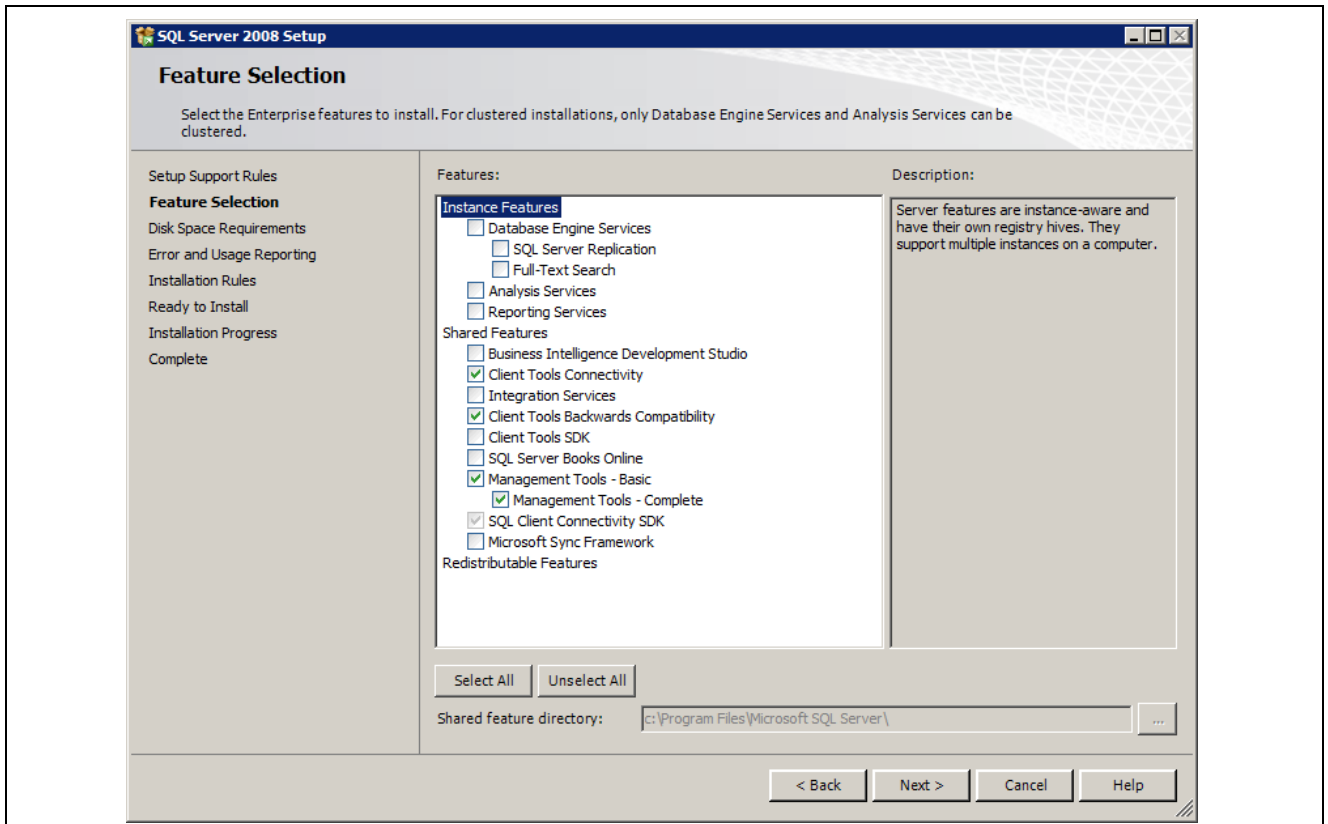
12. Click Next.

The Installation Type window appears with a list of existing SQL Server instances.



Installation Type window

13. Accept the option to Perform a new installation of SQL Server 2008, and click Next.
14. A Feature Selection window appears which lists all the features of SQL Server 2008 that need to be installed.



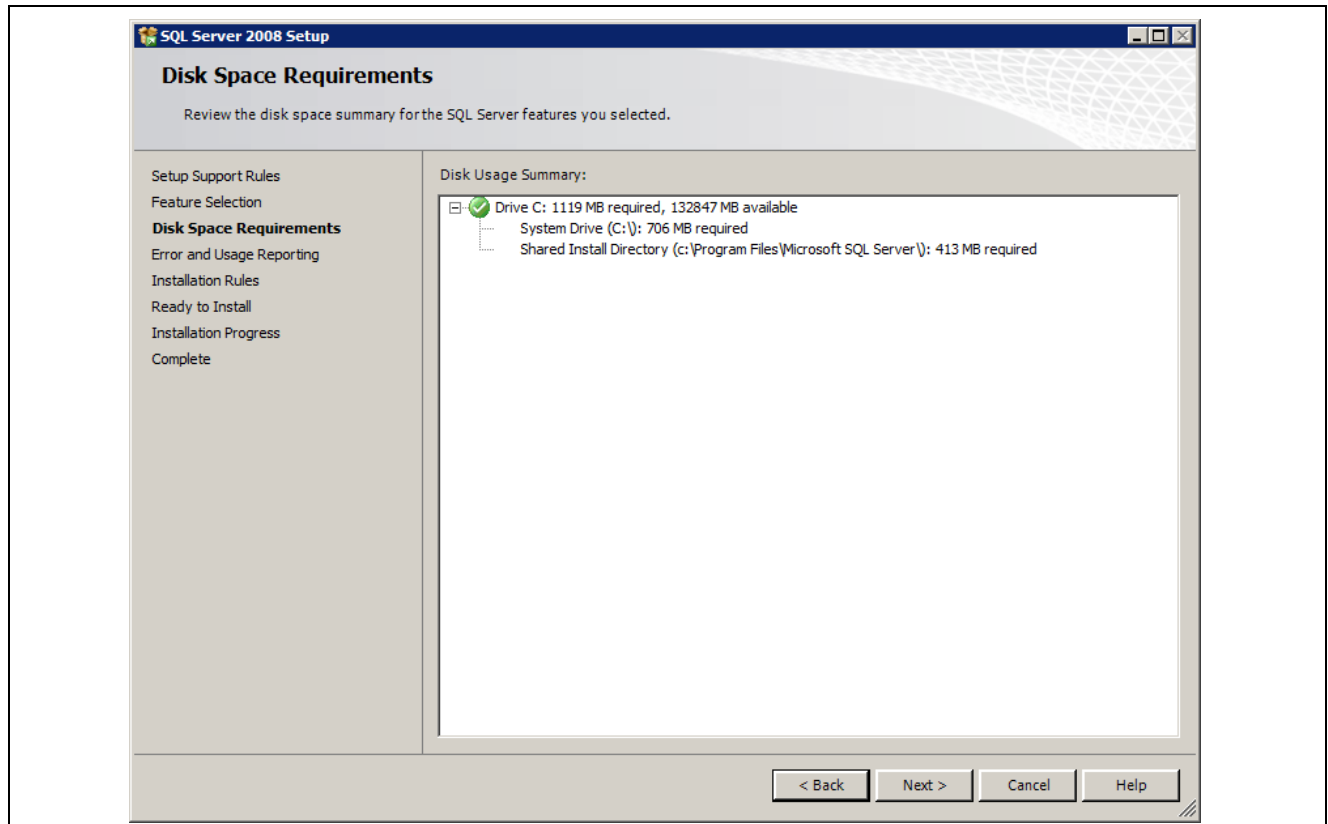
Feature Selection window with selections for Client

For a PeopleSoft installation, select Client Tools Connectivity and Client Tools Backward Connectivity. Clear the check boxes for the following features:

- Database Engine Services
- SQL Server Replication
- Full Text Search
- Analysis Services
- Reporting Services
- Microsoft Sync Framework
- SQL Server Books online
- Business Intelligence Development Studio
- Integration Services

15. Click Next.

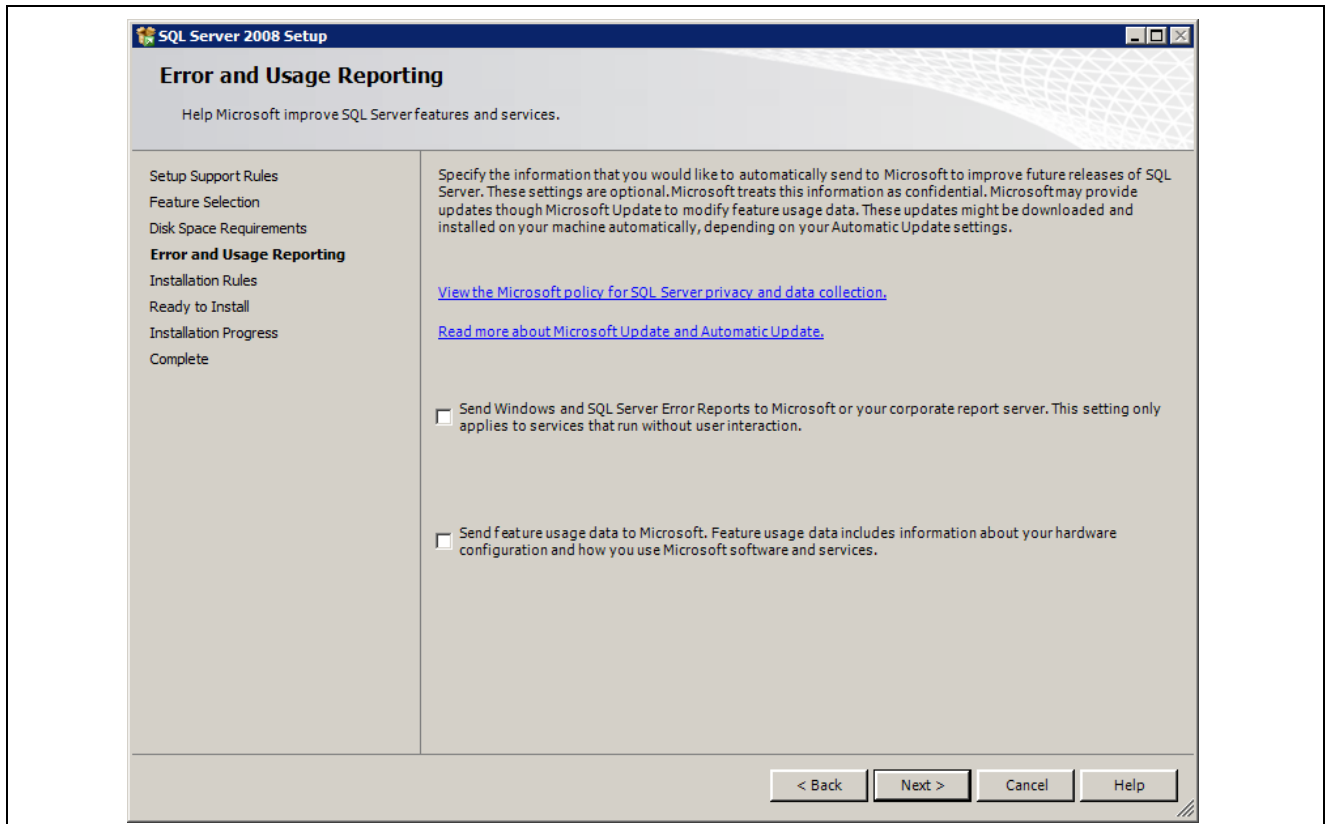
The Disk Space Requirements window appears.



Disk Space Requirements window

16. Click Next to proceed.

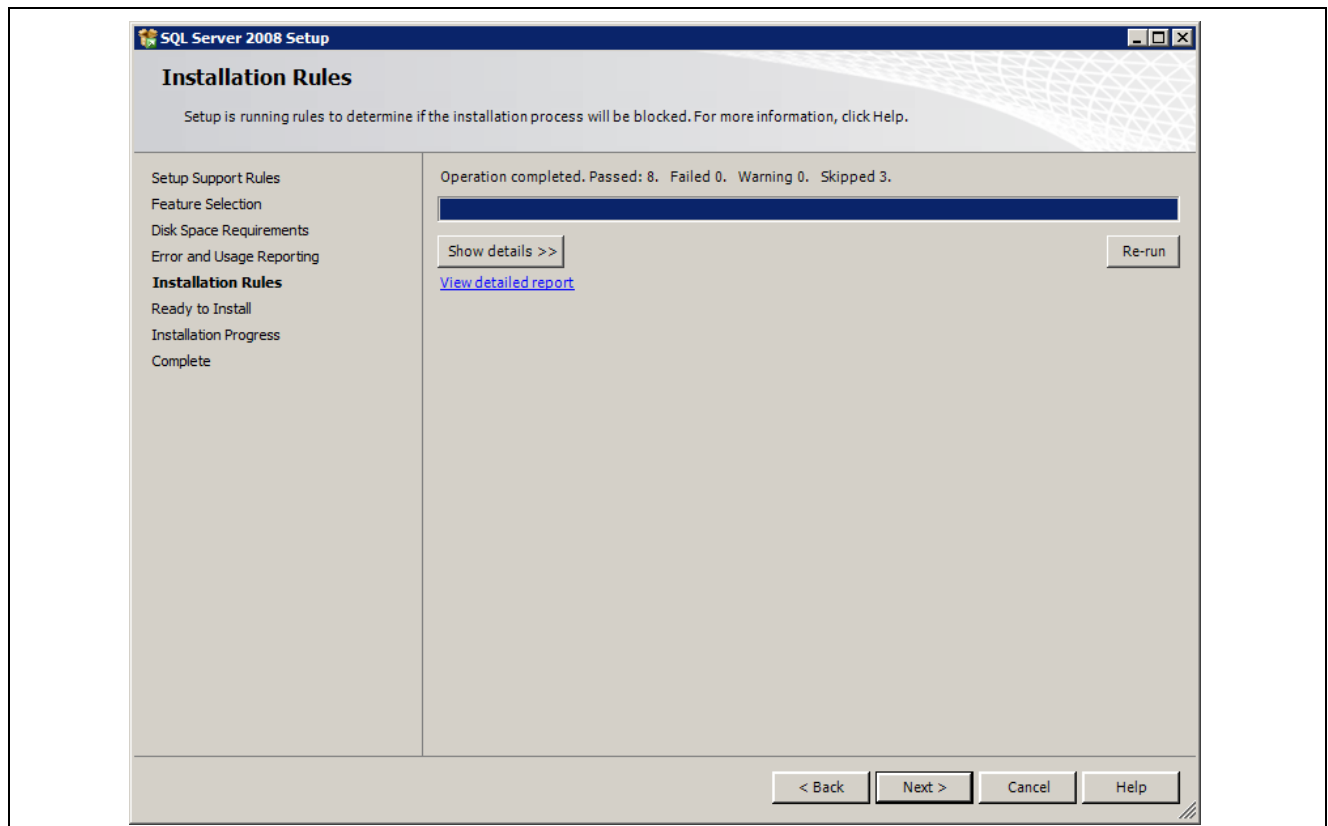
The Error and Usage Reporting window appears. If desired, select the options to send error reports or anonymous feature usage data to Microsoft. In this example neither option is selected.



Error and Usage Reporting window

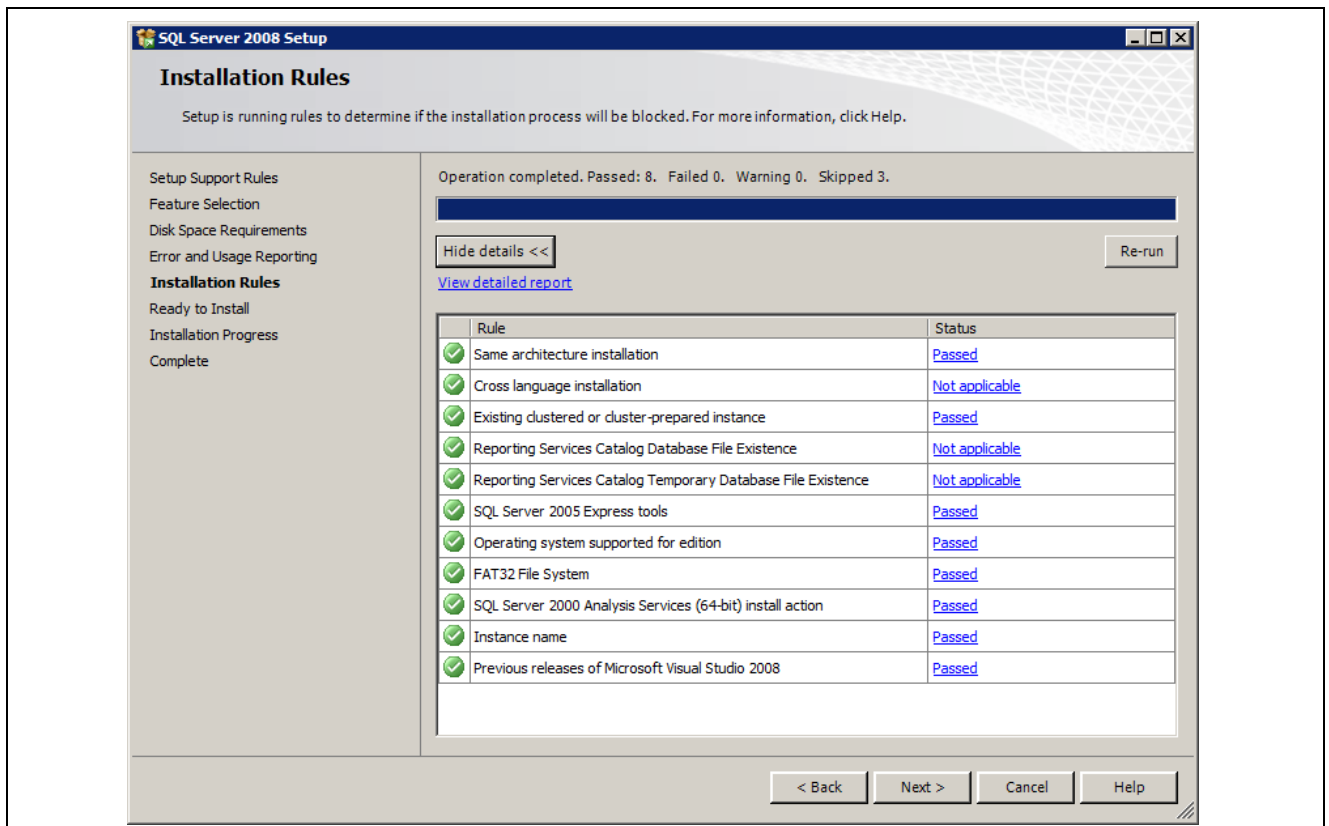
17. Click Next.

The Installation Rules window appears.



Installation Rules window with progress indicator

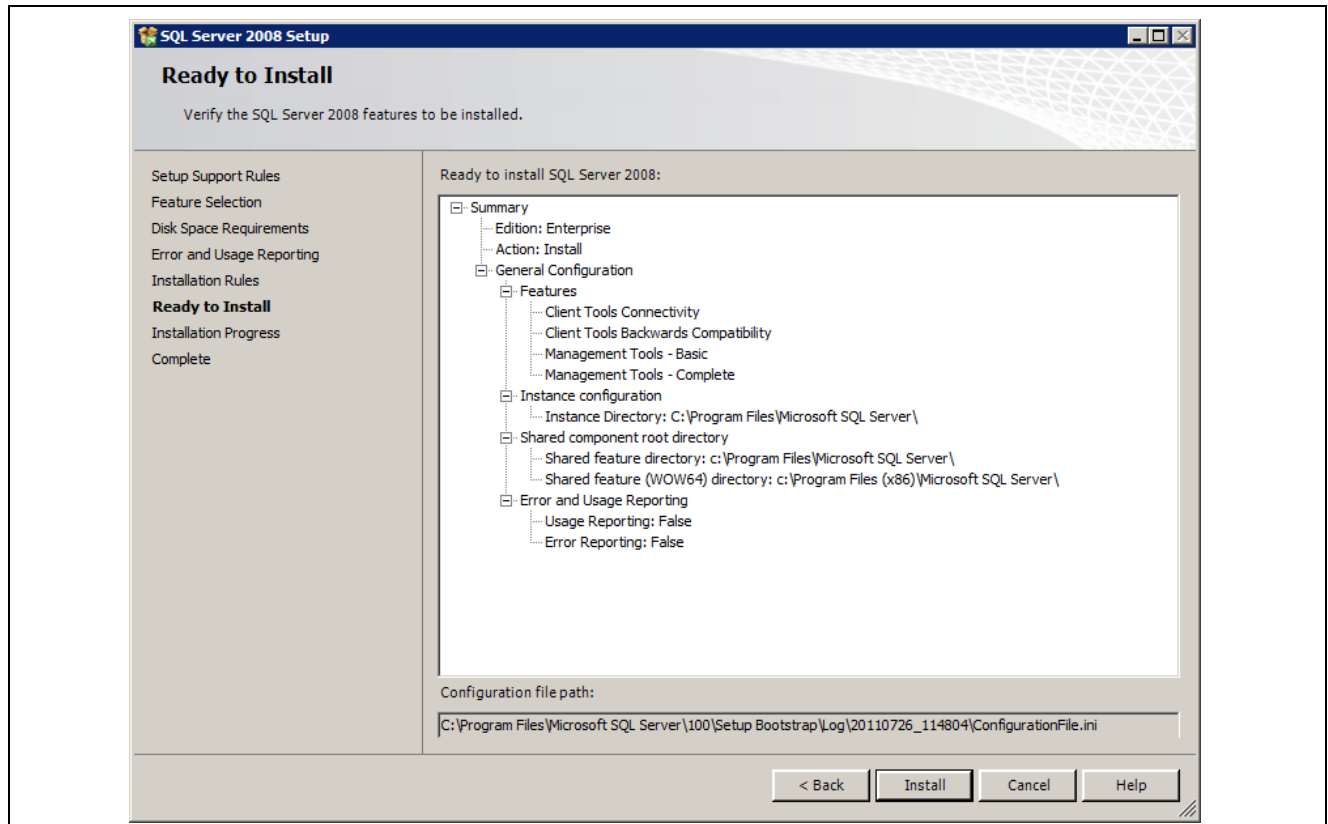
Wait for the operation to be complete, and then verify that all of the rules passed successfully. If any of the rules does not have a status of *Passed*, click the link in the Status column to check the reason.



Installation Rules window showing result details

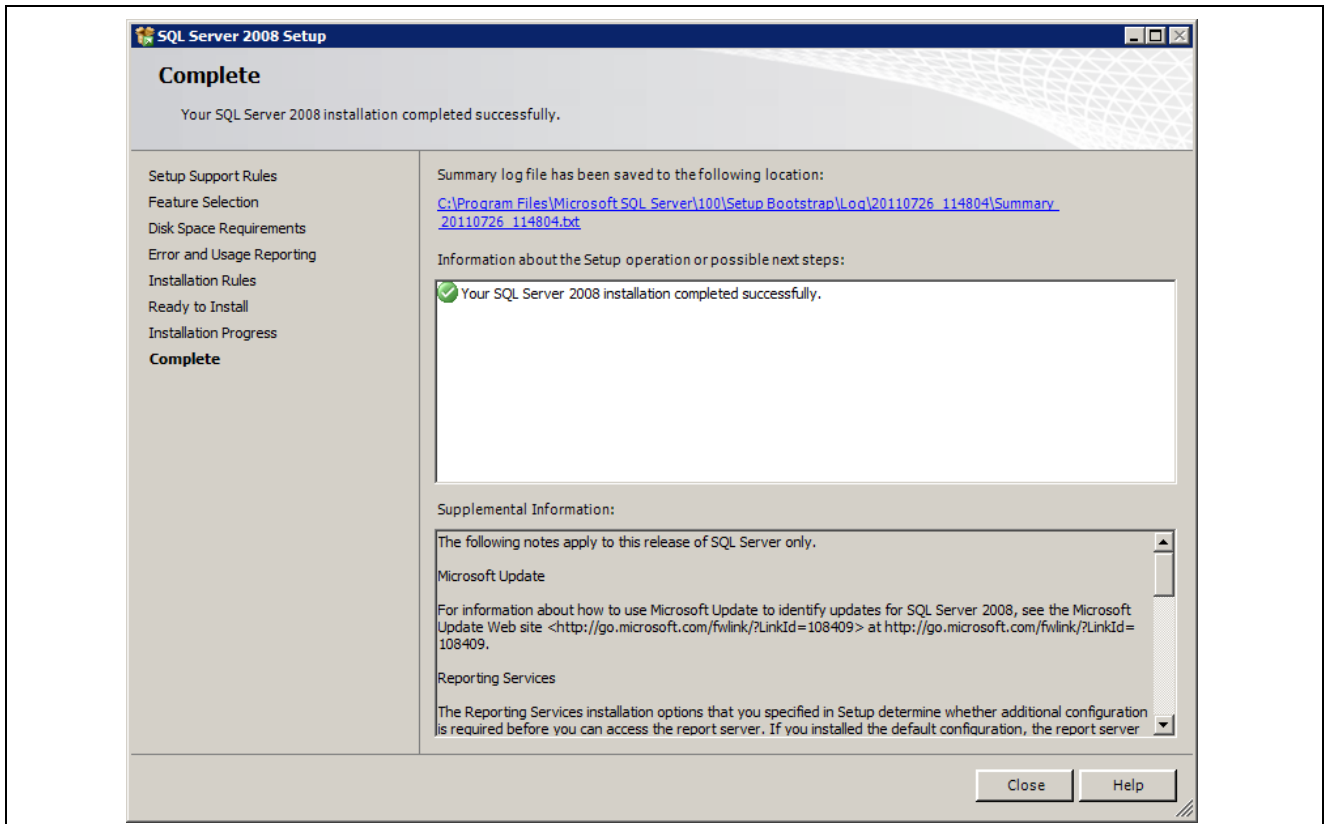
18. Click Next.

The Ready to Install window appears with the features to be installed. Click Install to begin.



Ready to Install window

After the installation is complete, a Complete screen appears which gives the location of the setup log files and other information.



Installation Complete window

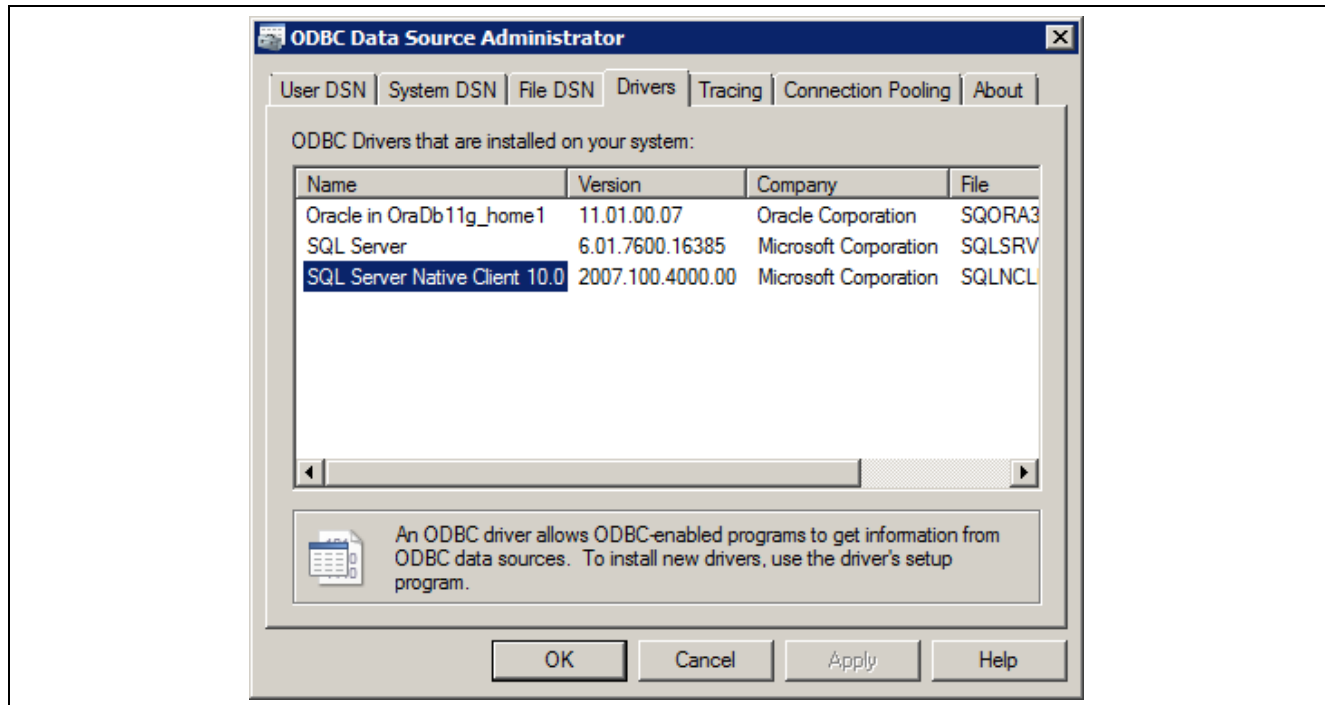
19. Click Close.

The SQL Server 2008 client setup is complete.

Task 1-8-4: Configuring the ODBC Data Source

When configuring ODBC to connect to your SQL Server 2008 databases make sure you use SQL Server Native Client (SNAC) 2007.100.4000.00.

Select Start, Programs, Administrative Tools, Data Sources (ODBC), and select the Drivers tab. Confirm that the version of SQL Server Native Client is 2011.110.2100.60, as in this example.



Drivers page on the ODBC Data Source Administrator dialog box

Task 1-8-5: Configuring the ODBC Data Source for 32-bit and 64-bit Connectivity Drivers

If you are running on a 64-bit machine, confirm that you are using the correct connectivity drivers. Beginning with the PeopleSoft PeopleTools 8.53 release, executables are both 64-bit and 32-bit. If you are running on a 64-bit operating system you need both the 32-bit and 64-bit connectivity drivers for PeopleSoft PeopleTools.

You need to create ODBC Data Source under System DSN for both 32-bit and 64-bit application. The ODBC Data Administrator resides in the following two locations on a 64-bit Microsoft Windows machine:

- *The 32-bit version odbcad32.exe is found in C:\windows\syswow64:* This is for 32-bit PeopleSoft PeopleTools utilities running on a 64-bit operating system. This is the correct version for PeopleSoft PeopleTools utilities such as Application Designer and Data Mover.
- *The 64-bit version odbcad32.exe is found in C:\windows\system32:* This is for 64-bit utilities running on a 64-bit operating system. This is the correct version for 64-bit PeopleSoft PeopleTools servers such as the Application Server and Process Scheduler.

When you run odbcad32 on a 64-bit Microsoft Windows machine (Start, Programs, Control Panel, Administrative Tools, ODBC Data Administrator), the 64-bit version of odbcad32.exe (C:\windows\system32) is used by default. In order to run both 32-bit and 64-bit PeopleSoft PeopleTools, be sure to include a System DSN entry for both the 32-bit version odbcad32.exe (C:\windows\syswow64) and the 64-bit version odbcad32 (C:\windows\system32).

Task 1-9: Increasing the Size of Tempdb

The Oracle-recommended configuration for PeopleSoft software includes increasing the size of tempdb. Microsoft SQL Server creates an 8.5 MB temporary database, tempdb, upon installation. Tempdb is a shared workspace used for temporary tables, sorting, and other temporary work storage needs. By default, in Microsoft SQL Server, tempdb is set to grow automatically. However, PeopleSoft software uses tempdb extensively and Oracle recommends increasing its size by a minimum of 15 percent to 20 percent the estimated final size of your database. Another good practice is to distribute tempdb into several data files of the same size; as a guideline you may want to have one per each processor assigned for SQL Server. If possible spread these datafiles on a high-performance disk array.

Because auto-grow on tempdb may affect the database overall performance it is important to assign the right size to tempdb. Auto-grow should never occur on a properly sized production environment.

Note. Make sure your tempdb resides on a different disk device than your data and your database log.

Task 1-10: Installing Client Connectivity

Install client connectivity on any Windows-based client workstation(s), any Windows batch servers, and any Windows application servers. You can find the client connectivity files on your Microsoft SQL Server CD.

Note. Remember that connectivity is only required for Windows-based client workstations that are being used as the PeopleTools Development Environment. Normal end users will not require database connectivity; they will just need a machine with a supported browser installed.

Note. Microsoft service packs often include updates to client connectivity files. When installing service packs, remember to update any client connecting to the database server, including development workstations, report servers, batch servers, application servers, and any other computer connecting directly to the database. Refer to your Microsoft SQL Server documentation for information on applying service packs.

Task 1-11: Performing Backups

Before proceeding, you should back up all servers and workstations that are set up for installation so you can recover to this point if necessary. Do the following:

- Back up any changes you made to the database server in setting up your PeopleSoft system.
- Back up any changes you made to your file server while setting aside space for your PeopleSoft system and setting up access privileges.
- Once you set up your install workstations to access the file server and database server simultaneously, back up the workstations.

Task 1-12: Using PeopleSoft Change Assistant and PeopleSoft Change Impact Analyzer

After you have completed the tasks in this book to install PeopleSoft PeopleTools, including installing any necessary patches and fixes, you need to install PeopleSoft Change Assistant. PeopleSoft Change Assistant is a standalone application that enables you to assemble and organize all of the steps necessary to apply patches and fixes for maintenance updates.

PeopleSoft Change Assistant gathers all the necessary information for a maintenance update from the Environment Management Hub and uploads it to My Oracle Support. With the environment data available, My Oracle Support can determine what updates are applicable to your environment. PeopleSoft Change Assistant carries out the following tasks:

- Coordinates with Environment Management Framework to monitor information specific to your PeopleSoft implementation.
- Finds required updates
- Downloads updates
- Creates change packages

Note. Beginning with PeopleSoft PeopleTools 8.53, use the PeopleSoft Update Manager from PeopleSoft Change Assistant to use a tailored search to find patches, as well as create and apply change packages.

- Applies all change packages

You can also install PeopleSoft Change Impact Analyzer, either as part of the PeopleSoft Change Assistant installation, or separately from the installation executable provided with PeopleSoft PeopleTools. PeopleSoft Change Impact Analyzer is a Microsoft Windows-based tool that you can use to evaluate the effect of changes you make on your installation.

See Also

"Installing PeopleSoft Change Assistant"

"Installing PeopleSoft Change Impact Analyzer"

PeopleTools: PeopleSoft Change Assistant and Update Manager

PeopleTools: Change Impact Analyzer

CHAPTER 2

Installing Web Server Products

This chapter discusses:

- Installing Oracle WebLogic Server
- Installing IBM WebSphere Application Server

Task 2-1: Installing Oracle WebLogic Server

This section discusses:

- Understanding the Oracle WebLogic Installation
- Reviewing Troubleshooting Tips
- Obtaining Oracle WebLogic Installation Files from Oracle Software Delivery Cloud
- Installing JDK for Oracle WebLogic
- Installing Oracle WebLogic on Microsoft Windows
- Installing Oracle WebLogic on Linux or UNIX
- Installing Oracle WebLogic on Linux or UNIX in Silent Mode
- Configuring JDK for Daylight Savings Time Change
- Removing the Oracle WebLogic Installation on Microsoft Windows
- Removing the Oracle WebLogic Installation in Console Mode

Understanding the Oracle WebLogic Installation

PeopleSoft PeopleTools 8.53 supports Java 7 enabled 64-bit Oracle WebLogic Server 10.3.6. Oracle provides installation files for Oracle WebLogic on the Oracle Software Delivery Cloud portal.

See Obtaining Oracle WebLogic Installation Files from Oracle Software Delivery Cloud.

To familiarize yourself with the most current support information and information about any required Oracle WebLogic service packs based on operating system platform or PeopleSoft PeopleTools versions, consult the Certifications area of My Oracle Support.

You must install an operating-system specific Java Developers Kit (JDK) before beginning the Oracle WebLogic installation.

See Installing JDK for Oracle WebLogic.

See Also

Oracle Software Delivery Cloud, <http://edelivery.oracle.com>

My Oracle Support, Certifications

"Clustering and High Availability for Enterprise Tools 8.5x," My Oracle Support, (search for the article title)

"Operating System, RDBMS, and Additional Component Patches Required for Installation PeopleTools," My Oracle Support, (search for the article title and release number)

Reviewing Troubleshooting Tips

If you have trouble with the installation, review these tips:

- It can require up to 800 MB space to install Oracle WebLogic. If there is not enough space, the installer displays an error with information about the space limitation. You will need to exit the installation and create some space under your home directory before starting over.
- The Oracle WebLogic installer makes use of the default system temporary space. It will stop and display an error message if the temporary space is not sufficient. Clean up the default system temp space and try again. If you don't have the privilege to clean up that directory and need to proceed, the workaround is to set aside a directory under your Home directory and use it as the temporary space. This can be achieved by setting `-Djava.io.tmpdir` in the command for launching the installer. For example, the following command will use the "temp" directory under your Home directory to launch the installer in console mode:

```
${JAVA_HOME}/bin/java -jar ./wls1036_generic.jar -mode=console -Djava.io.tmpdir=>
~/temp -log=./logs/Wls1036Install.log
```

Note. This workaround may not be applicable on all platforms. If you tried and the installer still errors out due to temp space, contact your system administrator to clean up the system temp space before proceeding.

- If the installation fails, and the Middleware Home directory that you specified for the Oracle WebLogic 10.3.6 installation is one in which other Oracle products have been installed in previous releases, (for example `c:\oracle` folder in Microsoft Windows), it may indicate corruption in the `registry.xml` file inside your existing Middleware Home. Pick a different location for the Oracle WebLogic 10.3.6 installation directory and try the installation again.
- If you are installing onto Microsoft Windows operating system using GUI mode and the installation fails without any message, run the installer from the command prompt using console mode. It will show you more detailed error messages indicating the problem area.

The command to run on Microsoft Windows in console mode is:

```
%JAVA_HOME%\bin\java -jar wls1036_generic.jar -mode=console -log=logs=>
\Wls1036Install.log
```

- If you are installing onto an UNIX or Linux environment, refer to the log file `Wls1036Install.log` under the installation logs directory to see what events happened if your installation failed.
- If you encounter the following error message while running in console mode on a Microsoft Windows operating system, it means an environment variable `_JAVA_OPTIONS` has been set in your system. It causes the Java process initiated by the Oracle WebLogic installer to fail.

```
ERROR: JVMPI, an experimental interface, is no longer supported.
Please use the supported interface: the JVM Tool Interface (JVM TI).
```

To resolve the problem, remove the environment variable `_JAVA_OPTIONS` from your system and rerun the installation.

- If you encounter the following error message while installing on an Oracle Solaris operating system, it means there is a problem with access to the temporary directory:

```
*sys-package-mgr*: can't write cache file
```

This message appears because the Oracle WebLogic installer creates a temporary directory (for example, on Oracle Solaris it is `/var/tmp/wlstTemp`) that is shared by all users, and it is unable to differentiate between users. As a result, access to the directory is blocked when the user accessing the directory is not the one who originally created the directory. The workaround for this problem is to remove the installation and install it again after manually adjusting the temporary directory permissions. A user with superuser privileges can use the following command to adjust the permissions:

```
chmod -R 777 /var/tmp/wlstTemp
```

For more information, search the Oracle's BEA documentation for Oracle WebLogic.

Task 2-1-1: Obtaining Oracle WebLogic Installation Files from Oracle Software Delivery Cloud

At this point you should have already downloaded the necessary files from Oracle Software Delivery Cloud. If not, this section includes additional information on finding and using the files for Oracle WebLogic if necessary.

See "Preparing for Installation," Using Oracle Software Delivery Cloud to Obtain Installation Files.

To obtain the files for Oracle WebLogic installation:

1. After logging in to Oracle Software Delivery Cloud, on the Media Search Pack page, select *Oracle Fusion Middleware* from the Select a Product Pack drop-down list.
2. Select the operating system you are running on from the Platform drop-down list, and click Go.

The following operating systems are supported:

- IBM AIX
 - HP-UX Itanium
 - Linux
 - Microsoft Windows
 - Oracle Solaris on SPARC
 - Oracle Solaris on x86-64
3. Select the radio button for the Oracle Fusion Middleware 11g media pack for your platform and click Continue.

Note. The part numbers vary by platform.

4. Select Oracle WebLogic Server 11gR1 (10.3.6) Generic and Coherence for your platform, and click Download. Save the zip file to a temporary directory on your local system.

The directory where you save the zip file is referred to in this documentation as `WLS_INSTALL`. You must extract (unzip) the file on the platform for which it is intended. For example, if you download the zip file for Oracle Solaris, you must unzip it on Oracle Solaris to avoid problems. If you unzip the file to a staging directory on a Microsoft Windows computer and copy the staging directory to an Oracle Solaris, the stage area files may be corrupt.

Note. The part numbers are not the same as those for the media packs in the previous step.

5. Extract the files into *WLS_INSTALL*.

The Oracle WebLogic installer file is *wls1036_generic.jar*.

Note. If you need to FTP the downloaded file, make sure to FTP it in Binary mode.

Task 2-1-2: Installing JDK for Oracle WebLogic

This section discusses:

- Understanding the JDK Requirement for Oracle WebLogic
- Installing JDK for IBM AIX
- Installing JDK for HP-UX Itanium
- Installing JDK for Linux
- Installing JDK for Microsoft Windows
- Installing JDK for Oracle Solaris on SPARC
- Installing JDK for Oracle Solaris on x86-64

Understanding the JDK Requirement for Oracle WebLogic

Before beginning the Oracle WebLogic installation you must install the 64-bit Java 7 JDK. The specific JDK required depends upon the operating system and vendor, as described in this table:

Operating System Platforms	JDK Version Supported	64-bit or Mixed Mode*	Comments
IBM AIX	IBM JDK 7	64-bit	none
HP-UX Itanium	Hewlett-Packard JDK 7	Mixed mode	Use “-d64” to turn on 64-bit mode
Linux	Oracle JDK 1.7.0_02+	64-bit	none
Microsoft Windows	Oracle JDK 1.7.0_02+	64-bit	none
Oracle Solaris on SPARC	Oracle JDK 1.7.0_02+	Mixed mode	Requires two installers. Use “-d64” to turn on 64-bit mode.
Oracle Solaris on x86-64	Oracle JDK 1.7.0_02+	Mixed mode	Install the X86 JDK installer first and then the one for X64. Use “-d64” to turn on 64 bit mode.

* The mixed mode installers run in 32-bit by default. The parameter *-d64* is required to run them in 64-bit mode.

Installing JDK for IBM AIX

To install 64-bit IBM JDK for IBM AIX:

1. Go to the IBM JDK download site:

<http://www.ibm.com/developerworks/java/jdk/aix/service.html>

Note. You need a user name and password for downloading IBM JDK. If you don't have the required credentials, your AIX support personnel should be able to help.

2. Select the link for Java 7 64-bit under Java SE Version 7.
3. Register and log in to download.
4. Download Java7_64_sdk installer for version 1.7.0 or higher.
5. Install the JDK on the AIX computer where you will install the Oracle WebLogic server.

The directory where you install the JDK is referred to in this documentation as *JAVA_HOME*.

Installing JDK for HP-UX Itanium

To install Hewlett-Packard JDK for an Oracle WebLogic installation on HP-UX Itanium:

1. Go to the Hewlett-Packard download web site:
<https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=HPUXJDKJRE70>
2. Select the link for Version 7.0.00 – December 2011.
3. Provide the login credentials.
4. Provide the required information.
5. Click Next and download JDK.
6. Install the JDK on the computer where you will install the Oracle WebLogic server.

The directory where you install the JDK is referred to in this documentation as *JAVA_HOME*.

Installing JDK for Linux

To install 64-bit JDK for an Oracle WebLogic installation on Linux:

1. Go to the Oracle JDK download site:
<http://www.oracle.com/technetwork/java/javase/downloads/index.html>
2. Download Oracle Java 7 64-bit JDK version 1.7.0_02 or higher for Linux x86-64.
Refer to the JDK installation instructions at the following link:
<http://docs.oracle.com/javase/7/docs/webnotes/install/linux/linux-jdk.html>
3. Install the JDK on the computer where you will install the Oracle WebLogic server. The directory where you install the JDK is referred to in this documentation as *JAVA_HOME*.

Installing JDK for Microsoft Windows

To install 64-bit JDK for an Oracle WebLogic installation on Microsoft Windows:

1. Go to the Oracle JDK download site:
<http://www.oracle.com/technetwork/java/javase/downloads/index.html>
2. Download Oracle Java 7 64-bit JDK version 1.7.0_02 or higher for Microsoft Windows x86-64.
Refer to the JDK installation instructions at the following link:
<http://docs.oracle.com/javase/7/docs/webnotes/install/windows/jdk-installation-windows.html>

3. Install the JDK on the computer where you will install the Oracle WebLogic server. The directory where you install the JDK is referred to in this documentation as *JAVA_HOME*.

Installing JDK for Oracle Solaris on SPARC

To install JDK for an Oracle WebLogic installation on Oracle Solaris on SPARC (64-bit):

1. Go to the Oracle JDK download site:

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

2. Download the Oracle Java 7 64-bit JDK version 1.7.0_02 or higher for Solaris SPARC.

Be sure to get both files needed for 64-bit JDK for Solaris. The JDK is mixed mode, and the second installer enables the JDK to be run in 64-bit mode, which is triggered by the “-d64” parameter.

Refer to the installation instructions at the following link:

<http://docs.oracle.com/javase/7/docs/webnotes/install/solaris/solaris-jdk.html>

3. Install the JDK on the computer where you will install the Oracle WebLogic server.

The directory where you install the JDK is referred to in this documentation as *JAVA_HOME*.

Installing JDK for Oracle Solaris on x86-64

To install JDK for an Oracle WebLogic installation on Oracle Solaris on x86-64:

1. Go to the Oracle JDK download site:

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

2. Download the Sun Java 7 64-bit JDK version 1.7.0_02 or higher for both Oracle Solaris x86 and Oracle Solaris x64.

Oracle Solaris x64 requires users to first install the JDK for Oracle Solaris x86 and then run the JDK installer for Oracle Solaris x64. The JDK is mixed mode, and the second installer enables the JDK to be run in 64-bit mode, which is triggered by the “-d64” parameter.

Refer to the installation instructions at the following link:

<http://docs.oracle.com/javase/7/docs/webnotes/install/solaris/solaris-jdk.html>

3. Install the JDK on the computer where you will install the Oracle WebLogic server.

The directory where you install the JDK is referred to in this documentation as *JAVA_HOME*.

Task 2-1-3: Installing Oracle WebLogic on Microsoft Windows

The following procedure assumes that you saved the installation file *wls1036_generic.jar* from Oracle Software Delivery Cloud in the directory *WLS_INSTALL*. Installation in GUI mode is normally used for Microsoft Windows operating systems. You should have installed the appropriate JDK to *JAVA_HOME* before beginning this installation.

See Installing JDK for Oracle WebLogic.

Note. Previous releases of Oracle WebLogic Server, such as 9.2 MPX, and 10.3.X, can coexist with 10.3.6 on a single machine. The best practice is to install Oracle WebLogic 10.3.6 into an empty directory, or at least one that does not contain other Oracle WebLogic (previously BEA) products.

If you choose, however, to install this version of Oracle WebLogic in an existing *WLS_HOME* directory (for example, *c:\oracle*), you must shut down all instances of Oracle WebLogic Server running in that *WLS_HOME* before performing this installation.

To install Oracle WebLogic Server 10.3.6:

1. Open a command prompt and change directory to *WLS_INSTALL*.

Note. If you are running on a Microsoft Windows 2008 operating system, you must run the command prompt as administrator.

2. Set the environment variable *JAVA_HOME* to be the location where you installed the Oracle Java JDK 7. For example, if you installed JDK to *D:\Java703JDK64bit*, use this command:

```
set JAVA_HOME=D:\Java703JDK64bit
```

3. Use the following command to launch the installer:

```
%JAVA_HOME%\bin\java -jar wls1036_generic.jar -mode=GUI -log=logs⇒  
\wls1036Install.log
```

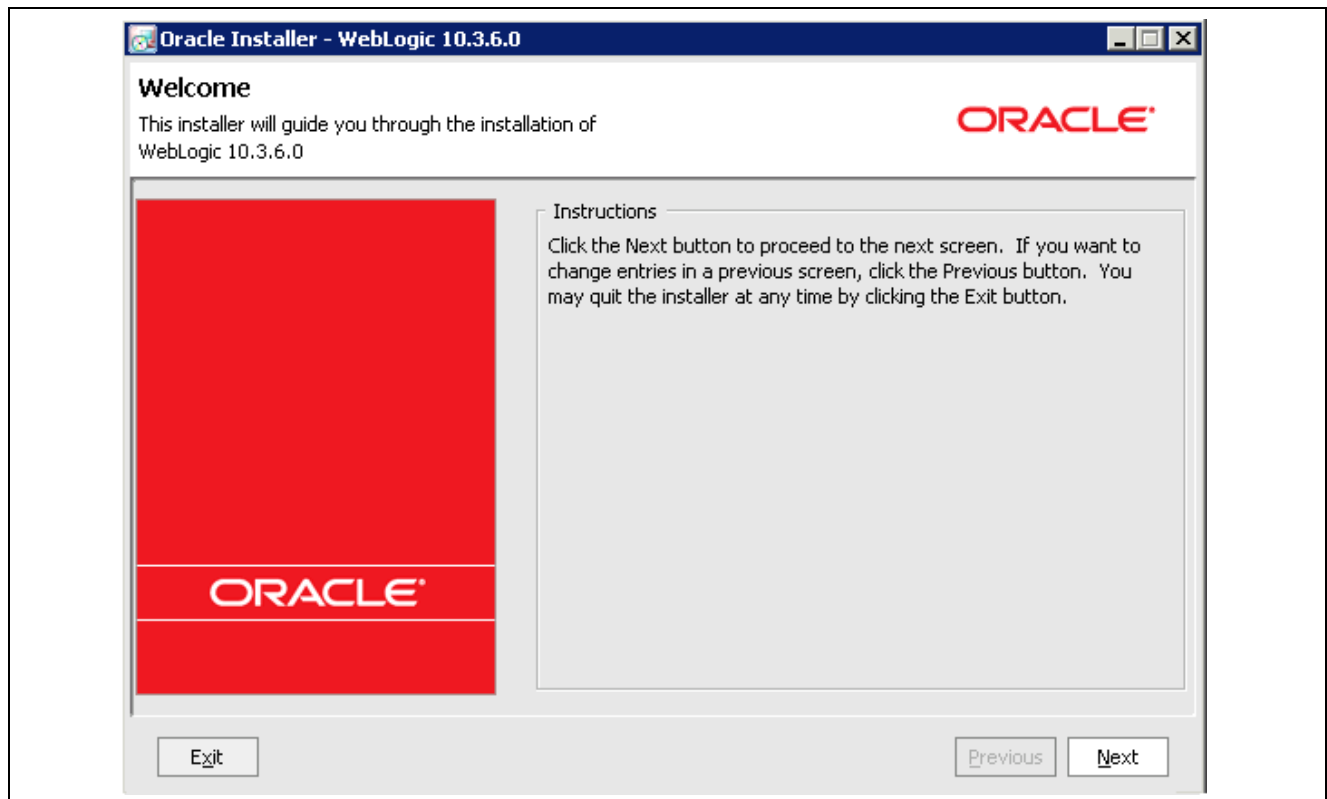
If your *JAVA_HOME* has spaces in the name, you can use double quotes around the name in the command line. For example:

```
set JAVA_HOME=D:\Program Files\jdk1.7.0_03  
"%JAVA_HOME%\bin\java" -jar wls1036_generic.jar -mode=GUI -log=logs⇒  
\wls1036Install.log
```

Note. It may take up to five minutes to extract the installer. The Welcome window appears when the extraction is complete.

4. Click Next on the Welcome window.

The window includes the informational text: “Click the Next button to proceed to the next screen. If you want to change entries in a previous screen, click the Previous button. You may quit the installer at any time by clicking the Exit button.”



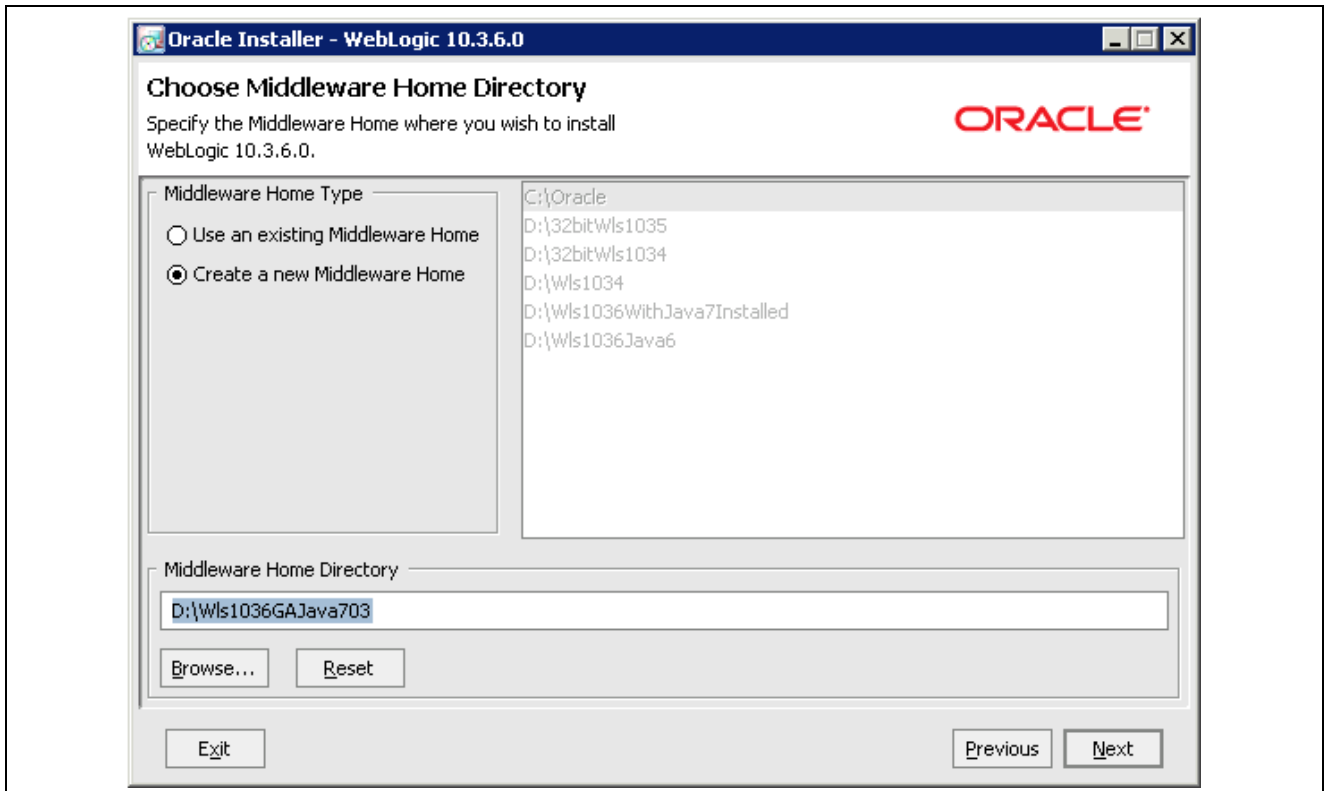
Welcome window for Oracle Installer - WebLogic 10.3.6

5. Select the option to Create a new Middleware Home, and enter a name or browse to an existing directory.

Do not choose a directory that contains an existing installation of Oracle Web Logic.

If the directory does not exist, the Oracle WebLogic installer creates it. The directory where you install Oracle WebLogic is referred to as *WLS_HOME* in this documentation. In this example *WLS_HOME* is D:\Wls1036GAJava703.

Click Next to continue.

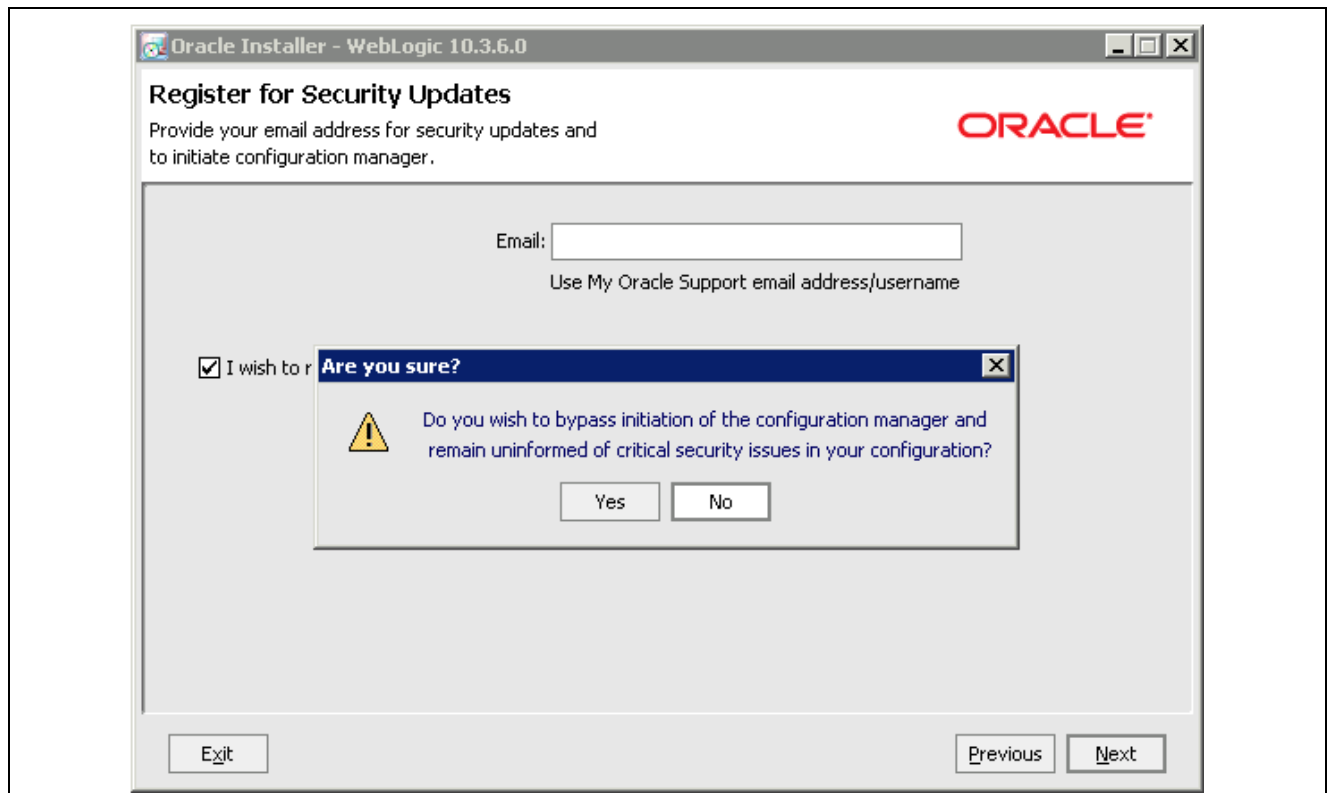


Creating a new directory on the Choose Middleware Home Directory window

6. Clear the option I wish to receive security updates via My Oracle Support on the Register for Security Updates window.

A dialog box labelled “Are you sure?” appears, as shown below, asking for confirmation with this query: “Do you wish to bypass initiation of the configuration manager and remain uninformed of critical security issues in your configuration?”

Click Yes in the "Are you sure?" dialog box.



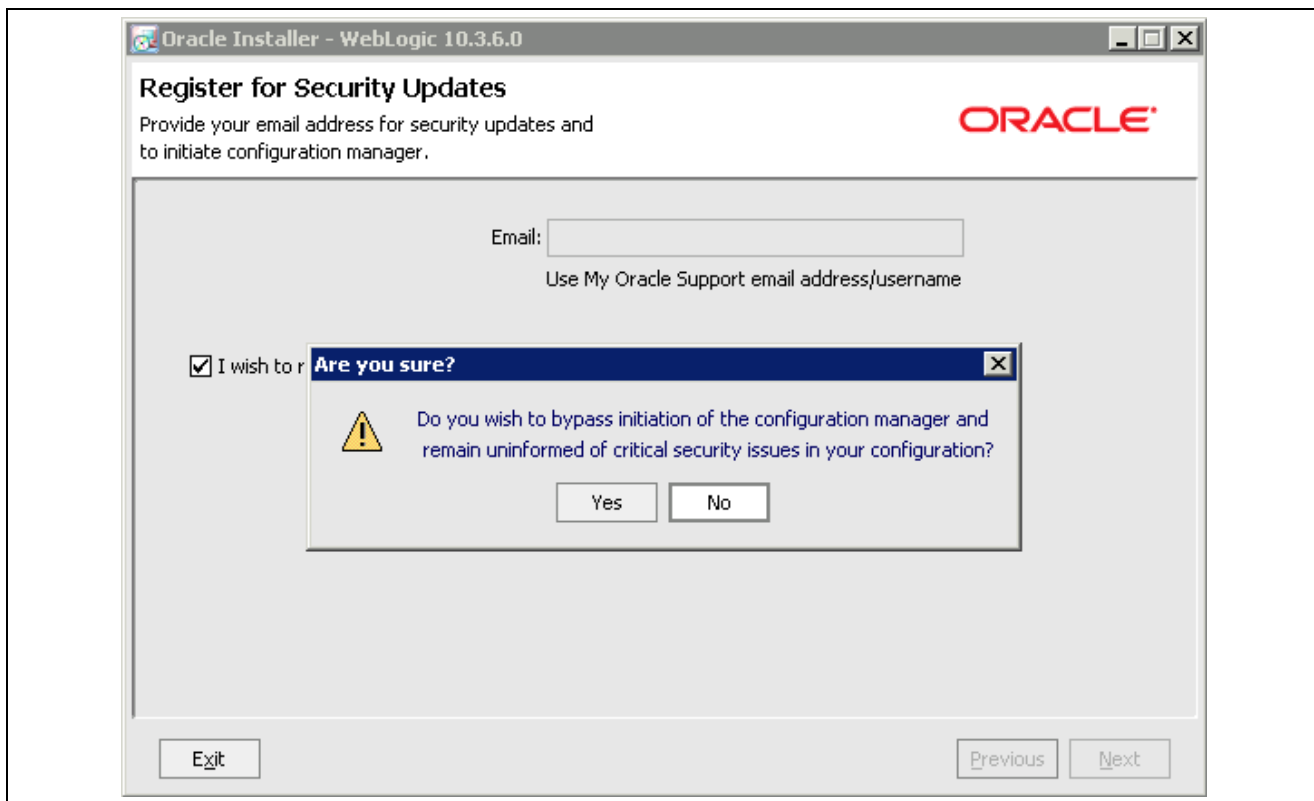
Confirming that you wish to bypass security update registration for the Oracle WebLogic installation

A dialog box labelled “Email Address Not Specified” appears; click Yes to confirm that you wish to remain uninformed of critical security issues:



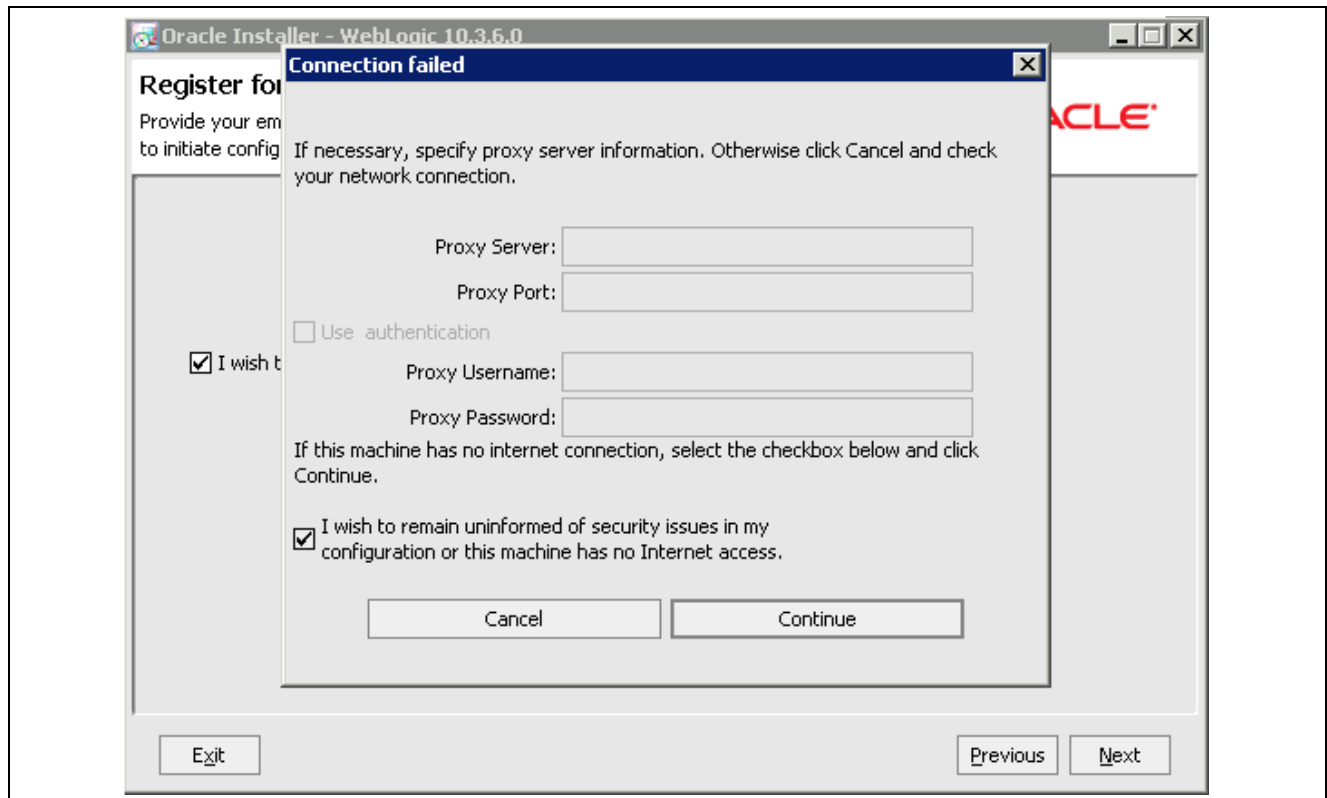
Email Address Not Specified dialog box

The “Are you sure?” dialog box appears again; click Yes.



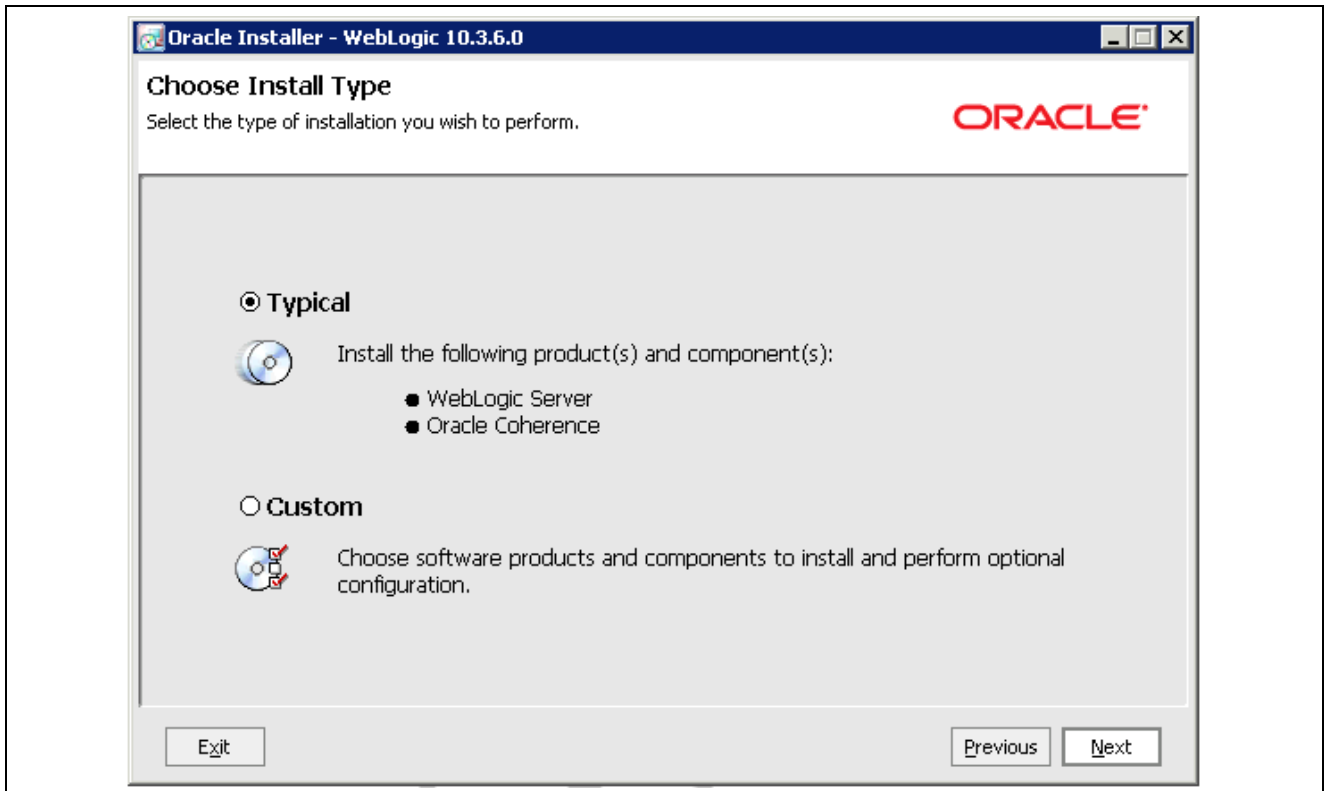
Are you sure dialog box

7. On the Connection failed dialog box, select the option “I wish to remain uninformed of security issues in my configuration or this machine has no Internet access.” and then click Continue.



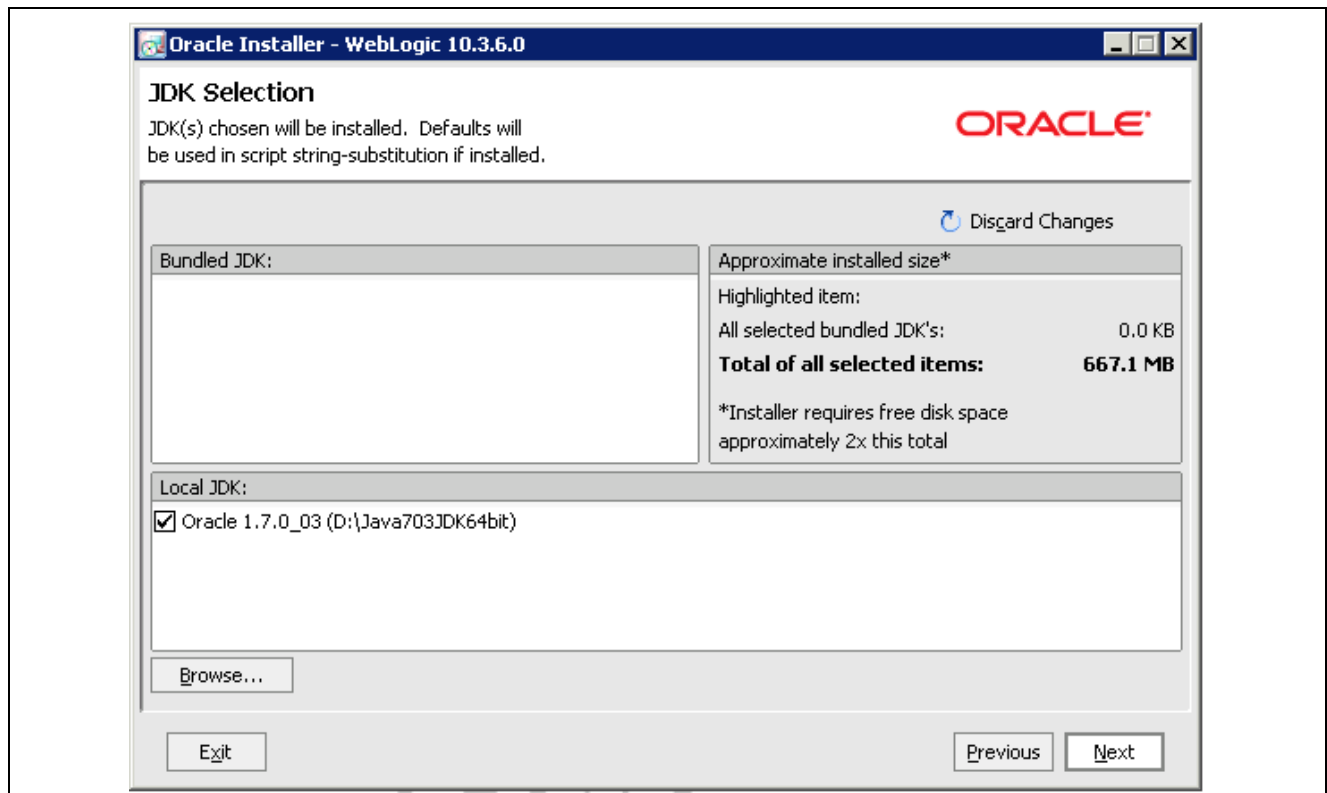
Connection failed dialog box seen during the Oracle WebLogic installation

8. Verify that the default option Typical is selected and click Next.



Choose Install Type window with Typical option selected

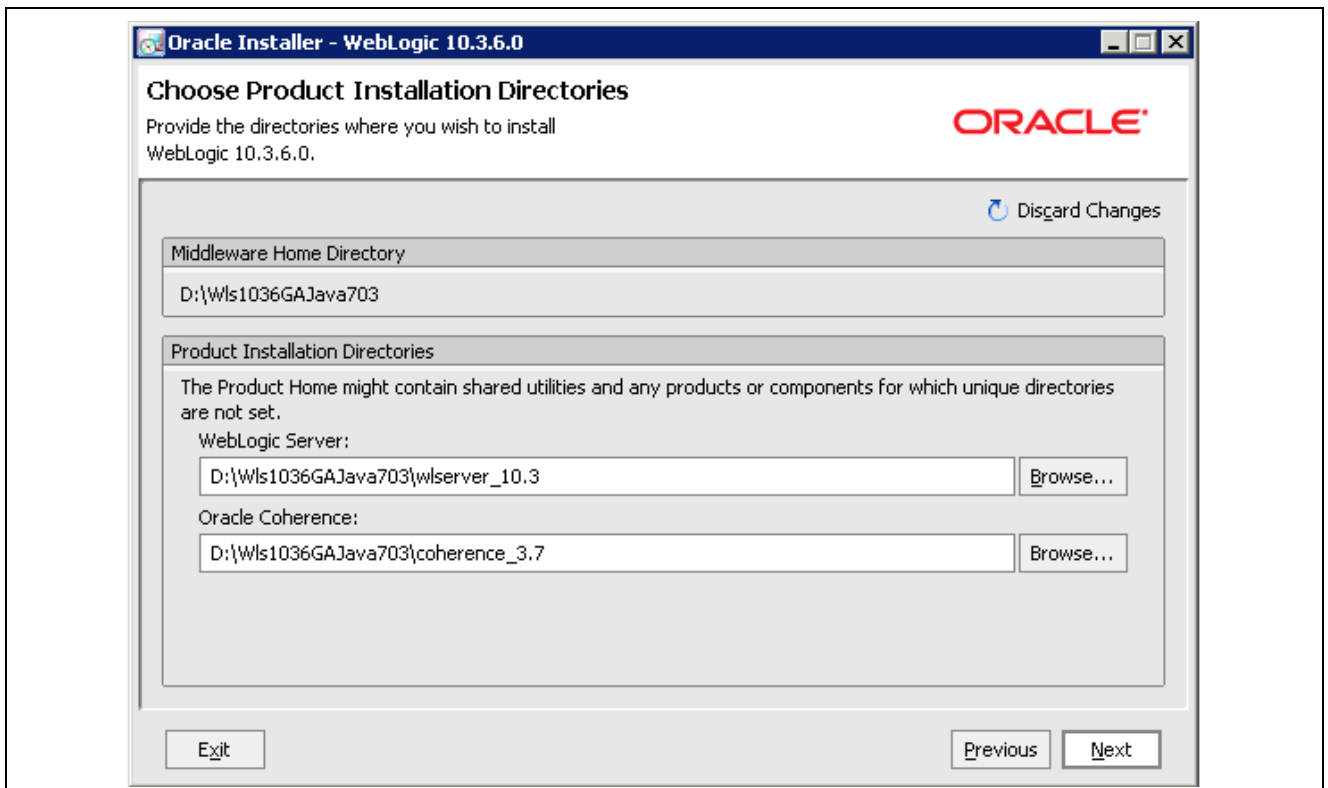
9. Accept the location where you installed the JDK, and then click Next on the JDK Selection window.
In this example the JDK selected under Local JDK is Oracle 1.7.0_03 (D:\Java703JDK64bit).



JDK Selection window

10. Accept the default selection in the Choose Product Installation Directories window, and click Next.

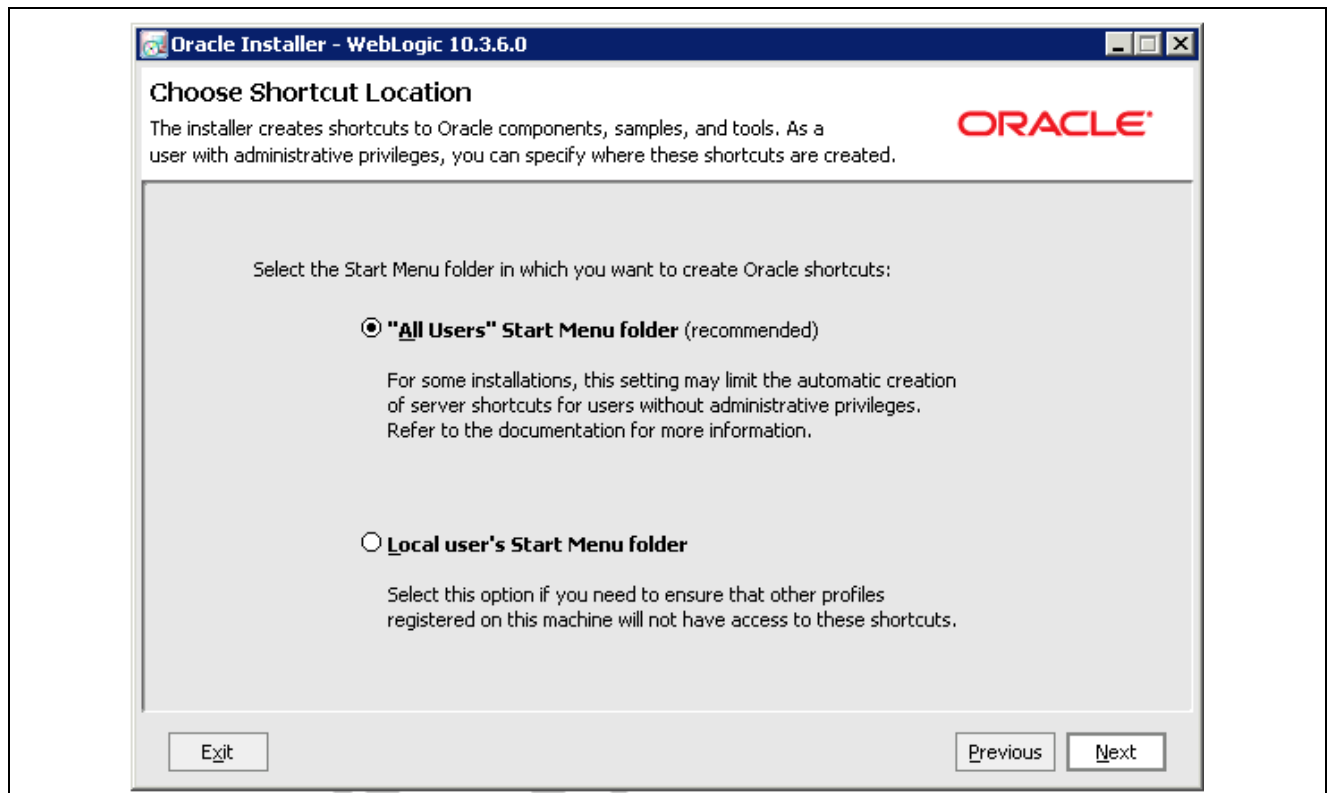
Note. Be sure to accept the default directory. This is important for interaction with Oracle support. In this example, the Middleware Home Directory is D:\WLs1036GAJava703, and the default product installation directory is D:\WLs1036GAJava703\wlserver_10.3.



Choose Product Installation Directories

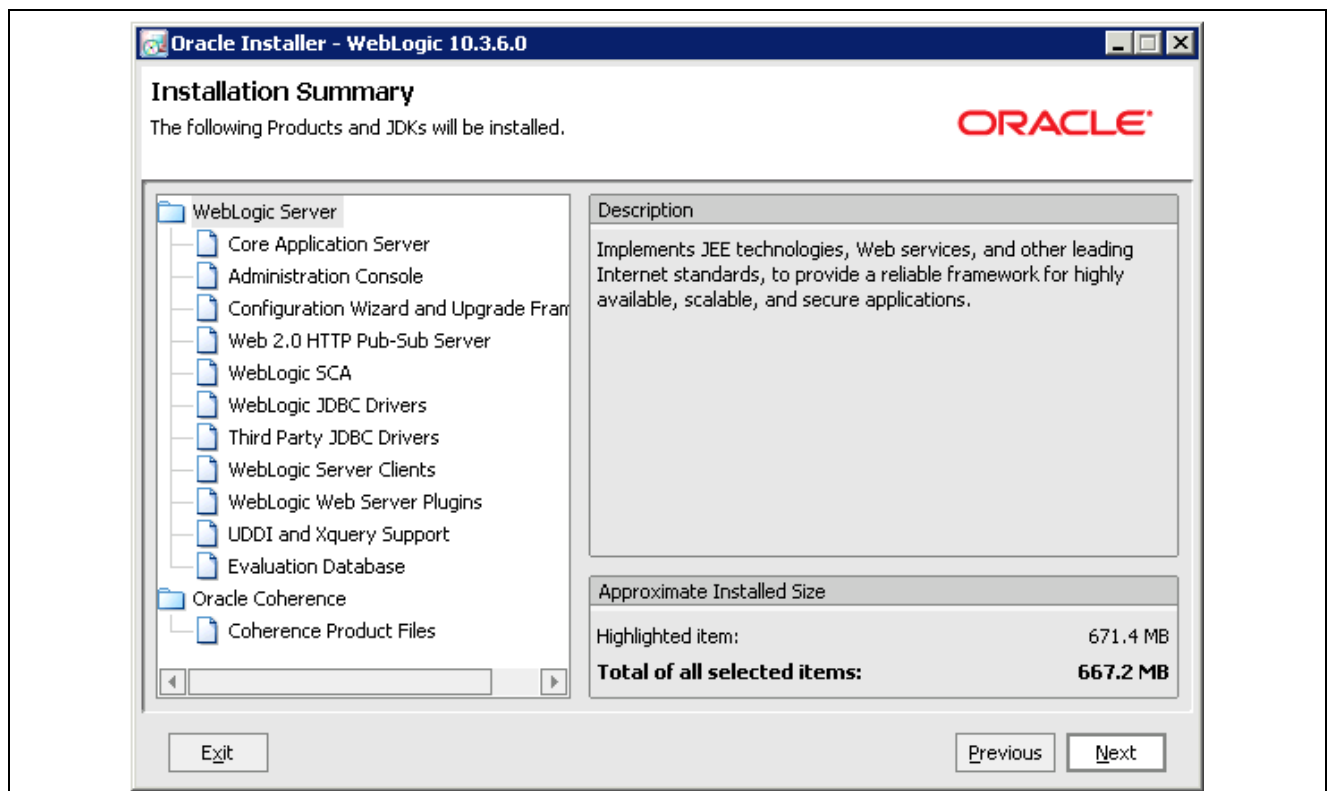
11. Accept the default selection, “All Users” Start Menu folder (recommended), on the Choose Shortcut Location window, and click Next.

Note. This window may not appear, depending upon your environment.



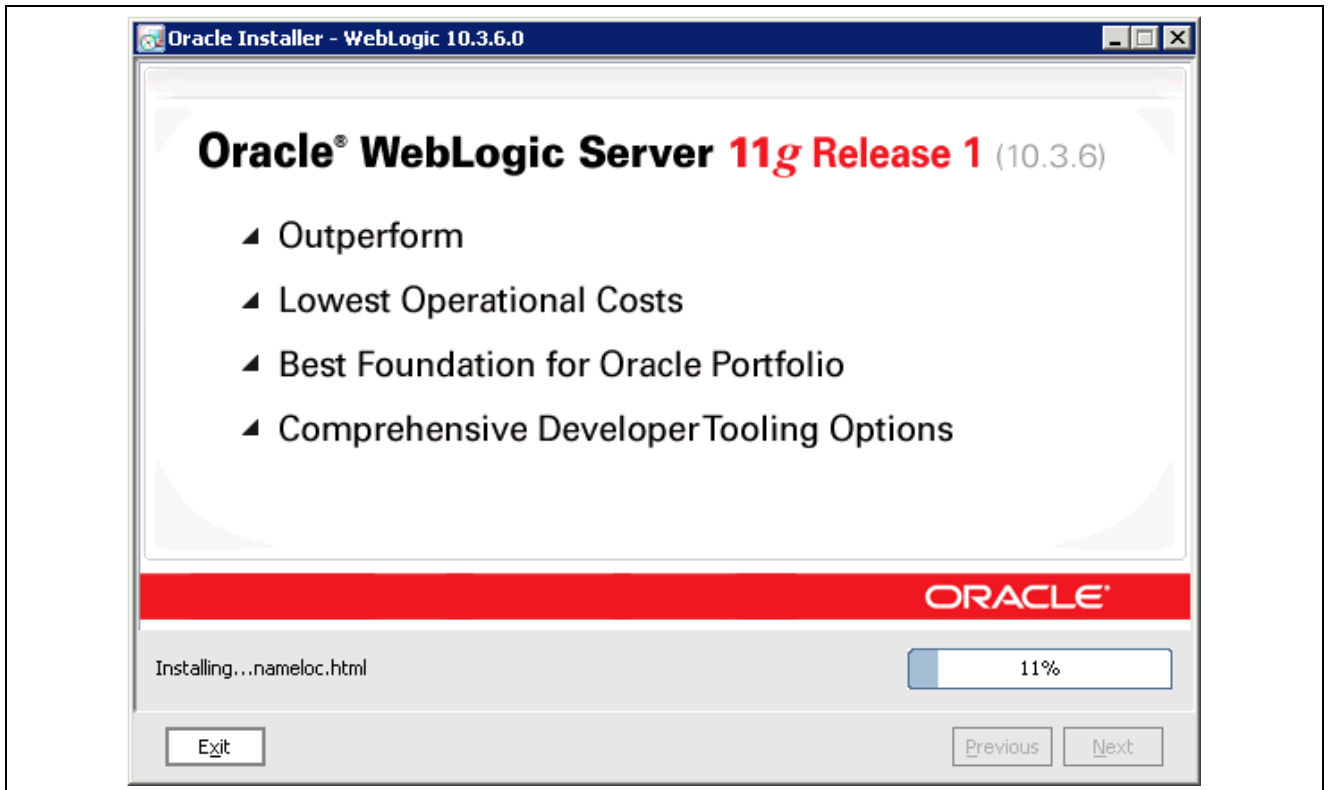
Choose Shortcut Location window

12. Verify your choices in the installation summary, and click Next to begin the installation.



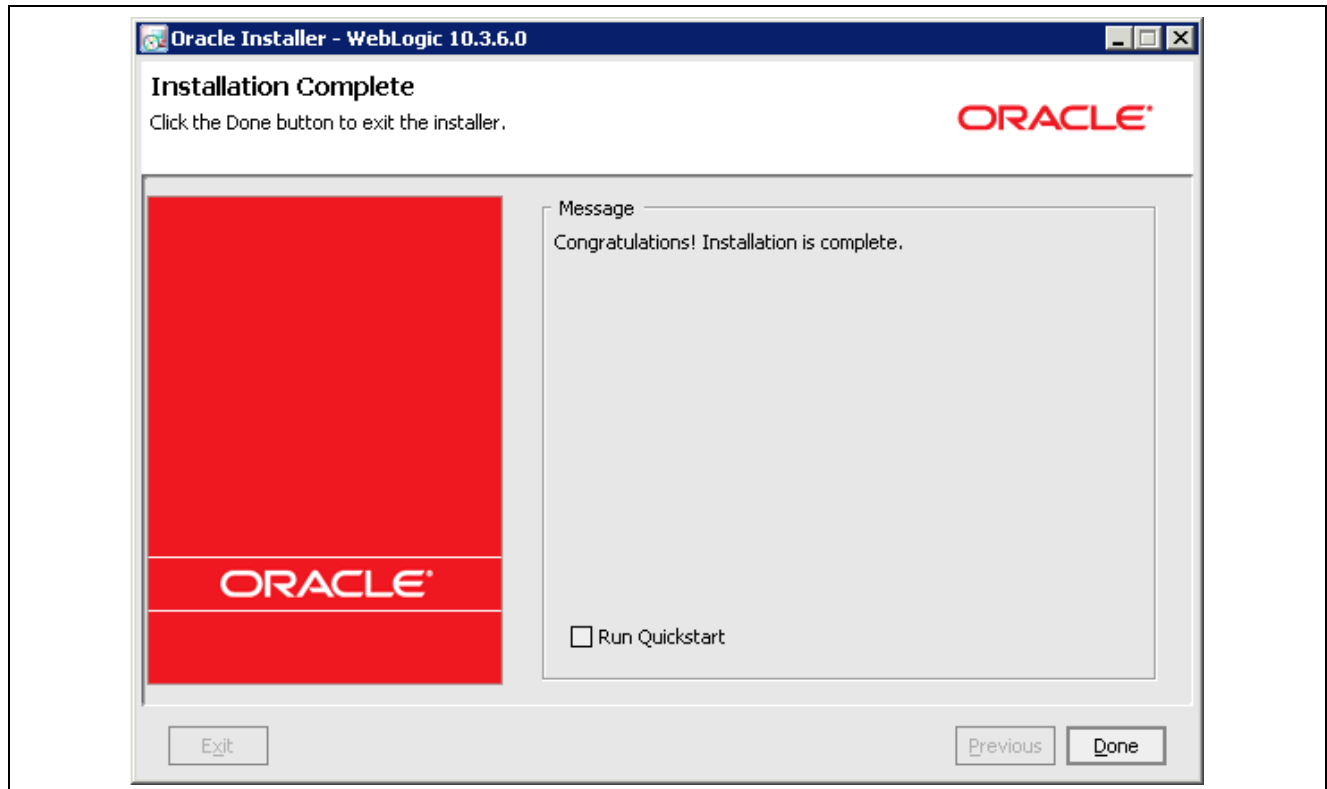
Installation Summary window

A window appears tracking the progress of the installation.



Installation progress indicator

13. When the installation has completed successfully, clear the Run Quickstart option, and click Done.



Installation Complete window

Task 2-1-4: Installing Oracle WebLogic on Linux or UNIX

The following procedure assumes that you saved the installation file `wls1036_generic.jar` from Oracle Software Delivery Cloud in the directory `WLS_INSTALL`. Installation in console mode is normally used for Linux and UNIX operating systems. You should have installed the appropriate JDK to `JAVA_HOME` before beginning this installation.

See Installing JDK for Oracle WebLogic.

To install Oracle WebLogic in console mode:

1. Change directory to `WLS_INSTALL` and make the installer file executable using the following command:

```
chmod a+x wls1036_generic.jar
```

If you downloaded the zip file for the Oracle WebLogic installation from Oracle Software Delivery Cloud to a Microsoft Windows computer, FTP the zip file in binary mode to your Linux or Oracle Solaris computer before unzipping it into `WLS_INSTALL`.

2. In a shell window, change directory to the location where you saved the installer:

```
cd WLS_INSTALL
```

3. Set the environment variable `JAVA_HOME` to be the location where you installed the JDK.

For example, if you installed the JDK to “`/jdk/prod/jdk1.7.0_04-64bit`” use these commands:

```
JAVA_HOME=/jdk/prod/jdk1.7.0_04-64bit
export JAVA_HOME
```

4. Use the following command to launch the installer and specify a log file:

Note. The installer creates a log file named `wls1036Install.log` in the directory `WLS_INSTALL/logs`. Be sure you have write permission to the `WLS_INSTALL` directory.

- For IBM AIX or Linux:

```
{JAVA_HOME}/bin/java -jar ./wls1036_generic.jar -mode=console -log=./logs⇒
/Wls1036Install.log
```

- For HP-UX Itanium or Oracle Solaris (on SPARC or x86-64):

```
{JAVA_HOME}/bin/java -d64 -jar ./wls1036_generic.jar -mode=console -log=⇒
/logs/Wls1036Install.log
```

Note. The JVM parameter `-d64` is required for Oracle Solaris and HP-UX Itanium platforms.

5. Type `Next` and press `ENTER` after the welcome message shown in this example:

```
<----- Oracle Installer - WebLogic 10.3.6.0 ----->

Welcome:
-----

This installer will guide you through the installation of WebLogic 10.3.6.0.
Type "Next" or enter to proceed to the next prompt. If you want to change data
entered previously, type "Previous". You may quit the installer at any time by
typing "Exit".

Enter [Exit][Next]> █
```

Oracle WebLogic Installer Welcome prompt

The prompt includes the following information:

```
This installer will guide you through the installation of WebLogic 10.3.6.0.
Type "Next" or enter to proceed to the next prompt. If you want to change data⇒
entered previously, type "Previous". You may quit the installer at any time⇒
by typing "Exit".
```

6. Accept the option to Create a new Middleware Home at the next prompt.

You see this prompt only if there are existing Oracle WebLogic installations on your computer. If the installer does not find an existing Middleware Home on your computer, it skips this step.

The installer lists the existing Oracle WebLogic installations on your computer. The selection arrow should point to *Create a new Middleware Home*. Type `Next` to accept this default option.

Note. Do not type a number; simply type `Next`.

```

<----- Oracle Installer - WebLogic 10.3.6.0 ----->

Choose Middleware Home Directory:
-----

->1|* Create a new Middleware Home
   2|/home/ms23546/Wls1036Java7Onrno208090

Enter index number to select OR [Exit][Previous][Next]> Next

```

Choose Middleware Home Directory prompt

7. Enter the full path where you want to install Oracle WebLogic, and press ENTER.

Install Oracle WebLogic Server 10.3.6 into a new location, different from where you installed your previous versions of Oracle WebLogic Server including Oracle WebLogic Server 10.3.4. In this example, *WLS_HOME* is `/home/ms23546/Wls1036Java7OnSlc00ca`. The default in the prompt is `/home/ms23546/Oracle/Middleware`.

The directory where you install Oracle WebLogic is referred to as *WLS_HOME* in this documentation. If the directory does not exist, the installer creates it for you.

```

<----- Oracle Installer - WebLogic 10.3.6.0 ----->
----->

Choose Middleware Home Directory:
-----

"Middleware Home" = [Enter new value or use default
"/home/ms23546/Oracle/Middleware"]

Enter new Middleware Home OR [Exit][Previous][Next]> /home/ms23546/Wls10
36Java7OnSlc00ca

```

Entering a new Middleware Home directory

8. Type Next at the confirmation prompt displaying the Middleware Home directory, and press ENTER.

```

<----- Oracle Installer - WebLogic 10.3.6.0 ----->

Choose Middleware Home Directory:
-----

"Middleware Home" = [/home/ms23546/Wls1036Java7OnSlc00ca]

Use above value or select another option:
  1 - Enter new Middleware Home
  2 - Change to default [/home/ms23546/Oracle/Middleware]

Enter option number to select OR [Exit][Previous][Next]> Next

```

Middleware Home confirmation prompt

9. At the prompt to register for security updates, type 3 for Receive Security Update, and press ENTER.

Note. In the next few steps, you will bypass the security updates registration.

```
<----- Oracle Installer - WebLogic 10.3.6.0 ----->
----->

Register for Security Updates:
-----

Provide your email address for security updates and to initiate configuration manager.

1|Email: []
2|Support Password: []
3|Receive Security Update: [Yes]

Enter index number to select OR [Exit][Previous][Next]> 3
```

Register for Security Updates prompt

10. Type *No* when asked to provide your email address and press ENTER at the following prompt, “Receive Security Update”:

```
<----- Oracle Installer - WebLogic 10.3.6.0 ----->
----->

Register for Security Updates:
-----

Provide your email address for security updates and to initiate configuration manager.

"Receive Security Update:" = [Enter new value or use default "Yes"]

Enter [Yes][No]? No
```

Entering NO at the prompt to Receive Security Update

11. Type *Yes* and press ENTER to confirm your choice to bypass the registration at the prompt with this question: “Do you wish to bypass initiation of the configuration manager and remain uninformed of critical security issues in your configuration?”

```
<----- Oracle Installer - WebLogic 10.3.6.0 ----->
----->

Register for Security Updates:
-----

Provide your email address for security updates and to initiate configuration manager.

    "Receive Security Update:" = [Enter new value or use default "Yes"]

    ** Do you wish to bypass initiation of the configuration manager and
    ** remain uninformed of critical security issues in your configuration?

Enter [Yes][No]? Yes
```

Confirming the choice to bypass registration for security updates

12. Type *Next* at the following prompt and press ENTER.

Note that the value *No* is now populated for item 3, "Receive Security Update".

```
<----- Oracle Installer - WebLogic 10.3.6.0 ----->
----->

Register for Security Updates:
-----

Provide your email address for security updates and to initiate configuration manager.

    1|Email: []
    2|Support Password: []
    3|Receive Security Update: [No]

Enter index number to select OR [Exit][Previous][Next]> Next
```

Verifying the choice to bypass the security updates

13. Enter *1* to select a Typical installation at the Choose Install Type prompt:

```

<----- Oracle Installer - WebLogic 10.3.6.0 ----->
----->

Choose Install Type:
-----

Select the type of installation you wish to perform.

->1|Typical
   |  Install the following product(s) and component(s):
   |  - WebLogic Server
   |  - Oracle Coherence
   |
   |2|Custom
   |  Choose software products and components to install and perform op
   |tional
   |configuration.

Enter index number to select OR [Exit][Previous][Next]> 1

```

Choose Install Type prompt with Typical installation selected

14. Type Next and press ENTER to confirm the JDK location at the JDK Selection prompt.

The location in this example is selection 2, /ds1/products/jdk/jdk1.7.0_04-64bit.

```

<----- Oracle Installer - WebLogic 10.3.6.0 ----->
----->

JDK Selection (Any * indicates Oracle Supplied VM):
-----

JDK(s) chosen will be installed. Defaults will be used in script string-substit
ution if installed.

   1|Add Local Jdk
   2|/ds1/products/jdk/jdk1.7.0_04-64bit[x]

   *Estimated size of installation:  690.2 MB

Enter 1 to add or >= 2 to toggle selection OR [Exit][Previous][Next]> Next

```

JDK Selection window

15. Accept the default selection at the Choose Product Installation Directories prompt, and type Next.

Note. Be sure to accept the default directory. This is important for interaction with Oracle support.

The Middleware Home Directory in this example is /home/ms23546/Wls1036Java7OnSlc00ca, and the product installation directory is /home/ms23546/Wls1036Java7OnSlc00ca/wlserver_10.3.

```

<----- Oracle Installer - WebLogic 10.3.6.0 ----->

Choose Product Installation Directories:
-----

Middleware Home Directory: [/home/ms23546/Wls1036Java70nSlc00ca]

Product Installation Directories:

1|WebLogic Server: [/home/ms23546/Wls1036Java70nSlc00ca/wlserver_10.3]
2|Oracle Coherence: [/home/ms23546/Wls1036Java70nSlc00ca/coherence_3.7]

Enter index number to select OR [Exit][Previous][Next]> Next

```

Choose Product Installation Directories prompt

16. Verify your choices in the installation summary, and type Next to begin the installation.

```

<----- Oracle Installer - WebLogic 10.3.6.0 ----->
----->

The following Products and JDKs will be installed:
-----

WebLogic Platform 10.3.6.0
|   WebLogic Server
|   |   Core Application Server
|   |   Administration Console
|   |   Configuration Wizard and Upgrade Framework
|   |   Web 2.0 HTTP Pub-Sub Server
|   |   WebLogic SCA
|   |   WebLogic JDBC Drivers
|   |   Third Party JDBC Drivers
|   |   WebLogic Server Clients
|   |   WebLogic Web Server Plugins
|   |   UDDI and Xquery Support
|   |   Evaluation Database
|   |   Oracle Coherence
|   |   Coherence Product Files

*Estimated size of installation: 690.3 MB

Enter [Exit][Previous][Next]> Next

```

Prompt showing which products and JDKs will be installed

A progress indicator appears.

17. Type Exit when the installation is complete.


```

<----- Oracle Installer - WebLogic 10.3.6.0 ----->

Configuring OCM...

0%          25%          50%          75%          100%
[-----|-----|-----|-----]
[*****]

Creating Domains...

<----- Oracle Installer - WebLogic 10.3.6.0 ----->

Installation Complete

Congratulations! Installation is complete.

Press [Enter] to continue or type [Exit]>

```

Prompt showing progress and Installation Complete message

If the installation fails, review the events in the log file *WLS_INSTALL/logs/Wls1036Install.log*.

Task 2-1-5: Installing Oracle WebLogic on Linux or UNIX in Silent Mode

Installation in console mode is normally used for Linux and UNIX operating systems, but you also may use the silent mode installation. The following procedure assumes that you saved the installation file *wls1036_generic.jar* from Oracle Software Delivery Cloud in the directory *WLS_INSTALL*. You should have installed the appropriate JDK to *JAVA_HOME* before beginning this installation.

To run the Oracle WebLogic installation in silent mode:

1. Download the Oracle WebLogic installation file and save it in a local directory, referred to here as *WLS_INSTALL*.

If you downloaded the zip file for the Oracle WebLogic installation from Oracle Software Delivery Cloud to a Microsoft Windows computer, FTP the zip file in binary mode to your Linux or Oracle Solaris computer before unzipping it into *WLS_INSTALL*.

2. Change directory to *WLS_INSTALL* and make the installer file executable using the following command:

```
chmod a+x wls1036_generic.jar
```

3. In a shell window, change directory to *WLS_INSTALL*:

```
cd WLS_INSTALL
```

4. Set *JAVA_HOME* to be the location where you installed the JDK.

For example, if the JDK had been installed under “/opt/java1.7.0”, use the following commands:

```
JAVA_HOME=/opt/java1.7.0
export JAVA_HOME
```

5. Copy the following content into a text editor and save it in XML format as *installer.xml*:

Note. Review the text and remove the line-continuation arrows, (\Rightarrow) before saving. The name “installer.xml” will later be used in the command to launch the Oracle WebLogic installer.

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Silent installer option: -mode=silent -silent_xml=/home/me/silent.xml -->
<domain-template-descriptor>
<input-fields>
  <data-value name="BEAHOME" value="ToBeReplacedWithWL1036HOME" />
  <data-value name="WLS_INSTALL_DIR" value="ToBeReplacedWithWL1036HOME/wlserver_
10.3" />
  <data-value name="COMPONENT_PATHS" value="WebLogic Server/Core Application⇒
Server|WebLogic Server/Administration Console|WebLogic Server/Configuration⇒
Wizard and Upgrade Framework|WebLogic Server/Web 2.0 HTTP Pub-Sub Server|Web⇒
Logic Server/WebLogic JDBC Drivers|WebLogic Server/Third Party JDBC Drivers|Web⇒
Logic Server/WebLogic Server Clients|WebLogic Server/WebLogic Web Server⇒
Plugins|WebLogic Server/UDDI and Xquery Support|WebLogic Server/Workshop Code⇒
Completion Support|WebLogic Server/WebLogic SCA|WebLogic Server/Evaluation⇒
Database|Oracle Coherence/Coherence Product Files" />
  <data-value name="INSTALL_NODE_MANAGER_SERVICE" value="no" />
</input-fields>
</domain-template-descriptor>
```

6. Create a local directory to install Oracle WebLogic, referred to here as *WLS_HOME*.
7. Using the text replacement utility in your text editor, replace all occurrences of the string: “ToBeReplacedWithWL1036HOME” with the actual directory path you created for the Oracle WebLogic 10.3.6 installation.

Note. Install Oracle WebLogic 10.3.6 to a location different from the location where you installed previous versions of Oracle WebLogic, including version 10.3.4.

In this example, *WLS_HOME* is /home/ms23546/Wls1036Java7OnSlc00ca-Silent. Note that the text is in bold font for readability:

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Silent installer option: -mode=silent -silent_xml=/home/me/silent.xml -->
<domain-template-descriptor>
<input-fields>
  <data-value name="BEAHOME" value="/home/ms23546/Wls1036Java7OnSlc00ca-Silent"⇒
/>
  <data-value name="WLS_INSTALL_DIR" value="/home/ms23546/Wls1036Java7OnSlc00ca⇒
Silent/wlserver_10.3" />
  <data-value name="COMPONENT_PATHS" value="WebLogic Server/Core Application⇒
Server|WebLogic Server/Administration Console|WebLogic Server/Configuration⇒
Wizard and Upgrade Framework|WebLogic Server/Web 2.0 HTTP Pub-Sub Server|Web⇒
Logic Server/WebLogic JDBC Drivers|WebLogic Server/Third Party JDBC Drivers|Web⇒
Logic Server/WebLogic Server Clients|WebLogic Server/WebLogic Web Server⇒
Plugins|WebLogic Server/UDDI and Xquery Support|WebLogic Server/Workshop Code⇒
Completion Support" />
```

```
<data-value name="INSTALL_NODE_MANAGER_SERVICE" value="no" />
</input-fields>
</domain-template-descriptor>
```

8. Save the installer.xml file in ASCII mode in *WLS_INSTALL*.

If it is necessary, FTP it in ASCII mode into the *WLS_INSTALL* directory.

9. Run the following command in the *WLS_INSTALL* directory to launch the installer:

For IBM AIX or Linux:

```
${JAVA_HOME}/bin/java -jar ./wls1036_generic.jar -mode=silent -silent_xml=>
./installer.xml -log=./logs/Wls1036Install.log
```

For HP-UX Itanium or Oracle Solaris (on SPARC or x86-64):

```
${JAVA_HOME}/bin/java -d64 -jar ./wls1036_generic.jar -mode=silent -silent_xml=>
./installer.xml -log=./logs/wls1036Install.log
```

Note. The JVM parameter “-d64” is required for HP-UX Itanium or Oracle Solaris.

A progress indicator tracks the installation.

10. When the installation is complete, open the *WLS_INSTALL/logs/wls1036Install.log* file with a text editor to confirm that the installation was successful.

At the end of the log file, you should see the message “The installation was successful!”

Task 2-1-6: Configuring JDK for Daylight Savings Time Change

The version of JDK mentioned in the previous section Installing JDK for Oracle WebLogic includes the Daylight Saving Time (DST) rules available at the time of packaging. If new rules are implemented after this time, you should use the instructions in this section to update the time zone definition files.

You can skip this section unless a change to the DST rules has happened near or after the general availability date of Oracle WebLogic or PeopleSoft PeopleTools. Consult the information on configuring PeopleSoft timezone definitions in the *PeopleTools: Global Technology* product documentation.

This section provides an example of how the time zone updater utility (TZUPDATER), supplied by each of the four JDK vendors can be used to update the time zone definition files contained in the JDK used by Oracle WebLogic server.

1. Identify and shut down any JVM processes that are using the JDK that you will be updating.
2. For future reference or restoration, back up the location where the targeted JDK is located.

The JDK being used for different operating systems is different. For Oracle WebLogic 10.3.6, refer to the *commEnv.cmd* (for Windows), or *commEnv.sh* (for UNIX) file under *WLS_HOME\wlserver_10.3\common\bin* to determine the setting for *JAVA_HOME* and the exact name and location for the JDK being used by your Oracle WebLogic server. *WLS_HOME* is the directory where Oracle WebLogic is installed.

3. Download the appropriate updater utility for your operating system from the JDK vendor, as listed in this table:

Operating System	Vendor	Time Zone Updater URL
HP-UX Itanium	Hewlett Packard	http://www.hp.com/go/java (Select the “DST” link.)
IBM AIX 5L	IBM	http://www-128.ibm.com/developerworks/java/jdk/dst/index.html
Linux	Oracle	http://www.oracle.com/technology/software/products/jrockit/index.html
Microsoft Windows	Oracle	http://www.oracle.com/technology/software/products/jrockit/index.html
Oracle Solaris (on SPARC and x86-64)	Oracle	http://java.sun.com/javase/tzupdater_README.html

Each tzupdater provided by the vendor comes with instructions (typically in a readme file) describing how to:

- Locate the correct JDK.
- Apply classes using the tzupdater or provided scripts.
- Check tzupdater versions.

Read the instructions carefully as the steps and instructions are vendor-specific. Keep in mind that these instructions and versions may be updated when the vendor finds it necessary.

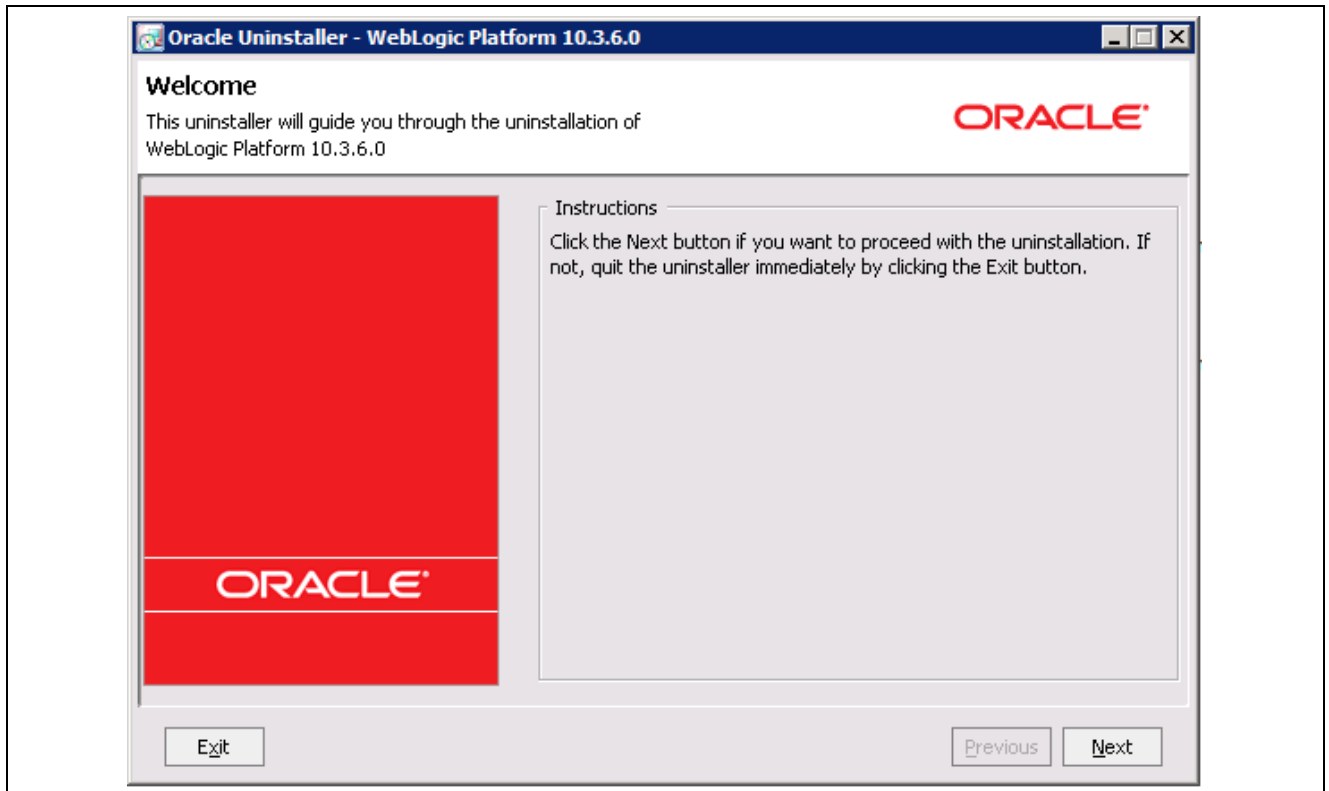
Note. After successfully running the TZUPDATER to update a JDK location, the changes will take effect only for newly started Java processes from that location. In the event that you did not identify and stop all Java processes running from this location, it will be necessary to stop and restart these for the changes to take effect.

Task 2-1-7: Removing the Oracle WebLogic Installation on Microsoft Windows

To remove the Oracle WebLogic installation on Microsoft Windows (GUI mode):

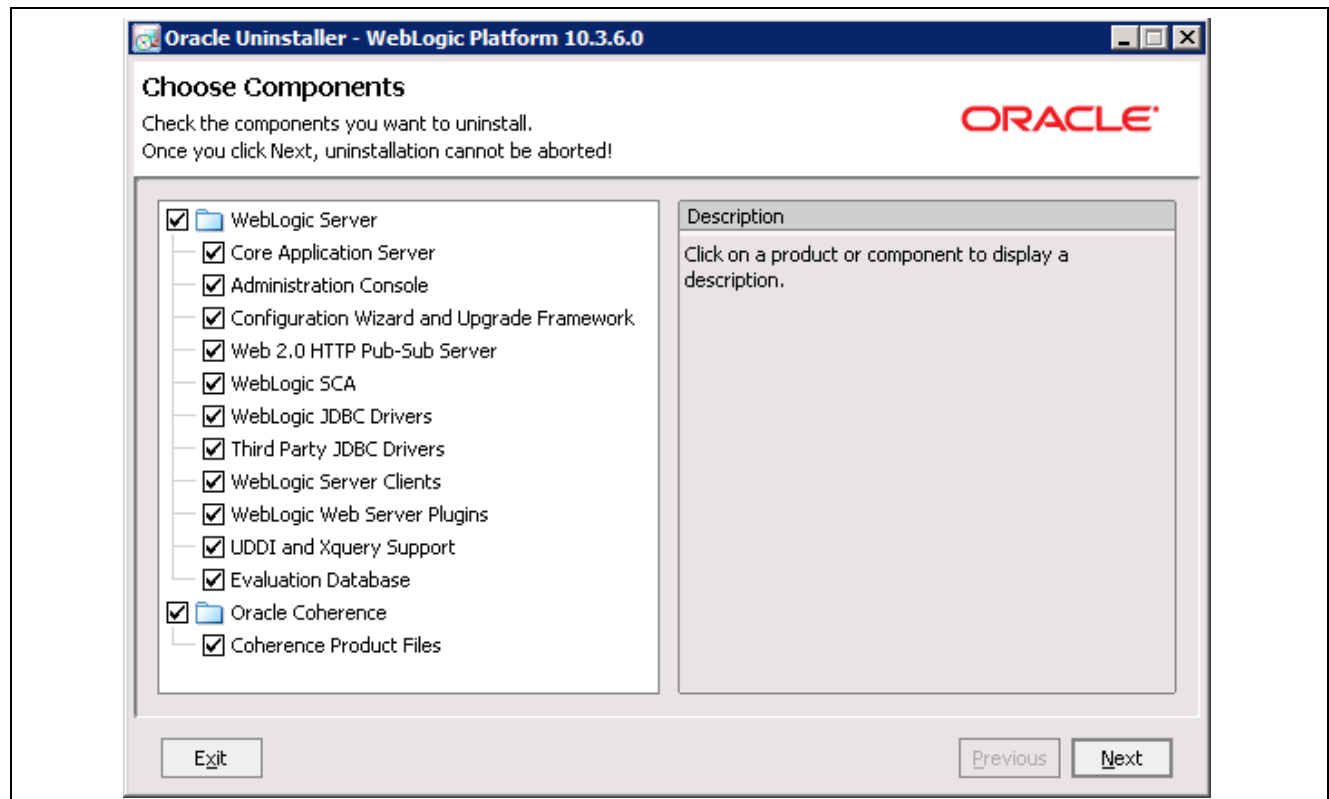
1. Select Start, Programs, Oracle WebLogic, Uninstall Oracle WebLogic.

The welcome window includes the informational text: “Click the Next button if you want to proceed with the uninstallation. If not, quit the uninstaller immediately by clicking the Exit button.”



Oracle WebLogic Uninstaller: Welcome window

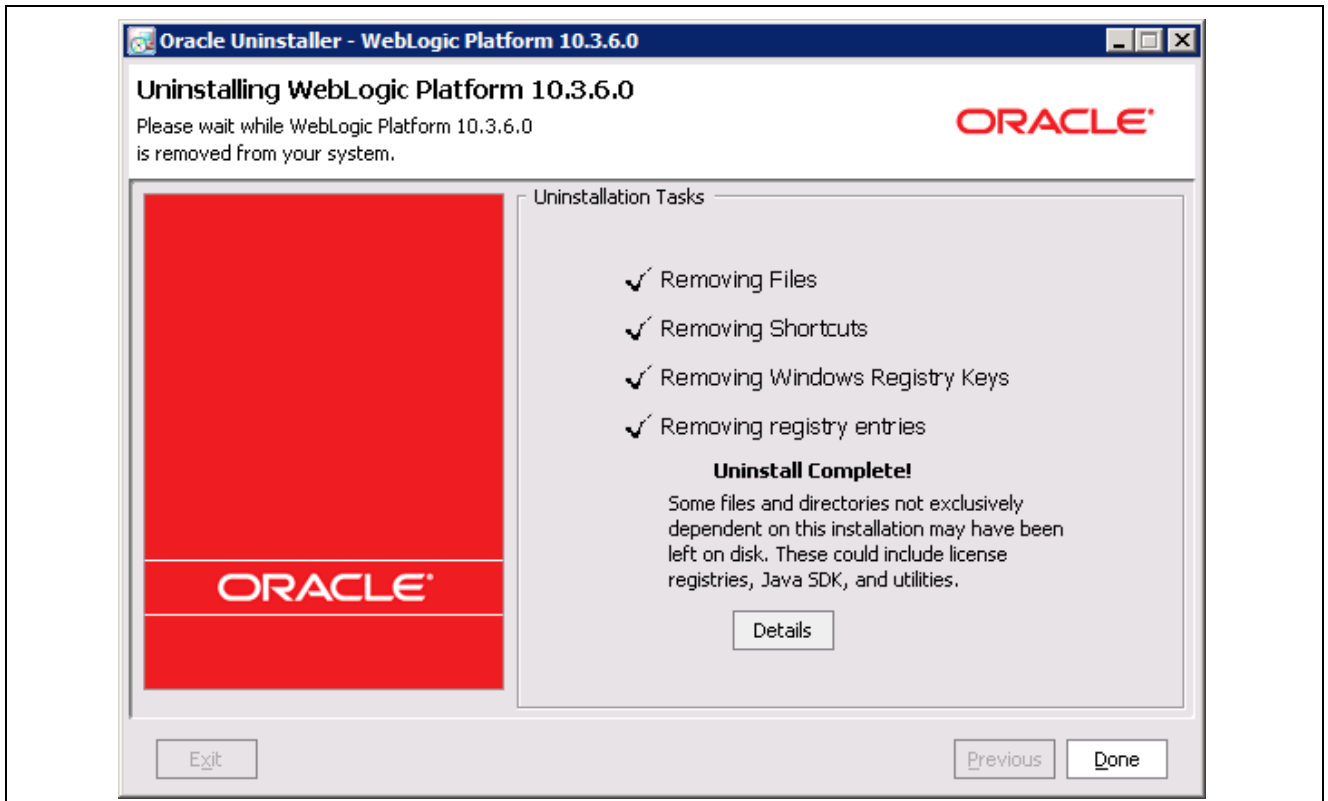
2. Select the components that you want to uninstall (by default all components are selected as shown in this example) and click Next.



Oracle WebLogic Uninstaller: Choose Components window

A progress indicator tracks the components being removed.

3. After all the components are uninstalled, click Done.



Oracle WebLogic Uninstaller: Uninstall Complete window

4. Remove the *WLS_HOME* directory after the uninstallation.

Task 2-1-8: Removing the Oracle WebLogic Installation in Console Mode

To remove the Oracle WebLogic installation on UNIX or Linux in console mode:

1. Change directory to *WLS_HOME/weblogic_10.3/uninstall*.
2. Run the following command to launch the uninstaller:

```
uninstall.sh
```

Note. To run the uninstaller on Microsoft Windows in console mode, use the command `uninstall.cmd`.

3. Type Next at the Welcome prompt:

```
<-----Oracle Uninstaller - WebLogic Platform 10.3.6.0----->
Welcome:
```

```
Welcome to the WebLogic Platform 10.3.6.0 uninstaller. If
you wish to proceed with the uninstallation type Next,
otherwise, please type Exit to cancel.
```

```
Enter [Exit] [Next] > Next
```

4. Type Next to accept a full uninstallation.

The screen lists all of the products and components that will be removed. The following example shows the product list for Linux:

```
<-----Oracle Uninstaller - WebLogic Platform 10.3.6.0----->
Choose Products and Components to uninstall:
-----
Check the WebLogic Platform components you want to uninstall.

WebLogic Platform 10.3.6.0
|____WebLogic Server [1] x
|____Core Application Server [1.1] x
|____Administration Console [1.2] x
|____Configuration Wizard and Upgrade Framework [1.3] x
|____Web 2.0 HTTP Pub-Sub Server [1.4] x
|____WebLogic SCA [1.5] x
|____WebLogic JDBC Drivers [1.6] x
|____Third Party JDBC Drivers [1.7] x
|____WebLogic Server Clients [1.8] x
|____WebLogic Web Server Plugins [1.9] x
|____UDDI and Xquery Support [1.10] x

|____Oracle Coherence [2] x
|____Coherence Product Files [2.1] x

Enter number exactly as it appears in brackets to toggle selection OR [Exit]>=>
Next
```

5. An indicator shows the progress of the uninstallation process, followed by a completion message.

```
<-----Oracle Uninstaller - WebLogic Platform 10.3.6.0----->
Uninstallation Complete
Uninstallation of selected components has completed successfully.

Press [Enter] to continue
```

6. Manually remove *WLS_HOME* to complete the uninstallation.

Task 2-2: Installing IBM WebSphere Application Server

This section discusses:

- Understanding IBM WebSphere Installation
- Prerequisites
- Obtaining IBM WebSphere Installation Files
- Installing IBM WebSphere 8.5.0.0 ND
- Installing IBM HTTP Server 8.5.0.0
- Installing IBM WebSphere Plug-ins 8.5.0.0

Understanding IBM WebSphere Installation

Oracle supports 64-bit IBM® WebSphere® Application Server Network Deployment 8.5.0.0 (referred to as IBM WebSphere ND in this documentation) for PeopleSoft PeopleTools 8.53. The IBM WebSphere ND requires IBM Runtime Environment, Java Technology Edition 6.0.1 (J9 2.6).

IBM WebSphere Application Server supports IBM HTTP server (IHS) as a HTTP Reverse Proxy server. IBM WebSphere Application Server alone cannot act as a proxy server for PeopleSoft PeopleTools REN Server. You must also install PeopleSoft Pure Internet Architecture, as well as installing the IBM HTTP server. Consult My Oracle Support for information on the versions of IHS certified for use with PeopleSoft PeopleTools.

This section includes guidelines for installing IBM WebSphere ND, the Web server plug-ins for IBM WebSphere Application Server, and IHS. For detailed installation instructions, see the IBM documentation.

See Also

My Oracle Support, Certifications

"Clustering and High Availability for Enterprise Tools 8.5x," My Oracle Support, (search for the article name and select the release)

IBM WebSphere Application Server Information Center, <http://pic.dhe.ibm.com/infocenter/wasinfo/v8r5/index.jsp>

Prerequisites

IBM WebSphere ND is certified for PeopleSoft PeopleTools 8.53 on the following operating systems:

- IBM AIX
- HP-UX Itanium
- Linux
- Microsoft Windows
- Oracle Solaris

The full lists of prerequisites for IBM WebSphere Application Server Network Deployment 8.5.0.0 are available on the IBM website:

See <http://www-01.ibm.com/support/docview.wss?uid=swg27023941>

In addition, review the following prerequisites before beginning your installation:

- Both IBM WebSphere ND and PeopleSoft Pure Internet Application (PIA) need to be installed and deployed using the same user ID. Following this requirement avoids security and profile management issues.
- On Microsoft Windows 2008 R2 operating systems, if you are not using the built-in administrator account to run the commands, you will need stronger user account privileges to carry out the installation of IBM Installation Manager.

To set the appropriate privileges, right-click the installer and select Run as administrator. Do the same thing for the installation of IBM Installation Manager.

- On UNIX platforms, the /var file system is used to store all the security logging information for the system. Therefore it is critical that you maintain free space in /var for these operations.
- When you carry out the GUI mode installation on UNIX, executing the installation wizard launches a GUI window. You must run this command from an X-Windows client window (for example, Reflection-X).

- PeopleSoft PeopleTools 8.53 supports the IBM HTTP Server (IHS) 8.5.0.0 that is bundled with the IBM WebSphere 8.5.0.0 installation. Use of an external remote proxy server (RPS) is optional.

Task 2-2-1: Obtaining IBM WebSphere Installation Files

For PeopleSoft PeopleTools 8.53, the installation files for IBM WebSphere are not packaged with PeopleSoft PeopleTools on Oracle Software Delivery Cloud. To download the necessary files for the IBM WebSphere installation, contact IBM. The installation of IBM WebSphere 8.5.0.0 requires the download of the following components:

- IBM Installation Manager V1.5.2
- WebSphere Application Server Network Deployment V8.5.0.0 64-bit
- IBM HTTP Server V8.5.0.0 64-bit
- Plug-ins V8.5.0.0 64-bit
- IBM SDK V1.7

The distribution is provided as operating-system-specific zip files. The base binaries of IBM WebSphere 8.5.0.0, IHS 8.5.0.0, and Plug-in 8.5.0.0 have to be downloaded by providing an IBM partner ID and password.

Download and extract the appropriate zip files for your operating system, listed in the following tables.

IBM AIX

File or Folder Name	Description
CI6X4ML.zip	Binaries for IBM Installation Manager
CI6Y3ML.zip, CI6Y4ML.zip, CI6Y5ML.zip	Binaries for IBM WebSphere Application Server Network Deployment V8.5
CI6X0ML.zip, CI6X1ML.zip, CI6X2ML.zip	Binaries for Application Client, IBM HTTP Server, Web Server Plug-ins and WebSphere Customization Toolbox
CI717ML.zip, CI718ML.zip, CI719ML.zip	Binaries for IBM WebSphere SDK Java (TM) Technology Edition V7.0
CI6Y2ML.zip	Quick Start for IBM WebSphere Application Server Network Deployment V8.5

HP-UX Itanium

File or Folder Name	Description
CI6X6ML.zip	Binaries for IBM Installation Manager
CI6Y3ML.zip, CI6Y4ML.zip, CI6Y5ML.zip	Binaries for IBM WebSphere Application Server Network Deployment V8.5
CI6X0ML.zip, CI6X1ML.zip, CI6X2ML.zip	Binaries for Application Client, IBM HTTP Server, Web Server Plug-ins and WebSphere Customization Toolbox
CI717ML.zip, CI718ML.zip, CI719ML.zip	Binaries for IBM WebSphere SDK Java (TM) Technology Edition V7.0
CI6Y2ML.zip	Quick Start for IBM WebSphere Application Server Network Deployment V8.5

Linux

File or Folder Name	Description
CI6X7ML.zip	Binaries for IBM Installation Manager (Linux PowerPC)
CI6X8ML.zip	Binaries for IBM Installation Manager (Linux s390)
CI6X9ML.zip	Binaries for IBM Installation Manager (Linux x86)
CI6Y3ML.zip, CI6Y4ML.zip, CI6Y5ML.zip	Binaries for IBM WebSphere Application Server Network Deployment V8.5
CI6X0ML.zip, CI6X1ML.zip, CI6X2ML.zip	Binaries for Application Client, IBM HTTP Server, Web Server Plug-ins and WebSphere Customization Toolbox
CI717ML.zip, CI718ML.zip, CI719ML.zip	Binaries for IBM WebSphere SDK Java (TM) Technology Edition V7.0
CI6Y2ML.zip	Quick Start for IBM WebSphere Application Server Network Deployment V8.5

Microsoft Windows

File or Folder Name	Description
CI6XDML.zip	Binaries for IBM Installation Manager
CI6Y3ML.zip, CI6Y4ML.zip, CI6Y5ML.zip	Binaries for IBM WebSphere Application Server Network Deployment V8.5
CI6X0ML.zip, CI6X1ML.zip, CI6X2ML.zip	Binaries for Application Client, IBM HTTP Server, Web Server Plug-ins and WebSphere Customization Toolbox
CI717ML.zip, CI718ML.zip, CI719ML.zip	Binaries for IBM WebSphere SDK Java (TM) Technology Edition V7.0
CI6Y2ML.zip	Quick Start for IBM WebSphere Application Server Network Deployment V8.5

Oracle Solaris on SPARC

File or Folder Name	Description
CI6XBML.zip	Binaries for IBM Installation Manager
CI6Y3ML.zip, CI6Y4ML.zip, CI6Y5ML.zip	Binaries for IBM WebSphere Application Server Network Deployment V8.5
CI6X0ML.zip, CI6X1ML.zip, CI6X2ML.zip	Binaries for Application Client, IBM HTTP Server, Web Server Plug-ins and WebSphere Customization Toolbox
CI717ML.zip, CI718ML.zip, CI719ML.zip	Binaries for IBM WebSphere SDK Java (TM) Technology Edition V7.0
CI6Y2ML.zip	Quick Start for IBM WebSphere Application Server Network Deployment V8.5

Oracle Solaris on x86_64

File or Folder Name	Description
CI6XCML.zip	Binaries for IBM Installation Manager
CI6Y3ML.zip, CI6Y4ML.zip, CI6Y5ML.zip	Binaries for IBM WebSphere Application Server Network Deployment V8.5
CI6X0ML.zip, CI6X1ML.zip, CI6X2ML.zip	Binaries for Application Client, IBM HTTP Server, Web Server Plug-ins and WebSphere Customization Toolbox

File or Folder Name	Description
CI717ML.zip, CI718ML.zip, CI719ML.zip	Binaries for IBM WebSphere SDK Java (TM) Technology Edition V7.0
CI6Y2ML.zip	Quick Start for IBM WebSphere Application Server Network Deployment V8.5

Task 2-2-2: Installing IBM WebSphere 8.5.0.0 ND

For detailed information on installing IBM WebSphere 8.5.0.0. ND, see the documentation on the IBM web site. See the previous section, Obtaining IBM WebSphere Installation Files, for the installation file names for your operating system. The installation of IBM WebSphere Application Server Network includes the following steps:

1. Install IBM Installation Manager V1.5.2
2. Install IBM WebSphere 8.5.0.0 64-bit
3. Install IBM WebSphere SDK Java (TM) Technology Edition V7.0

Task 2-2-3: Installing IBM HTTP Server 8.5.0.0

For detailed information on installing IHS 8.5.0.0, see the documentation on the IBM web site. See the previous section, Obtaining IBM WebSphere Installation Files, for the installation file names for your operating system.

To install IHS 8.5.0.0 64-bit, use IBM Installation Manager.

Task 2-2-4: Installing IBM WebSphere Plug-ins 8.5.0.0

For detailed information on installing the Web server plug-ins for IBM WebSphere Application Servers, see the documentation on the IBM web site. See the earlier section, Obtaining IBM WebSphere Installation Files, for the installation file names for your operating system.

To install the IBM Plug-ins 8.5.0.0 64-bit for IBM WebSphere Application Servers, use IBM Installation Manager.

CHAPTER 3

Installing Additional Components

This chapter discusses:

- Reviewing Additional Components
- Installing Oracle Tuxedo

Reviewing Additional Components

Depending upon your PeopleSoft installation environment, you may need to install and configure software components that are not included with the PeopleSoft PeopleTools installation files, or which you acquire from vendors other than Oracle. Some of the components that are discussed in this installation guide include:

- Oracle Tuxedo

The installation of Oracle Tuxedo is required for a basic PeopleSoft PeopleTools installation, and is covered in this chapter.

- COBOL

COBOL is not needed for PeopleSoft PeopleTools or for PeopleSoft Applications that contain no COBOL programs. Check My Oracle Support for details about whether your application requires COBOL.

See “PeopleSoft Enterprise Frequently Asked Questions About PeopleSoft and the Micro Focus COBOL Compiler,” My Oracle Support (search for article title).

See “PeopleSoft Enterprise Frequently Asked Questions About PeopleSoft and the IBM COBOL Compiler,” My Oracle Support (search for article title).

The installation and configuration of Micro Focus and IBM COBOL compilers are covered in a later chapter.

See "Installing and Configuring COBOL"

- SAP Crystal Reports and BusinessObjects Enterprise

The installation of SAP Crystal Reports or BusinessObjects Enterprise XI 3.1 is optional for PeopleSoft PeopleTools 8.52 and later releases.

See "Installing and Configuring Software for Crystal Reports."

- Oracle Secure Enterprise Search

Oracle Secure Enterprise Search (SES) is the search engine for the PeopleSoft Search Framework. The integration of Oracle SES with PeopleSoft PeopleTools is covered in a later chapter.

See "Configuring Integration Between PeopleSoft PeopleTools and Oracle SES."

Note. Use the My Oracle Support Certifications area to determine the latest certified versions of additional components that are supported for the PeopleSoft PeopleTools release you are installing.

Task 3-1: Installing Oracle Tuxedo

This section discusses:

- Understanding Oracle Tuxedo
- Prerequisites
- Obtaining the Oracle Tuxedo Installation Files from Oracle Software Delivery Cloud
- Obtaining the Oracle Tuxedo Patches from My Oracle Support
- Removing Existing Oracle Tuxedo Installations from Microsoft Windows (Optional)
- Designating the Application Server Administrator on Microsoft Windows
- Installing Oracle Tuxedo on Microsoft Windows
- Uninstalling Oracle Tuxedo 11gR1_VS2010 on Microsoft Windows
- Checking the Windows Service Account
- Restricting Domain Process Privileges
- Setting Up the Windows Services for Oracle Tuxedo
- Verifying the Server Installation on Microsoft Windows
- Ensuring that Oracle Tuxedo Coexists with Earlier Versions

Understanding Oracle Tuxedo

The PeopleSoft application server uses the Oracle® Fusion Middleware product, Oracle Tuxedo, to perform transaction management, messaging, and administration. This task guides you through the installation of Oracle Tuxedo on your server. It is essential that you install Oracle Tuxedo version 11gR1, which is available on Oracle Software Delivery Cloud. You need to install Oracle Tuxedo before you go any further in setting up your application server and your PeopleSoft Pure Internet Architecture. After you perform the installation described here, you will configure the application server environment to incorporate Oracle Tuxedo with the PeopleSoft components.

Oracle supports Oracle Tuxedo 11gR1 for Linux or UNIX, and Oracle Tuxedo 11gR1_VS2010 for Microsoft Windows, with PeopleSoft PeopleTools 8.53.

Note. For Linux, there are two supported versions of Oracle Tuxedo 11gR1—11.1.1.2.0 and 11.1.1.3.0. The PeopleSoft application server works with both versions. Oracle Tuxedo 11gR1 (11.1.1.3.0) is targeted for Exalogic users.

If you have a previous version of Oracle Tuxedo installed, you need to install the new version of Oracle Tuxedo, and re-create your application server domains. (You must create your domains using PSADMIN; you cannot migrate existing domains.) You can also use PSADMIN's domain import utility.

For the sake of brevity, this documentation sometimes uses “Oracle Tuxedo 11gR1” to refer to both Oracle Tuxedo 11gR1 for Linux or UNIX, and Oracle Tuxedo 11gR1_VS2010 for Microsoft Windows, unless specifically mentioned.

You can install Oracle Tuxedo once for each release on a machine, regardless of the number of PeopleSoft applications or databases the server supports. For example, if you are a PeopleSoft 9.1 customer and have Oracle Tuxedo 6.5 installed, you may install Oracle Tuxedo 6.5 and Oracle Tuxedo 11gR1 on the same machine in separate directories. For example:

On Windows, you may install into C:\oracle\tuxedo11gR1_VS2010 and C:\tux65.

See Also

Oracle Tuxedo Documentation on Oracle Technology Network, <http://www.oracle.com/technetwork/middleware/tuxedo/documentation/index.html>

PeopleTools: PeopleSoft Portal Technology

PeopleTools: System and Server Administration.

Operating System, RDBMS, and Additional Component Patches Required for Installation PeopleTools, My Oracle Support (search for article name and select the release)

"Clustering and High Availability for Enterprise Tools 8.5x," My Oracle Support (search for title)

Prerequisites

Before you begin to install Oracle Tuxedo, make sure that you have the following resources in place:

- TCP/IP connectivity (required for PeopleSoft PeopleTools 8.50 or higher) between the client machine and the application server
- Approximately 235 MB of free disk space on the application server

Task 3-1-1: Obtaining the Oracle Tuxedo Installation Files from Oracle Software Delivery Cloud

You can obtain the files needed to install Oracle Tuxedo 11gR1 or 11gR1_VS2010 from the Oracle Software Delivery Cloud portal. At this point you should have already downloaded the necessary files. If you have not yet downloaded the files, this section includes additional information on finding and using the files for Oracle Tuxedo if necessary.

Note. Only the Oracle Tuxedo installation files provided as part of the PeopleTools 8.53 media pack on Oracle Software Delivery Cloud are certified for use with PeopleSoft PeopleTools 8.53.

See <http://edelivery.oracle.com>.

See "Preparing for Installation," Using Oracle Software Delivery Cloud to Obtain Installation Files.

1. After logging in to Oracle Software Delivery Cloud, on the Media Search Pack page, select *PeopleSoft Enterprise* from the Select a Product Pack drop-down list.
Select the operating system you are running on from the Platform drop-down list, and click Go.
2. Select the radio button for the PeopleSoft Enterprise - PeopleTools 8.53 Media Pack for your platform, and click Continue.
3. Select Oracle Tuxedo 11gR1 or 11gR1_VS2010 for your operating system, and click Download.
Save the zip file to a temporary directory on your local system, referred to in this documentation as *TUX_INSTALL*.

4. After you download the installation files from Oracle Software Delivery Cloud, if it is necessary, transfer the files to a UNIX computer using FTP. Unzip the file and change the permissions of the unzipped file to make it an executable, for example using the `chmod +x` command.
5. Extract the files into *TUX_INSTALL*.

The Oracle Tuxedo installation files are platform-specific. The following table lists the installation files for the PeopleSoft-supported platforms:

Supported Platform	Oracle Tuxedo Installer Name
IBM AIX (64-bit)	tuxedo11120_64_aix_53_ppc.bin
HP-UX Itanium (64-bit)	tuxedo11120_64_hpux_1123_ia.bin
Linux (64-bit)	tuxedo11120_64_Linux_01_x86.bin
	tuxedo11130_64_Linux_01_x86.bin
Microsoft Windows (64-bit)	tuxedo11120_64_win_2k8_x86_VS2010.exe
Microsoft Windows (32-bit)	tuxedo11120_32_win_2k8_x86_VS2010.exe
Oracle Solaris on SPARC (64-bit)	tuxedo11120_64_sol_10_sp.bin

Note. For the PeopleSoft Client only, install Oracle Tuxedo for Microsoft Windows (32-bit) to run with PeopleSoft PeopleTools 8.53.

Task 3-1-2: Obtaining the Oracle Tuxedo Patches from My Oracle Support

You can download the latest patch for Oracle Tuxedo 11gR1_VS2010 for Microsoft Windows or Oracle Tuxedo 11gR1 for Linux or UNIX from My Oracle Support. Patches released for Oracle Tuxedo 11gR1 and 11gR1_VS2010 will also be supported.

Note. To obtain older Oracle Tuxedo patches, raise a service request through My Oracle Support.

To obtain the latest Oracle Tuxedo patch:

1. Sign in to My Oracle Support with your account name and password:
<https://support.oracle.com>
2. Select the Patches & Updates tab.
3. Under Patch Search, select Product or Family (Advanced Search).
4. Select *Oracle Tuxedo* from the product drop-down list.
5. Select *Oracle Tuxedo 11gR1* from the release drop-down list.
6. Select your platform.

Note. For detailed supported platform information, see the certifications area on My Oracle Support.

The supported platforms are:

- AIX
- HP-UX Itanium
- Linux

- Microsoft Windows
- Oracle Solaris on SPARC

7. Click Search.

Download the necessary files from the list of results. For installation on Microsoft Windows operating systems, make sure your rolling patch (RP) description has “VS2010” or “Visual Studio 2010” in the description.

Note. To begin a new search, select Edit Search in the top right of the results page.

8. Download the patch file for your operating system platform to a convenient directory, referred to here as *TUX_INSTALL*.

Task 3-1-3: Removing Existing Oracle Tuxedo Installations from Microsoft Windows (Optional)

You may already have prior versions of Oracle Tuxedo installed on your system from an earlier version of PeopleSoft PeopleTools. If you are completely upgrading to PeopleSoft PeopleTools 8.53 from an earlier version of PeopleSoft PeopleTools, then, you may uninstall the existing version and patches.

Note. It is not mandatory to uninstall the existing version of PeopleSoft PeopleTools, as Oracle Tuxedo 11gR1_VS2010 can coexist with prior versions on the same machine.

If you wish to use two versions of PeopleSoft PeopleTools that depend on different versions of Oracle Tuxedo, you should read the section “Ensuring that Oracle Tuxedo Coexists with Earlier Versions” before continuing.

You may have to uninstall Oracle Tuxedo for these reasons:

- You are having problems starting Oracle Tuxedo and decide to reinstall.
- You no longer need Oracle Tuxedo on a machine.

To uninstall Oracle Tuxedo from Microsoft Windows:

1. Using PSADMIN, shut down any application server, Process Scheduler, and Search server domains that may be running on the machine.
2. Stop the processes for the Tuxedo Monitor and the Tuxedo Administrative Web Server (wlisten and tuxwsvr), if applicable.
 - a. Right-click on the task bar and select Task Manager.
 - b. Highlight wlisten, and click the End Task button.
 - c. Highlight tuxwsvr and click the End Task button.
 - d. Exit Task Manager.
3. Stop and set the TListen *VERSION* service to manual, if applicable.
 Replace *VERSION* with the current version number. For example, this would be TListen 8.1 or TListen 9.1.
 - a. Select Start, Settings, Control Panel. Double-click Administrative Tools, and double-click the Services icon.
 - b. Select TListen *VERSION* and click the Stop button.
 - c. Choose the Startup Type and set to Manual.

4. Stop and set the ORACLE ProcMGR *VERSION* (or BEA ProcMGR *VERSION* for earlier releases) service to manual.
 - a. Select Start, Settings, Control Panel. Double-click Administrative Tools, and double-click the Services icon.
 - b. Select ORACLE ProcMGR *VERSION* and click the Stop button.
 - c. Choose the Startup Type and set to Manual.
5. Reboot your machine.
6. Uninstall Oracle Tuxedo in one of the following ways:
 - Using the Oracle Tuxedo *VERSION* installation CD provided by Oracle for PeopleSoft installations, open a Command Window, navigate to the root of the CD, and enter `pstuxinstall rmall`. This will remove Oracle Tuxedo *VERSION* plus any delivered Oracle Tuxedo patches from your system.
 - Using the Add/Remove Programs dialog, in sequence remove: Oracle Tuxedo*VERSION* RP and then Oracle Tuxedo *VERSION*.
7. Go to the Control Panel, double-click on the System icon, and then perform the following:
 - a. Make sure *TUXDIR*\bin is deleted from PATH.
TUXDIR refers to the Oracle Tuxedo installation directory.
 - b. Delete the environment variable *TUXDIR*.
 - c. Make sure you click on Apply and OK to save your changes.
8. Using Explorer, delete the Tuxedo home directory, such as C:\bea\tuxedo8.1.
If you are unable to delete any files, reboot your machine and retry.

The instructions for installing and removing the Oracle Tuxedo 11gR1_VS2010 patch are given later in this section.

See Uninstalling Oracle Tuxedo 11gR1_VS2010 on Microsoft Windows.

Task 3-1-4: Designating the Application Server Administrator on Microsoft Windows

First you need to designate an existing user—or create a new user such as TUXADM or some other account—to be the Application Server Administrator. The Application Server Administrator, not the Windows Administrator, will install Oracle Tuxedo.

The designated user must be a local Microsoft Windows administrator and must have full system privileges. The PeopleSoft PeopleTools 8.53 program for the Oracle Tuxedo installation creates a new service for Microsoft Windows—called ORACLE ProcMGR V11gR1 with VS2010—for which you need administrator privileges. This service was developed to port Oracle Tuxedo from UNIX to Microsoft Windows. Administrator rights are required since system registry settings are updated. Once this new service is created, you must reboot to start it.

When you configure your application server domain in a read-only *PS_HOME* environment, the user ID designated to be the Application Server Administrator must have read-only access to *PS_HOME*, read and write access to *PS_CFG_HOME*, and read-only access to the Oracle Tuxedo installation directory, *TUXDIR*, (for example, C:\oracle\tuxedo11gR1_VS2010). Otherwise, in a scenario where *<PS_CFG_HOME> = <PS_HOME>*, the Application Server Administrator must have read and write access to *PS_HOME* and read-only access to *TUXDIR*.

See "Configuring the Application Server on Windows."

See "Preparing for Installation," Defining Installation Locations.

To designate the Application Server Administrator:

1. To add the user, add the user ID by choosing Start, Settings, Control Panel, Administrative Tools, Computer Management, Local Users and Groups.

Keep in mind that you can also use an existing account if you don't care to create a new one. You can set this to the system account or an account that is a domain administrator (if there is a need to access files on the domain).
2. Expand Local Users and Groups.
3. If the user ID does not yet exist, highlight the Users folder, and select Action, New User.
4. On the New User dialog box, specify the information for the new account.

Make sure to deselect the User must change password at next logon check box.
5. Expand the Groups folder.
6. Right-click the Administrators group, and select All Tasks, Add to Group, Add.
7. Click Locations to select the local machine or the network domain in which you created the new user.
8. Enter the new user name you created in the object names box.
9. Click OK, and click Apply and OK again to accept the changes.

Task 3-1-5: Installing Oracle Tuxedo on Microsoft Windows

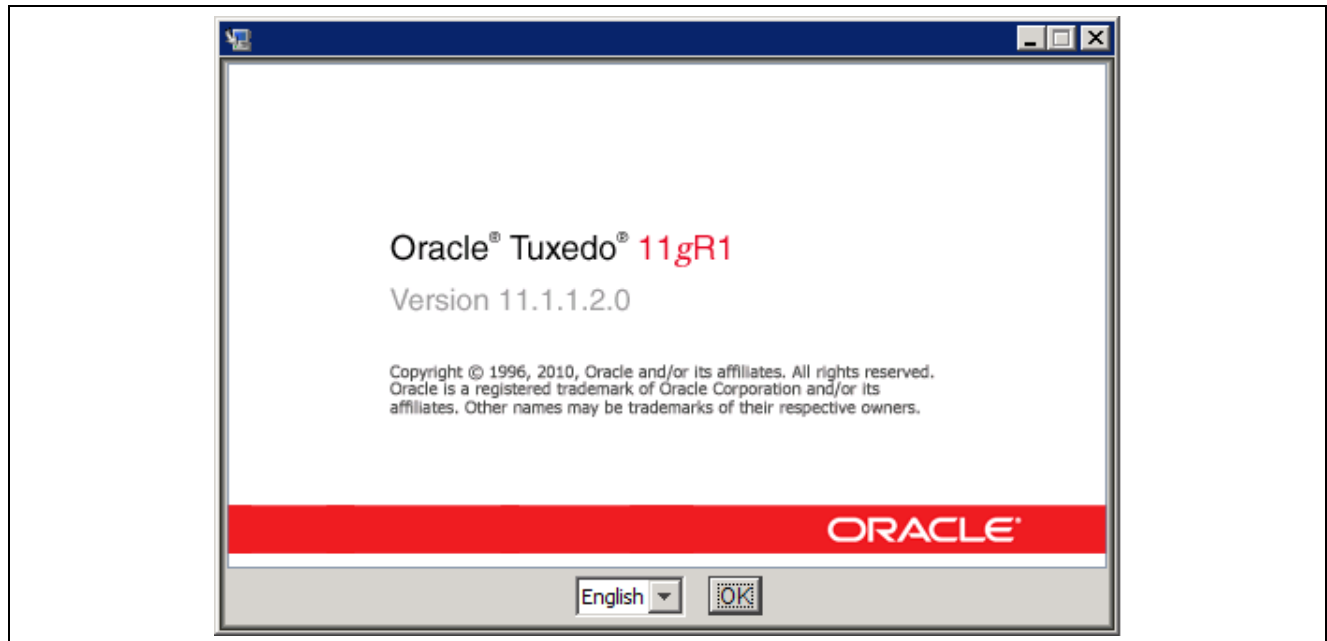
The following procedure assumes that you saved the installation files from Oracle Software Delivery Cloud in the directory *TUX_INSTALL*. Installation in GUI mode is normally used for Microsoft Windows operating systems, so this procedure uses the installer for Microsoft Windows, *tuxedo111120_64_win_2k8_x86_VS2010.exe*.

Note. Oracle Tuxedo 11gR1_VS2010 can coexist on a machine with other versions of Oracle Tuxedo.

To install Oracle Tuxedo on Microsoft Windows:

1. Double-click *TUX_INSTALL\tuxedo111120_64_win_2k8_x86_VS2010.exe* to begin the installation process.

Click OK on the initial window.



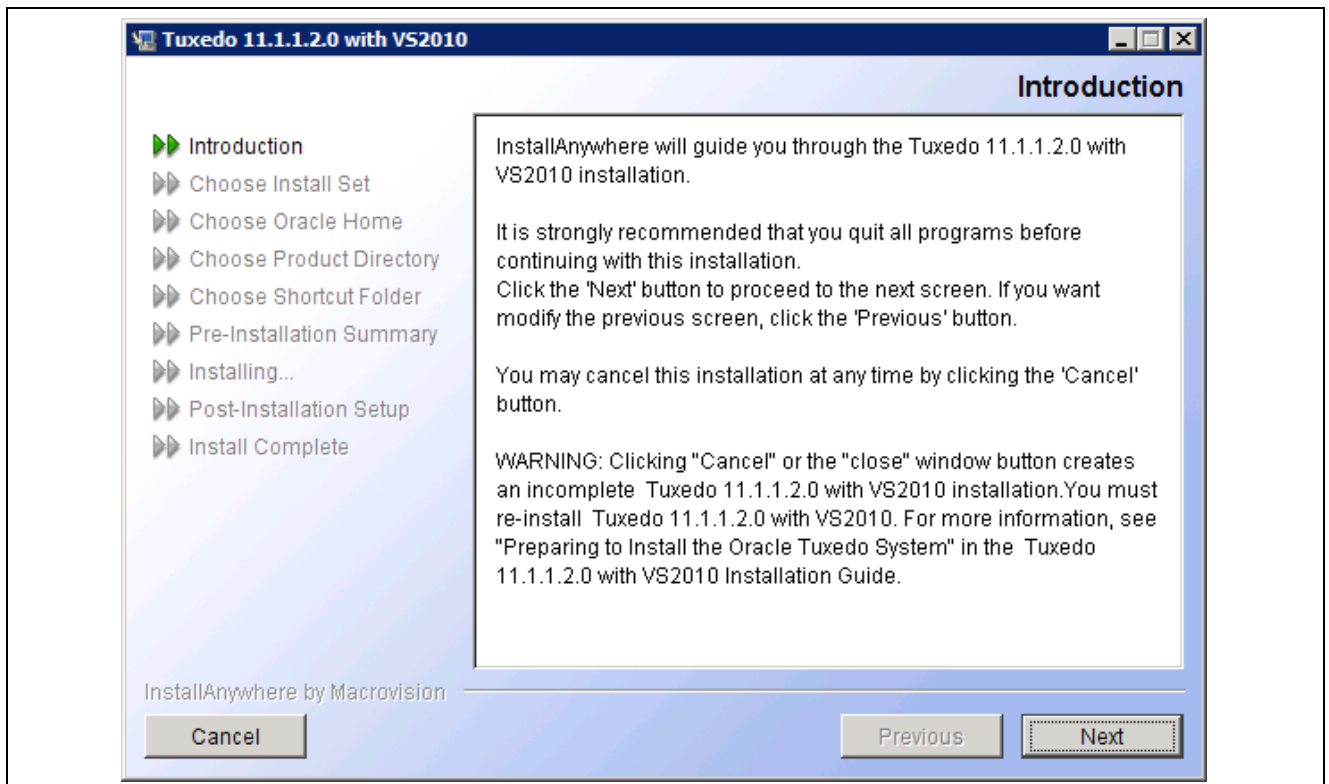
Oracle Tuxedo 11gR1 initial installation window

2. If you have other versions of Oracle Tuxedo on your system, you may get a warning that earlier versions were detected, and recommending that you exit and remove the earlier versions.

You can either quit and remove the earlier version, or install to a different directory if you want to maintain more than one version of the software. The message directs you to the Tuxedo 11gR1 with VS2010 Installation Guide for instructions for using more than one version of the software.

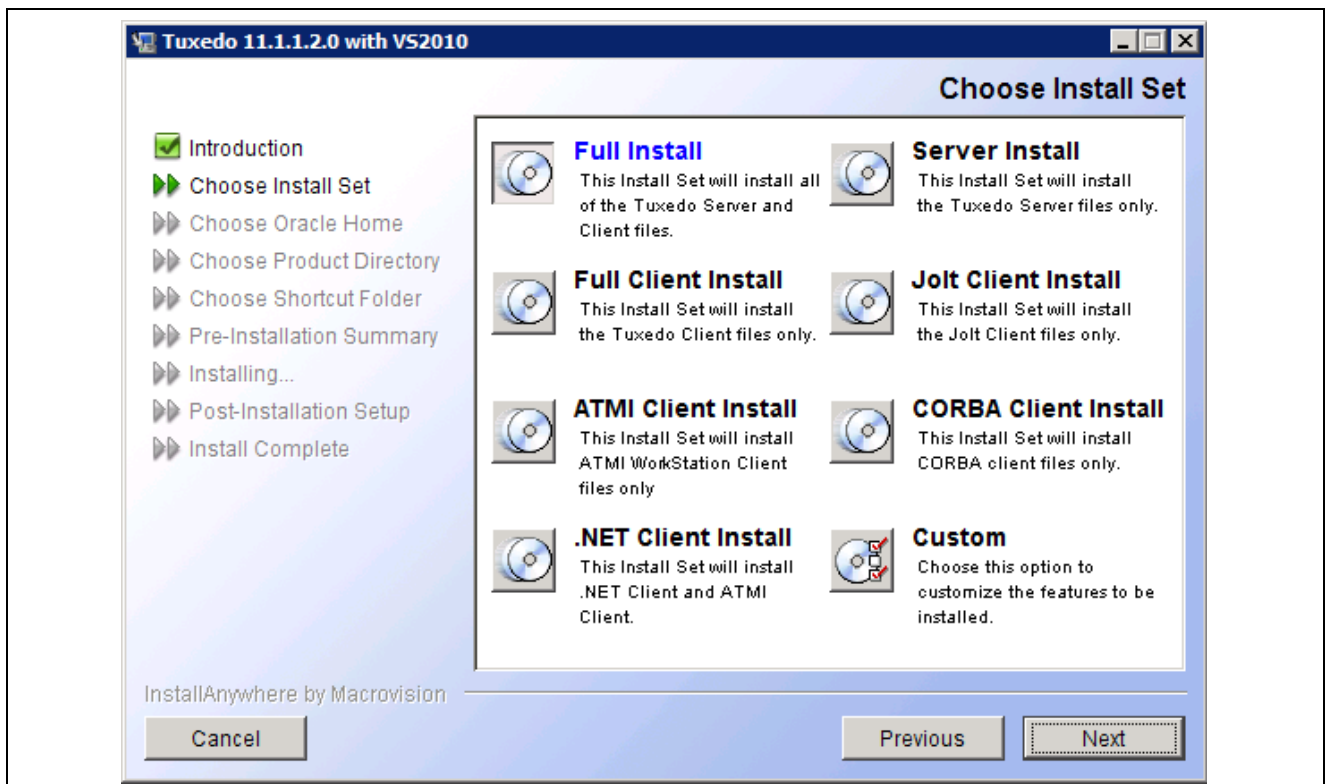
3. Click Next.

The Introduction window shown in this example includes the following text: “You may cancel this installation at any time by clicking the ‘Cancel’ button. WARNING: Clicking “Cancel” or the “close” window button creates an incomplete Tuxedo 11.1.1.2.0 with VS2010 installation. You must re-install Tuxedo 11.1.1.2.0 with VS2010. For more information, see “Preparing to Install the Oracle Tuxedo System” in the Tuxedo 11.1.1.2.0 with VS2010 Installation Guide.”



Oracle Tuxedo installation introduction window

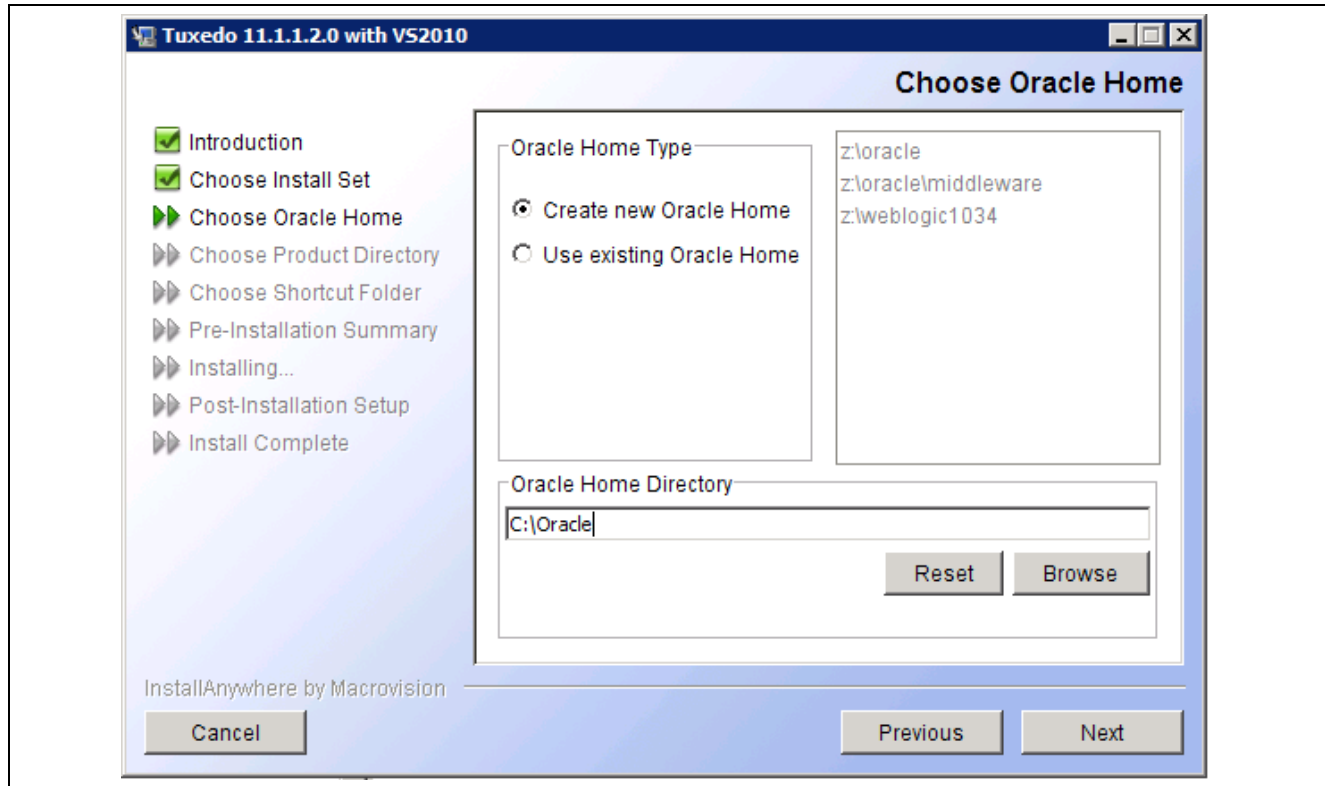
4. Accept the default installation set option, Full Install, and click Next.



Oracle Tuxedo Choose Install Set window

5. Specify an Oracle home directory, referred to here as *ORACLE_HOME*.

Note. In previous Oracle Tuxedo and PeopleSoft PeopleTools releases, the installation directory was referred to as *BEA_HOME*, and the default was C:\bea. You may see installation directories from previous releases displayed here, and if so, you can select one.



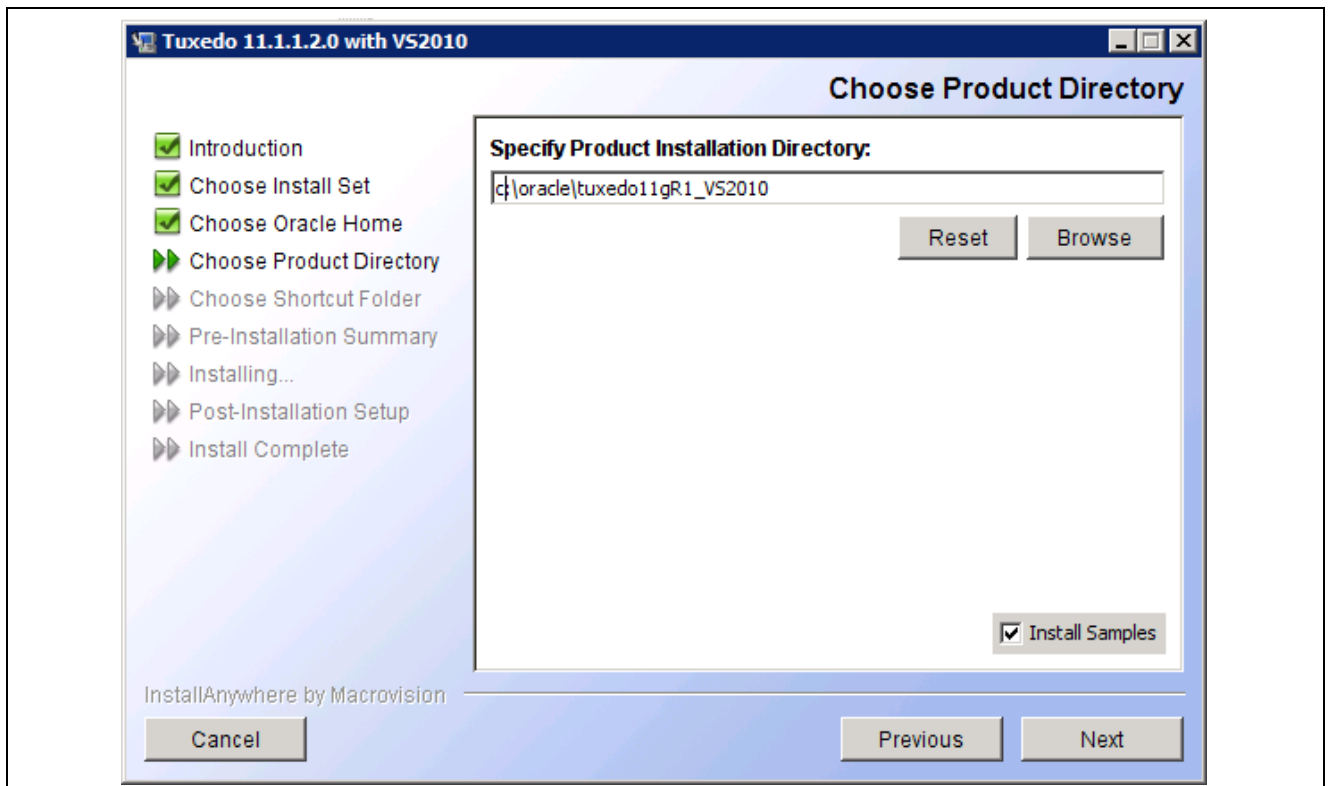
Oracle Tuxedo Choose Oracle Home window

- If you want to use an existing *ORACLE_HOME*, select Use existing Oracle Home and choose one of the listed directories.
- If you want to create a new *ORACLE_HOME*, select Create new Oracle Home, and enter a name in the Oracle Home Directory box.

In this example, the option to create a new Oracle home directory, C:\Oracle, is selected.

6. Specify the Oracle Tuxedo installation directory, referred to here as *TUXDIR*.

The default is *ORACLE_HOME*\tuxedo11gR1_VS2010. Accept the default or specify a new location. In this example the installation directory is C:\oracle\tuxedo11gR1_VS2010.



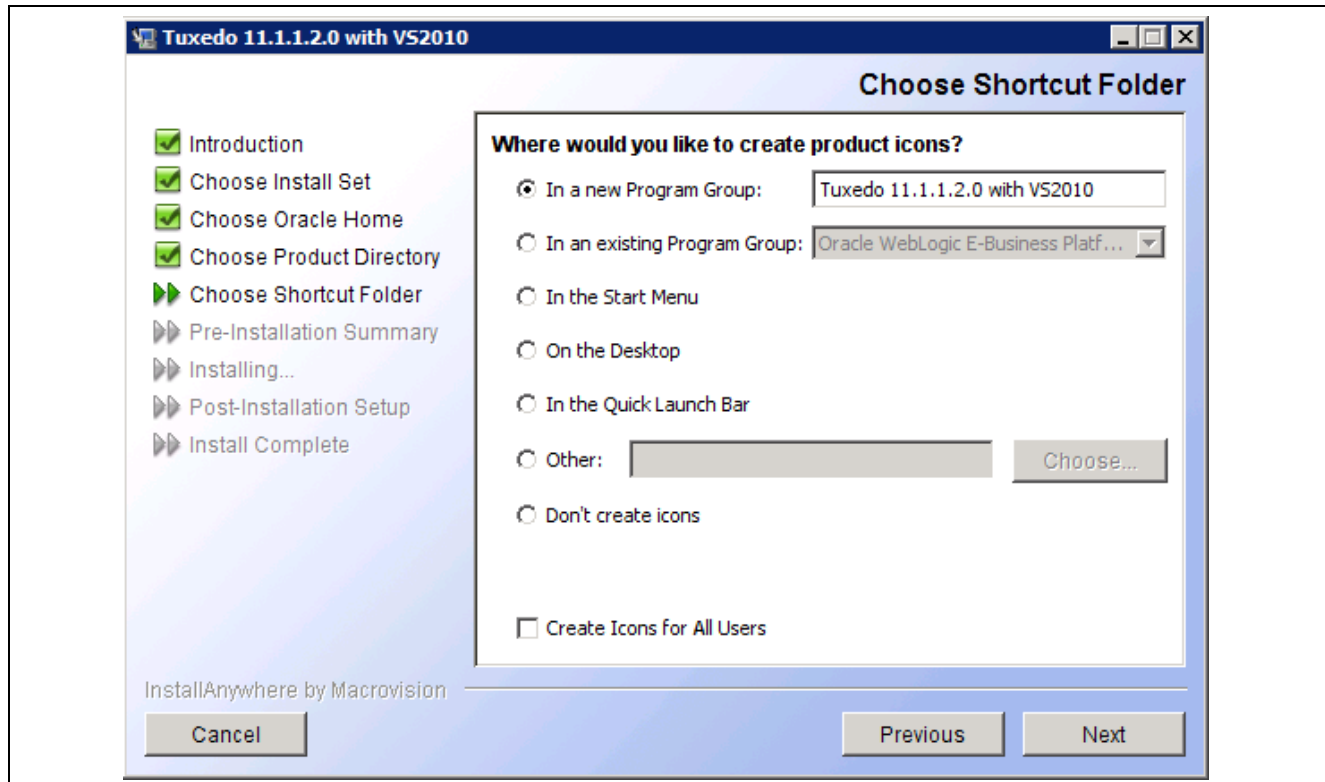
Oracle Tuxedo Choose Product Directory window

7. If you see a warning message concerning a .NET Framework installation, click Next to continue.

The window appears for some .NET installations. It displays a message warning that .NET Framework is not found on the system, and referring to the Tuxedo help documentation for further information. You can ignore this warning.

8. Specify the location for the shortcut folder.

Note. The default location for program groups is Oracle WebLogic E-Business Platform.



Oracle Tuxedo Choose Shortcut Folder window

Select one of the following options for the shortcut folder:

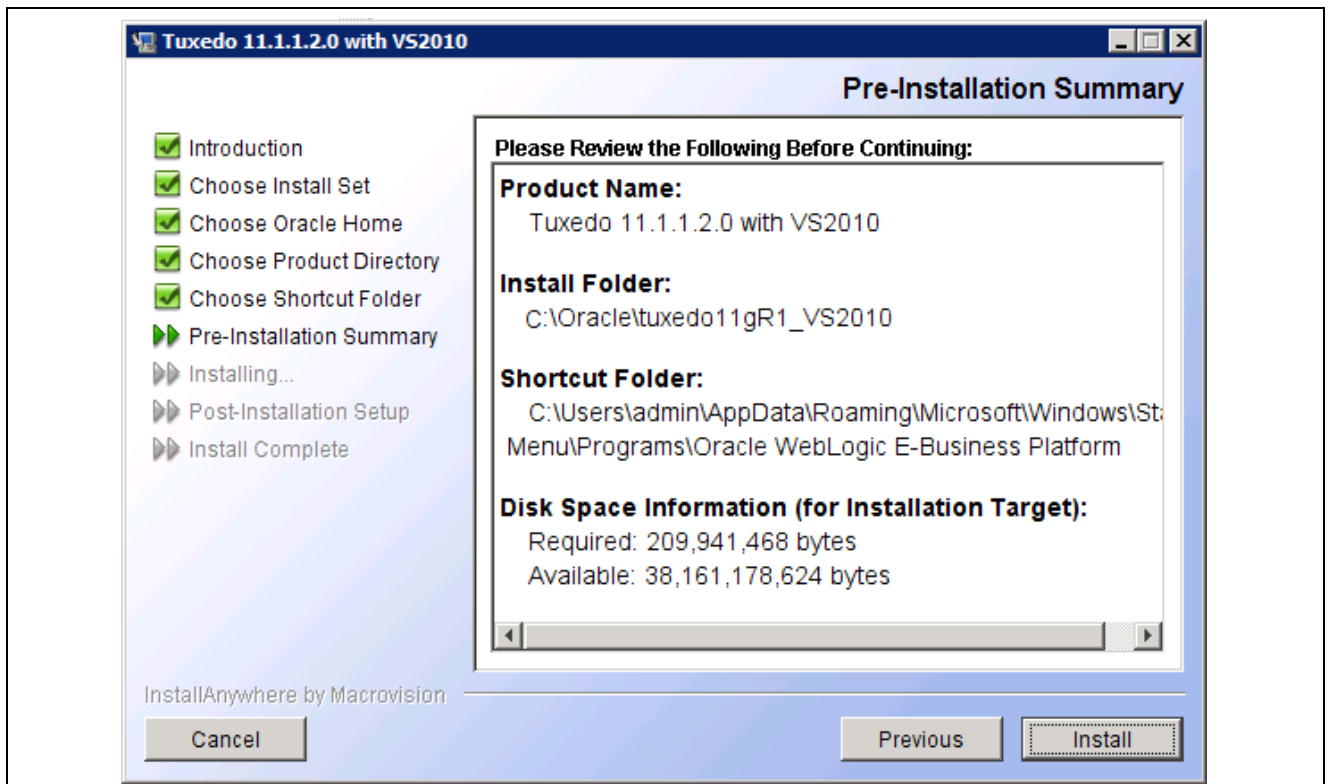
- In a new Program Group

This option is shown in the example, with the new program group named Tuxedo 11.1.1.2.0 with VS2010.

- In an existing Program Group
- In the Start Menu
- On the Desktop
- In the Quick Launch Bar
- Other
- Don't create icons

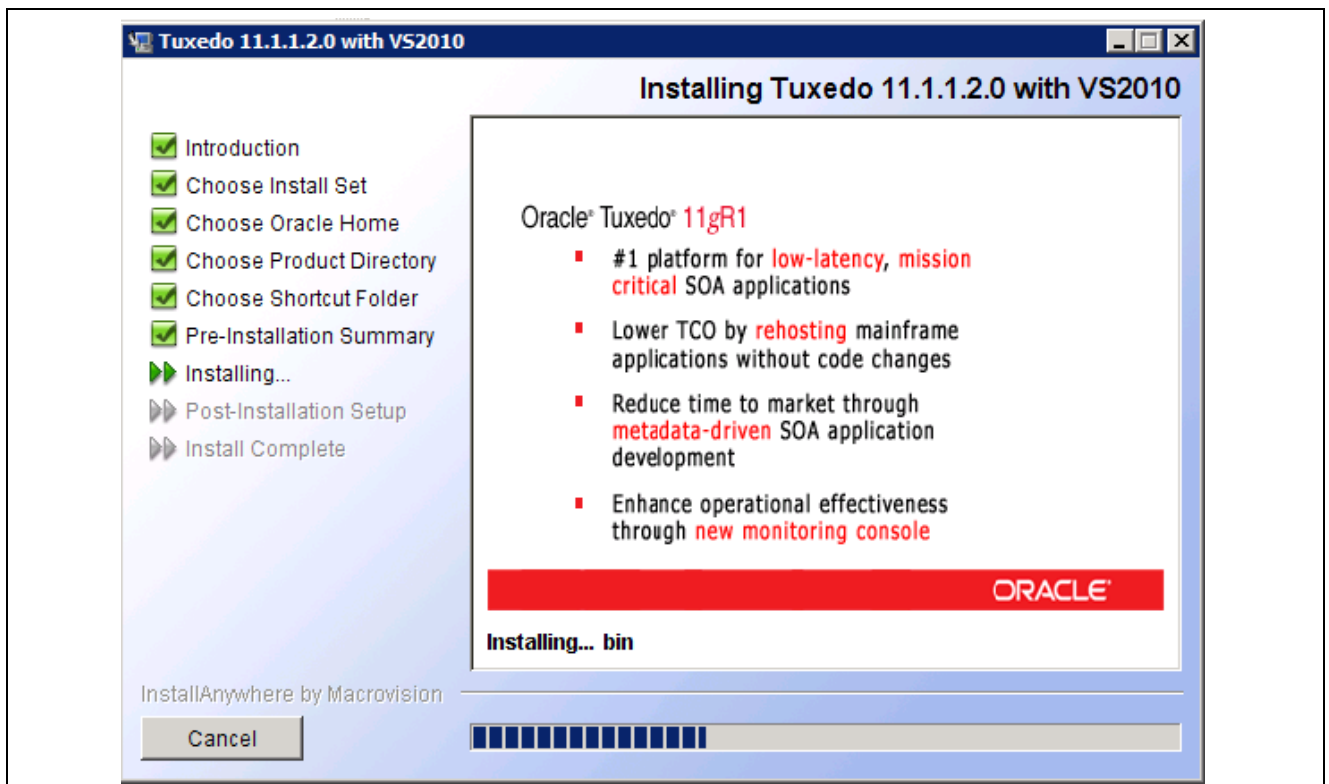
9. Review the summary information, and click Install to continue.

The summary information includes the product name, install folder, shortcut folder, and disk space information. If you want to change any of your choices, click Previous.



Oracle Tuxedo Pre-Installation Summary window

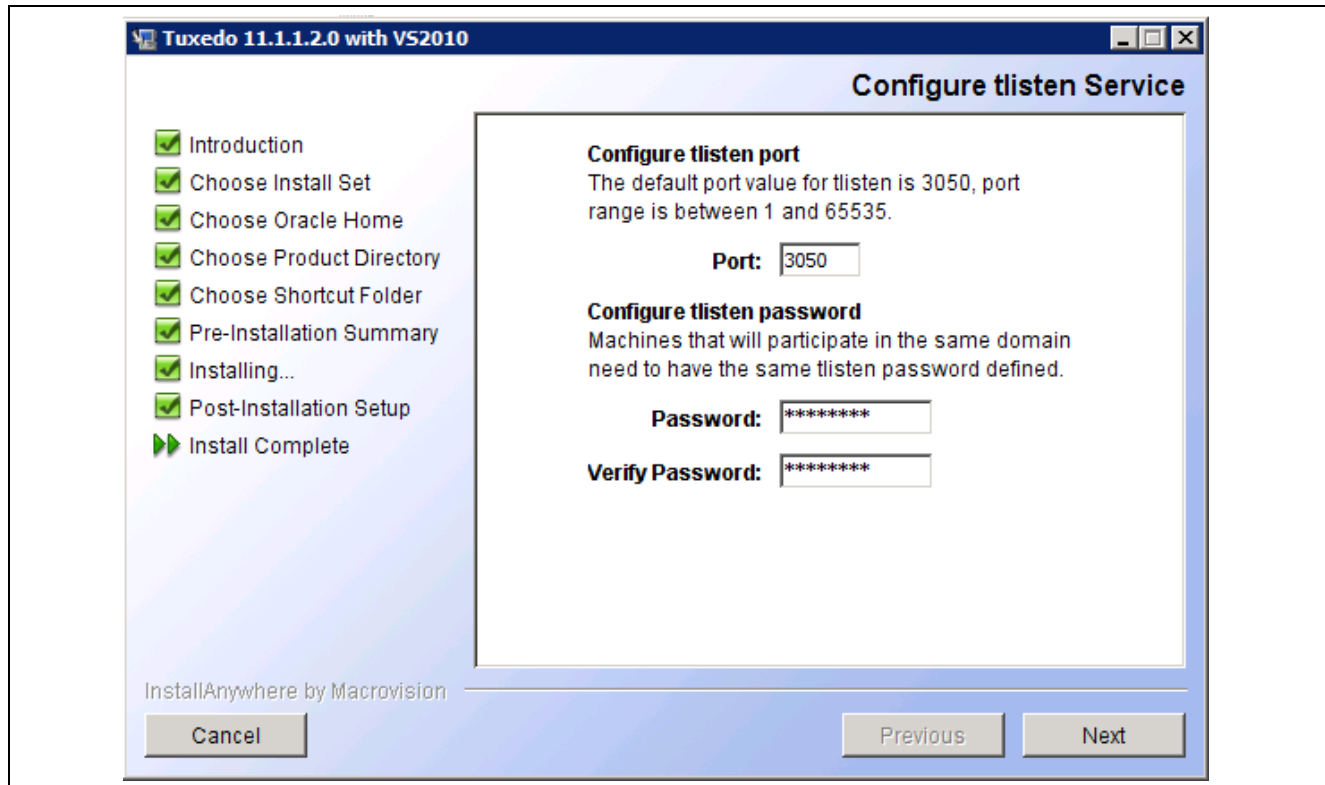
A progress indicator appears during the installation.



Oracle Tuxedo installation progress window

10. Specify the tlisten port and tlisten password, using the following descriptions.

Click Next to continue after specifying these values.



Oracle Tuxedo Configure tlisten Service window

- *Configure tlisten port*

The Tlisten service is not used by PeopleSoft application servers so you can accept the default unless you intend to use the Tuxedo Web Monitor. Unless you use the Tuxedo Web Monitor, you should disable the TListen service following the installation.

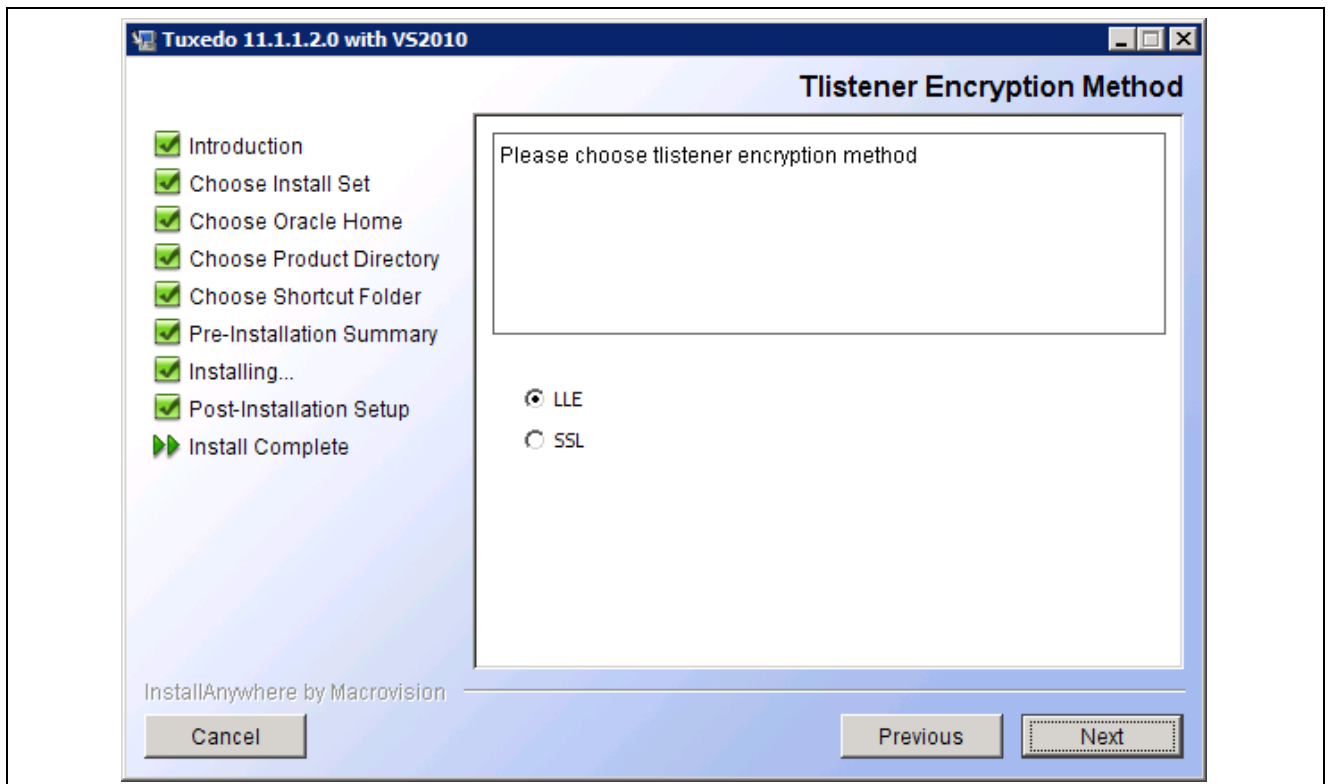
If you intend to maintain multiple versions of Oracle Tuxedo on the same physical machine, it is wise to choose a port other than the default 3050 because the default port may clash with an existing TListen entry for an earlier version of Oracle Tuxedo.

See Ensuring that Oracle Tuxedo Coexists with Earlier Versions.

- *Configure tlisten password*

Enter and re-enter a tlisten password of your choice.

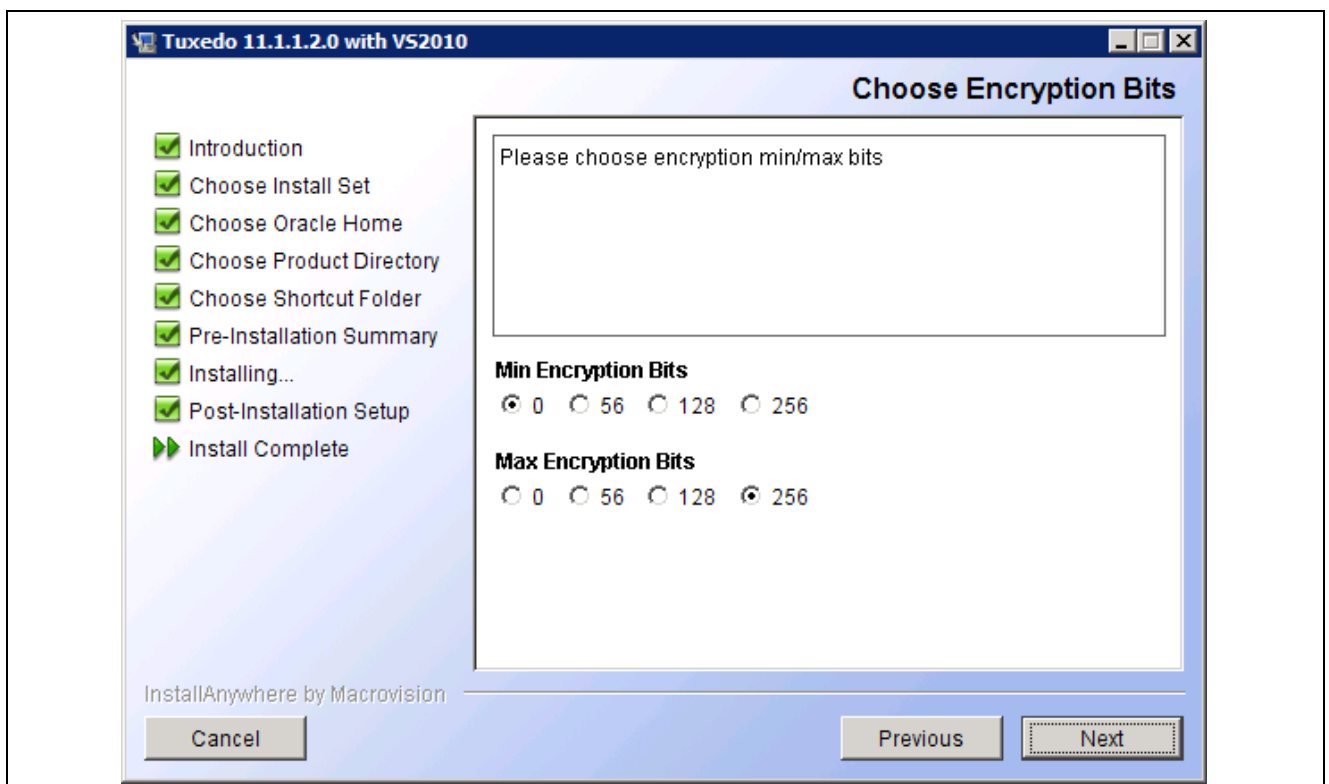
11. Select the option LLE for the encryption method and click Next.



Oracle Tuxedo Tlistener Encryption Method window

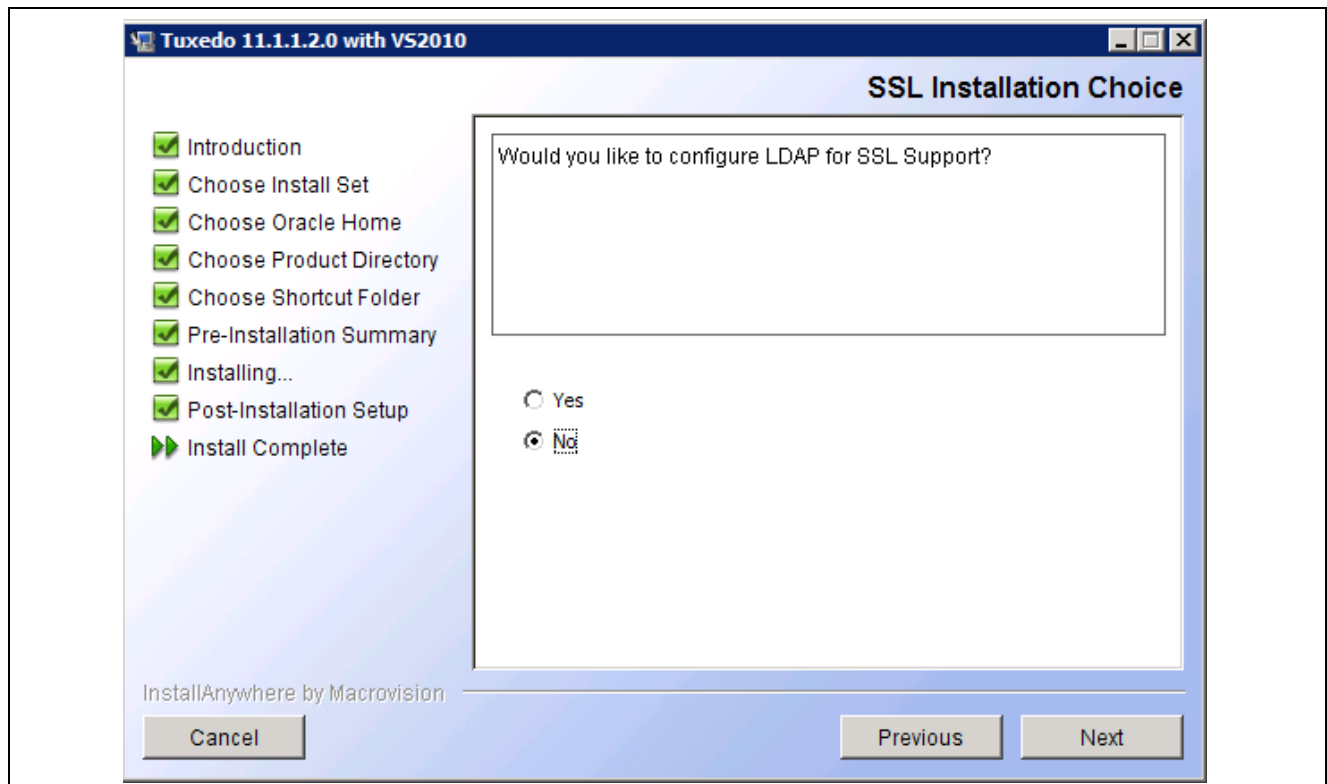
12. Choose Min Encryption Bits as 0 and Max Encryption Bits as 256.

Click Next to continue.



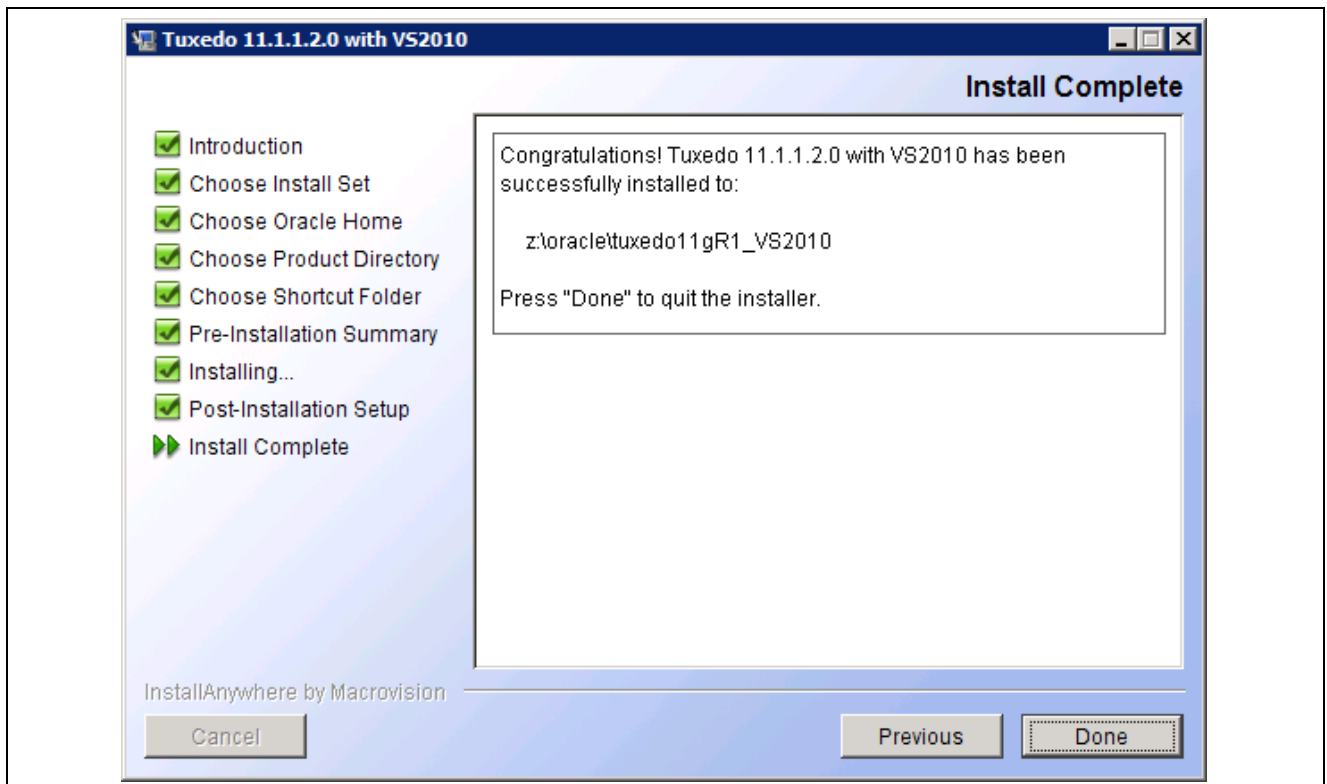
Oracle Tuxedo Choose Encryption Bits window

13. Select No for the option “Would you like to configure LDAP for SSL support?”



Oracle Tuxedo SSL Installation Choice window

14. Click Done to complete the installation.



Oracle Tuxedo Install Complete window

Task 3-1-6: Uninstalling Oracle Tuxedo 11gR1_VS2010 on Microsoft Windows

To uninstall Oracle Tuxedo 11gR1_VS2010:

1. Go to *TUXDIR*\uninstaller.
2. Double-click Uninstall Tuxedo 11gR1 with VS2010.exe.
3. Click Uninstall, and click Done when the process is complete.

Note. You may need to delete the *TUXDIR* directory manually after this uninstallation process is complete.

Task 3-1-7: Checking the Windows Service Account

Use the information in this section to ensure that the Microsoft Windows services are properly configured. Oracle recommends installing the application server binaries locally on your C drive, for best performance. The procedure to set up the ORACLE ProcMGR V11gR1 with VS2010 service in the next section includes options for the account type. Use the following guidelines to choose between the Local System account option and the This Account option. (For the option This Account, you must specify a user ID and password.)

- If you plan to install the PeopleSoft application server binaries (as in, psappsrv.exe and so on) on a remote file server, you must select the This Account radio button.
- If the PeopleSoft application server binaries are *local*, that is, they exist on your local hard drive, you can use either the Local System account or This Account radio button.

- If you intend to use this Windows service to start Process Scheduler, you must *always* select the This Account radio button. Enter the name of your Domain/Windows user name—not the machine name—and your password.

Note. When using Oracle Tuxedo with Process Scheduler, you must use the Microsoft Windows user name that starts the Process Scheduler server agent. This is necessary because the installation of the PeopleSoft ODBC driver sets up the registry settings to be accessible only by this user name. If you do not use the correct Microsoft Windows user name, processes that require the ODBC registry information (such as Crystal Reports) will fail.

- If you are running on Microsoft Windows and are configuring a search index that resides on a mapped network drive, you must ensure that the User ID of the ORACLE ProcMGR V11gR1 with VS2010 service has access to network drives accessed by the search engine. The search engine stores the search indexes at *PS_HOME/data/search*. However, this path can be changed in the application or the Process Scheduler's configuration. If this path is changed in these configurations and it points to a network drive, you must ensure that the user ID that starts the ORACLE ProcMGR V11gR1 with VS2010 service has access to these network drives. The application server and the process scheduler are started by the ORACLE ProcMGR V11gR1 with VS2010 service and therefore inherit the same permissions as the ORACLE ProcMGR V11gR1 with VS2010 service.

Task 3-1-8: Restricting Domain Process Privileges

This section discusses:

- Understanding Domain Process Privileges
- Setting TM_CPAU Environment Variable

Understanding Domain Process Privileges

For PeopleSoft systems, the Oracle ProcMGR service (tuxipc.exe) is responsible for starting Oracle Tuxedo domain processes on Microsoft Windows. By default, domain processes run as the same user ID that the service is running as. In a default installation, the service is configured to log on to Microsoft Windows as the Local System user. Microsoft does not support assigning network privileges to the Local System user for security reasons, but the Local System user otherwise has full administrative access to the local system.

In this configuration, PeopleSoft PeopleTools domain processes also run as the Local System user, which presents several potential issues, including:

- PeopleSoft PeopleTools domain processes are unable to access network resources.
- PeopleSoft PeopleTools domain processes run with more privileges than are necessary. A compromised PeopleSoft PeopleTools process will have full access to the local system and could potentially be used to gain unauthorized access to the local system.
- All PeopleSoft PeopleTools domain processes on the system run as the same user ID.

These problems are not present on UNIX systems where domain processes are always started as the user that runs tadmin (by way of PSADMIN for PeopleSoft installations) to boot the domain. UNIX systems therefore support multiple domains, each running under different user IDs, with only the desired local privileges, and with no undesirable restrictions to network resources.

For Microsoft Windows platforms, you can use the Oracle Tuxedo TM_CPAU environment variable to achieve behavior similar to UNIX systems. If TM_CPAU is set to *YES* before tuxipc is started, tuxipc creates an Oracle Tuxedo process that belongs to the user who initiated tadmin. If the Oracle ProcMGR service (tuxipc.exe) is started with the TM_CPAU=YES environment variable set, then domain processes will run as the user ID used to run tadmin (PSADMIN) to boot the domain.

Using the TM_CPAU environment variable enables a variety of configuration options, including:

- The Oracle ProcMGR service can be run as the Local System user, but domain processes can be run using a minimally privileged user. This reduces the chance of a compromised PeopleSoft PeopleTools process being used to gain unauthorized access to the system. Note that the option “Allow services to interact with Desktop” should *not* be selected.
- The Oracle ProcMGR service can be configured to log on to Microsoft Windows using a minimally privileged user ID and PeopleSoft PeopleTools processes can run as a user with more privileges than the Oracle Tuxedo user ID. For example, the Oracle Tuxedo user ID could have read-only access to *PS_CFG_HOME*, but the PeopleSoft PeopleTools user could have read-write access. The Oracle Tuxedo user ID does not actually require read access to *PS_HOME*. When CreateProcessAsUser runs, access to the executable to start is evaluated using the user ID that the process will run as.
- A single Microsoft Windows system can be used to host multiple PeopleSoft PeopleTools installations that are each administered by a different user. A non-administrative user ID used to boot one domain will have no privileges to processes started with a different user ID.
- Domain processes can be identified and managed in Windows Task Manager by a non-administrative user.

See "File Formats, Data Descriptions, MIBs, and System Processes Reference," Oracle Tuxedo Reference Topics, http://docs.oracle.com/cd/E26665_01/tuxedo/docs11gr1/rf5/rf5.html

Setting TM_CPAU Environment Variable

To set the TM_CPAU environment variable:

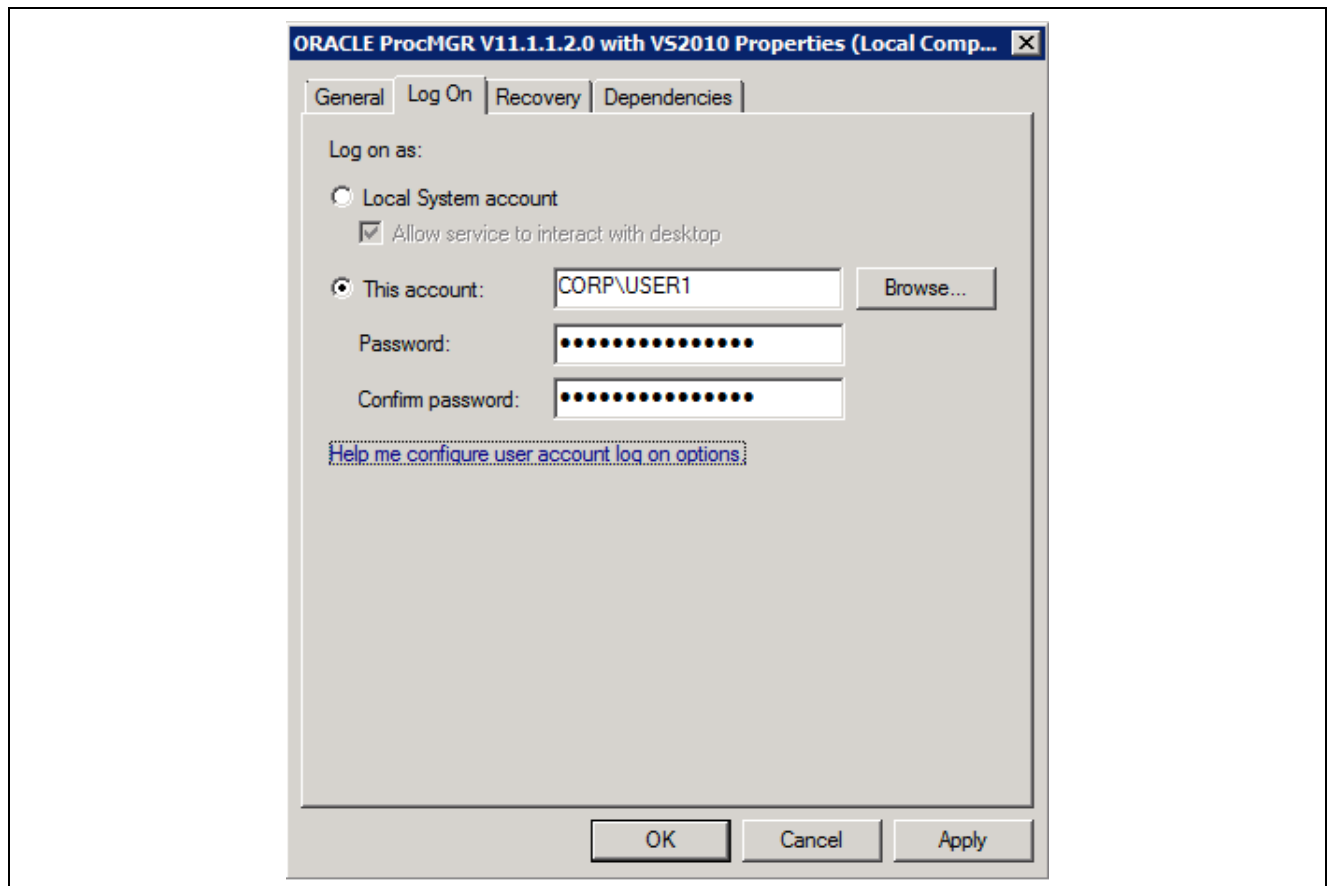
Note. This is a recommended step. Perform this step only if Local System account is used in the task Setting Up the Windows Services for Oracle Tuxedo.

1. Right-click the My Computer icon and select Properties from the menu.
2. Select the Advanced tab.
3. Click Environment Variables.
4. In the System variables area, click New to add a new environment variable.
5. Enter TM_CPAU as the variable name, YES as the value, and click OK three times to close the dialog box.
6. Restart your machine.

Task 3-1-9: Setting Up the Windows Services for Oracle Tuxedo

To set up the Microsoft Windows services for Oracle Tuxedo:

1. Log on again as the Application Server Administrator, TUXADM, or a designated user ID.
2. Open the Control Panel and double-click Administrative Tools.
3. Select Computer Management and expand Services and Applications.
4. Select Services and locate the service labeled *ORACLE ProcMGR V11gR1 with VS2010*.
Double-click ORACLE ProcMGR V11gR1 with VS2010 to open the properties dialog box.
5. On the General tab, if the Stop button is enabled, click on it to stop the current ORACLE ProcMGR V11gR1 with VS2010 process.
6. Select Log On.



Oracle ProcMGR V11.1.1.2.0 with VS2010 Properties Dialog Box: Log On Tab

Note. The option used—Local System account or This account—must be consistent with your ODBC catalog definition, due to registry operations. For example, if you use the Local System Account option, you must also catalog your ODBC data source using System DSN.

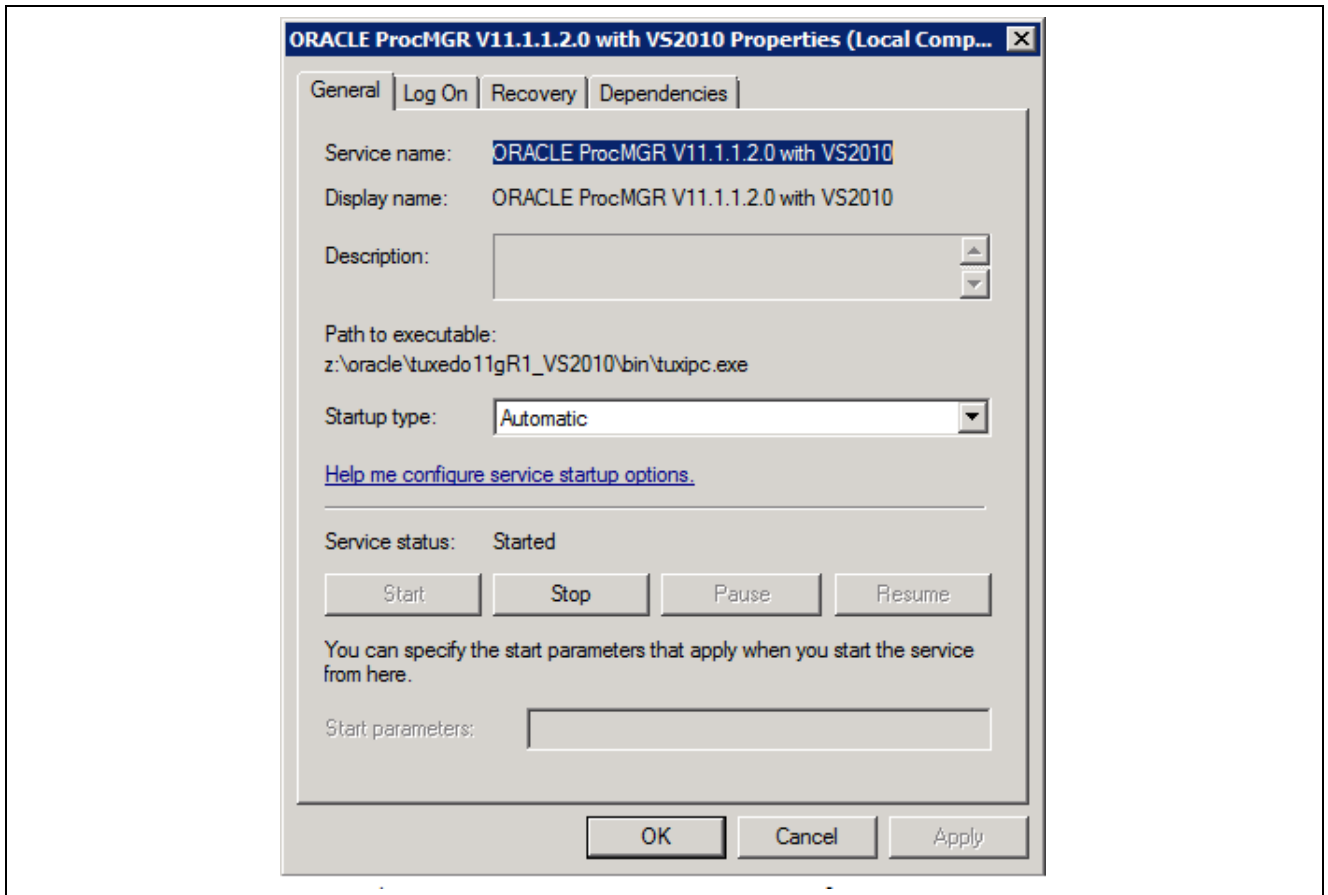
7. Choose either Local System account or This account.

If you select This account, be sure to specify a user with the appropriate permissions, and then enter and confirm the password.

See Checking the Windows Service Account.

8. Select General.

Make sure that Startup Type is set to *Automatic*.



Oracle ProcMGR V11.1.1.2.0 with VS2010 Properties Dialog Box: General tab

9. Select Start.

A message in the Services dialog box will indicate the Started status. Close the dialog box to return to the Control Panel.

10. As mentioned, unless you intend to use the Tuxedo Web Monitor, you should disable the TListen 10gR3 VS2008 (Port: *PORT*) service, where *PORT* is the port number you entered during the installation. The default is 3050.

Task 3-1-10: Verifying the Server Installation on Microsoft Windows

At this point, you should verify that the server installation was successful.

To verify the installation, open a command prompt and issue this command:

```
tmadmin -v
```

The command will return the Oracle Tuxedo version that is installed. For example:

```
INFO: Oracle Tuxedo, Version 11.1.1.2.0 with VS2010, 64-bit, Patch Level(None)
```

If you have installed any patches, you can verify your installation by opening the file *TUXDIR\udataobj\patchlev* in a text editor and checking the last line. For example, the following line indicates that rolling patch RP043 was installed:

```
043. BUG9656822 TUX10.3: CAN'T INSTALL PATCHES ON WINDOWS 2003 X86-64 VS2006
```

If you cannot find a patchlev file in the *TUXDIR*\udataobj directory, it means that only the base is installed; there is no rolling patch installed.

If you do not see the desired output, review your steps and reinstall Oracle Tuxedo 11gR1_VS2010.

Task 3-1-11: Ensuring that Oracle Tuxedo Coexists with Earlier Versions

This section discusses:

- Understanding the Use of Multiple Oracle Tuxedo Versions
- Checking Your Environment Variables
- Changing the TListen Port

Understanding the Use of Multiple Oracle Tuxedo Versions

PeopleSoft PeopleTools 8.49 uses Oracle Tuxedo 9.1; releases 8.44 to 8.48 use Oracle Tuxedo 8.1. Earlier versions of PeopleSoft PeopleTools rely on earlier versions of Oracle Tuxedo—for example, PeopleSoft PeopleTools 8.41 uses Oracle Tuxedo 6.5. If you are installing only PeopleSoft PeopleTools 8.53, you can safely skip this section. If you need to run application servers on PeopleSoft PeopleTools 8.53 and earlier PeopleSoft PeopleTools versions on the same machine, read this section to learn about coexistence issues. Although Oracle Tuxedo 11gR1 coexists with earlier Oracle Tuxedo versions on the same machine, you may need to take a number of manual steps to ensure that these products share the same environment gracefully.

Checking Your Environment Variables

Installing Oracle Tuxedo changes your *TUXDIR* and *PATH* environment variables. Although you do not need to change these environment variables to successfully run PeopleSoft PeopleTools 8.53 with Oracle Tuxedo 11gR1, earlier versions of PeopleSoft PeopleTools rely on these environment variables being set.

To change your environment variables manually:

1. Set your *TUXDIR* environment variable to reflect the installation directory of your earlier Oracle Tuxedo release.

For example, Oracle Tuxedo 8.1 may be installed to C:\tux8.1. This means that *TUXDIR*=C:\tux8.1 is the correct setting. Oracle Tuxedo 6.5 may be installed to C:\tux65. This means that *TUXDIR*=C:\tux65 is the correct setting.

2. Your *PATH* environment variable must contain *TUXDIR*\bin for the earlier Oracle Tuxedo version before any entries for Oracle Tuxedo 11gR1 *TUXDIR*\bin.

For example the setting *PATH*=C:\winnt;C:\oracle\tuxedo11gR1_VS2010\bin;C:\tux65\bin will cause your pre-8.51 domains to no longer work. You would need to change this to *PATH*=C:\winnt;C:\tux65\bin;C:\oracle\tuxedo11gR1_VS2010\bin to work with pre-PeopleSoft PeopleTools 8.44 domains.

Note. PeopleSoft PeopleTools 8.44 and later do not use environment variables to discover the installation location of Oracle Tuxedo 8.1 and later. The PSADMIN tool retrieves these values from the Microsoft Windows registry.

Alternatively, you can set the environment variables for a desired release using these steps:

1. Go to the *TUXDIR* directory for the release that you want to run and run `./tux.env`.

This command sets the environment variables needed to run Oracle Tuxedo.

2. Verify the correct Oracle Tuxedo version by running this command:

```
tmadmin -v
```

See Verifying the Server Installation on UNIX.

Changing the TListen Port

Installing Oracle Tuxedo 11gR1 and earlier creates a new service known as TListen. In most cases, you can disable this service as it is not required to run PeopleSoft PeopleTools application server domains. However, if you intend to use the Tuxedo Web Monitor you may wish to ensure that there is no port clash with earlier versions. This port is determined at installation and should be changed to a port other than the default 3050 if you intend on using the TListen service for Oracle Tuxedo 11gR1 and earlier Oracle Tuxedo versions concurrently.

CHAPTER 4

Using the PeopleSoft Installer

This chapter discusses:

- Understanding the PeopleSoft Installer
- Prerequisites
- Obtaining the PeopleSoft Installation Files from Oracle Software Delivery Cloud
- Running the PeopleSoft Installer
- Verifying Necessary Files for Installation on Windows
- Installing the Verity Integration Kit
- Installing PeopleSoft Application Software
- Installing the Multilanguage Files
- Installing the PeopleSoft Client Files
- Mapping a Drive on the Install Workstation

Understanding the PeopleSoft Installer

This section discusses:

- Defining the PeopleSoft Installer
- Defining Supported Server Combinations
- Obtaining License Codes

Defining the PeopleSoft Installer

The PeopleSoft Installer is a Java-based tool that delivers software to your servers and to the PeopleSoft Client. You can install the whole range of PeopleSoft servers and client with the PeopleSoft installer. You can install the server and client software separately or together.

Note. You must install the necessary web server products and any additional component software as described in the previous chapters before you run the PeopleSoft Installer.

The PeopleSoft Installer enables you to transfer files directly to various PeopleSoft servers—including application servers, batch servers, web servers, and database servers—without first copying all files to a file server. You can also use the PeopleSoft Installer to install the files for the PeopleSoft Client.

You run the PeopleSoft installer to install the necessary products on the target machines. Which files are installed depends on the operating system on the target machine, the database platform, and the selected server option. The PeopleSoft Installer installs files directly to Microsoft Windows machines. PeopleSoft PeopleTools and PeopleSoft applications use the same PeopleSoft installation template. This chapter discusses the installation of PeopleSoft PeopleTools, followed by the installation of PeopleSoft application software and the application-specific Multilanguage files.

All licensed components of the PeopleSoft Architecture must be installed on each server. Ideally, you should install the Windows file server component first.

You can install multiple logical servers to the same machine. For example, you can have the application server and the batch server on the same machine. But, if you want to install different servers to different machines, you have to run the PeopleSoft Installer once for each server.

Before beginning the installation, be sure to review the information about the various PeopleSoft servers and clients in the chapter “Preparing for Installation.”

See Also

"Preparing for Installation," Planning Your Initial Configuration

Defining Supported Server Combinations

The following table lists the supported operating systems for the various PeopleSoft servers for your database platform. For more detailed information, consult the PeopleSoft product certifications area of My Oracle Support.

Supported operating systems for database servers	Supported operating systems for application servers and batch servers	Supported operating systems for file servers	Supported operating systems for web servers
Microsoft Windows x64 (64-bit) Microsoft Windows Itanium (64-bit)	Microsoft Windows x64 (64-bit) Microsoft Windows Itanium (64-bit)	Microsoft Windows x64 (64-bit)	<ul style="list-style-type: none"> • IBM AIX on POWER Systems (64-bit) • HP-UX Itanium (64-bit) • Linux x86-64 • Microsoft Windows x64 (64-bit) • Oracle Solaris on SPARC (64-bit) • Oracle Solaris x86_64

See Also

My Oracle Support, Certifications

Obtaining License Codes

Refer to the following URL for license codes for Oracle's PeopleSoft line of products:
http://licensecodes.oracle.com/ent_keys_by_prod.html.

See Also

My Oracle Support, (search for Licensing Notes for the current release)

"Setting Up the PeopleSoft Pure Internet Architecture (in GUI or Console Mode)," Completing Post-Installation Steps

Prerequisites

Verify that you fulfill the following requirements before beginning the installation:

- The PeopleSoft Installer requires Java Virtual Machine (JVM), which is bundled for all OS platforms. The PeopleSoft Installer searches for the JVMs in the directories in which users would typically install JVM. If the search fails, the bundled JVM will be used. For the PeopleSoft Installer to run successfully, you must have JRE/JDK version 7 or higher. See My Oracle Support for information on the correct JRE version for your system.

See My Oracle Support, Certifications.

- Before running the PeopleSoft installer, you must verify that you have the correct patches for your JVM level.

Check My Oracle Support and your vendor for required patches.

See "Operating System, RDBMS, & Additional Component Patches Required for Installation PeopleTools," My Oracle Support, (search for the article title).

- Make sure you have at least 4.5 GB of free space to perform your installation.

See Running the PeopleSoft Installer.

- The installation process also requires at least 2.0 GB of free temporary disk space, which is needed only for the duration of the process. The process uses the directory defined by the TEMP environment variable on your installation computer.

Oracle recommends that you use the following guidelines for the temporary directory:

- Do not use /tmp as the temporary directory.
- Do not specify a directory that is on a shared drive.
- Do not specify a directory that is inside the location where PeopleSoft PeopleTools is being installed; for example, *PS_HOME*/temp.
- The user who installs PeopleSoft PeopleTools must be root or the owner of *PS_HOME*.
PS_HOME is used throughout this installation guide to refer to the high-level directory where your PeopleSoft PeopleTools and application software are installed. The documentation may also use the notation \$PS_HOME or %PS_HOME% to refer to the PS_HOME environment variable in a code sample.
- You must have admin privileges to install the PeopleSoft web server.
- You can install the PeopleSoft web server to *PS_HOME*, or to another directory outside *PS_HOME*. This documentation refers to the directory where you install the PeopleSoft web server as *PIA_HOME*.

See "Preparing for Installation," Defining Installation Locations.

- If your installation requires any PeopleSoft PeopleTools patches, you can apply the code (that is, the contents of the zip file you downloaded from My Oracle Support) after running the PeopleSoft Installer.

Do not apply the database instructions at this time; the database objects will be applied later during the install. Be sure to read and follow the instructions provided with the PeopleSoft PeopleTools patches.

See Also

My Oracle Support, Certifications

Task 4-1: Obtaining the PeopleSoft Installation Files from Oracle Software Delivery Cloud

You obtain the PeopleSoft PeopleTools, PeopleSoft application, and multi-language software by downloading them as zip files from Oracle Software Delivery Cloud. At this point you should have already downloaded the necessary files. However, if you have not yet downloaded the files, this section includes information on finding and using the installation files.

See "Preparing for Installation," Using Oracle Software Delivery Cloud to Obtain Installation Files.

To obtain the installation files for PeopleSoft PeopleTools from Oracle Software Delivery Cloud:

1. After logging in to Oracle Software Delivery Cloud, on the Media Search Pack page, select *PeopleSoft Enterprise* from the Select a Product Pack drop-down list on the Media Pack Search page.

Select the operating system you are running on from the Platform drop-down list, and click Go.

Note that you must unzip the media pack zip files on the platform for which they are intended. For example, if you download the file for the Oracle Solaris platform, you must unzip the file on an Oracle Solaris operating system. If you unzip the file on a Microsoft Windows machine into a staging directory, and then move the directory to an Oracle Solaris machine, the staging area files may be corrupted.

2. Select the radio button for PeopleSoft Enterprise - PeopleTools 8.53 Media Pack, and click Continue.
3. Click the Readme button to view information on the media pack.
4. Download the 3 zip files for the PeopleSoft PeopleTools 8.53 installation, and the following:
 - For the PeopleSoft application and multi-language installations, download the appropriate zip files.
 - For a separate installation of the PeopleSoft Client, download the PeopleSoft PeopleTools 8.53 Client Only zip file.
 - For Verity, download PeopleSoft PeopleTools 8.53 Verity.
5. For the PeopleSoft PeopleTools installation, when you unzip the files, extract them into a temporary directory, referred to here as *PS_INSTALL*. The extracted files are loaded into directories Disk1, Disk2, Disk3, and so on.

For the PeopleSoft application, multi-language files, Verity, and PeopleSoft PeopleTools Client Only installation file, extract the zip files into a convenient local directory, referred to as *PS_INSTALL*.

For UNIX only:

After you download the installation files from Oracle Software Delivery Cloud, if it is necessary to transfer the files to a UNIX computer using FTP, you must change the permissions to make them executable, for example using the `chmod +x` command. Change the mode to executable for the following files:

- *PS_INSTALL*\Disk1\setup.sh
- Files in *PS_INSTALL*\Disk1\InstData:

- setup.aix
- setup.hp-ia64
- setup.linux
- setup.solaris
- setup.solaris-x86_64

See Also

"Setting Up the PeopleSoft Pure Internet Architecture," Completing Post-Installation Steps

Application-specific installation instructions, My Oracle Support (search for the PeopleSoft application)

Obtaining License Codes

Task 4-2: Running the PeopleSoft Installer

This section discusses:

- Understanding the PeopleSoft Installer
- Starting the PeopleSoft Installer
- Installing PeopleSoft PeopleTools in GUI Mode

Understanding the PeopleSoft Installer

The PeopleSoft Installer guides you through the process of installing files to your various servers. You must run the PeopleSoft Installer on each machine that you use for one or more PeopleSoft server. The specific options that you see during the installation procedure depend upon the operating system platform, database platform and so on.

Use the PeopleSoft Installer for:

- PeopleSoft PeopleTools
- PeopleSoft Applications
- Multilanguage files
- PeopleSoft Client files

The files will be installed into a high-level PeopleSoft directory. This directory, which is referred to in this documentation as *PS_HOME*, is the location for PeopleSoft PeopleTools, PeopleSoft application, and multilanguage files. It is a good idea to use a directory name that indicates the application you are installing and the version number, such as HCM910 for the 9.1 version of PeopleSoft Human Capital Management.

Note. The machine that you use to perform your PeopleSoft PeopleTools installation must be running in *256-color mode* or higher when running the PeopleSoft PeopleTools, PeopleSoft application, multi-language, or PeopleSoft Pure Internet Architecture installation, and database configuration in Microsoft Windows. This is not necessary for console mode.

The PeopleSoft Installer asks whether you want to install supporting features such as Unicode support or Environment Management Hub. Before you run the PeopleSoft Installer, you may want to consult supporting documentation to help you in choosing these options.

See Also

PeopleTools: Global Technology

PeopleTools: Change Assistant and Update Manager

PeopleTools: System and Server Administration

My Oracle Support, Certifications

Task 4-2-1: Starting the PeopleSoft Installer

After you download and extract the PeopleSoft PeopleTools installation files you can find the installer in *PS_INSTALL/disk1*.

To start the PeopleSoft Installer, type:

```
[path]setup.bat [additional flags]
```

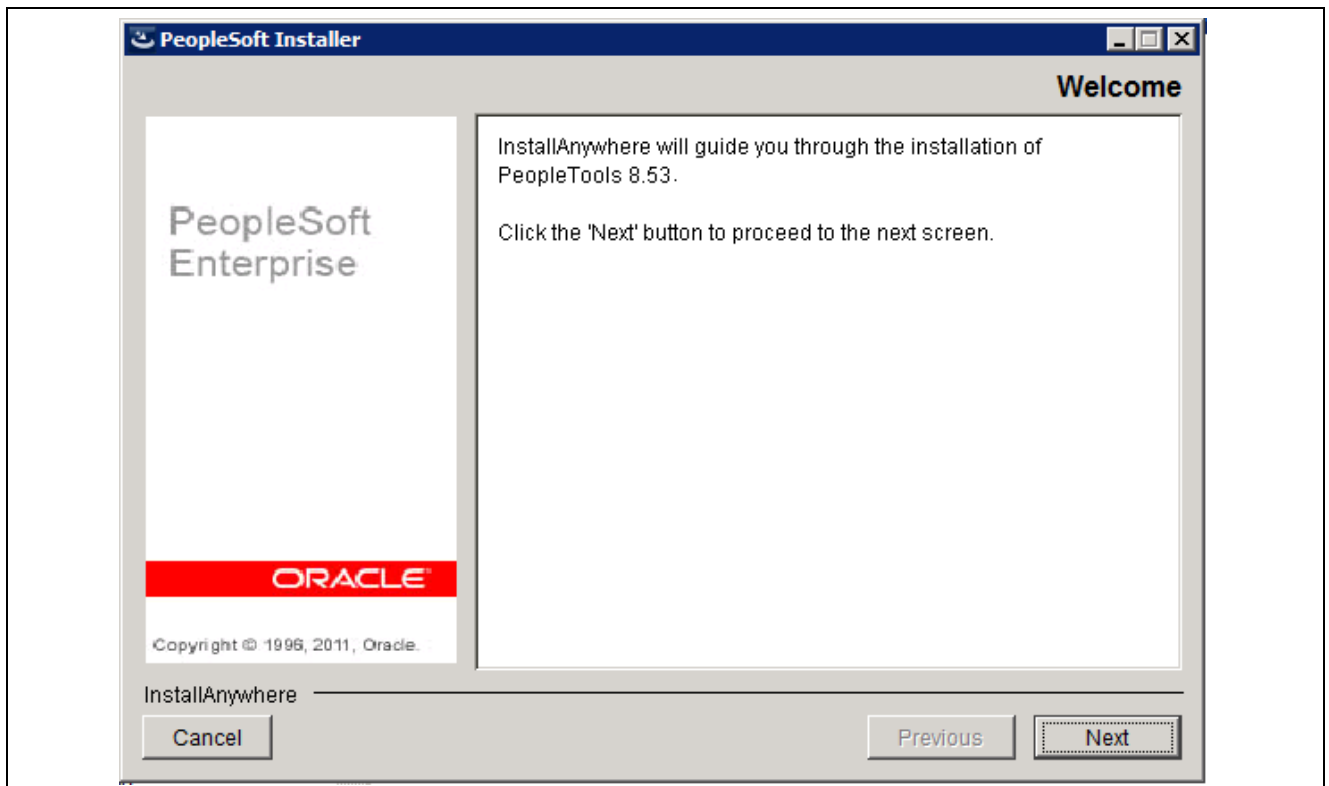
This table lists the options that you can use with setup.sh, their allowed values, and descriptions:

Command Line Option	Allowed Values	Description
-debug	NA	Use this flag to enable debugging mode.
-DDEBUG=true	NA	Use this variable for debugging.
-javahome	Path to Java home directory. For example: <code>setup.bat -javahome D:\prod⇒ \jre</code>	Use this flag to specify where you installed the Java home directory, if your installation is different than the vendor-defined JRE Search Path.
-tempdir	Path to temporary directory	Use this flag to specify the temporary directory to extract temporary files. This is recommended if you have less than 2 GB of space in your temporary directory. See the Prerequisites section for information on specifying the temporary directory.

Task 4-2-2: Installing PeopleSoft PeopleTools in GUI Mode

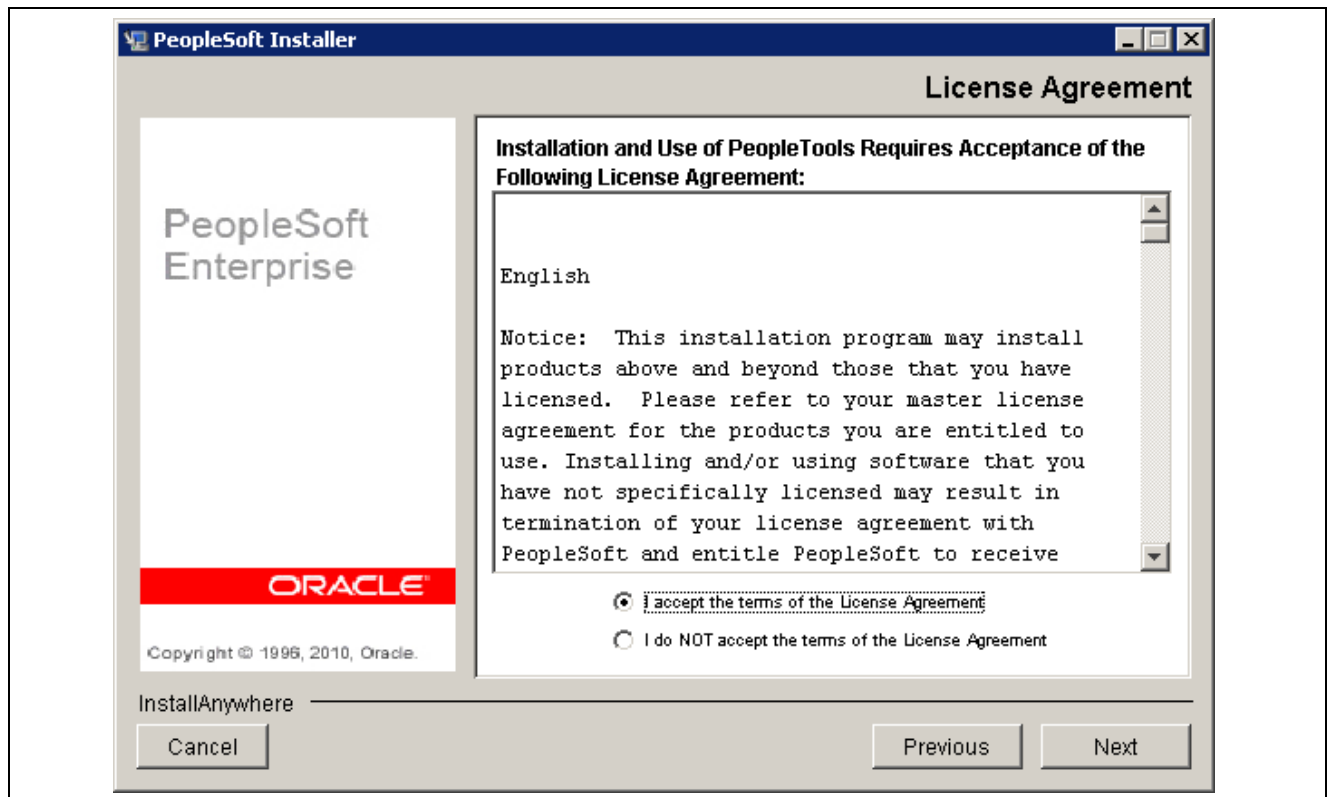
To install PeopleSoft PeopleTools with the PeopleSoft Installer in GUI mode:

1. Launch the installer. Click Next when you see the Welcome screen for PeopleTools 8.53.



PeopleSoft Installer Welcome window

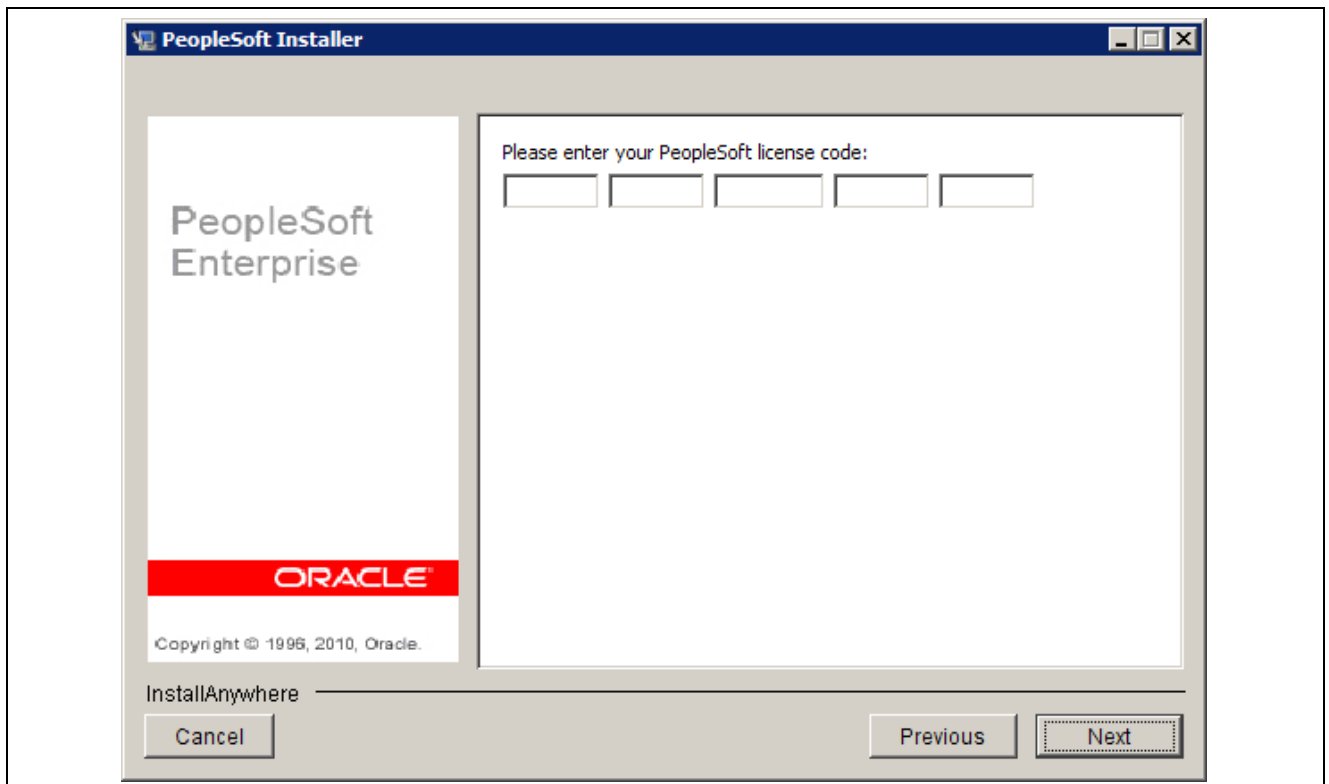
2. Click the radio button to accept the license agreement and click Next.
The License Agreement window includes the terms in several languages.



PeopleSoft Installer License Agreement window

3. Enter your license code and click Next.

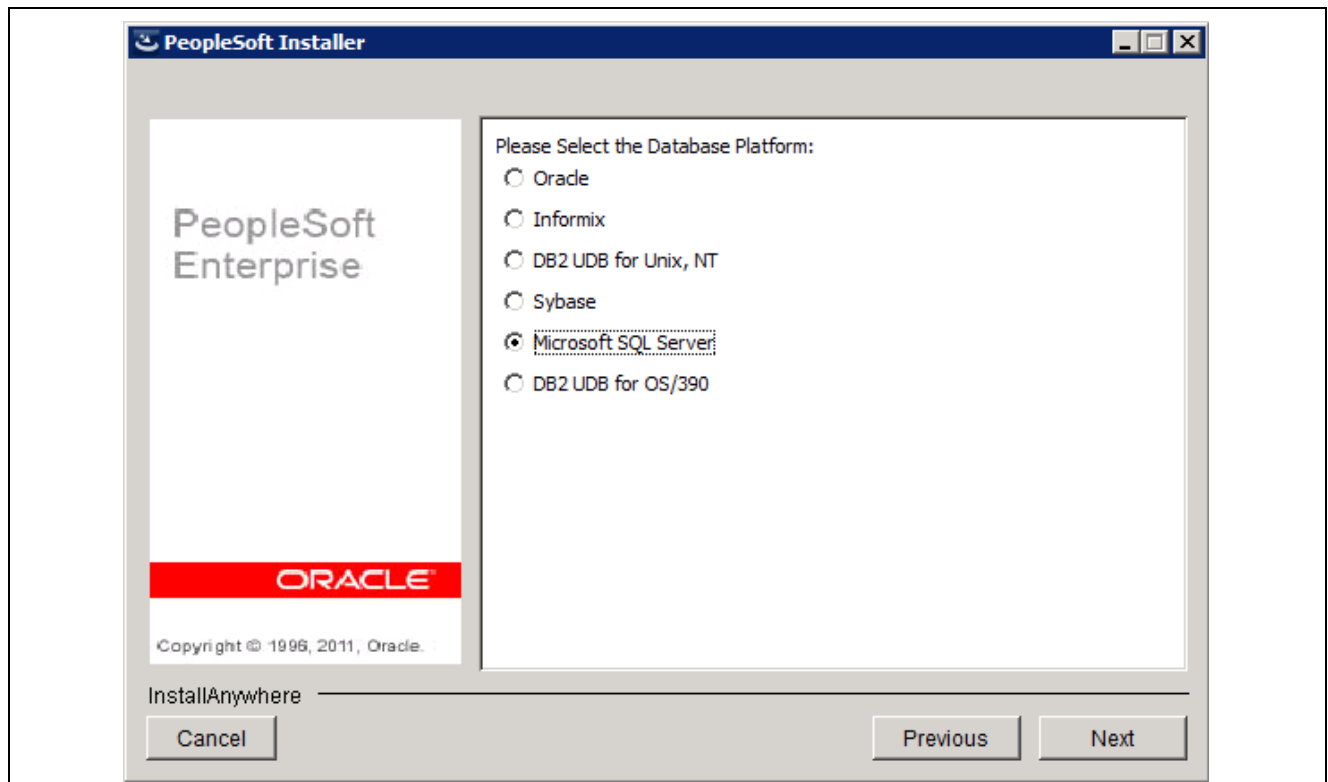
See Understanding the PeopleSoft Installer, Obtaining License Codes.



PeopleSoft Installer License code entry window

4. Select the database platform you are installing on and click next.

In the following example, a Microsoft SQL Server database platform is selected. The other options are DB2 UDB for OS/390 (DB2 z/OS), DB2 UDB for Unix, NT (DB2/LUW), Informix, Oracle, and Sybase.



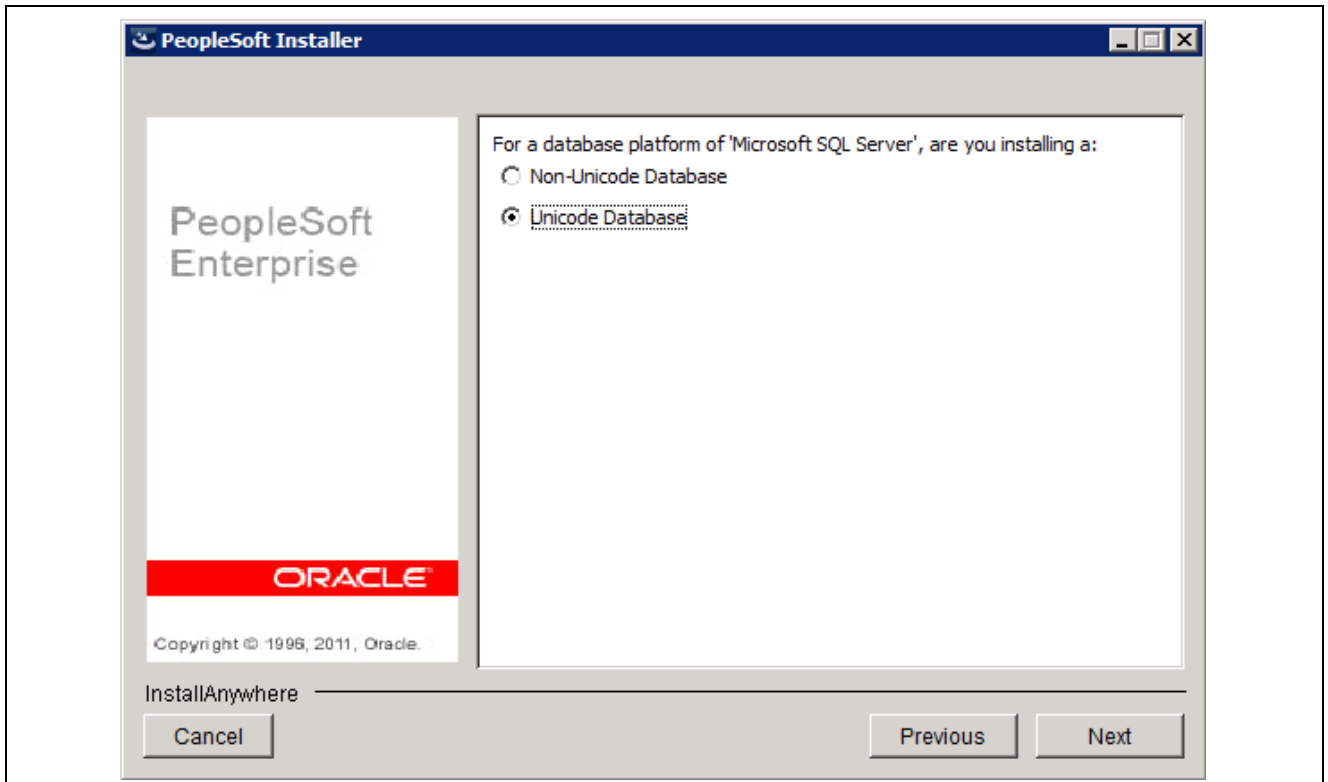
Selecting a Microsoft SQL Server database platform for the PeopleSoft PeopleTools installation

5. Choose a Unicode or non-Unicode database and click Next.

Note. Unicode databases are beneficial if you intend to deploy your applications globally. Some languages in a PeopleSoft installation are only supported in a Unicode database. Unicode databases can require more disk space than non-Unicode databases.

See *PeopleTools: Global Technology*.

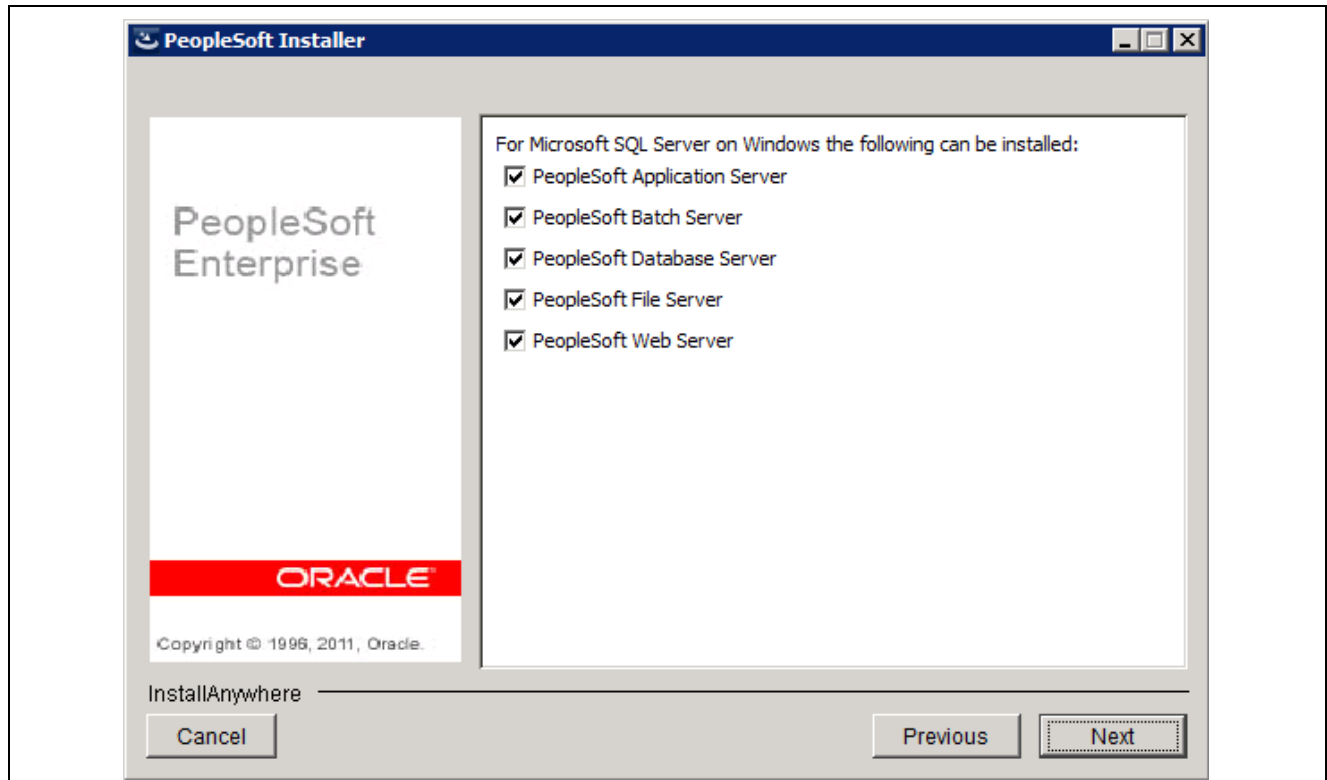
This example shows the Unicode Database option selected.



Selecting Unicode Database for the PeopleSoft PeopleTools installation

6. Select the servers you want to install and click *Next*.

In this example the PeopleSoft Application Server, PeopleSoft Batch Server, PeopleSoft Database Server, PeopleSoft File Server, and PeopleSoft Web Server are selected.



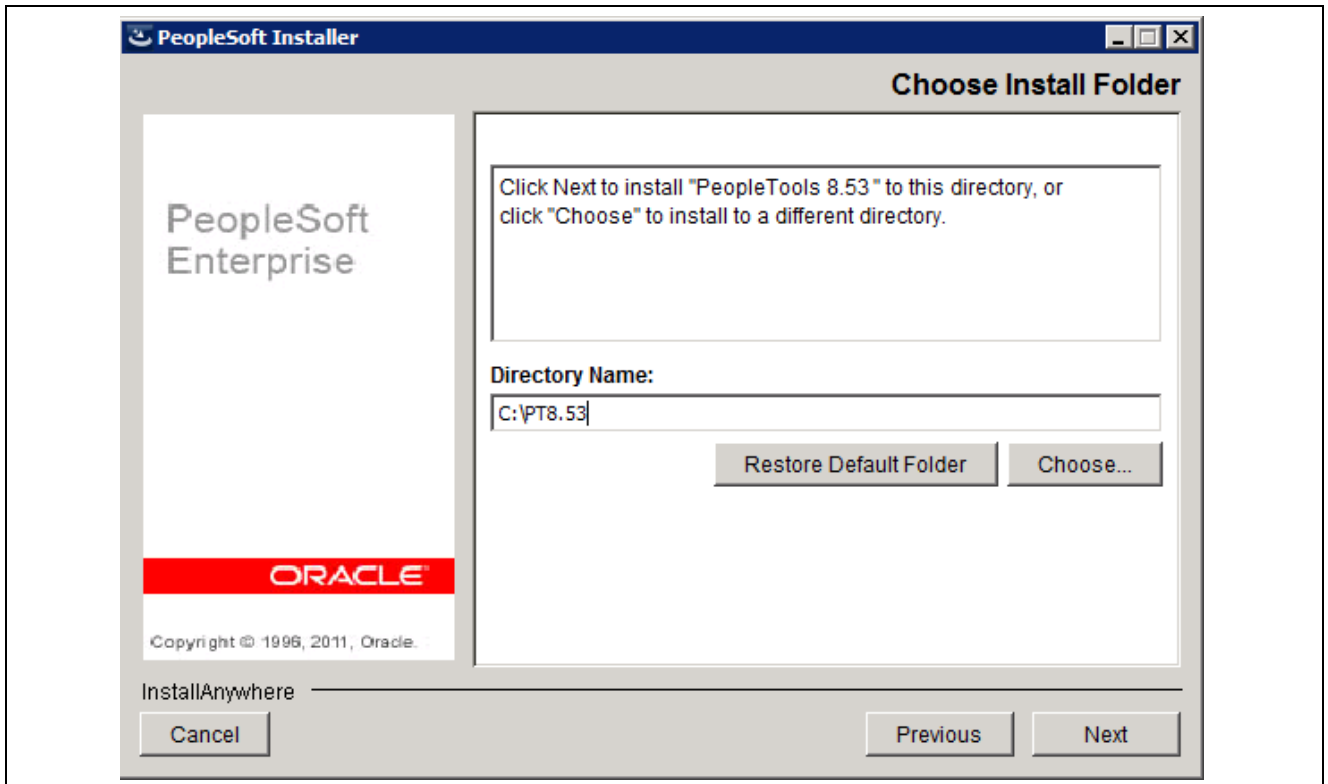
Selecting servers for the PeopleSoft PeopleTools installation

Use the following information to help you make your selection:

- You can install multiple servers at the same time, but they will all be installed on the same machine. If you want to install servers on separate machines, you need to run the PeopleSoft Installer on each server machine.
 - If you do not have admin privileges, you will not be able to install PeopleSoft web server. You will have to either acquire admin privileges or deselect the Web Server option to continue.
 - You *must* install the PeopleSoft software on your database server in order to run the PeopleSoft Database Configuration Wizard. (Running the Database Configuration Wizard is discussed in the chapter “Creating a Database”.)
7. Specify the directory where you want to install PeopleSoft PeopleTools, referred to in this documentation as *PS_HOME*, in the Directory Name field, and click *Next*.

In this example, *PS_HOME* is C:\PT8.53.

Note. Substitute your network drive and the directory name of your choice for the default selection. The installation directory name cannot contain a space. Note that directory names containing periods or non-US-ASCII characters may not work with some additional component software.

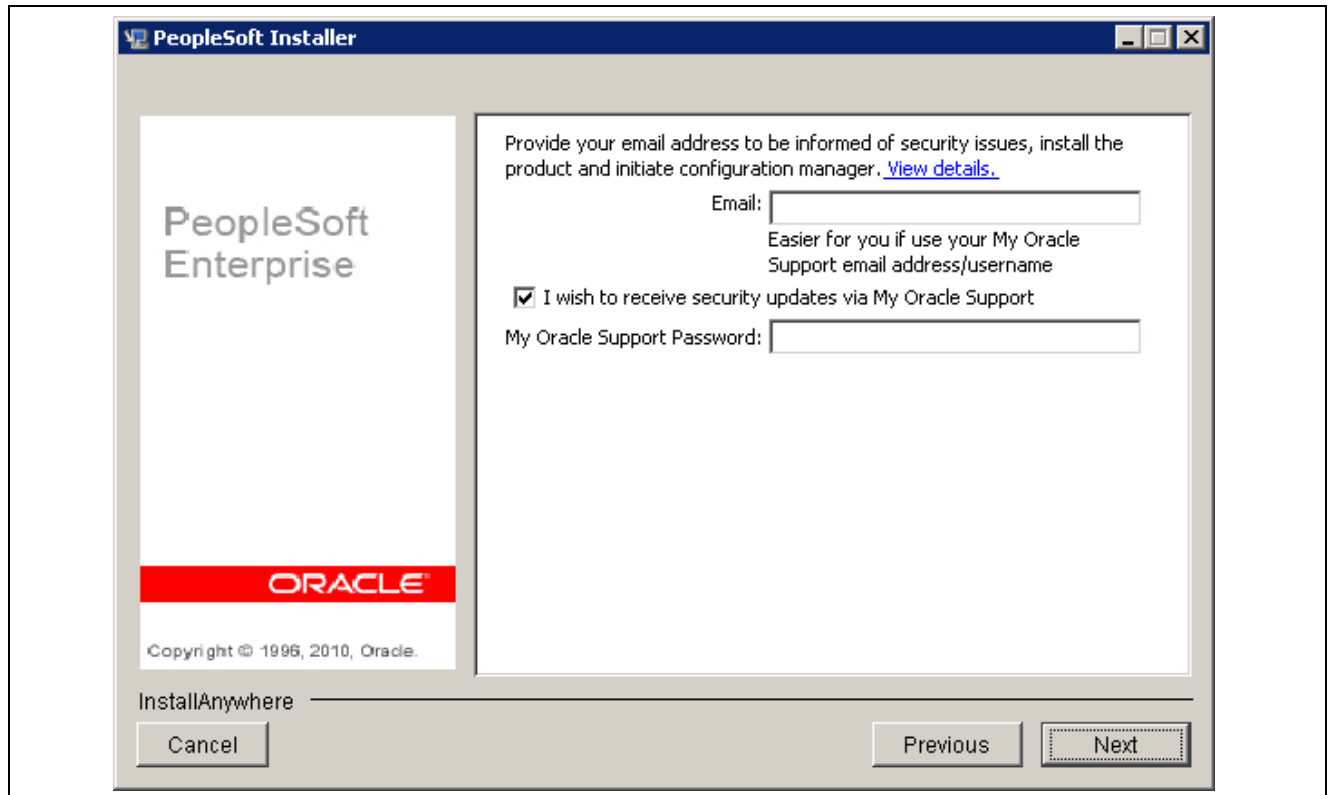


PeopleSoft Installer Choose Install Folder window

8. If you selected the PeopleSoft Application Server, PeopleSoft Web Server, or PeopleSoft Batch Server option above, the Oracle Configuration Manager Setup window appears.

This window does not appear if the Oracle Configuration Manager is already configured for your environment.

See "Preparing for Installation," Using the Oracle Configuration Manager.



Oracle Configuration Manager Setup window

9. If you would prefer not to continue with the setup of Oracle Configuration Manager, do not enter either an email address or a password.

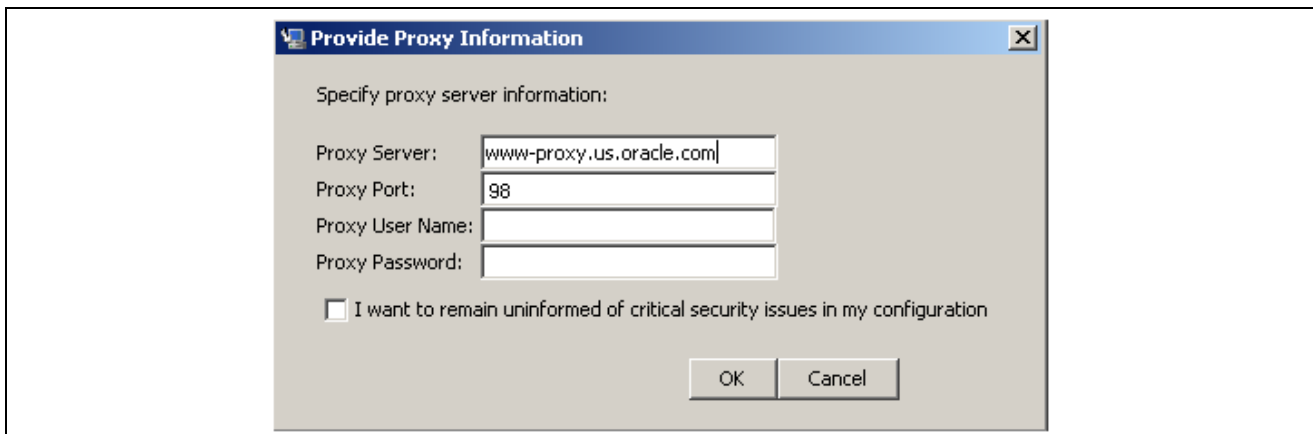
When you click Next, a confirmation dialog box appears asking if you really do not want to receive security updates. If you click Yes, the PeopleSoft PeopleTools installation continues and Oracle Configuration Manager is not configured. You can configure Oracle Configuration Manager later from *PS_HOME/ccr* using the instructions available at My Oracle Support.

See My Oracle Support, <https://support.oracle.com>

10. If you want to configure Oracle Configuration Manager in anonymous mode, clear the check box I wish to receive security updates via My Oracle Support, enter an email address, and click Next.
11. To configure Oracle Configuration Manager now, enter the email address and password associated with your My Oracle Support account.

Select or clear the option I wish to receive security updates via My Oracle Support, and click Next.

Oracle Configuration Manager checks for Internet connectivity, and verifies the credentials specified. If there is no direct connectivity to the Internet, the Provide Proxy Information dialog box appears to enable you to define a proxy server.



Provide Proxy Information dialog box

Enter the following information:

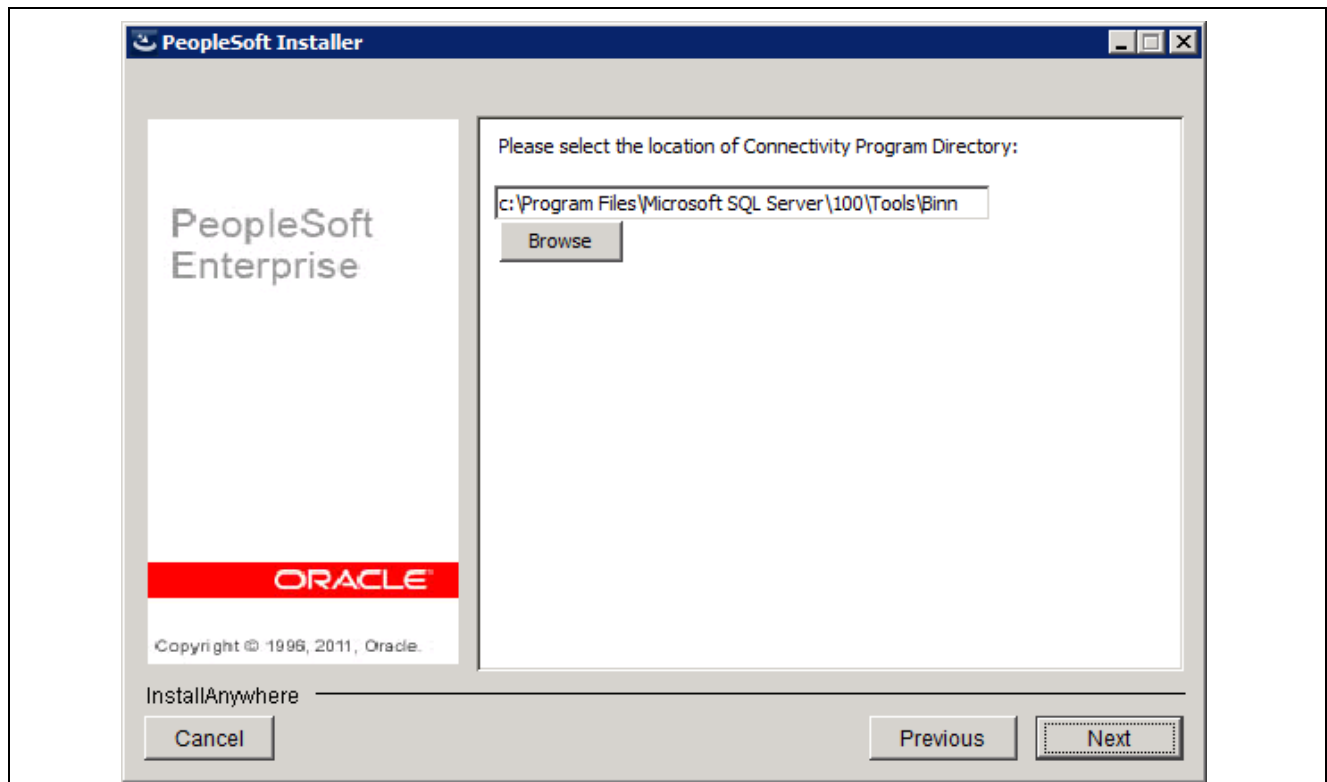
- Proxy Server — The host name of the proxy server, for example `www-proxy.us.oracle.com`.
- Proxy Port — The port for the proxy server, for example, 98.
- Proxy User Name — If the proxy server requires authentication, enter the user name.
- Proxy Password — If the proxy server requires authentication, enter the password.
- Select the option ☐ I want to remain uninformed of critical security issues in my configuration check box if you want Oracle Configuration Manager to be installed in disconnected mode.

12. Click OK to confirm connectivity.

If Oracle Configuration Manager cannot validate the entered My Oracle Support account and the proxy information, the Provide Proxy Information dialog box appears. If you attempt the validation three times, an error message appears, and your account is registered as anonymous.

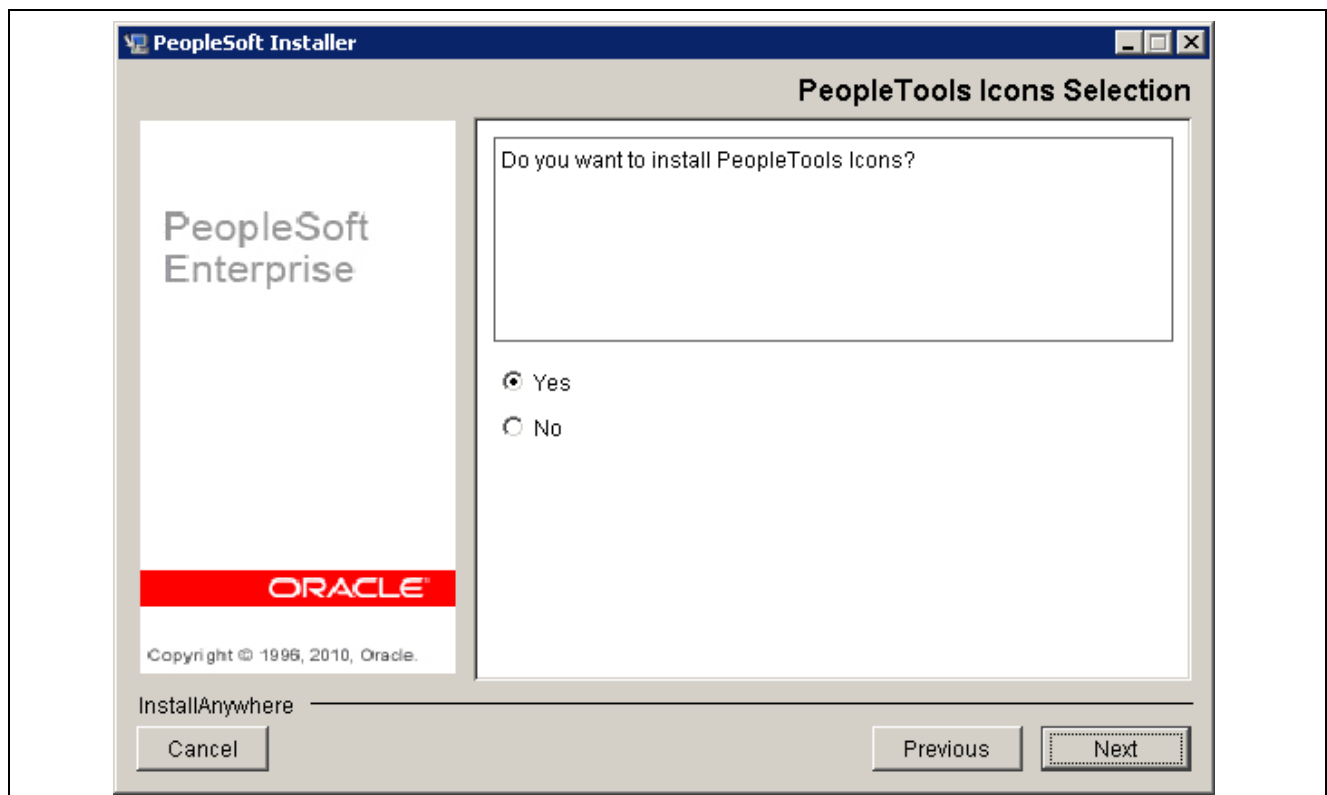
13. Specify the location of your Connectivity Program Directory and click *Next*.

The location of the Connectivity Program Directory varies depending upon the version of SQL Server that you are using. The location may also vary depending on the options chosen during installation. For SQL Server 2008 the default location is: `C:\Program Files\Microsoft SQL Server\100\Tools\Binn`, as shown in this example.



Specifying the Connectivity Program Directory for the PeopleSoft PeopleTools installation

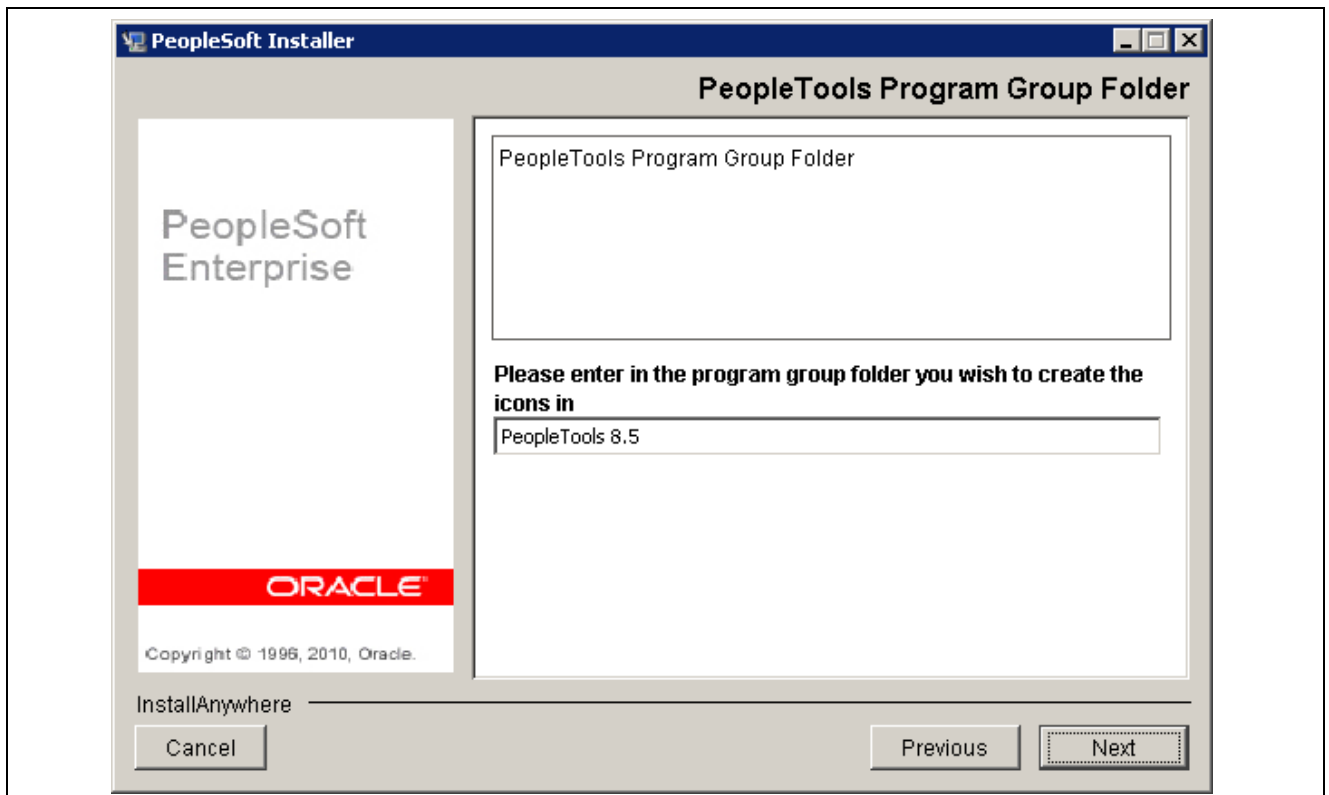
14. Depending on the PeopleSoft servers you selected, choose whether to install the PeopleSoft PeopleTools icons and click Next.



PeopleSoft PeopleTools Installer Icons Selection window

15. If you elected to install PeopleSoft PeopleTools icons, choose a valid group folder in which to create them and click Next.

This example shows the default group folder, PeopleTools 8.5.

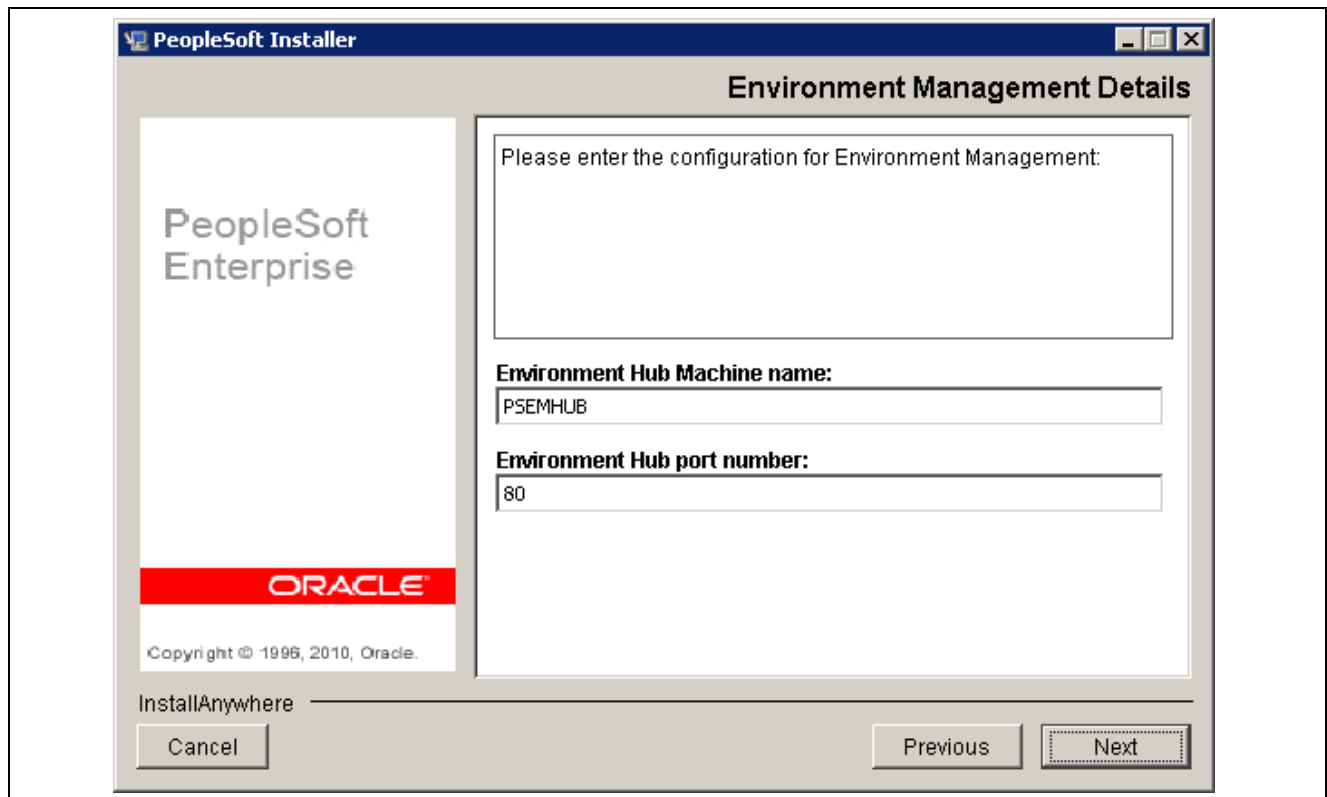


PeopleSoft PeopleTools Program Group Folder window

16. Enter the configuration information for Environment Management.

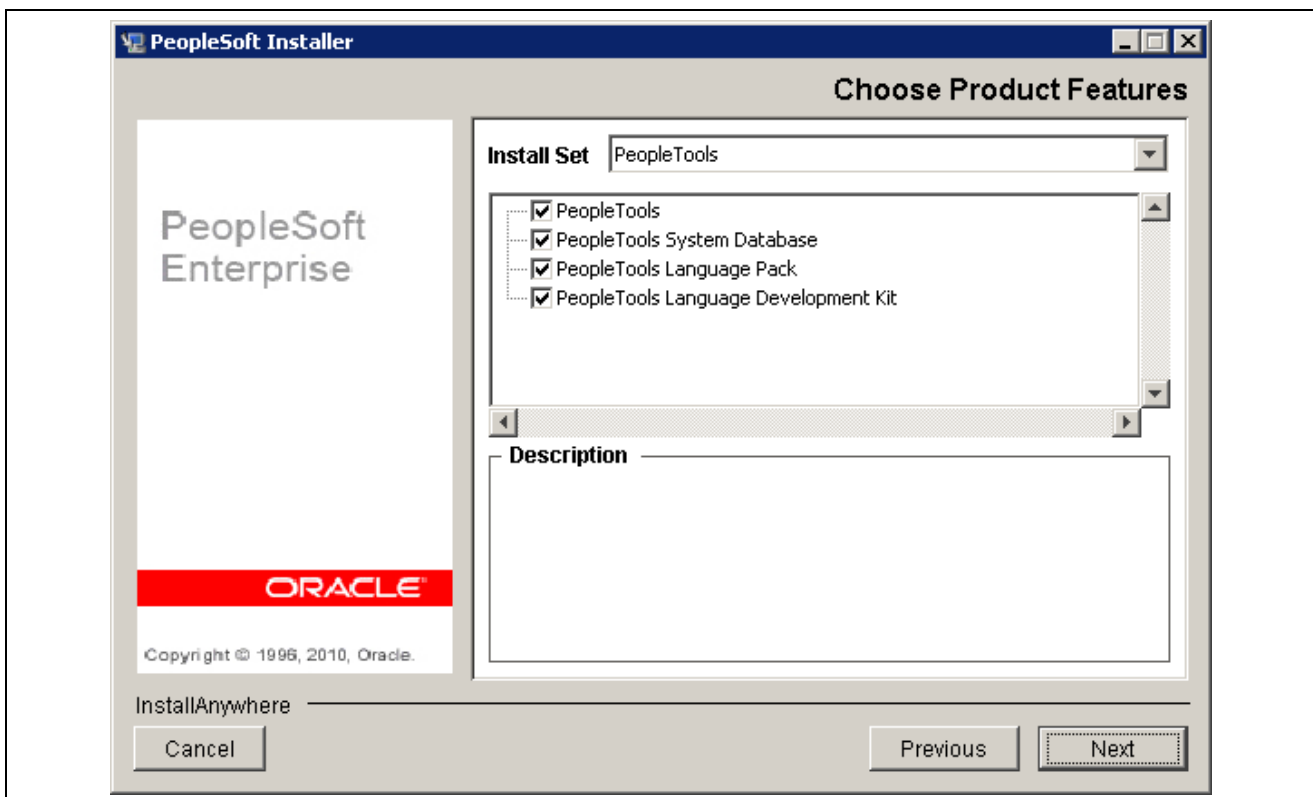
Select the machine name of the web server running the Environment Manager Hub. (This will very likely be the machine on which you run the PeopleSoft Pure Internet Architecture). Select the hub port number (the default is 80, as shown in the example). This needs to match the PeopleSoft Pure Internet Architecture port. If you change the port number for the PeopleSoft Pure Internet Architecture configuration, you must also change the web server listener port number for all the agents in the configuration.properties file.

See the information on configuring and running Environment Management Components in the *PeopleTools: Change Assistant and Update Manager* product documentation.



PeopleSoft PeopleTools Installer Environment Management Details window

17. The next screen lists the PeopleSoft PeopleTools components (features). Accept the defaults for the PeopleSoft PeopleTools features and click Next.



PeopleSoft PeopleTools Installer Choose Product Features window

- Select *PeopleTools* to install PeopleSoft PeopleTools and the PeopleSoft Pure Internet Architecture. This component contains the core PeopleTools files and is required for the proper operation of the PeopleSoft system and the PeopleSoft Pure Internet Architecture.
- Select *PeopleTools System Database* to allow your developers to create custom PeopleSoft PeopleTools applications outside of the delivered PeopleSoft Application.
- The *PeopleTools Language Pack* and *PeopleTools Language Development Kit* contain the translated PeopleSoft PeopleTools DLLs and the resource files and headers needed to build them.

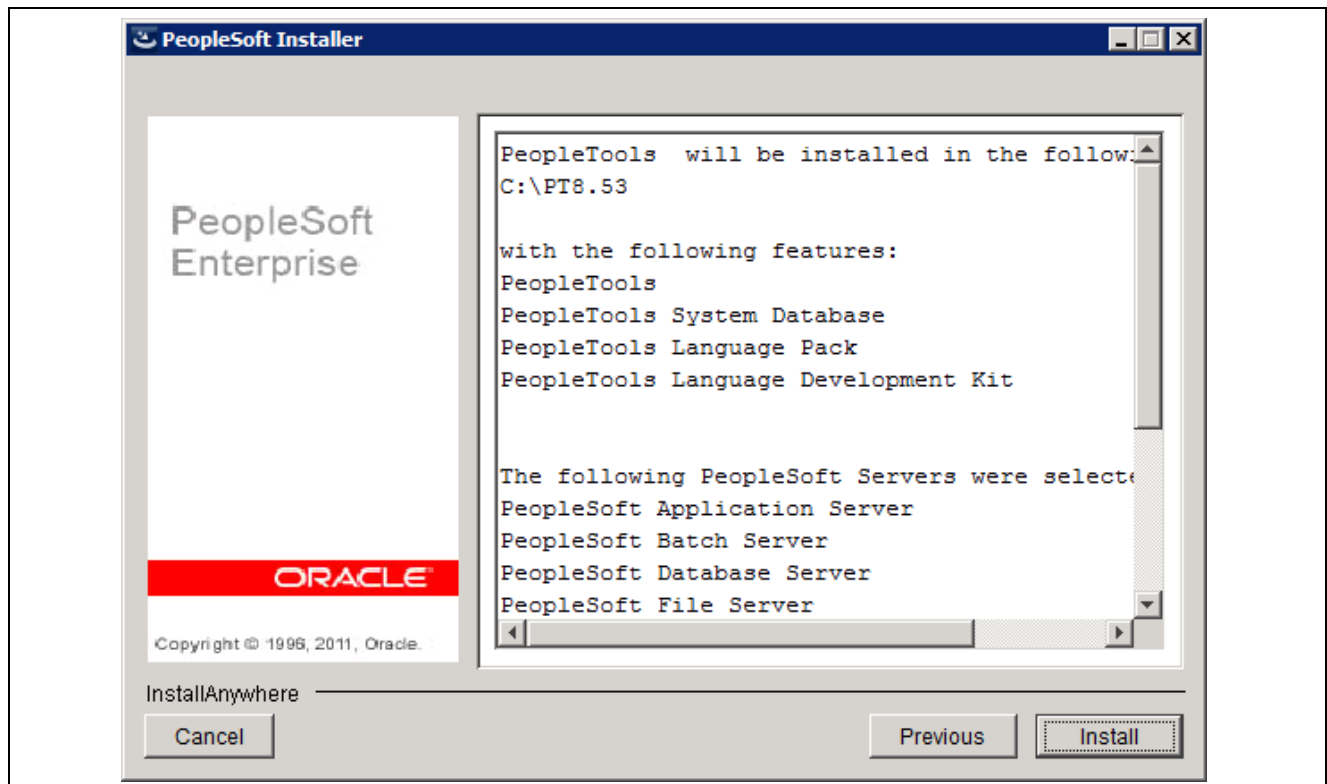
Note. These options are available only for installations on Windows.

Select *PeopleTools Language Pack* if you plan on running the Windows components of the installation in languages other than English. This component contains the compiled PeopleSoft translations for the Windows client. If you are not using multiple languages throughout your implementation, you do not need this component.

Select *PeopleTools Language Development Kit* if you plan on modifying or creating your own new translations for the PeopleSoft PeopleTools Windows client components. It contains the source and header files required to modify and compile new versions of these translations. Again, you do not need this component if you are not using multiple languages.

18. You will see an installation confirmation window. If the information is correct, choose Next. If you need to modify any of the information, choose the Back button and make your changes.

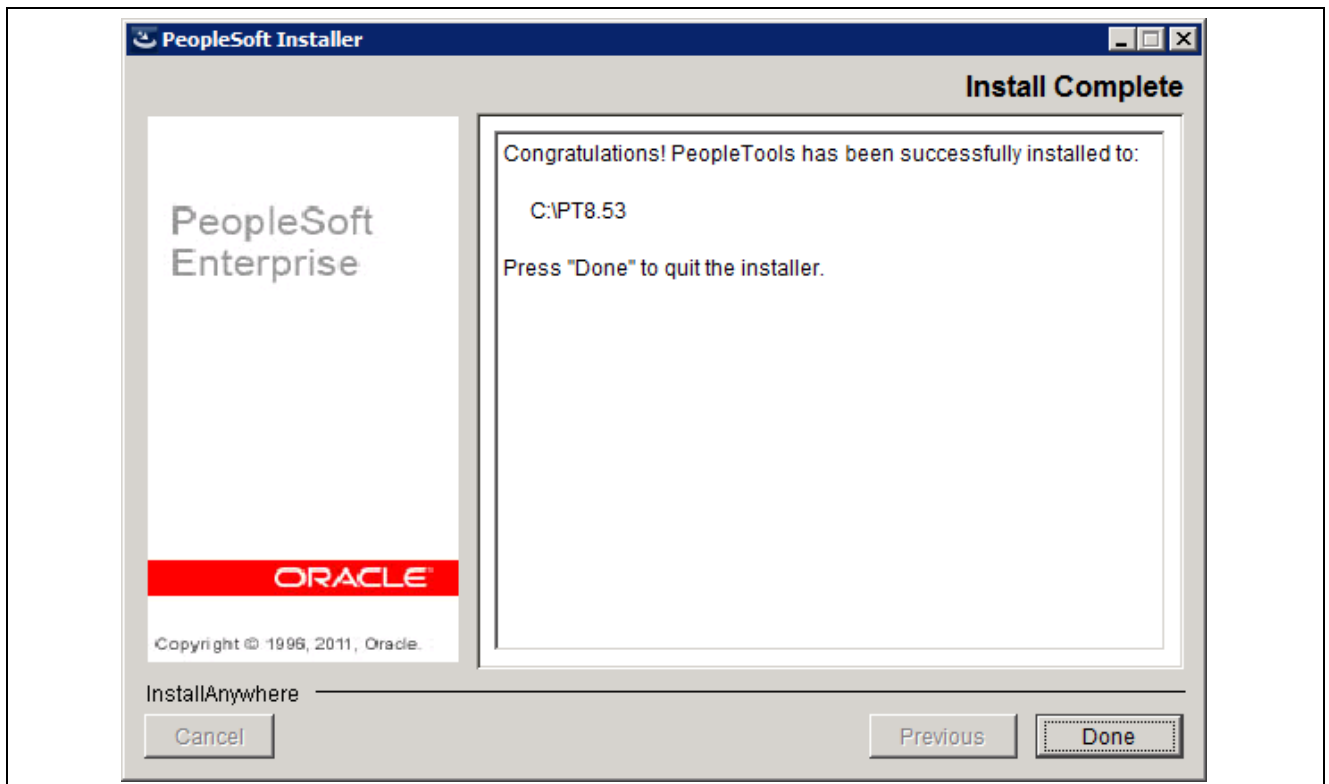
The summary information includes the installation directory, the features, and the PeopleSoft servers:



PeopleSoft Installer summary information window

19. After the files have been installed, click *Finish* to complete the setup.

The window displays the installation directory.



PeopleSoft Installer Install Complete window

Task 4-3: Verifying Necessary Files for Installation on Windows

PeopleSoft PeopleTools 8.50 and later releases are developed using Microsoft Visual C++ 2005 and later. Microsoft, as part of VC++ 2005, changed the way applications use and ship the required C Run Time (CRT) files (these files are installed as shared assemblies). PeopleSoft PeopleTools 8.50 and higher programs require these files to be present or the programs will not run.

During your PeopleSoft PeopleTools installation, the install programs will automatically update the Microsoft Windows machine performing the installation.

The required CRT files are installed by all of the PeopleSoft installers, including:

- PeopleSoft PeopleTools
- PeopleSoft Client
- Database
- PeopleSoft Pure Internet Architecture
- Change Assistant
- Change Impact Analyzer
- Webapp Deploy

In some cases it may be necessary for you to carry out a separate installation of the CRT files. For example:

- If the update does not take place during the installation program run, you may not be able to launch PeopleSoft PeopleTools client or server executables on that machine and may receive error messages.
- If you are accessing PeopleSoft PeopleTools executables from a machine on which the PeopleSoft installer did not run, the executables may not work and you may receive error messages.

If you encounter these errors, you can update the Microsoft Windows machine's CRT files by running the installers manually.

If installing on a server environment:

1. Go to *PS_HOME*\setup\psvcrt.
2. Run psvcrt_retail.msi.
3. Run psvcrt_retail_x64.msi.

Note. For each installer, the installation is completed automatically.

If installing on a PeopleSoft client environment:

1. Go to *PS_HOME*\setup\psvcrt.
2. Run psvcrt_retail.msi.

Note. The installation is completed automatically.

Task 4-4: Installing the Verity Integration Kit

This section discusses:

- Understanding the Verity Installation
- Installing the Verity Integration Kit in GUI Mode
- Installing the Verity Integration Kit in Console Mode

Understanding the Verity Installation

PeopleSoft PeopleTools uses Verity software to carry out searches. You must install the Verity for PeopleSoft Enterprise Integration kit for PeopleSoft PeopleTools 8.50 and later releases. Install Verity after you install PeopleSoft PeopleTools, and before you create the database. Install Verity on the machines on which you set up the application server, batch server, and the web server.

The installation files for Verity are part of the PeopleSoft PeopleTools installation files that you downloaded from Oracle Software Delivery Cloud. This section assumes that you have already downloaded and extracted the files into a directory referred to as *PS_INSTALL*.

For more information on configuring search and building indexes with Verity, see the *PeopleTools: System and Server Administration* product documentation.

See Also

Obtaining the PeopleSoft Installation Files from Oracle Software Delivery Cloud

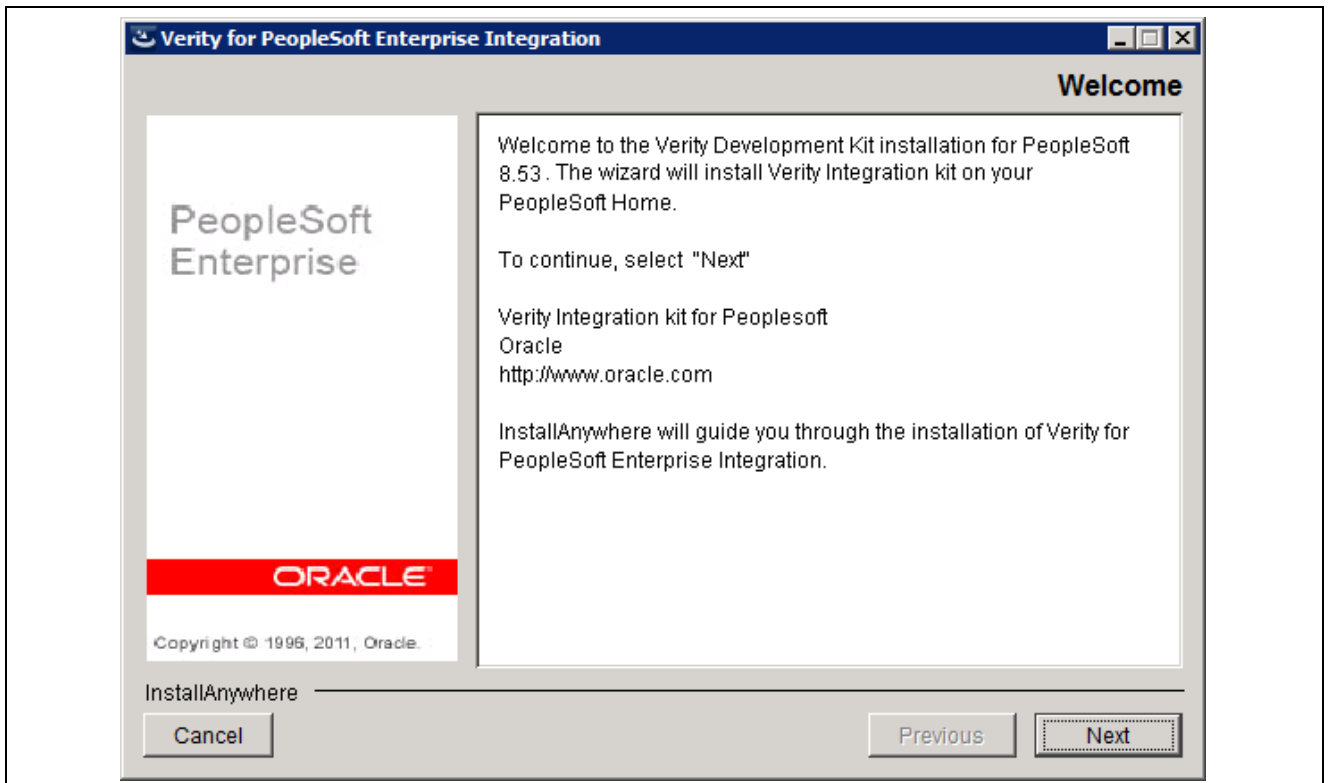
Task 4-4-1: Installing the Verity Integration Kit in GUI Mode

GUI mode is typically used for installation on Microsoft Windows.

To install the Verity Integration Kit in GUI mode:

1. Go to *PS_INSTALL\Verity\Disk1*.
2. Double-click *setup.bat*.

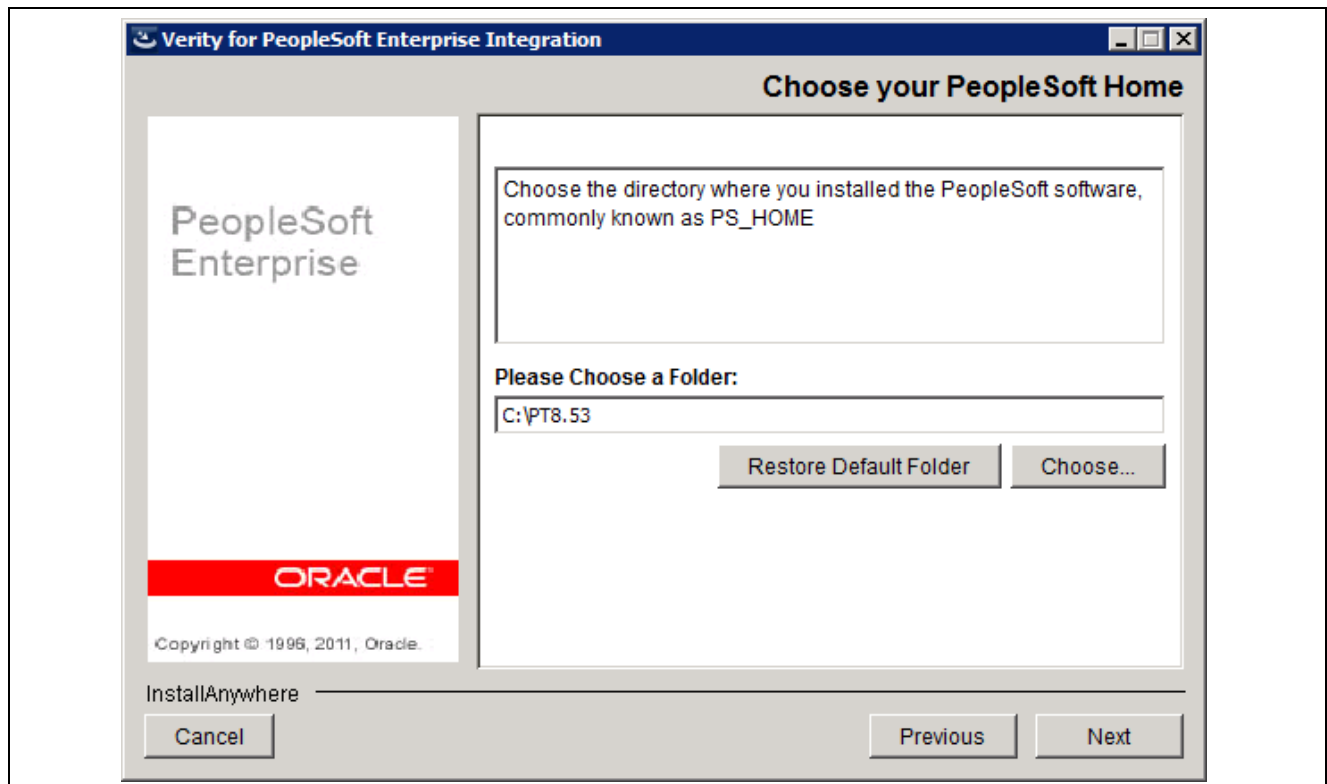
The Welcome window appears. Click Next.



Verity for PeopleSoft Enterprise Integration Welcome window

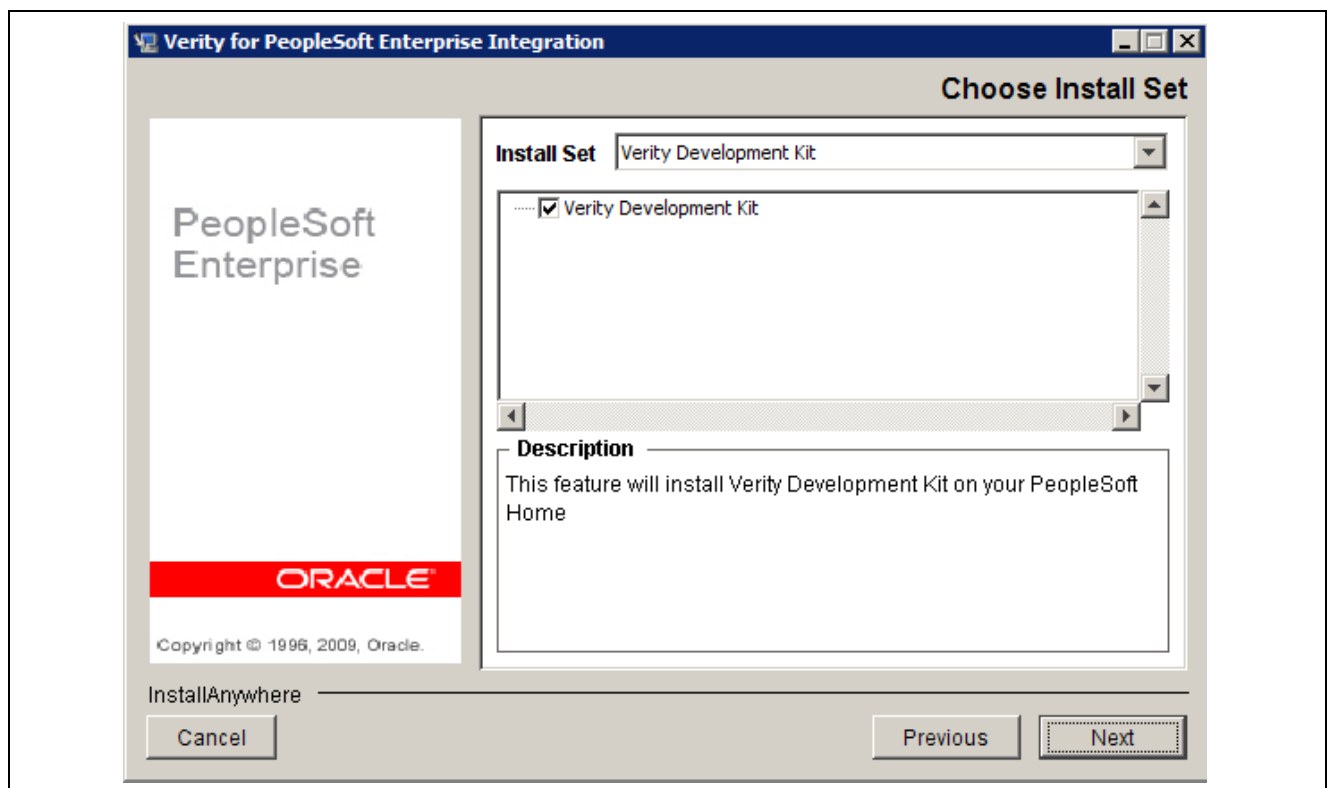
3. Specify the directory where you installed PeopleSoft PeopleTools, referred to as *PS_HOME*, and then click Next.

In the following example, *PS_HOME* is C:\PT8.53.



Verity for PeopleSoft Enterprise Integration Choose your PeopleSoft Home window

4. Accept the default option to install the Verity Development Kit, and click Next.

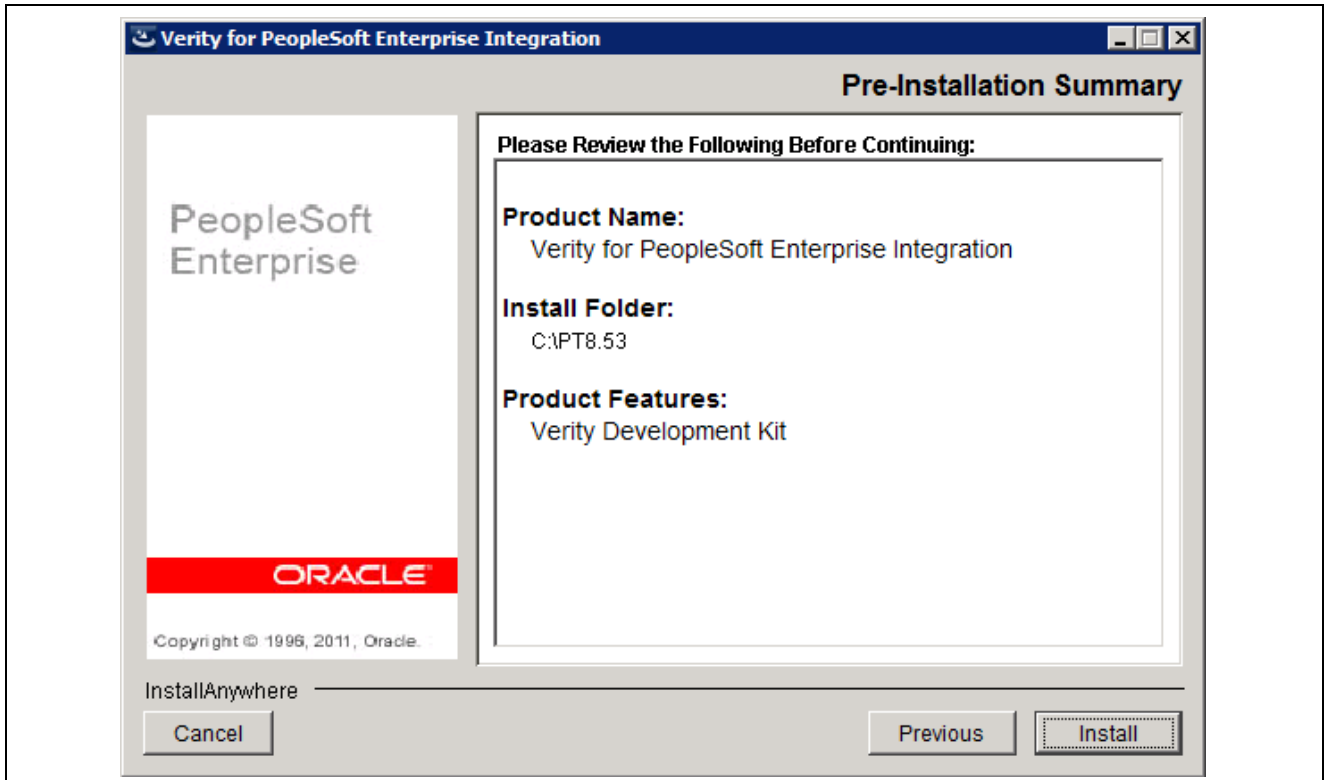


Verity for PeopleSoft Enterprise Integration Choose Install Set window

5. Review the pre-installation summary and click Install.

If you want to change any options, click Previous to return to an earlier window. The summary includes the product name, installation location, and product features.

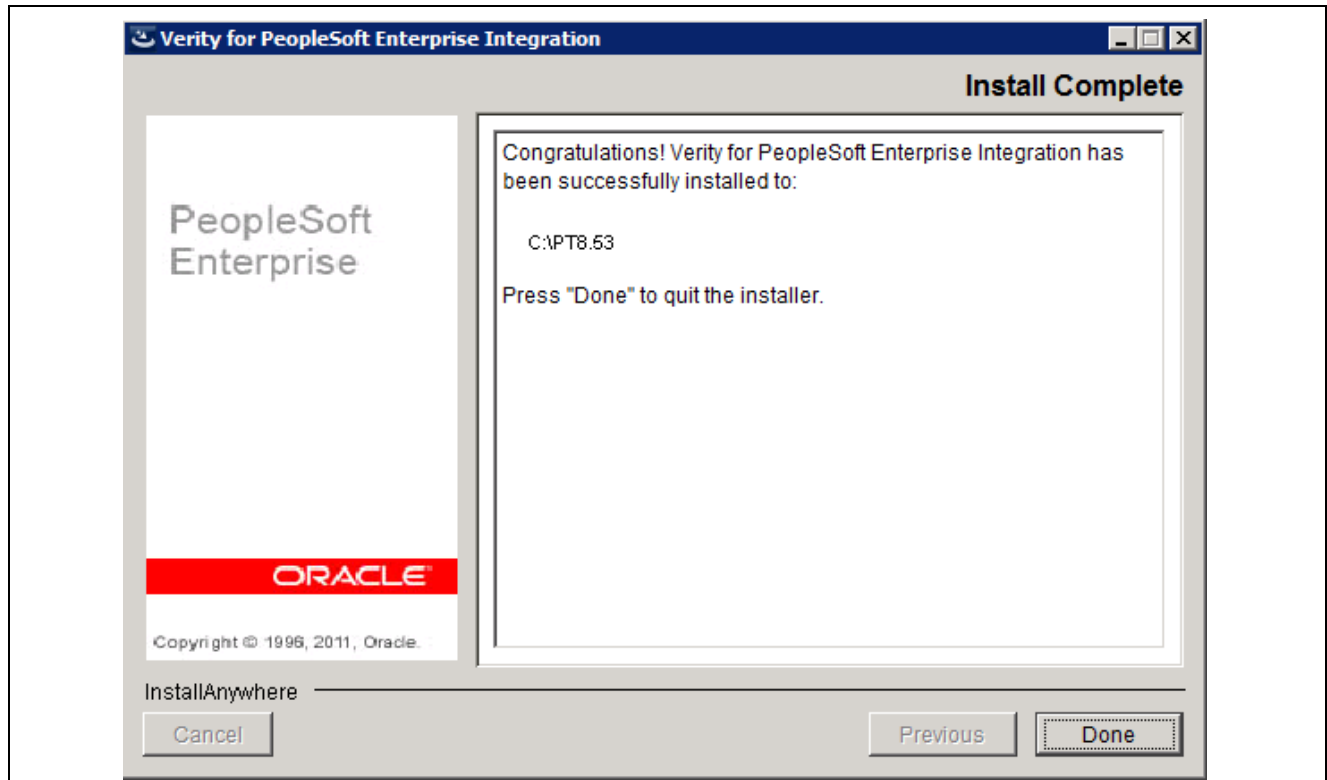
The installation requires a few minutes.



Verity for PeopleSoft Enterprise Integration Pre-Installation Summary window

6. Click Done to exit the installer.

The window displays a message indicating that the installation is complete, and including the installation location.



Verity for PeopleSoft Enterprise Integration Install Complete window

Task 4-4-2: Installing the Verity Integration Kit in Console Mode

Console mode is typically used for installation on UNIX and Linux.

To install the Verity Integration Kit in console mode:

1. Go to *PS_HOME* and source *psconfig.sh*:

```
../psconfig.sh
```

2. Go to *PS_INSTALL/Verity/Disk1*.

3. Run *setup.sh* with the *tempdir* option:

```
./setup.sh -tempdir temporary_directory
```

4. Press ENTER after reading the welcome statement:

```
Preparing to install...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...
Launching installer...
Preparing CONSOLE Mode Installation...
=====
Verity for PeopleSoft Enterprise Integration(created with InstallAnywhere by⇒
Macrovision)
-----
=====
Welcome
```

```

-----
Welcome to the Verity Development Kit installation for PeopleSoft 8.53.
The wizard will install Verity Integration kit on your Peoplesoft Home.
Respond to each prompt to proceed to the next step in the installation.
Oracle (http://www.oracle.com)
PRESS <ENTER> TO CONTINUE:
=====

```

5. Specify the full path to the directory where you installed PeopleSoft PeopleTools, referred to as *PS_HOME*:

```

Select your PeopleSoft Home
Enter an absolute path, or press <ENTER> to accept the default (DEFAULT:
/home/user1/PT8.53):
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :

```

6. Enter 0 (zero) to install the Verity Development Kit, and 1 for Next:

```

Select the verity features for PeopleTools 8.53 you would like to
install:
->1- Verity Development Kit
To select an item enter its number, or 0 when you are finished [0] :
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :

```

7. Review the installation summary.

```

Enter 2 if you want to go back to a previous prompt to make changes:

PeopleTools Verity Installer 8.53 will be installed in the following
location:
/home/user1/PT8.53 with the following features:
Verity
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :

```

8. Press ENTER to exit the installer:

```

Installation Complete
-----
Congratulations. Verity for PeopleSoft Enterprise Integration has been
successfully installed to:
/home/user1/PT8.53
PRESS <ENTER> TO EXIT THE INSTALLER:

```

Task 4-5: Installing PeopleSoft Application Software

After installing PeopleSoft PeopleTools, install the PeopleSoft Application to the same *PS_HOME* directory. The installation windows may look slightly different depending upon which application you install.

To install the PeopleSoft application, launch the PeopleSoft Installer from *PS_HOME*/disk1 and follow the procedure in Running the PeopleSoft Installer.

Use the following guidelines when installing:

- If supported by the PeopleSoft Application that you are installing, you can install the PeopleSoft Application software to a *PS_APP_HOME* location that is not the same as the *PS_HOME* location where you installed PeopleSoft PeopleTools. Be sure to review the installation guide for your PeopleSoft Application to determine whether this functionality is supported.
- If you are installing more than one application, it is a good idea to create an application-specific *PS_HOME* or *PS_APP_HOME* and carry out an installation of PeopleSoft PeopleTools for each application. This helps you to maintain your applications more efficiently, since you can easily match each application version to the correct version of PeopleSoft PeopleTools.
- To properly install a Demo database, you must select both the System Database and the Demo Database when asked to choose product features during the installation of your PeopleSoft applications. The chapter on creating a database discusses the installation of the application database component to the database server.

See Also

"Setting Up the PeopleSoft Pure Internet Architecture," Completing Post-Installation Steps

Task 4-6: Installing the Multilanguage Files

If you are licensed for and have chosen to install languages other than English, you need to load the Application-specific PeopleSoft Multilanguage files. Each PeopleSoft Application product installation has corresponding Multilanguage installation software that contains all the non-English translations.

To download the necessary files for a Multilanguage installation from the Oracle Software Delivery Cloud portal, select the Translation Media Pack for your PeopleSoft Application on the Media Pack Search page. The listing for the Translation Media Pack is divided into sets of files for PeopleSoft PeopleTools, the PeopleSoft Application, and the Multilanguage files for the PeopleSoft Application.

Warning! The release numbers for the PeopleSoft Application media pack and the Application Multilanguage media pack must be in sync. For example, if you are installing HCM 9.1, you can only use the Multilanguage HCM 9.1 ML; you cannot use the HRMS 8.8 SP1 ML.

Download each media pack into a temporary location, referred to here as *PS_INSTALL*, launch the PeopleSoft installer from *PS_INSTALL*/disk1, and follow the procedure in the task Running the PeopleSoft Installer.

To carry out a Multilanguage installation:

- Install the PeopleSoft PeopleTools installation files to *PS_HOME*.
- Install the PeopleSoft Application installation files to *PS_APP_HOME*.
- Install the PeopleSoft Application Multilanguage installation files to the same *PS_APP_HOME* as the PeopleSoft Application installation files.

Keep in mind that the *PS_APP_HOME* installation location may be the same as or different from the *PS_HOME* location, as described previously.

See "Preparing for Installation," Planning Your Initial Configuration.

Task 4-7: Installing the PeopleSoft Client Files

To install the files needed for the PeopleSoft Client, you must first install PeopleSoft PeopleTools. Launch the PeopleSoft Installer from *PS_HOME\setup\Client\Disk1* and follow the procedure in Running the PeopleSoft Installer.

Note. If you installed PeopleSoft PeopleTools on a UNIX or Linux computer, you can copy setup.exe to a Microsoft Windows machine to install the client.

Task 4-8: Mapping a Drive on the Install Workstation

If you need to install to the file server or PeopleSoft Client from a networked install workstation, map a drive letter to the top-level PeopleSoft directory (*PS_HOME*) from the install workstation. The *PS_HOME* directory must be shared, and you must have write permission from the install workstation to the file server or PeopleSoft Client.

From the install workstation, create a logical drive that points to the *PS_HOME* directory.

On a Windows network, use Windows Explorer to map to the drive on the file server or PeopleSoft Client to which you are installing; or use the NET USE command, for example:

```
NET USE N: \\SERVER1\PS_HOME
```

On a Novell network, use the MAP command:

```
MAP ROOT N:=SERVER1/SYS:PS_HOME
```

In this example, *SERVER1* is the name of the file server or PeopleSoft Client.

See Also

"Setting Up the Install Workstation"

CHAPTER 5

Setting Up the Install Workstation

This chapter discusses:

- Understanding the Install Workstation
- Prerequisites
- Starting Configuration Manager
- Setting Startup Options
- Editing the Default Profile
- Running Client Setup
- Installing PeopleSoft ODBC Driver and Configuring the SAP Crystal Reports .NET Runtime

Understanding the Install Workstation

This chapter describes how to set up a PeopleSoft Windows-based client for connecting to the database server in two-tier mode, specifically for the purpose of performing install-related tasks from the workstation. You must configure at least one two-tier Windows-based client for running Data Mover and SQR processes required for setting up the batch server and for creating the PeopleSoft database. For some installations you may wish to set up multiple install workstations, so that you can perform asynchronous tasks at the same time; for example, you could create and populate multiple databases simultaneously. You can quickly configure multiple workstations by exporting a configuration file from one workstation and importing it to another workstation.

See Also

PeopleTools: System and Server Administration

Prerequisites

The following tasks are prerequisites for setting up the install workstation:

- The workstation must have database connectivity software installed.
- You must have planned your database creation strategy. You should know the precise names of the databases that you intend to create.
- Make sure that you have created your connect strategy. You must use a Connect ID. You should know both the Connect ID and Connect password.

For information on PeopleSoft Connect ID and Connect password, consult the *PeopleTools: System and Server Administration* product documentation for information on setting Application Server domain parameters.

- The workstation must have a logical drive mapped to *PS_HOME* on the file server (or, if the file server and install workstation are one and the same, *PS_HOME* can be installed on a local drive).
- The person performing the installation must have read access to the *PS_HOME* directory.

If this is the same workstation on which the PeopleSoft PeopleTools installation was performed, it should have a PeopleTools 8.5 installation program group, which was created when you loaded the PeopleTools software. This isn't a requirement, but it does make it more convenient to run the PeopleTools install applications.

See Also

"Preparing for Installation"

"Using the PeopleSoft Installer"

Task 5-1: Starting Configuration Manager

Configuration Manager is a utility for configuring workstations being used as the PeopleTools Development Environment. These are its principal functions:

- Sets up and make changes to PeopleSoft configuration settings.
- Creates a program group containing Microsoft Windows shortcuts to PeopleSoft applications.
- Installs local DLLs.

The first time you run Configuration Manager on the client, it will populate certain fields with default values specified in a configuration file stored on the file server, specifically: *PS_HOME\setup\pstools.cfg*. This configuration file was set up when you ran the installation. Once you set up and run Configuration Manager, it will populate fields using values that are stored in the Windows system registry.

To start Configuration Manager, do one of the following:

- Select *Start, Programs, PeopleTools 8.53, Configuration Manager*. (This program group will be available if you installed PeopleSoft PeopleTools on this workstation.)
- If the *PeopleTools 8.53* program group was not installed on this workstation, run *pscfg.exe* directly from the *PS_HOME\bin\client\winx86* directory on the file server.

Task 5-2: Setting Startup Options

The Startup tab of Configuration Manager sets the default options for the PeopleSoft sign-on screen that is used for connecting to a PeopleSoft database. It also contains a setting that specifies the local directory for storing cached PeopleSoft data.

To set Startup options:

1. Make sure you are viewing the Configuration Manager Startup tab (this tab is what you see if you started Configuration Manager as described in the previous task).

Set the following options:

- *Database type* — Verify the type of RDBMS. This should already be set to Microsoft SQL Server.
 - *Application Server Name* — This option appears if you select a database type of Application Server. It is where you enter your application server name if you are setting up a three-tier connection.
 - *Server Name* — The name of the MSS database server to connect to. This is used for setting up the ODBC connection later in this chapter.
 - *Database name* — The name of the default database to connect to. Enter the name of one of the databases that you intend to create.
 - *User ID* — The name of the default user that will appear in the sign-on screen. This can be any valid user name, although for installation setup it normally matches the name of one of the built-in PeopleSoft users (typically PS or VP1) that will be installed in the database.
 - *Connect ID and Connect Password* — Type your connect ID and password into these fields. Connect ID is required for this PeopleSoft release.
2. If you are using SAP Crystal Reports, select the Crystal/Bus. Interlink/JDeveloper tab and set the following options:
- *Crystal EXEs Path* — Set this to the location of your SAP Crystal Reports executables or libraries (dll's). See "Installing and Configuring Software for Crystal Reports," Installing SAP Crystal Reports.
 - *Default Crystal Reports* — Set this to the path on the file server where the Crystal reports reside. Note that the specified path should not contain reports run in production. This option is used when running from PSQuery to Crystal.
 - *Use trace during execution* — This option is used when running SAP Crystal Reports from Process Scheduler on the client.
 - *Business Interlink Directory* — You can leave this option blank. If you do so, the system uses its default directory *PS_HOME\bin\<client>\<server>\winx86\interfacedrivers*.
 - *JDeveloper Home Directory* — See the Integration Broker product documentation for information on specifying the JDeveloper directory for use with the Oracle XSL Mapper.

See *PeopleTools: PeopleSoft Integration Broker*, "Developing Transforms Using Oracle XSL Mapper."

Note. You can leave the options here blank. If you do so, a message appears indicating that the option is not set, but you can ignore this message and continue.

Task 5-3: Editing the Default Profile

Begin by editing the default profile for the workstation. Among other things, this will verify that the paths to *PS_HOME* and its subdirectories are correctly set, which is required for subsequent tasks.

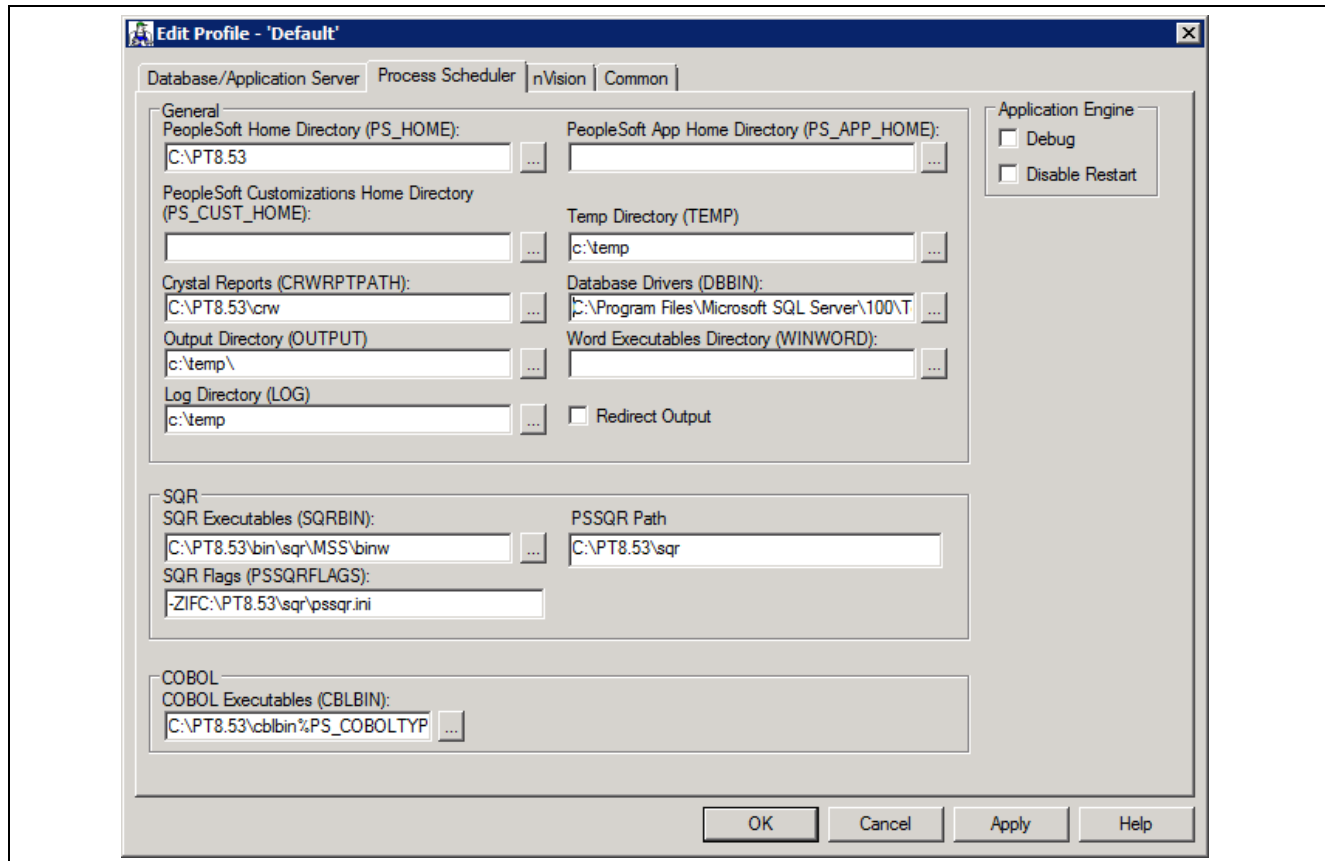
For more information on using Configuration Manager, see the *PeopleTools: System and Server Administration* product documentation for configuring user profiles.

To edit the default profile:

1. Select the Profile tab in Configuration Manager.
Only one profile, the Default Profile, has been defined.
2. Select Edit to display the Edit Profile dialog box, and then select the Process Scheduler tab.

3. In the Process Scheduler tab verify the options listed below the example.

These should have been set correctly by the PeopleSoft installation program.



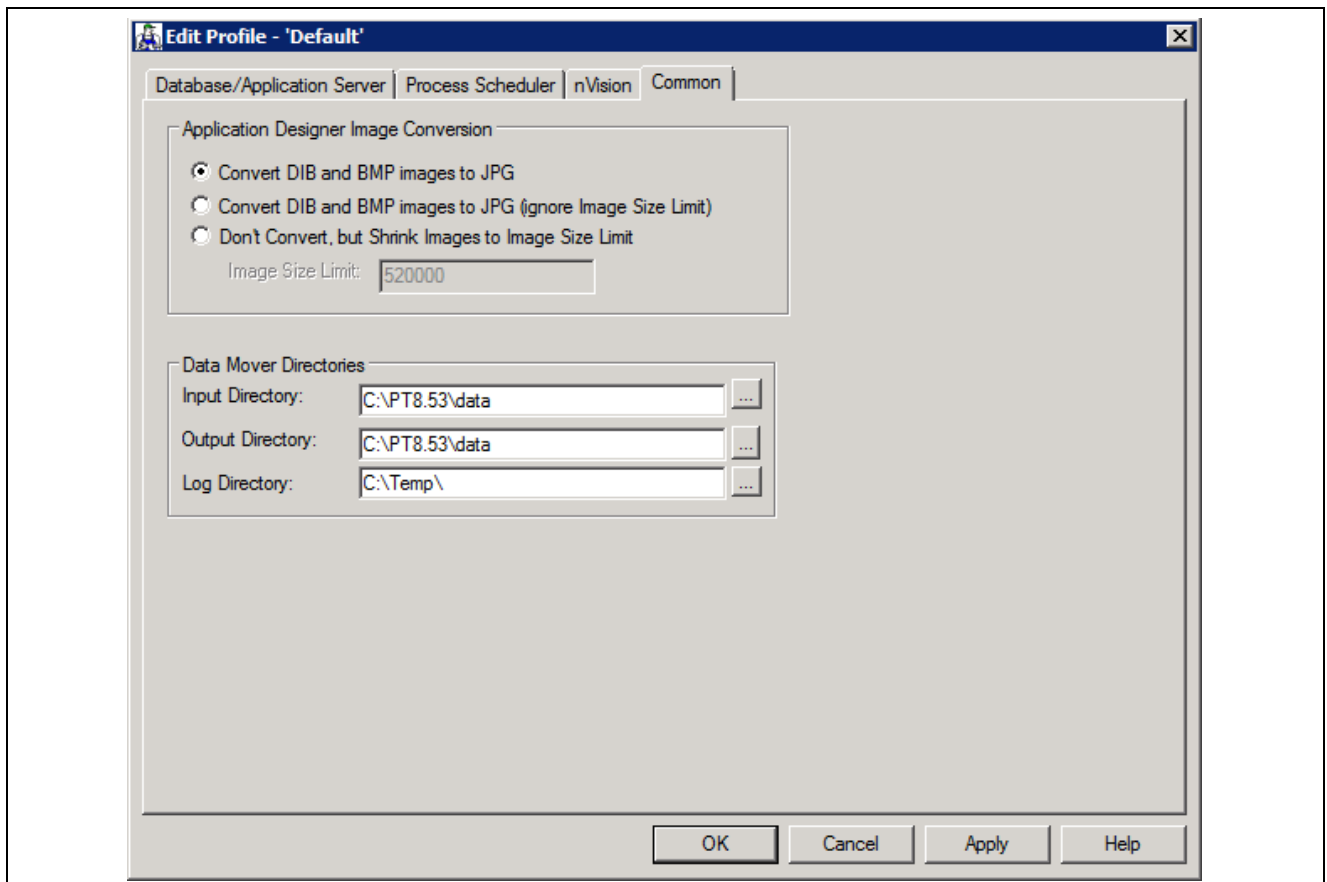
Edit Profile dialog box: Process Scheduler tab

- Verify that the PeopleSoft Home Directory (PS_HOME) field is set to the path to *PS_HOME* on the file server.
- Verify that the PeopleSoft Apps Home Directory (PS_APP_HOME) field is set to the path to *PS_APP_HOME* on the file server.

The default value is the same as *PS_HOME*.

- Set the Database Drivers (DBBIN) field to the path for the database connectivity files, if necessary. The example shows the default for Microsoft SQL Server, C:\Program Files\Microsoft SQL Server\100\Tools\Binn.
- Set the SQR Executables (SQRBIN) field to the file server directory where SQR for Windows was installed when you ran the PeopleSoft Installer.
- Set the SQR Flags (PSSQRFLAGS) field to *-ZIF<PS_HOME>\sqr\pssqr.ini*.
- Set the SQR Report Search 1 (PSSQR1) field to *PS_HOME\sqr*. The remaining SQR Report Search fields can be left blank, because no additional SQR report directories have been created yet.

4. Select the Common tab of the Edit Profile dialog box, shown in this example:



Edit Profile dialog box: Common tab

The following fields on the Common tab are used to set Data Mover default input, output, and log directories.

- Verify that the Input Directory and Output Directory fields are set to *PS_HOME\data*. This directory will store the Data Mover scripts required to populate the PeopleSoft database.
- Set the Log Directory to a local workstation directory to store the Data Mover log files. The default is C:\TEMP.

5. Select OK to close the Edit Profile dialog box.

Task 5-4: Running Client Setup

The Client Setup tab does the following:

- Installs a PeopleSoft program group on the workstation.
- Installs system DLLs on the workstation.

These Client Setup functions are performed when you click OK or Apply from Configuration Manager only if the Install Workstation option on the Client Setup tab is selected.

Note. Any files installed by Client Setup on the workstation from the file server use the paths specified in the default profile.

To run Client Setup:

1. Select the Client Setup tab in Configuration Manager.
2. In the Group Title text box enter the name of the program group for the icons you want on the client workstation. (A program group name cannot contain any of the following characters: \ / : * ? " < > |)
You can call the program group anything you want, but this documentation uses *PeopleTools 8.53*.
3. If you do not have a PeopleTools 8.53 program group set up on the workstation, be sure to check the following two options for installing shortcuts to applications essential for installation:

Note. When you run Client Setup, it will uninstall any existing shortcuts in the PeopleTools 8.53 program group, and install shortcuts for the applications you have selected. If you subsequently want to install or uninstall shortcuts, you can always re-run Client Setup.

- *Data Mover*
- *Configuration Manager*

4. Select the option Install Workstation.

This check box determines whether Client Setup runs when you click Apply or OK in Configuration Manager. If this option is not selected, Client Setup will create or update settings in the registry, but it won't set up the PeopleTools 8.53 program group or install local DLLs.

5. Click OK to run Client Setup and close Configuration Manager.

Task 5-5: Installing PeopleSoft ODBC Driver and Configuring the SAP Crystal Reports .NET Runtime

This section applies to those installations which use SAP Crystal Reports. Running `psodbccrinst.exe` installs the PeopleSoft ODBC driver and configures the Crystal Runtime for use within the PeopleSoft environment. This is required in order to successfully design and run Crystal Reports from the SAP Crystal Reports 2008 or Crystal Reports 2011 application. This would also be required for any other client activities requiring access to the PeopleSoft OpenQuery API.

If you use SAP Crystal Reports for your installation, you must run `psodbccrinst.exe` directly from the `PS_HOME\bin\client\winx86` directory on the file server. The user who runs this installation must have administrative privileges. SAP Crystal Reports .NET runtime engine for Framework 4 must be installed on the file server.

You must specify `CrystalExePath` in the Process Scheduler configuration file, `psprcs.cfg`, before running `psodbccrinst.exe`. To run Crystal Reports through Process Scheduler or the command line, set the `CrystalExePath` to the location of the SAP Crystal Reports .NET runtime engine for Framework 4 installation. To run Crystal Reports from the SAP Crystal Reports 2008 or Crystal Reports 2011 application, or through Run to Crystal with Query, set the `CrystalExePath` to the location of the SAP Crystal Reports 2008 or Crystal Reports 2011 installation.

See the information on editing the PeopleSoft Process Scheduler Configuration Files in the *PeopleTools: PeopleSoft Process Scheduler* product documentation.

See the information on running Crystal Reports in the *PeopleTools: Crystal Reports for PeopleSoft* product documentation.

The installation performs the following tasks:

- Installs PeopleSoft ODBC driver
- Creates PeopleSoft PeopleTools ODBC Data Source Name
- Integrates the SAP Crystal Reports .NET runtime engine for Framework 4 with the PeopleSoft environment.

Note. The psodbccrinst.exe install script generates a log file named psodbccrinst.log in the location specified by the environment variable TEMP (%temp% or C:\temp). If the user environment variable TEMP is undefined, the log file is written under c:\temp directory by default.

The psodbccrinst.exe install script detects whether or not the Crystal Runtime is installed prior to configuration, and exits with an error if it is not found.

See Also

PeopleTools: PeopleSoft Query

PeopleTools: Crystal Reports for PeopleSoft

"Installing and Configuring Software for Crystal Reports"

CHAPTER 6

Creating a Database

This chapter discusses:

- Understanding the Database Configuration Wizard
- Fulfilling PeopleSoft Database Configuration Wizard Prerequisites
- Running the Database Configuration Wizard
- Checking the Log Files and Troubleshooting

Understanding the Database Configuration Wizard

The Database Configuration Wizard is a tool designed to simplify your PeopleSoft database installation. When you run the Database Configuration Wizard, Data Mover is also running silently.

See *PeopleTools: Data Management*.

Important! Do not forget that application-specific installation steps are provided in a separate document specific to the application. For instance, if you are performing PeopleSoft CRM installation, you need both this PeopleSoft PeopleTools installation guide and you also need any additional instructions provided by CRM. My Oracle Support provides installation guides that are specific to your application.

See My Oracle Support, (search for “installation,” the application name, and release).

You also have the option of using a manual process for creating a PeopleSoft database, instead of using the Database Configuration Wizard. The manual process is mandatory for some configurations.

See "Creating a Database Manually."

After you complete the tasks in this chapter, read the chapter “Completing the Database Setup.” Depending upon your environment, you may not need to carry out every task in that chapter. However it is important that you evaluate the requirements and perform the necessary tasks.

Task 6-1: Fulfilling PeopleSoft Database Configuration Wizard Prerequisites

This section discusses:

- Installing the PeopleSoft Database Server Components on the Database Server
- Obtaining Windows Administrator Authority

- Setting Up the Collation

Task 6-1-1: Installing the PeopleSoft Database Server Components on the Database Server

To run the PeopleSoft Database Configuration Wizard, your setup *must* fulfill these requirements:

- You must have installed the PeopleSoft PeopleTools software on your database server by running the PeopleSoft Installer.
- You must have chosen the Database Server option during the PeopleTools software installation.
- You must have installed the Database component of your application installation software to your database server.
- You must have the PeopleTools Development Environment set up to create your database.
- You must run the Database Configuration Wizard at the database server.

See the information on PeopleSoft Configuration Manager in the *PeopleTools: System and Server Administration* product documentation.

See Also

"Using the PeopleSoft Installer"

Task 6-1-2: Obtaining Windows Administrator Authority

To run the Database Configuration Wizard, you must be a Windows administrator of the target server. This is necessary because the Database Configuration Wizard will start and stop the SQLServer service and create or modify several directories.

Task 6-1-3: Setting Up the Collation

The default collation for PeopleSoft databases is Latin1_General_Bin. If you want to use a collation other than Latin1_General_Bin, you will need to modify the createdb_2005.sql script in the *PS_HOME*\scripts directory and replace Latin1_General_Bin with the desired collation before running the Database Configuration Wizard. The PeopleSoft software supports any sort that is case-, accent-, width-, and kana-sensitive.

If you modify the collation for the database you may also have to modify the sort order option in PeopleSoft PeopleTools after you configure PIA. A modification in the collation usually impacts the sort order of the database.

See "Setting Up the PeopleSoft Pure Internet Architecture."

Some components of PeopleSoft PeopleTools cannot rely on the database to sort data and must do so in memory. The sort order option on the PeopleTools Options page enables you to select which sort order should be used by PeopleSoft PeopleTools when sorting data in memory.

You should set this option soon after you have completed the installation of the database and your PIA environment; choose the option that most closely approximates the sort order that you selected when creating the database.

To set the sort order:

1. Select PeopleTools, Utilities, Administration, PeopleTools Options.
2. Select an option from the Sort Order Option drop-down list box.

3. Click Save.

Task 6-2: Running the Database Configuration Wizard

When you run the Database Configuration Wizard, Data Mover typically does the following:

1. **IMPORT** * Create all the PeopleTools and application tables with their indexes.
2. **ENCRYPT_PASSWORD** * Encrypt security information for the database.
3. **CREATE_TRIGGER** * Create application required triggers.
4. **REPLACE_VIEW** * Create PeopleSoft views.
5. **CREATE_TEMP_TABLE** * Create PeopleSoft temporary tables.

If Data Mover fails at any of the above steps, it will complete the rest of the step, but will not start the next step—instead the Wizard aborts and tells the user what file to review for the detailed error message. There is a separate log file for each step, saved in the log directory. If Data Mover fails at step 1 or 2, it is fatal. If Data Mover fails at step 3 or 4, it is not necessarily fatal. You may continue the next steps manually.

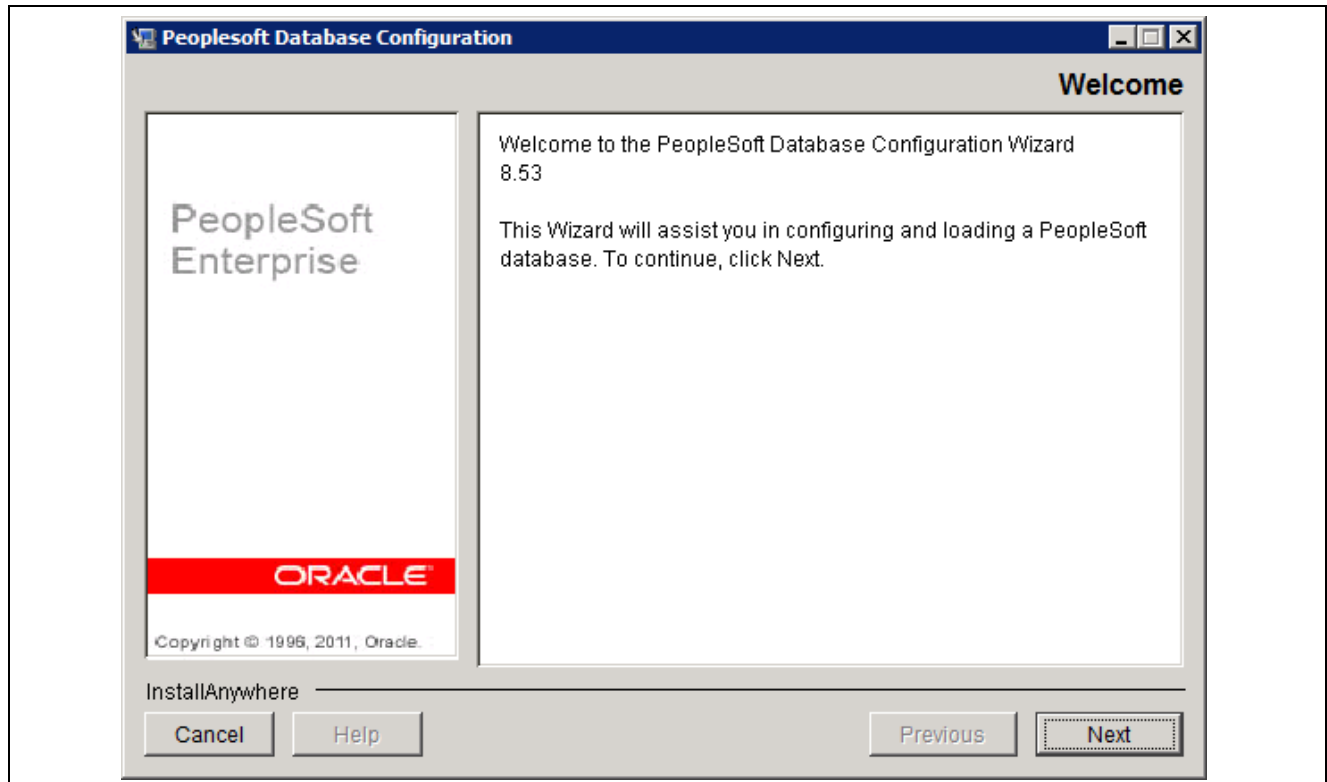
Note. When installing an application database, the Database Configuration Wizard may fail when creating the view `PTLT_SCOMP_VW1` if the database was delivered on a PeopleSoft PeopleTools release prior to 8.48. This error may be ignored. The view will be created correctly in a later step.

For PeopleSoft PeopleTools 8.53, the user profiles in PeopleTools demo databases are delivered disabled. During the database configuration procedure you will choose whether to enable the delivered user profiles, and how to assign passwords for the profiles. In addition, you will supply several passwords that were previously provided as defaults. Be sure to note the passwords that you supply, as they will be needed for subsequent installation procedures.

See the information on working with user profiles in the *PeopleTools: Security Administration* product documentation.

To run the Database Configuration Wizard:

1. From the directory `PS_HOME\setup\PsmPdbInstall`, double click `setup.exe`.
2. In the Welcome window, click Next to continue.

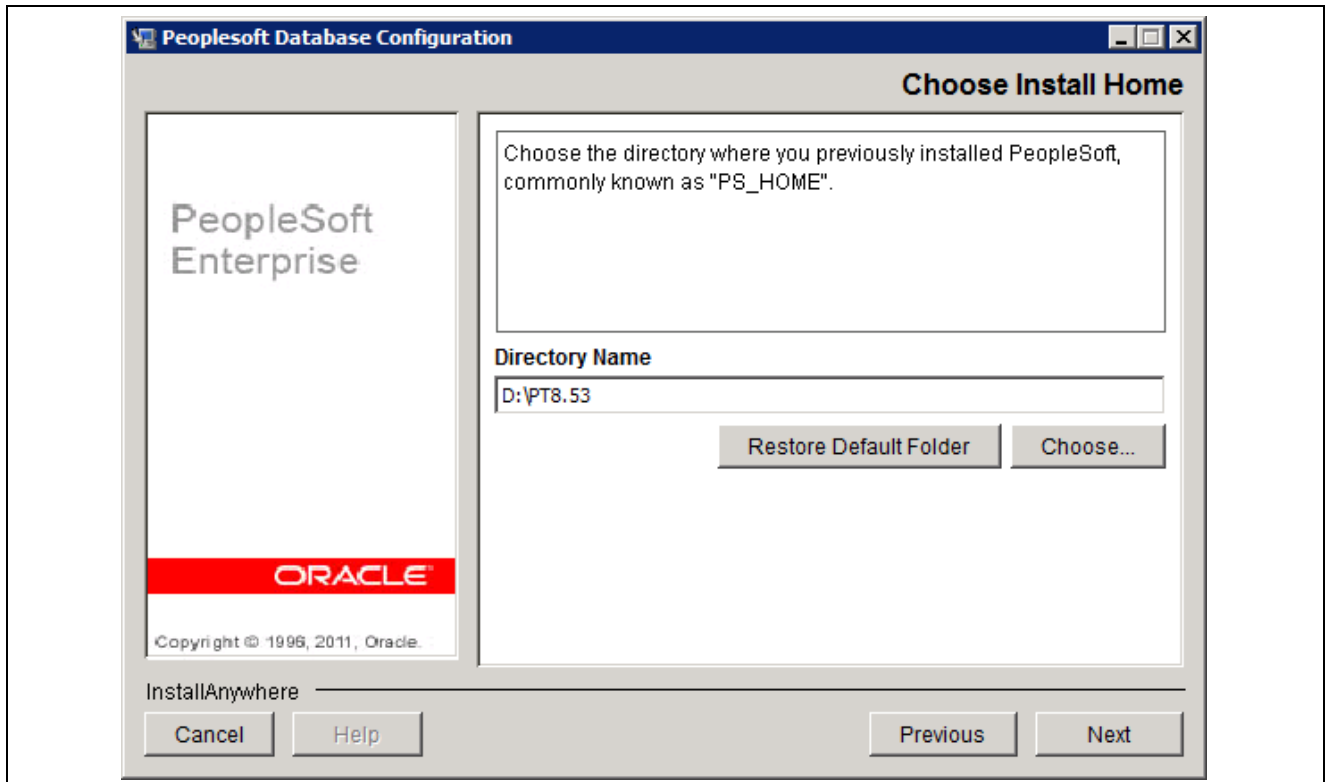


PeopleSoft Database Configuration wizard Welcome window

3. When prompted for the location of *PS_HOME*, modify the directory name to reflect your *PS_HOME* installation (the high level directory where you installed the PeopleSoft PeopleTools software) and click Next to continue.

In this example, *PS_HOME* is D:\PT8.53.

Note. The next step asks for the location of the PeopleSoft Application software.



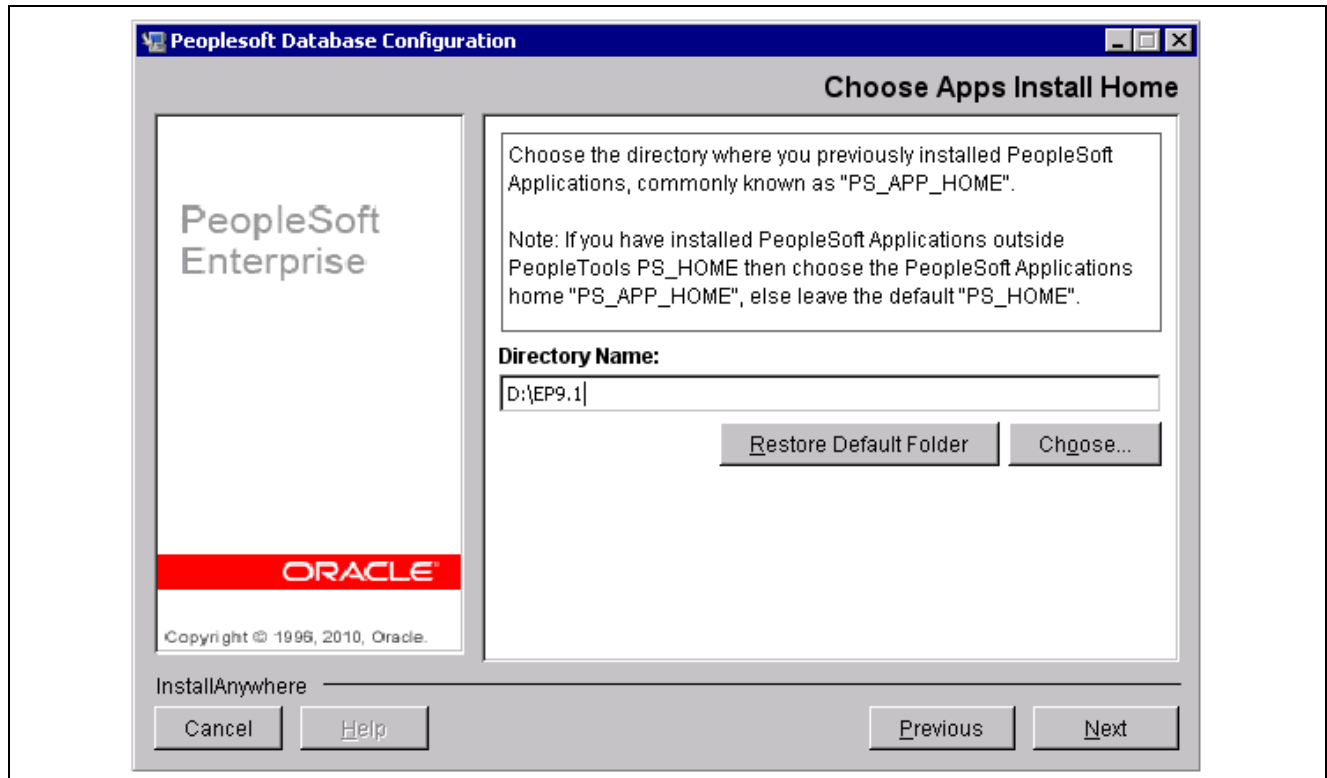
PeopleSoft Database Configuration Wizard Choose Install Home window

4. When prompted for the location of PeopleSoft Application install home, *PS_APP_HOME*, modify the directory name to reflect your *PS_APP_HOME* installation path (the high level directory where you installed the PeopleSoft Application software) and click Next to continue.

The Choose Apps Install Home window defaults to the PeopleSoft PeopleTools *PS_HOME* location. Modify that location to reflect your *PS_APP_HOME* installation path only if you have the PeopleSoft Application software installed outside the PeopleSoft PeopleTools *PS_HOME*.

In this example, *PS_APP_HOME* is D:\EP9.1.

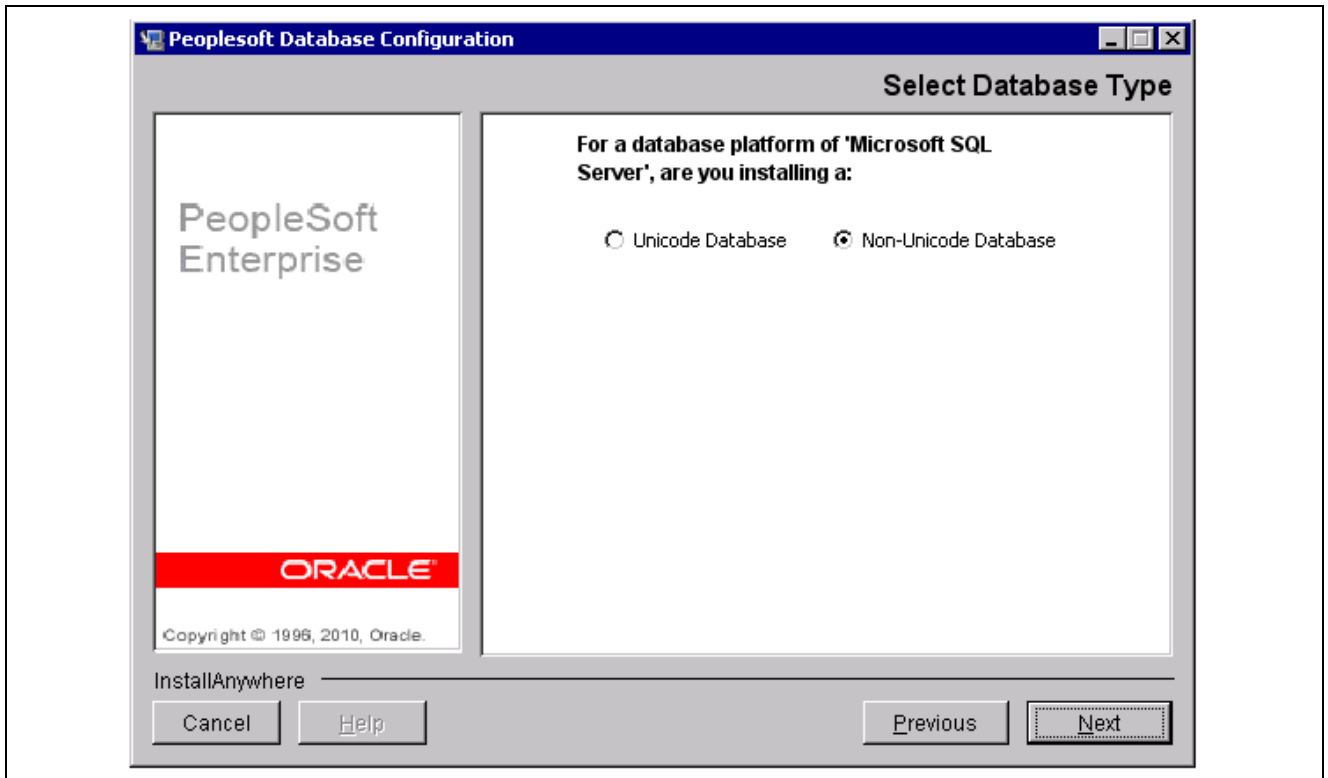
Note. If the *PS_APP_HOME* is different from the *PS_HOME* then all the modified scripts will be created under *PS_APP_HOME*\modifiedscripts, and all the DCW logs will be created under *PS_APP_HOME*\logs.



Entering the PS_APP_HOME location on the PeopleSoft Database Configuration Wizard window

5. Select Unicode or Non-Unicode, based upon the language strategy you defined in chapter 1.
See "Preparing for Installation," Planning Multilingual Strategy.

Note. In this example the Non-Unicode Database option is selected.



Selecting a Non-Unicode Database type on the PeopleSoft Database Configuration Wizard window

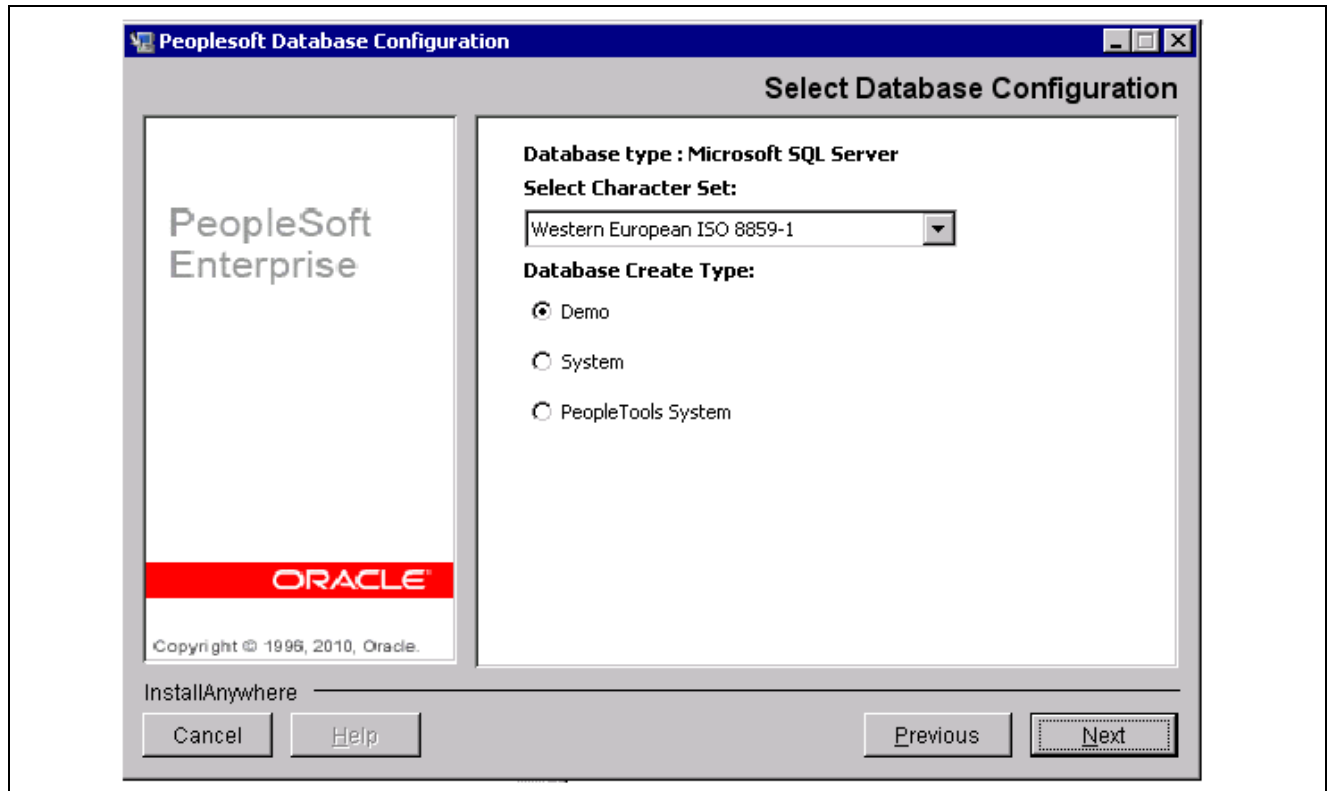
6. If you select Non-Unicode, select the appropriate character set and database type.

Select the character set that best supports your language. There is more information about code pages in the SQL Server Books Online, under “collations.”

Note. The Wizard detects which database files are available for loading based on your specific installation; you will only see the database types that are valid based on the PeopleSoft application features you have installed.

7. If you select Unicode, just select the database type.

If you select Non-Unicode, select the character set, which is Western European ISO 8859-1 in this example, and the database type, Demo in this example.



Select Database Configuration window

8. Click Next.
9. Select which PeopleSoft application database to load and click Next.

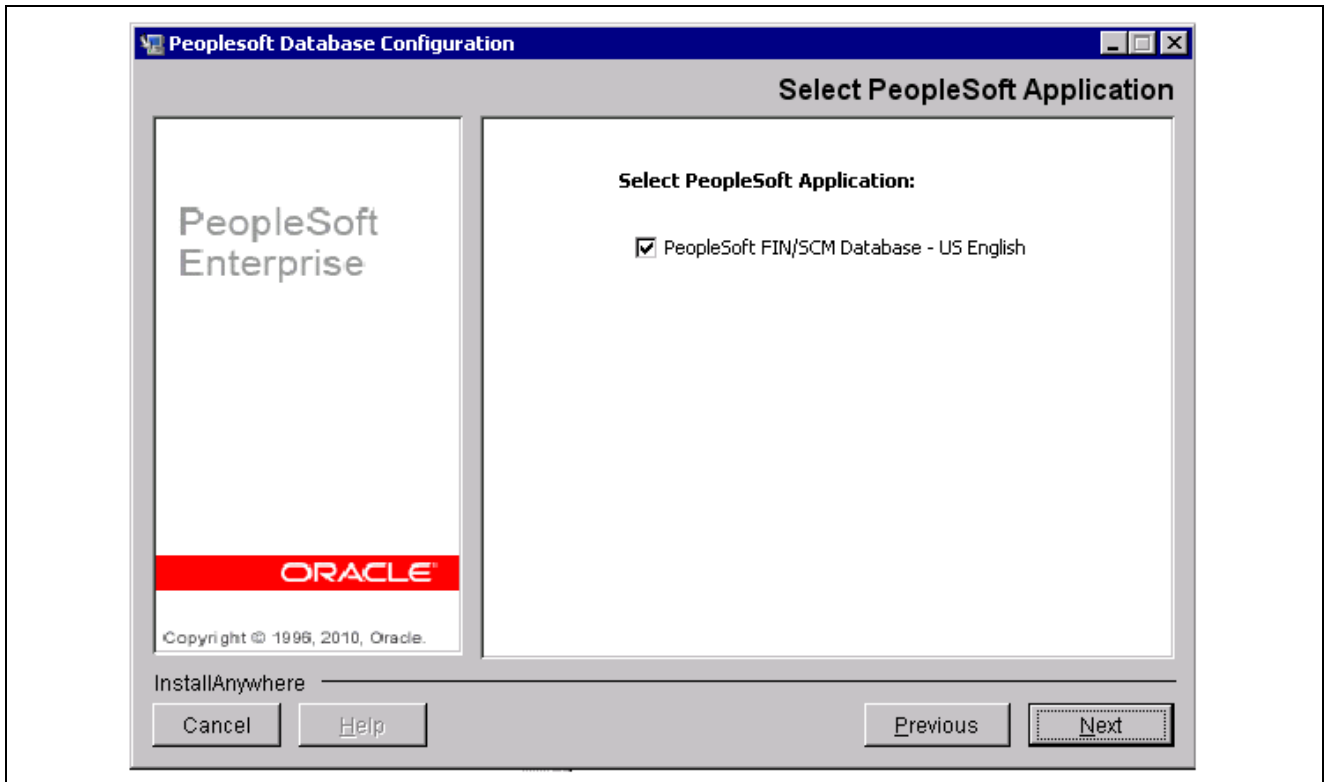
The available selections will depend upon which applications you have licensed and installed.

If you installed the Multilanguage CD, each application will be listed several times, once for each language. If you are installing languages other than English, make sure to select the appropriate language data files for each application you select in English. This will load the translated database objects.

See "Preparing for Installation" Planning Multilingual Strategy.

If you are installing an application in any language other than English, you must also select the English component of the application. For example, for FIN/SCM if you select FIN/SCM-French, you must also select FIN/SCM - US English. This ensures that you install the necessary base-language components.

This example shows FIN/SCM - US English selected.

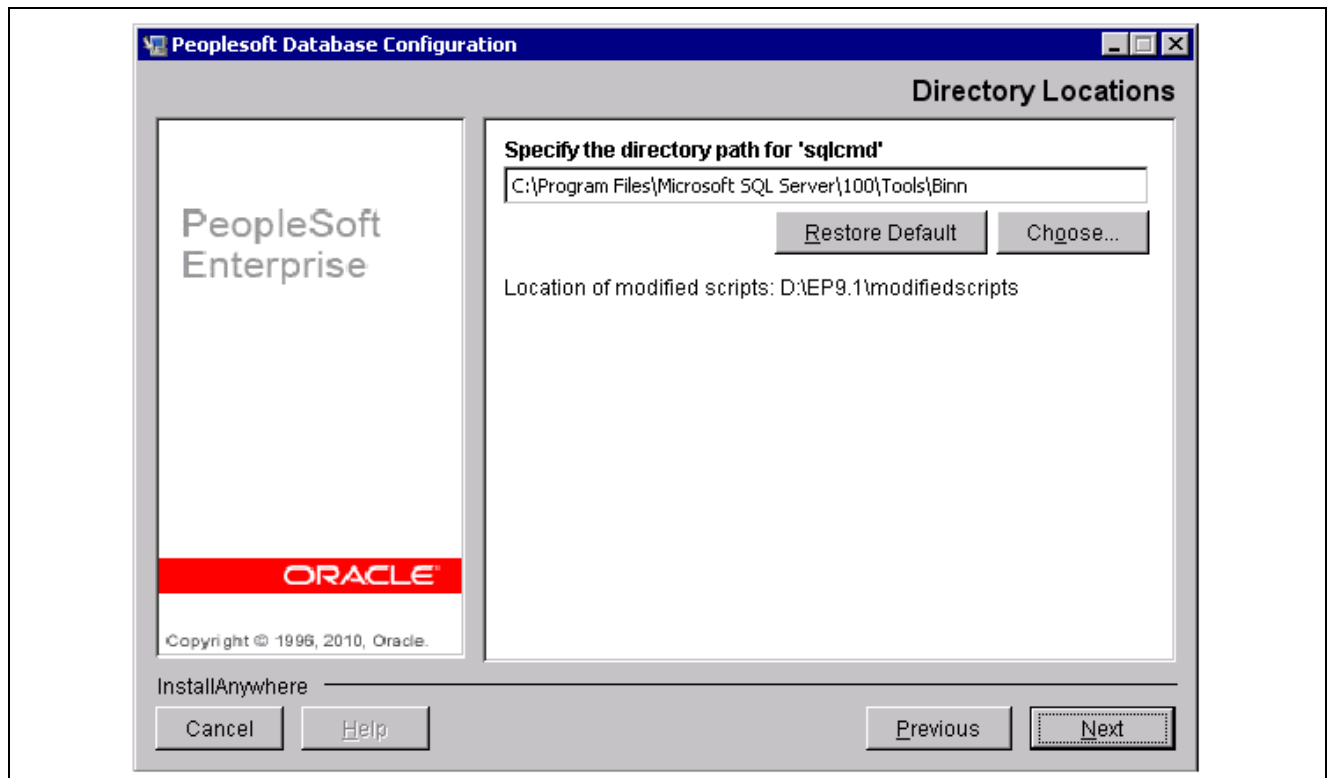


PeopleSoft Database Configuration Wizard Select PeopleSoft Application window

10. Specify the path to your connectivity binaries, and click Next.

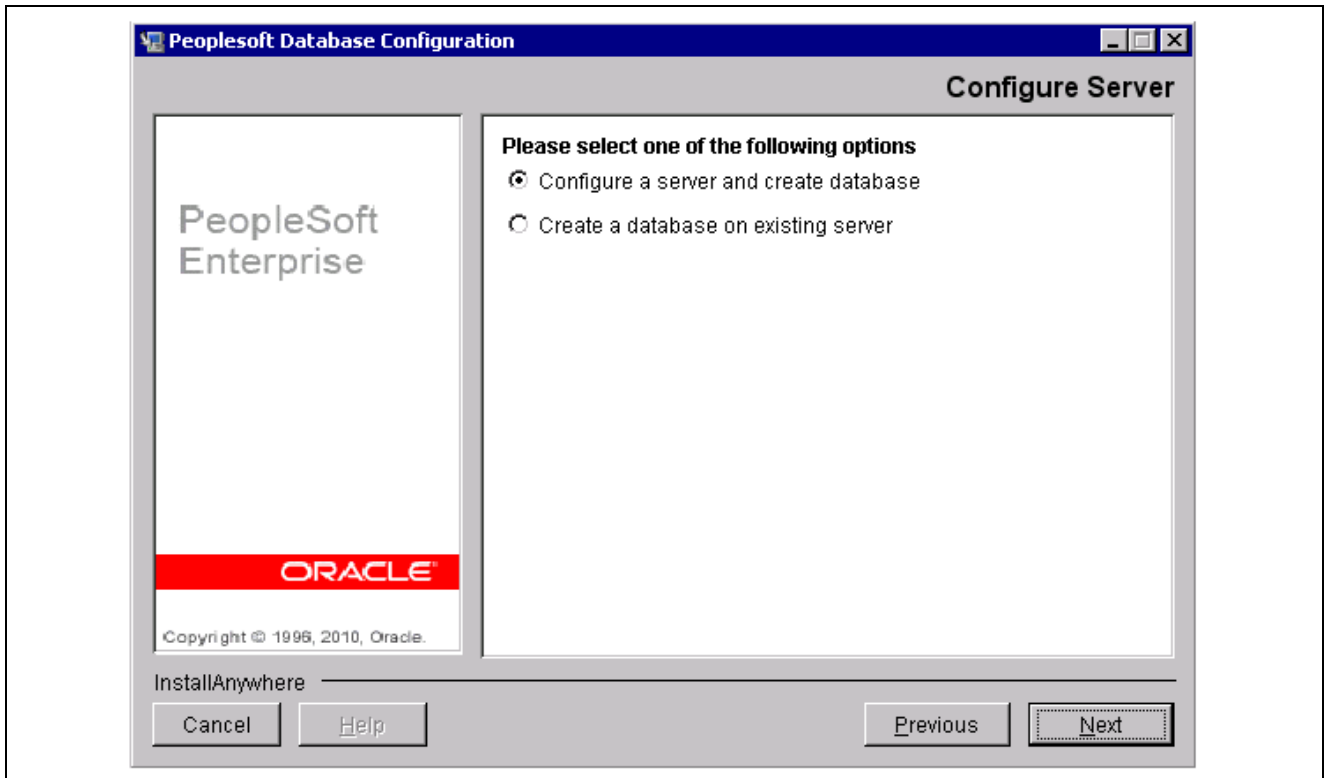
In this example the connectivity path is C:\Program Files\Microsoft SQL Server\100\Tools\Binn.

Note. The window displays the location for the modified scripts, which is D:\EP9.1\modifiedscripts in this example. The modifiedscripts directory is populated based on the PS_APP_HOME path that you entered on the Choose Apps Install Home screen in an earlier step.



Specifying the directory path for sqlcmd on the PeopleSoft Database Configuration Wizard window

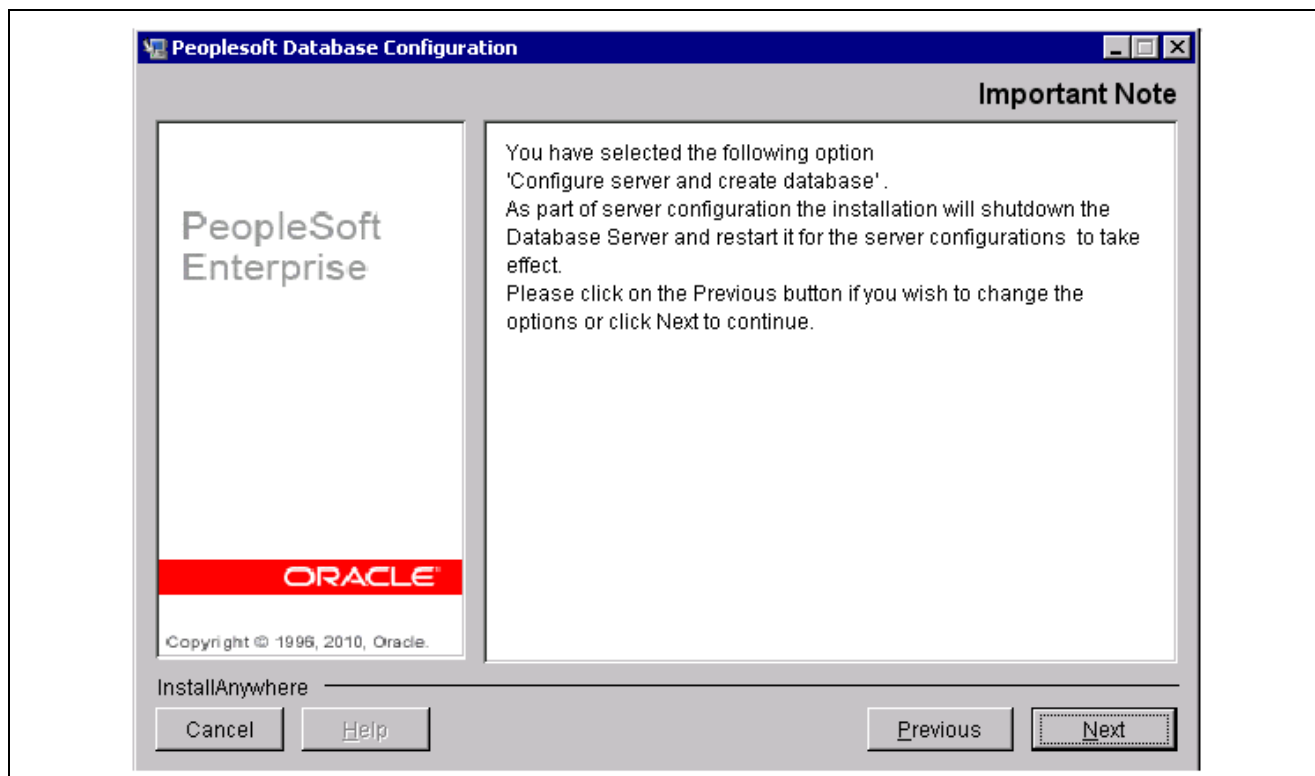
11. If this is your first time installing the application, select Configure a server and create a database, as shown in this example, and click Next.
Otherwise, select Create database on existing server.



PeopleSoft Database Configuration Wizard Configure Server window

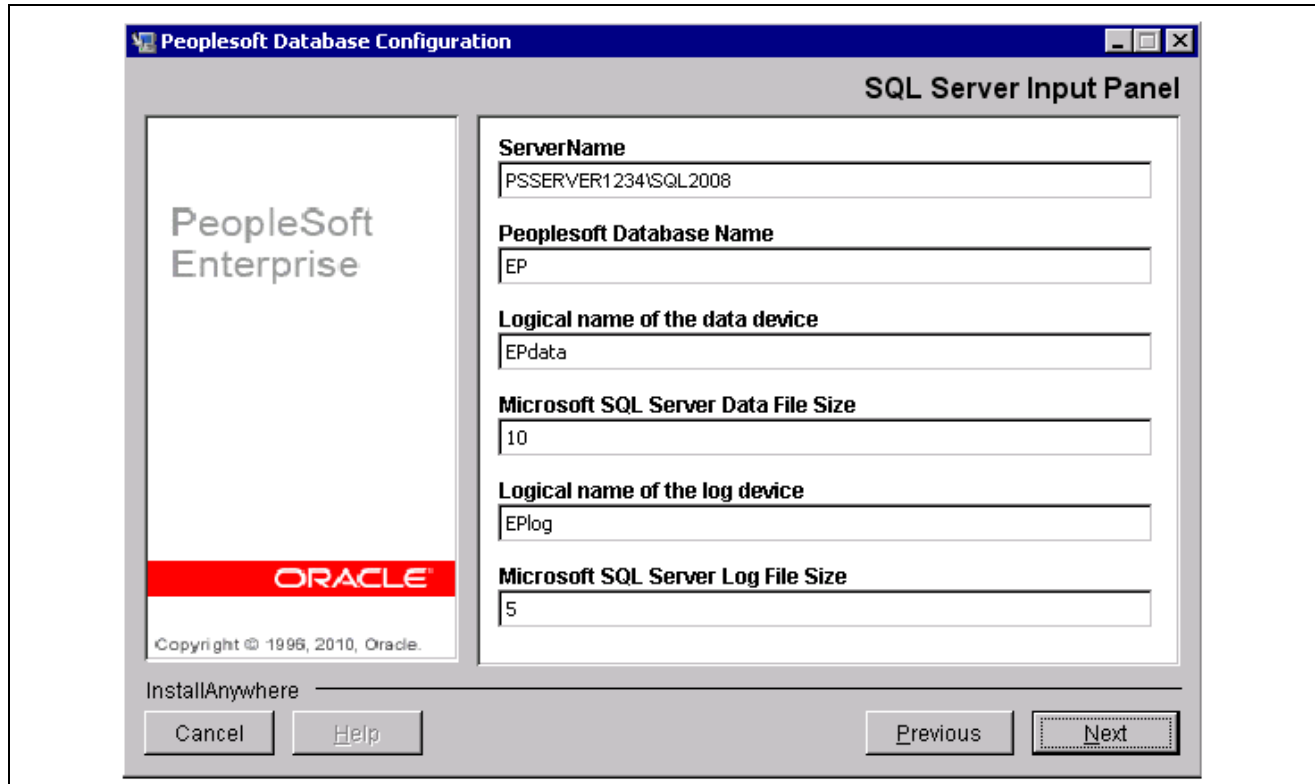
12. A message will confirm your selection.

If this is the first time you are installing a PeopleSoft database on this server, the Database Configuration Wizard will shut down and restart Microsoft SQL Server to allow some configuration changes to take effect. User-defined data types will be added to your server as well. Click Next to continue.



Peoplesoft Database Configuration Wizard Important Note window

13. Enter the appropriate server information for your database, clicking Next when you are done.



Peoplesoft Database Configuration Wizard SQL Server Input Panel window

- *Server Name*

The SQL Server name (default or named instance) of the server you are using to install the application. This is the server that will host your database.

You can use the name of a default instance or a named instance. Default instances only require the name of the SQL Server server. A named instance entry requires more details. Here is an example of a named instance entry: *PSSERVER1234\SQL2008*, where “PSSERVER1234” is the name of the SQL Server server and “SQL2008” is the named instance name.

- *PeopleSoft Database Name*

The name for your database. (This is the database defined in chapter 1 under “Planning Database Creation.”) The name must be uppercase and can have no more than eight characters. The PeopleSoft Database Name in the example is EP.

- *Logical name of the data device*

A name assigned to identify the physical device that allocates the database data. The logical name in the example is EPdata.

- *Microsoft SQL Server Data File Size*

The initial physical size in megabytes of the file that will host your database data. The file size in the example is 10.

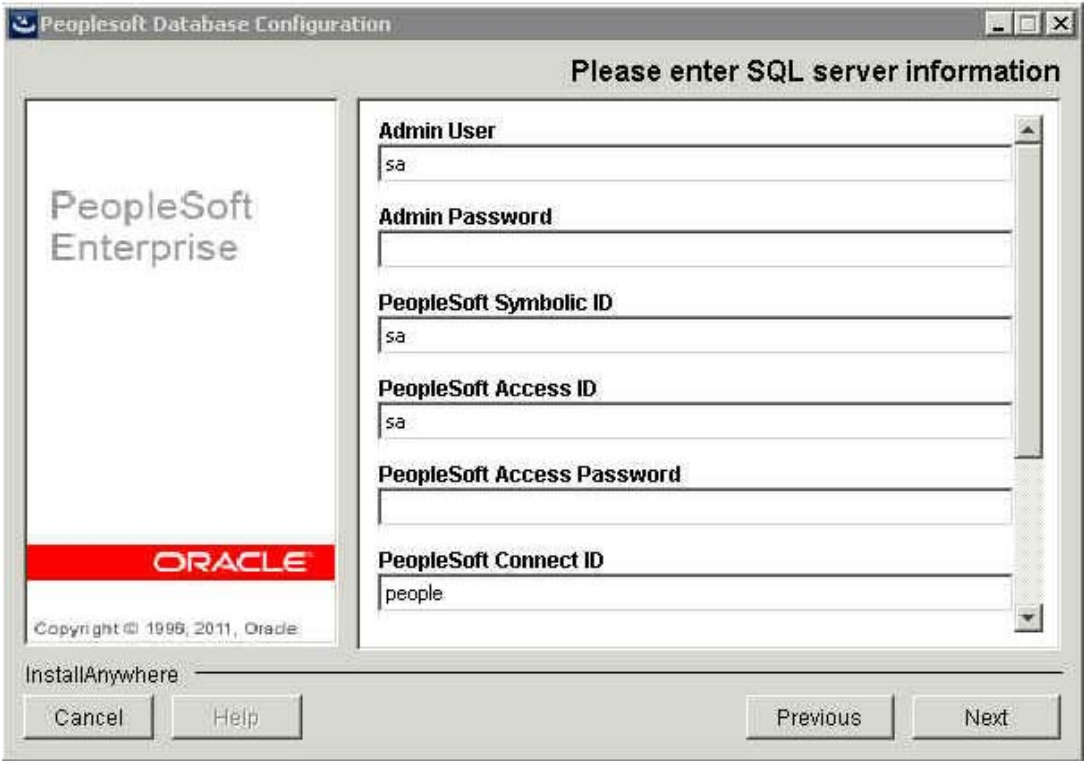
- *Logical name of the log device*

A name that identifies the physical device that allocates your database log. The Logical name of the log device in the example is EPlog.

- *Microsoft SQL Server Log File Size*

This value specifies the initial amount of space in megabytes assigned to your database log. The size in the example is 5.

14. Specify the values for the various required IDs:



The screenshot shows the 'Peoplesoft Database Configuration' window with the title 'Please enter SQL server information'. On the left is the 'PeopleSoft Enterprise' logo and the 'ORACLE' logo. The right side contains several input fields: 'Admin User' (sa), 'Admin Password' (empty), 'PeopleSoft Symbolic ID' (sa), 'PeopleSoft Access ID' (sa), 'PeopleSoft Access Password' (empty), and 'PeopleSoft Connect ID' (people). At the bottom are 'Cancel', 'Help', 'Previous', and 'Next' buttons.

Peoplesoft Database Configuration

Please enter SQL server information

PeopleSoft Enterprise

ORACLE

Copyright © 1996, 2011, Oracle

Admin User
sa

Admin Password

PeopleSoft Symbolic ID
sa

PeopleSoft Access ID
sa

PeopleSoft Access Password

PeopleSoft Connect ID
people

InstallAnywhere

Cancel Help Previous Next

Please enter SQL server information window - Part 1



The screenshot shows the same 'Peoplesoft Database Configuration' window, but with the 'Previous' button disabled. The 'PeopleSoft Access ID' field now contains 'sa'. The 'PeopleSoft Connect ID' field contains 'people'. The 'Microsoft SQL server Data file name' field contains 'D:\PT8.53\PTSYS204_data.mdf'. The 'Microsoft SQL server Log file name' field contains 'D:\PT8.53\PTSYS204_log.ldf'. The 'Previous' button is now disabled, and the 'Next' button is enabled.

Peoplesoft Database Configuration

Please enter SQL server information

PeopleSoft Enterprise

ORACLE

Copyright © 1996, 2011, Oracle

PeopleSoft Access ID
sa

PeopleSoft Access Password

PeopleSoft Connect ID
people

PeopleSoft Connect Password

Microsoft SQL server Data file name
D:\PT8.53\PTSYS204_data.mdf

Microsoft SQL server Log file name
D:\PT8.53\PTSYS204_log.ldf

InstallAnywhere

Cancel Help Previous Next

Please enter SQL server information window - Part 2

- *Admin User*

The Database Configuration Wizard will use this server user to create the PeopleSoft database and all of its objects, and assign the access permissions to the ACCESSID and the CONNECTID. This user should have permissions to create databases and grant permissions to the objects created at the PeopleSoft database. This user could be used as a database administrator user which has the ability to back up and restore the database when necessary and also to perform other administrative tasks. This user is not the ACCESSID and will not be used by the applications to access the database. The Admin User in the example is sa.

- *Admin Password*

This is the password for the Admin User ID. The password is necessary to be able to log in to the server and run the database installation during the installation process.

- *PeopleSoft Symbolic ID*

Accept the default value provided or use the same value as the ACCESSID. This value will be used internally by your PeopleSoft application. The PeopleSoft Symbolic ID in the example is sa.

- *PeopleSoft Access ID*

This is the PeopleSoft ACCESSID defined in chapter 1 under “Planning Database Creation.” You will use it later in this chapter to sign on to Data Mover in “bootstrap mode.” This value is case sensitive, and you must limit it to eight characters or less. The PeopleSoft Access ID in the example is satst.

Note. Do not use *sa* as an ACCESSID for your PeopleSoft applications. Create a separate login for this purpose.

- *PeopleSoft Access Password*

This is the PeopleSoft ACCESSID password. You will use this value later in this chapter to sign on to Data Mover in “bootstrap mode.” Make sure the password complies with the database server OS password requirements policies. The password must be between 6 and 8 characters, with no spaces.

Note. You must enter a password. There is no default Access password for PeopleSoft PeopleTools 8.53 and later.

- *PeopleSoft Connect ID*

This is the CONNECTID, the login that will be used for the initial connection to the database. You must limit it to eight characters or less. The PeopleSoft Connect ID in the example is people.

- *PeopleSoft Connect Password*

This is the password used to authenticate the CONNECTID. Make sure the password complies with the database server OS password requirements policies. The password must be between 6 and 8 characters, with no spaces.

Note. You must enter a password. There is no default Access password for PeopleSoft PeopleTools 8.53 and later.

Note. PeopleSoft applications use the CONNECTID to validate the security permissions of the application user ID during the sign-on process. A CONNECTID is a database user; each PeopleSoft application has one CONNECTID and only one is necessary for all the users in one application.

- *Microsoft SQL server Data file name*

Specify the full path and file name. In the example this is D:\PT8.53\PTSYS204_data.mdf.

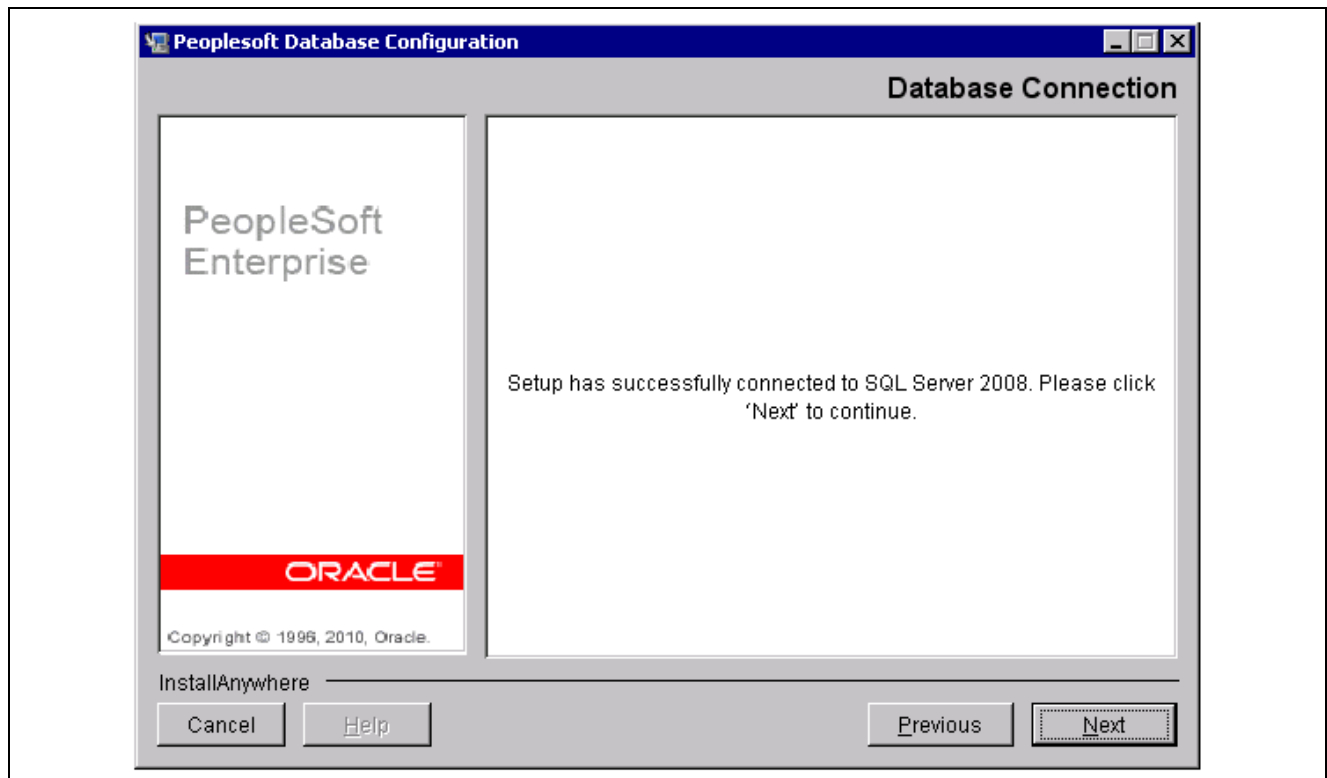
- *Microsoft SQL server Log file name*

Specify the full path and file name. In the example this is D:\PT8.53\PTSYS204_log.ldf.

15. Review the information on the next window.

The Database Configuration Wizard tries to connect to your SQL Server database server. The Database Configuration Wizard also determines the database version you are connecting to.

If the connection is successful you see a message such as “Setup has successfully connected to SQL Server 2008.” as shown in this example (note that the information may change depending on the SQL Server version you are using):



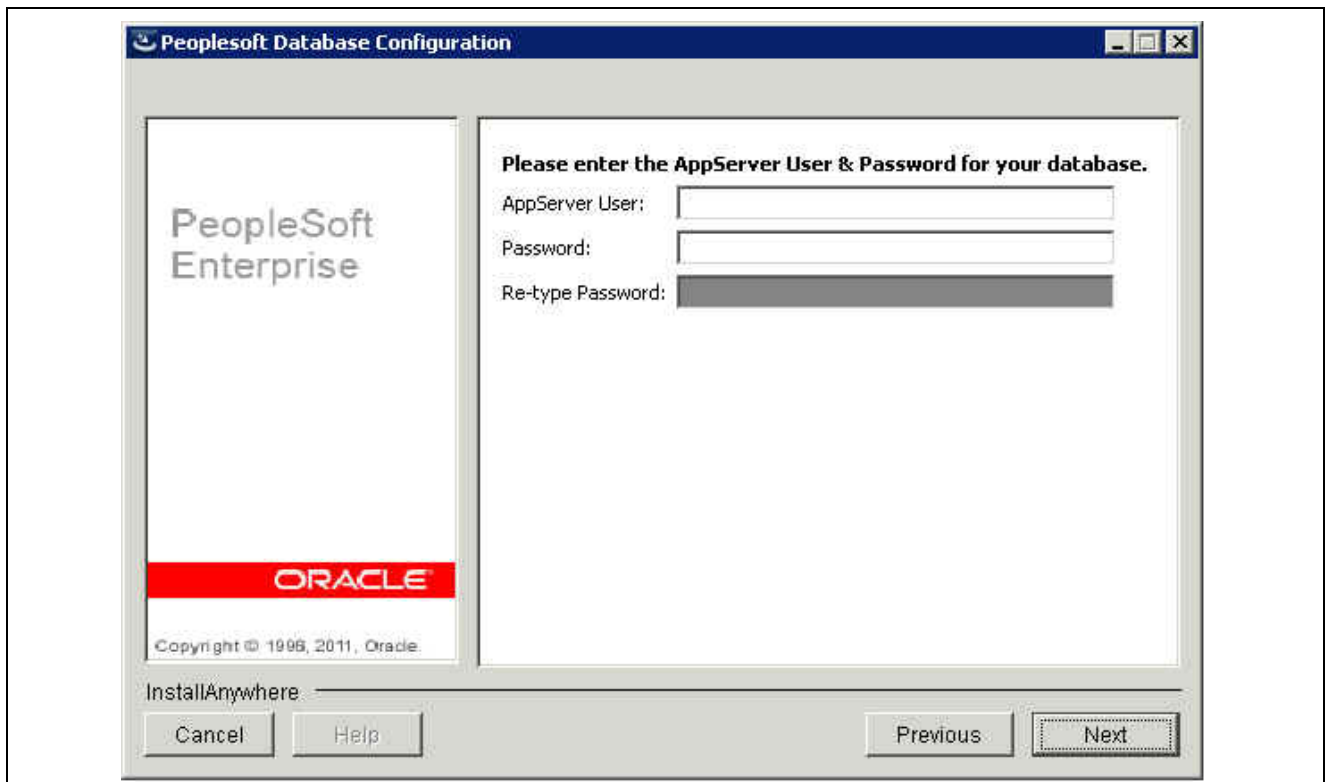
Database Connection window showing successful connection to SQL Server

If the wizard cannot connect to the database server you receive an error message (note that the information may change depending the SQL Server version you are using).

If you receive an error, make sure the server is up and verify the server name you provided in previous steps.

16. Enter a user ID and password for administering the Application Server.

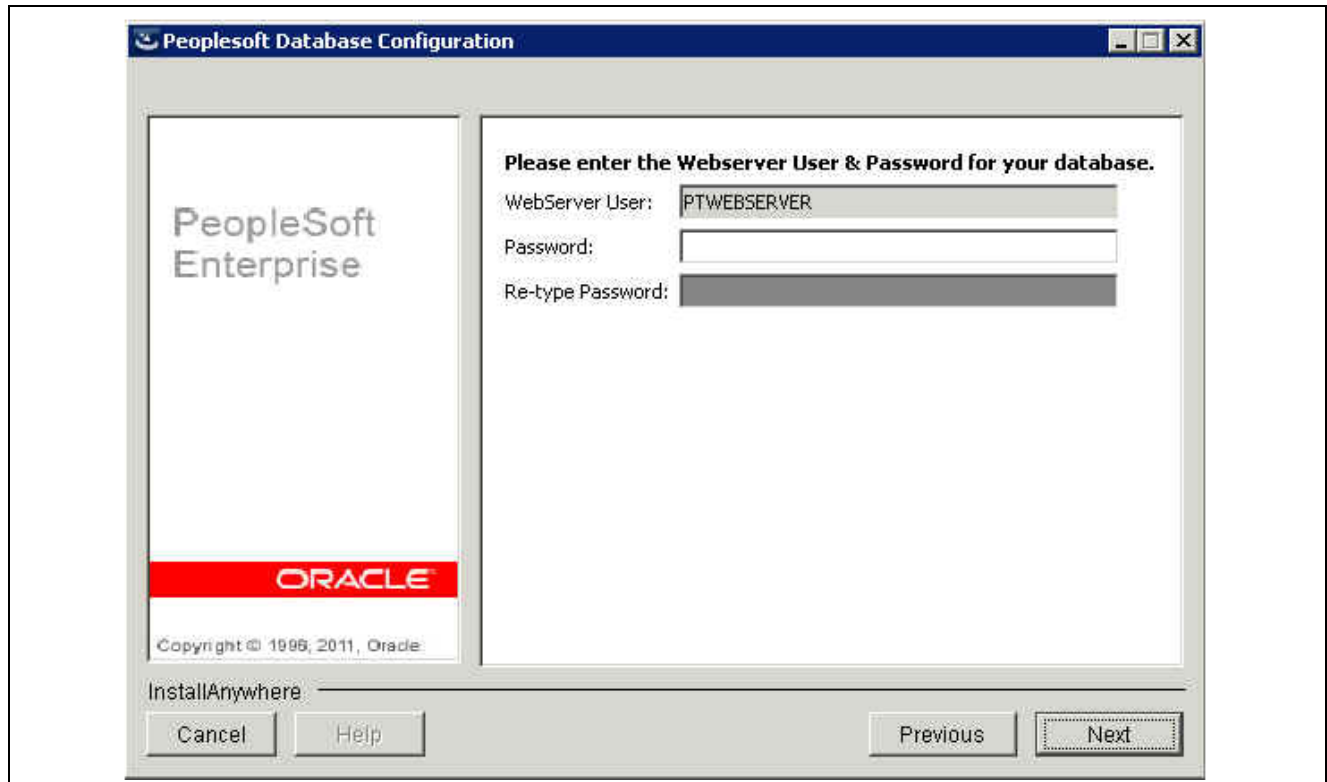
The AppServer user will have privileges to administer the PeopleSoft Application Server. Enter and confirm a password for this user.



Specifying the Application Server User and Password on the PeopleSoft Database Configuration Wizard window

17. Enter a password for the WebServer User.

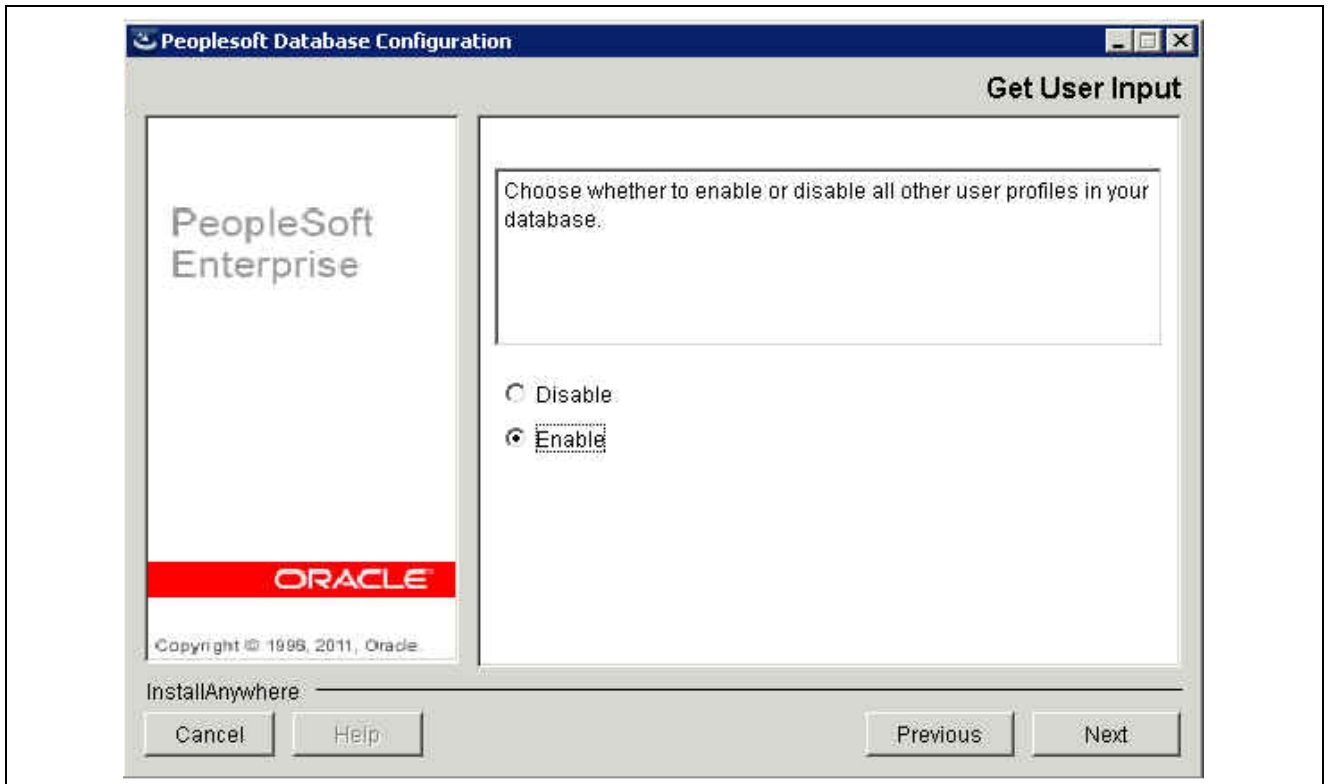
The default WebServer User, as shown in the example, is PTWEBSEVER. This user will have privileges to administer the web server.



Specifying the Web Server Password on the PeopleSoft Database Configuration Wizard window

18. Choose whether to enable or disable other user profiles in the database.

In this example, the Enable option is selected.



Enabling or disabling user profiles on the PeopleSoft Database Configuration Wizard window

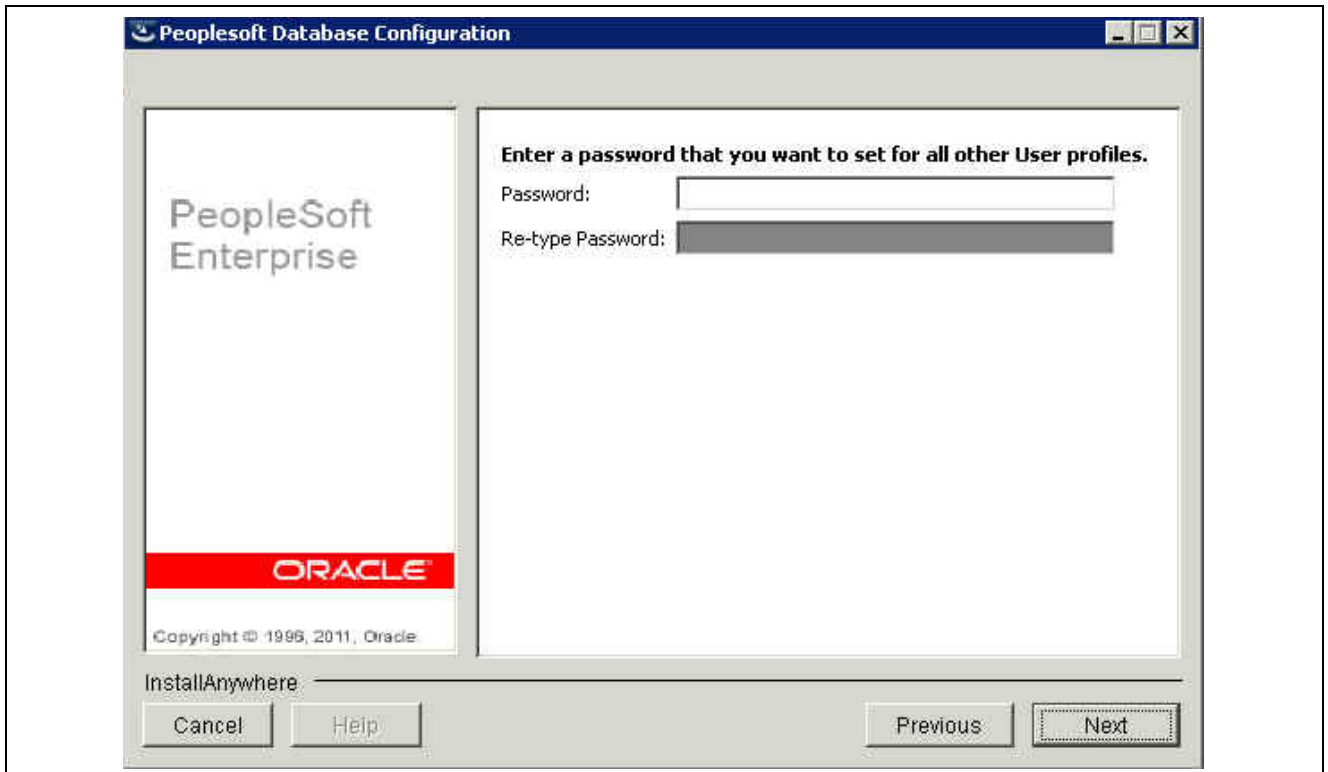
- Select the Enable option to leave the User profiles (other than the Application Server User Profile and Web server User profiles specified in the previous steps) unchanged.
- Select the Disable option to disable all the User profiles in the database except the Application Server User Profile and Web server User profiles specified in the previous steps.

19. Select an option to set User profile passwords.



Password options on the PeopleSoft Database Configuration Wizard window

- Select the option “Set the password same as OPRID” to specify a password that is the same as the User ID (for example, VP1/VP1).
 - Select the option “I would like to set a different password” to set a common global password for all the User profiles in the database in the next step.
20. If you selected the option “I would like to set a different password”, specify (and re-enter) a password for all other user profiles except the Application Server User Profile and Web server User profiles specified in the previous steps of this procedure.



Entering a password for all other User profiles on the PeopleSoft Database Configuration Wizard window

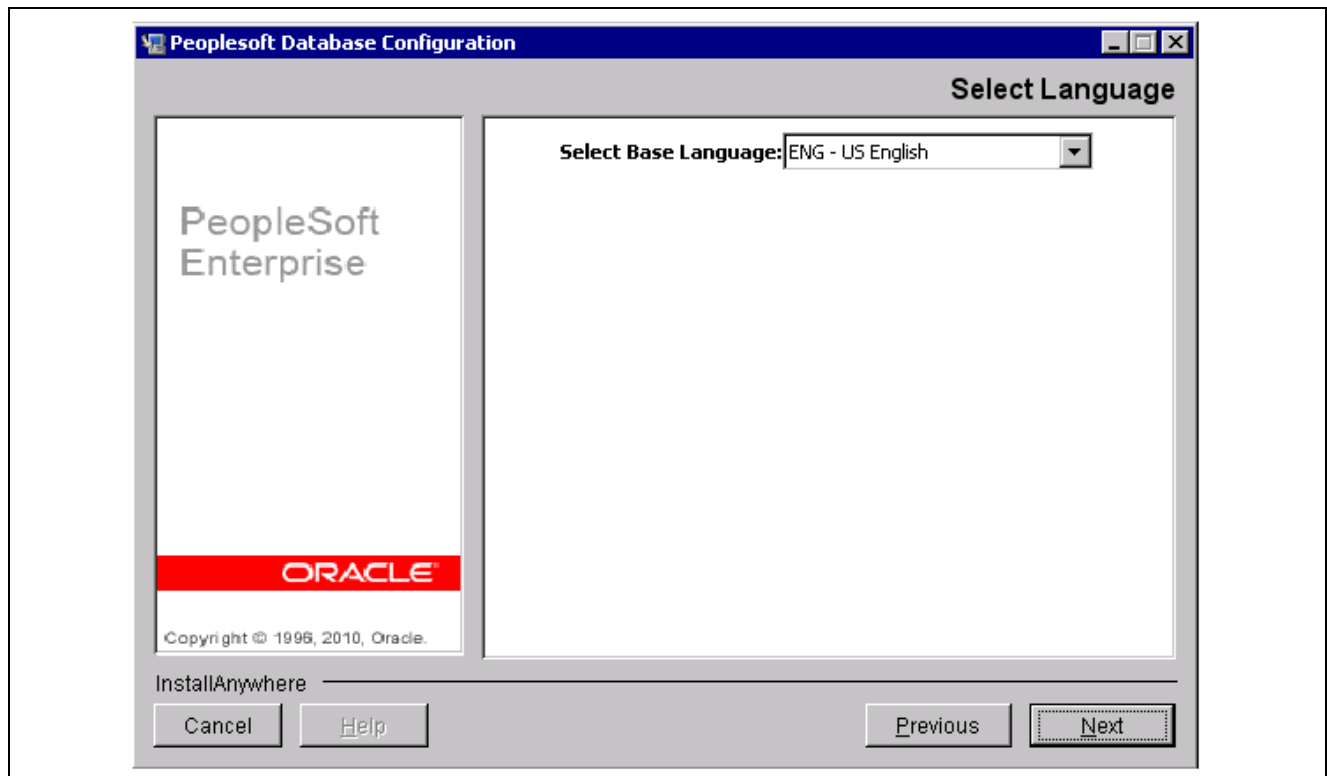
21. Select the base language (the default is ENG - US English, as shown in this example) and click Next.

The Select base language selection is used to determine what primary base language the customer wants to run their PeopleSoft application on. If you choose a language other than English, the base language will be swapped during the database creation script.

See "Planning for Installation," Planning Multilingual Strategy.

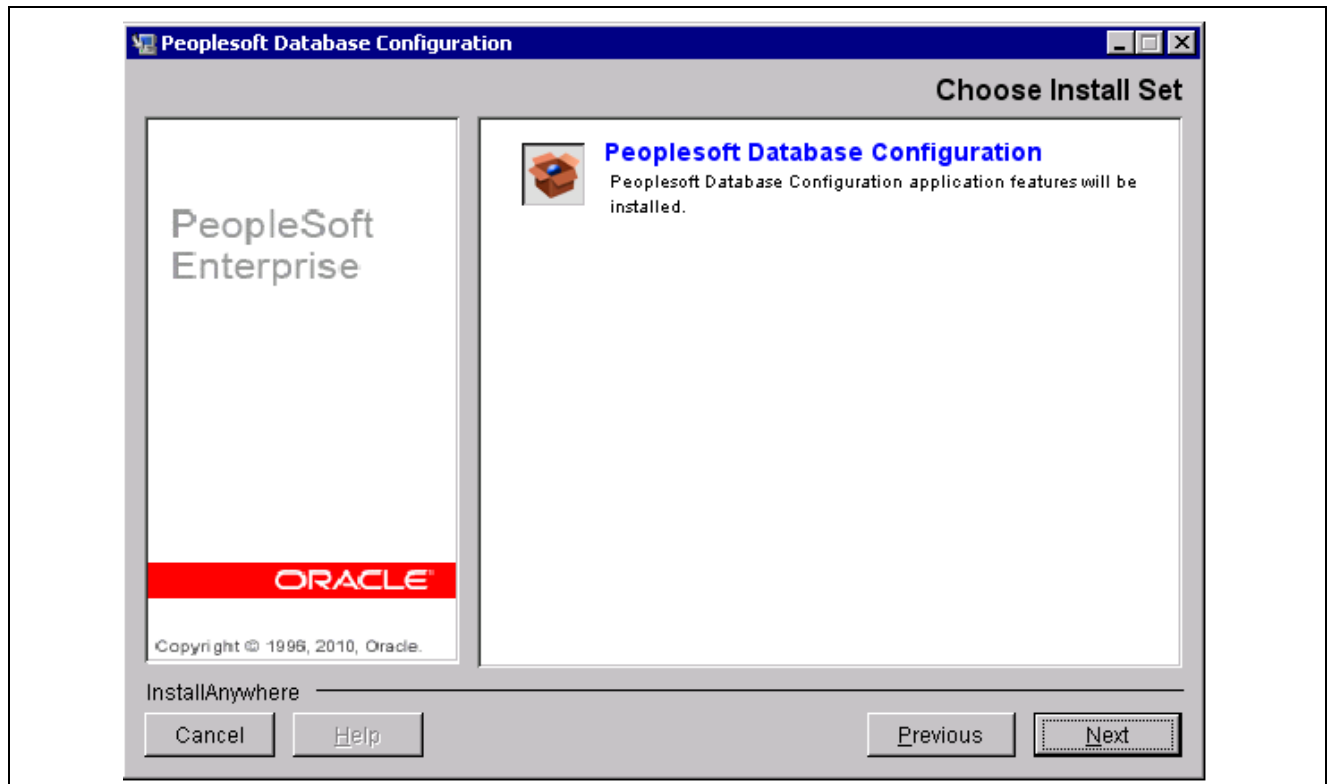
This step applies only if your users will be operating PeopleSoft applications primarily in one particular language other than English. This step gives a performance boost to the language you designate as the base language, but would require more administrative overhead than leaving English as the base language does.

See *PeopleTools: Global Technology*.



PeopleSoft Database Configuration Wizard Select Language window

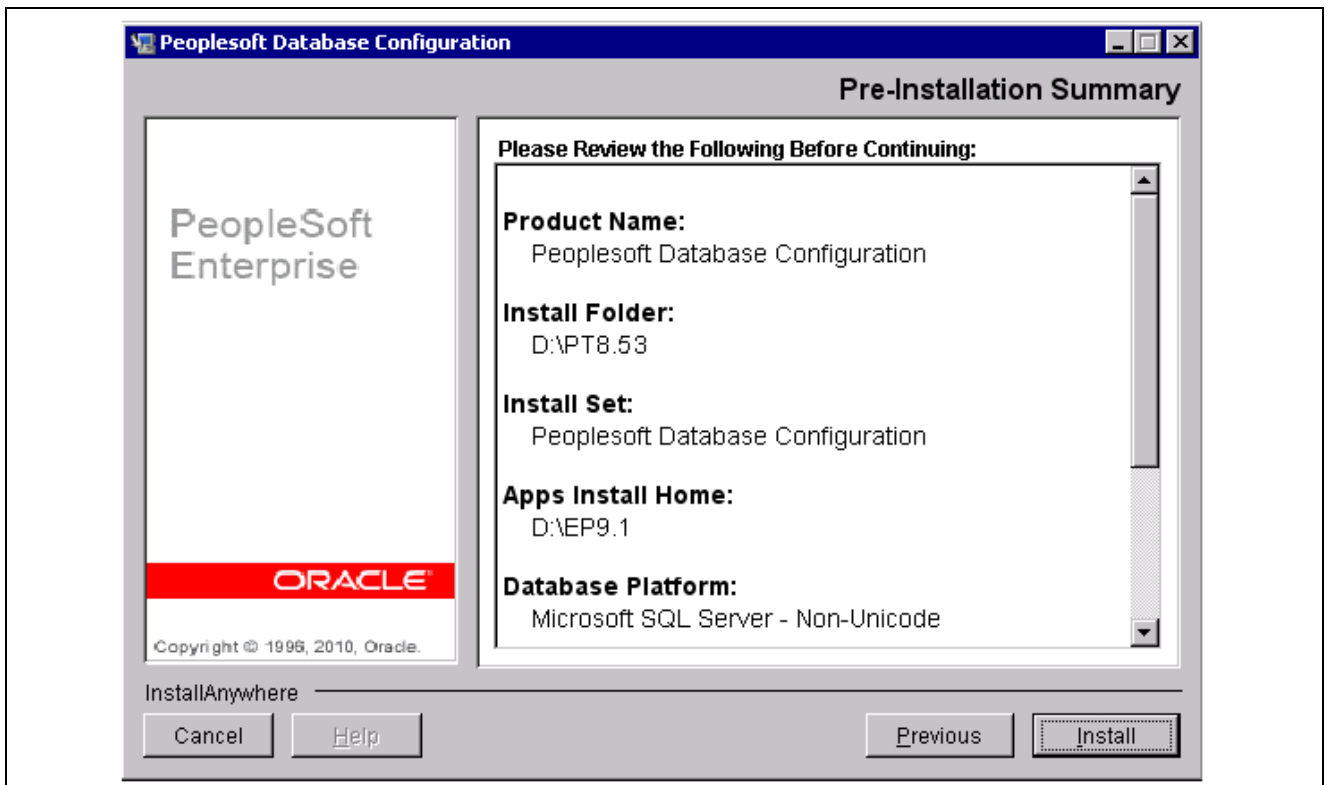
22. Click next to confirm the installation of the PeopleSoft Database Configuration files.



PeopleSoft Database Configuration Wizard Choose Install Set window

23. Review the installation summary information, including the install folder and database platform, and click Install to proceed.

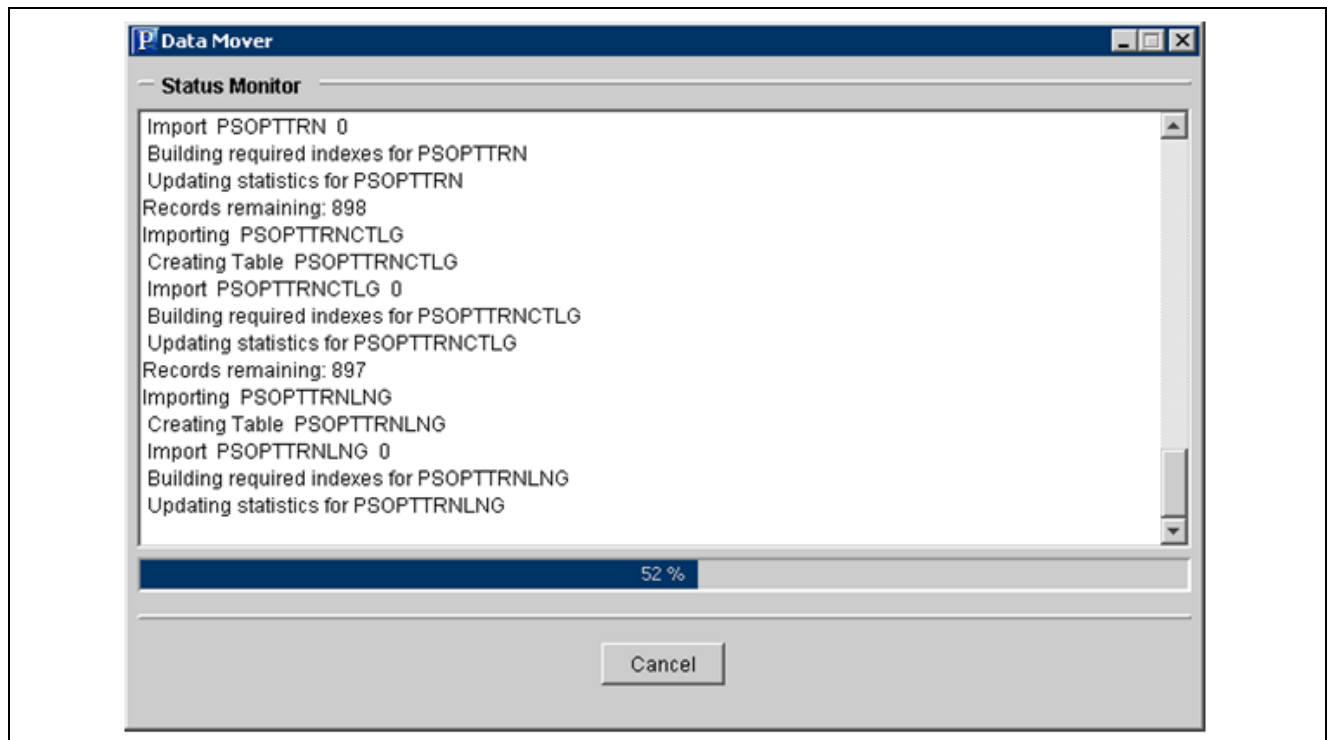
If you want to change any of the settings, click Previous to go back.



PeopleSoft Database Configuration Wizard Pre-Installation Summary window

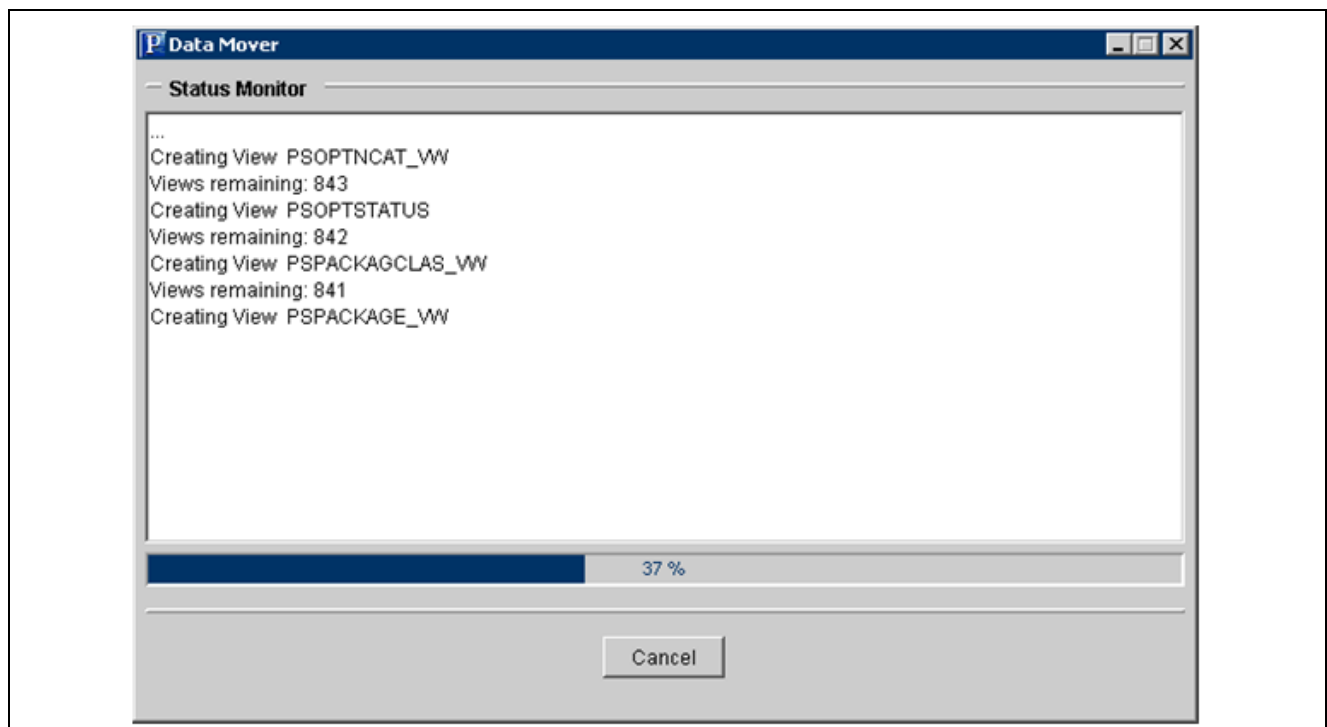
24. You see various messages indicating that the Database Configuration Wizard is processing your request, as shown in these two examples.

Note. The messages are displayed to indicate real time progress of the Database Configuration Wizard, and are written to log files contained in the *PS_HOME/log* directory.



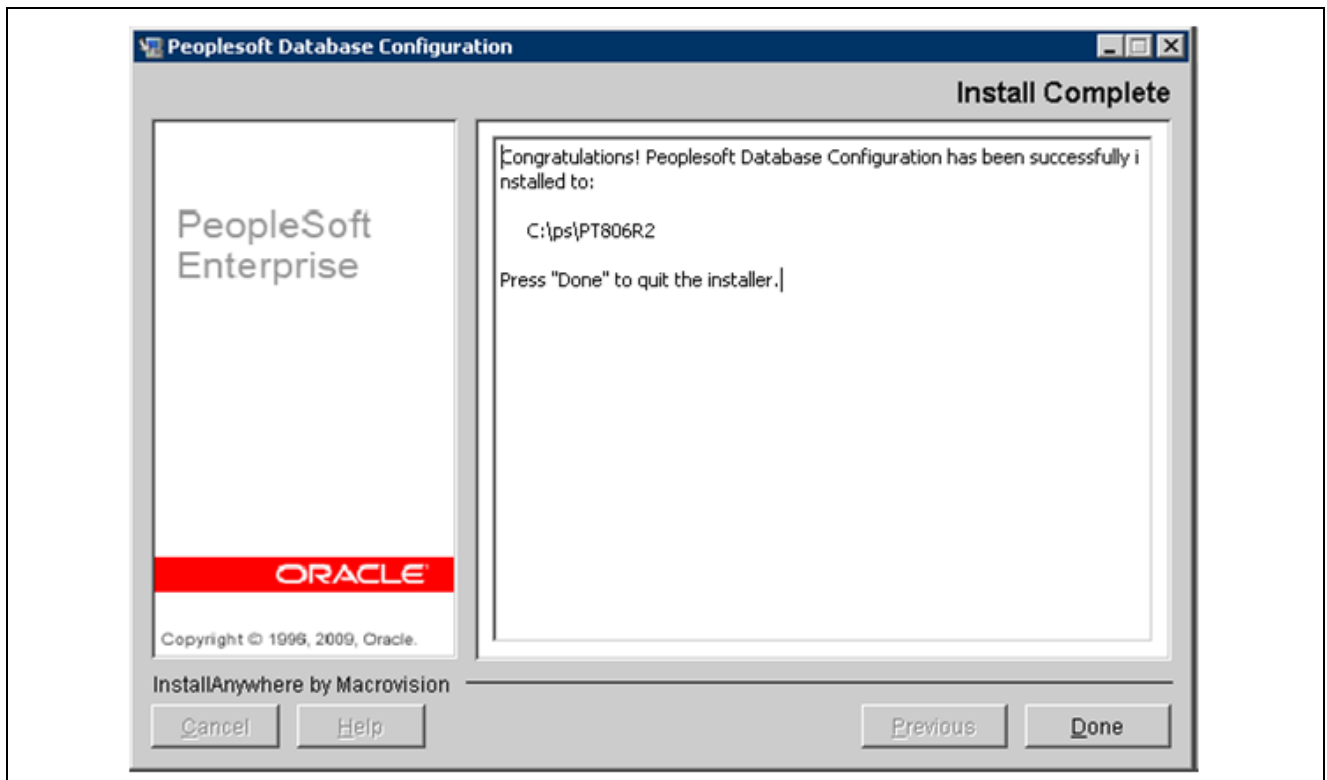
Data Mover Status Monitor window showing processing messages

This example shows Creating View messages.



Data Mover Status Monitor window showing Creating View messages

25. When you see a message that the PeopleSoft Database Configuration has been successfully installed, click Done.



PeopleSoft Database Configuration Wizard Install Complete window

Task 6-3: Checking the Log Files and Troubleshooting

This section discusses:

- Checking the Log Files
- Running Data Mover
- Troubleshooting
- Improving Performance

Task 6-3-1: Checking the Log Files

After the Database Configuration Wizard finishes its execution, look for all log output in the *PS_HOME/log* directory. Open all the log files. There is a log file for each of the steps that the Database Configuration Wizard carries out—importing, encrypting passwords, creating triggers, replacing views, and creating temp tables. *None should contain error messages.*

Task 6-3-2: Running Data Mover

If the Database Configuration Wizard does not complete successfully, you must run Data Mover manually, using one of the following methods:

- Select Start, Programs, PeopleTools 8.53, Data Mover.

- Go to *PS_HOME*\bin\client\winx86 and run psdmt.exe.
- Run the Data Mover executable, psdmt.x, on the command line.

Note. This method is normally used on UNIX operating systems.

If you use the access ID that you specified during the database configuration to log on, you log on in “bootstrap mode.” When you start Data Mover in bootstrap mode, the word “BootStrap” appears in the Data Mover status bar.

If you use a valid PeopleSoft Operator ID, such as PS for Human Capital Management or VP1 for Financials/Supply Chain Management, you log on in “user mode.” In this mode, no designation appears in the Data Mover status bar.

See Also

PeopleTools: Data Management

Task 6-3-3: Troubleshooting

If the Database Configuration Wizard did not complete successfully, read this troubleshooting information. If your script has stopped midway (this can happen for a number of reasons) you need to edit the Data Mover script generated automatically by the Database Configuration Wizard and restart Data Mover manually. The Data Mover script files have the extension .dms and are sometimes referred to as “DMS scripts.”

The generated Data Mover import script is saved in the *PS_HOME*/scripts directory. The script conforms to the following naming convention:

<dbname>mss.dms

To edit and restart the DMS script:

1. Determine the record that was being imported (that is, which IMPORT command was running) when the script stopped, and use the following guidelines to edit and rerun the DMS scripts.

When building a DMO database or a multilingual database, adding the SET START statement can be tricky because the Data Mover script used to load the database will include more than one IMPORT statement. The key is to view the log files and determine which IMPORT section of the script Data Mover failed on.

 - If the failure occurred during the first IMPORT statement, add the SET START statement before the first IMPORT *; statement.
 - If the failure occurred during a subsequent IMPORT statement, comment out all statements preceding the IMPORT *; statement where the failure occurred and add the SET START statement before the IMPORT *; statement of the section in which the failure occurred.
 - *This is very important:* If you see any “unique index constraint” error messages in the “Building required indexes” section, your IMPORT script failed during a subsequent IMPORT but the SET START statement was added to the first IMPORT. In this situation, you can run the Data Mover script in its originally generated form, with only one modification. In the first IMPORT section, change the statement “IMPORT *;” to “REPLACE_DATA *;”. This will delete all the data in the tables, and re-import it. This process will take some time to run, and you will need to separately create each of the indexes that failed.
2. Run Data Mover by selecting Start, Programs, PeopleTools 8.53, Data Mover (or going to *PS_HOME*\bin\client\winx86 and running psdmt.exe).

The PeopleSoft Logon window appears.
3. Log on using the ACCESSID to start Data Mover in *bootstrap mode*.

The input window should display the DMS import script for the database. The script has the format <dbname>mss.dms.

4. If necessary, select File, Open, and browse to the *PS_HOME/scripts* directory to find the appropriate DMS script.
5. Add the following line before the offending IMPORT command (the one being executed when the failure occurred):

```
SET START <RECORD NAME>;
```

<RECORD NAME> is the name of the record that failed. Make sure to review the Data Mover log file to see where the script failed and locate the last record that imported successfully. The SET START command will begin the Data Mover import at the specified record name.

Note. It is a good idea to change the name of the log file in the script before each attempt at running it. This ensures that you have a separate log file for each attempt, if you run the import more than once.

For example, if the script stops and the table is partially inserted with a message similar to this one:

```
Importing PSPNLFIELD
Rows inserted into PSPNLFIELD
3000
```

First drop the partially inserted table (for example, record) by using the DROP TABLE command, and then restart Data Mover at the record that failed using the SET START command and continue the Data Mover import. This can be done in a single pass.

Add the following lines before the offending IMPORT *; command (the one being executed when the failure occurred):

```
SET START <RECORD NAME>;
DROP TABLE <RECORD NAME>;
```

where <RECORD NAME> is the name of the record that failed. The SET START statement will begin the Data Mover import at the specified <RECORD NAME>.

Example of the original script:

```
REM - PeopleTools System Database - US English
/
SET LOG ptengs.log;
SET INPUT ptengs.db;
SET COMMIT 30000;
SET NO VIEW;
SET NO SPACE;
SET NO TRACE;
SET UNICODE OFF;
IMPORT *;
```

Example of script after modification, with changes in bold font:

```
REM - PeopleTools System Database - US English
/
SET LOG ptengs2.log;
SET INPUT ptengs.db;
SET COMMIT 30000;
SET NO VIEW;
SET NO SPACE;
SET NO TRACE;
```

```
SET UNICODE OFF;  
SET START PSPNLFIELD;  
DROP TABLE PSPNLFIELD;  
IMPORT *;
```

For the DROP statement, for records with a recname without a leading PS, add PS_ to the beginning of the recname; otherwise the table will not be found. For example, PS_<RECNAME>.

6. Restart the script (File, Run Script).

Task 6-3-4: Improving Performance

The following tips can help you save time when running the Data Mover scripts:

- Run Data Mover on the database server.
- Run only a single instance of Data Mover, and do not have any other applications running during the import.
- In the PeopleSoft Configuration Manager, turn off all trace options.
Tracing during a DMS load will add considerable time to the process.
- Run Data Mover on the database server with the .db or .dat file located locally.

CHAPTER 7

Completing the Database Setup

This chapter discusses:

- Selecting the Necessary Tasks to Complete the Database Setup
- Reviewing Patch Application
- Updating Database to Latest PeopleTools Release
- Running Additional Data Mover Scripts
- Installing a Multilingual PeopleTools System Database
- Running VERSION Application Engine Program
- Running SQR Reports
- Checking the Database
- Running Alter Audit
- Cleaning and Backing Up the Database

Selecting the Necessary Tasks to Complete the Database Setup

Review each of the tasks in this chapter to determine which are required for your database setup. Depending upon the details of your installation you may not need to complete every task. However, it is important to evaluate the tasks with respect to your specific situation.

Task 7-1: Reviewing Patch Application

The section Reviewing Patches and Updates Required at Installation in the first chapter of this documentation instructed you to search the My Oracle Support Patches & Updates area for Required for Install patches for PeopleSoft PeopleTools and your PeopleSoft Application.

See "Preparing for Installation, " Reviewing Patches and Updates Required at Installation.

The patch user documentation, which is included with the files that you download from My Oracle Support, specifies whether the patch includes database changes. The type of patch you are applying may affect how you proceed with the tasks in this chapter.

- If you meet *both* of the following listed requirements, skip the task Updating Database to Latest PeopleTools Release, and continue with the task Running Additional Database Mover Scripts:
 - You are installing either a PeopleSoft PeopleTools System (SYS) database or a database delivered on PeopleSoft PeopleTools 8.53.
 - You are applying a Required for Install PeopleSoft PeopleTools patch.
Follow the directions in the patch user documentation to apply the database changes.
- Complete the task Updating Database to Latest PeopleTools Release, and proceed to review and carry out the tasks following it if:

You are installing a PeopleSoft Application system (SYS) or demo (DMO) database that is *not* delivered on PeopleSoft PeopleTools 8.53. The task includes a step to apply the patch database changes.

See Understanding Database Updates for information on determining the delivered version of PeopleSoft PeopleTools.

Task 7-2: Updating Database to Latest PeopleTools Release

This section discusses:

- Understanding Database Updates
- Cleaning Up Data
- Updating PeopleTools System Tables
- Updating PeopleTools Database Objects
- Updating PeopleTools Multilingual Objects
- Deleting Obsolete PeopleTools Database Objects
- Applying Patched PeopleTools Database Objects
- Altering PeopleTools Tables
- Updating PeopleTools System Data
- Running PeopleTools Conversions
- Converting Integration Broker
- Running Additional PeopleTools Conversions

Understanding Database Updates

Your PeopleSoft application database may be on a PeopleSoft PeopleTools release prior to the version that you are currently running. For you to be able to sign on to your database after running the Data Mover script to load your database, the PeopleSoft PeopleTools versions for your database and your file server must match. The steps in this task ensure that your PeopleSoft database is in sync with the PeopleSoft PeopleTools version that you are running.

Note. You will use Application Designer for several steps in this portion of the installation. Consult the Application Designer documentation if you have questions.

See *PeopleTools: PeopleSoft Application Designer Developer's Guide*

Note. If you are installing either a PeopleSoft PeopleTools System Database or a database delivered on PeopleSoft PeopleTools 8.53, and you are applying a required for install PeopleSoft PeopleTools patch, skip the steps in this task. Instead, follow the directions in the patch user doc to apply the database changes, and then continue with the install at the task Running Additional Data Mover Scripts. If you are installing an application SYS or DMO database that is not delivered on PeopleSoft PeopleTools 8.53, please proceed with this task.

This task must be run for any applications where the PeopleSoft PeopleTools version of the database that was shipped is different than the version of PeopleSoft PeopleTools that you are running. To verify the PeopleSoft PeopleTools release for your application database, run this SQL query:

```
select TOOLSREL from PSSTATUS
```

If the PeopleTools version is not 8.53, you must run this task. Otherwise, continue to the task Running Additional Data Mover Scripts.

Task 7-2-1: Cleaning Up Data

If your database is delivered on PeopleSoft PeopleTools 8.48 or higher, do *not* run this step, and instead, proceed to Updating PeopleTools System Tables. If your database is delivered on PeopleSoft PeopleTools 8.47 or earlier, perform this step to clean out obsolete message data.

Warning! Performing this task when updating from PeopleSoft PeopleTools 8.48 or later will wipe out current valid data that is needed for your system to function properly.

Message functionality and structure changed as of PeopleSoft PeopleTools 8.48 and the old data is obsolete. Edit *PS_HOME*\scripts\ptupgibdel.sql to delete data from the tables that only exist in the old PeopleSoft PeopleTools release. Open the script and make the following modifications, and then run the modified script using your SQL query tool:

1. Search for the string “--- End of PT8.<xx> ---” where <xx> represents the last two digits of the PeopleSoft PeopleTools release you are upgrading from.
2. Delete the entire portion of the script below this string.
3. Save the script as <PS_HOME>\scripts\ptupgibdel8<xx>.sql where <xx> represents the last two digits of the PeopleSoft PeopleTools release you are upgrading from, as determined in Step 1.

Important! Be sure to save the script using the naming convention shown above. This will preserve the original script for use in updating other databases at different PeopleSoft PeopleTools releases.

4. Using a SQL query tool, run the ptupgibdel8<xx>.sql script against your PeopleSoft database.

Task 7-2-2: Updating PeopleTools System Tables

Run SQL scripts to update your PeopleSoft PeopleTools system tables to the latest PeopleSoft PeopleTools release (currently 8.53).

Use a query tool, such as the SQL Server Management Studio, to run SQL scripts while in the PeopleSoft database.

This procedure also includes steps to run Data Mover scripts. Depending upon the step, you run Data Mover in “bootstrap mode” or in “user mode.”

See the section Checking the Log Files and Troubleshooting, Running Data Mover in the chapters on creating a database using the Database Configuration Wizard, or creating a database manually.

To update your PeopleSoft PeopleTools system tables:

1. Run the appropriate SQL scripts for your application version.

The following scripts are found in the *PS_HOME*\scripts directory.

Use the scripts in the following table for non-Unicode databases:

Application Database Version	Required Scripts for Non-Unicode Databases
8.40	rel841, rel842, rel843, rel844, rel845, rel846, rel847, rel848, rel849, rel850, rel851, rel852, and rel853
8.41	rel842, rel843, rel844, rel845, rel846, rel847, rel848, rel849, rel850, rel851, rel852, and rel853
8.42	rel843, rel844, rel845, rel846, rel847, rel848, rel849, rel850, rel851, rel852, and rel853
8.43	rel844, rel845, rel846, rel847, rel848, rel849, rel850, rel851, rel852, and rel853
8.44	rel845, rel846, rel847, rel848, rel849, rel850, rel851, rel852, and rel853
8.45	rel846, rel847, rel848, rel849, rel850, rel851, rel852, and rel853
8.46	rel847, rel848, rel849, rel850, rel851, rel852, and rel853
8.47	rel848, rel849, rel850, rel851, rel852, and rel853 Note. If you are installing ELM 9.0, run rel848n, rel849n, rel850n, rel851n, rel852n, and rel853n instead.
8.48	rel849, rel850, rel851, rel852, and rel853 Note. If you are installing a 9.0 or higher application, run rel849n, rel850n, rel851n, rel852n, and rel853n instead.
8.49	rel850, rel851, rel852, and rel853 Note. If you are installing a 9.0 or higher application, run rel850n, rel851n, rel852n, and rel853n instead.
8.50	rel851, rel852, and rel853 Note. If you are installing a 9.0 or higher application, run rel851n, rel852n, and rel853n instead.
8.51	rel852 and rel853 Note. If you are installing a 9.0 or higher application, run rel852n and rel853n instead.
8.52	rel853 Note. If you are installing a 9.0 or higher application, run rel853n instead.
8.53	None

Use the scripts in the following table for Unicode databases:

Application Database Version	Required Scripts for Unicode Databases
8.40	rel841u, rel842u, rel843u, rel844u, rel845u, rel846u, rel847u, rel848u, rel849u, rel850u, rel851u, rel852u, and rel853u
8.41	rel842u, rel843u, rel844u, rel845u, rel846u, rel847u, rel848u, rel849u, rel850u, rel851u, rel852u, and rel853u
8.42	rel843u, rel844u, rel845u, rel846u, rel847u, rel848u, rel849u, rel850u, rel851u, rel852u, and rel853u
8.43	rel844u, rel845u, rel846u, rel847u, rel848u, rel849u, rel850u, rel851u, rel852u, and rel853u
8.44	rel845u, rel846u, rel847u, rel848u, rel849u, rel850u, rel851u, rel852u, and rel853u
8.45	rel846u, rel847u, rel848u, rel849u, rel850u, rel851u, rel852u, and rel853u
8.46	rel847u, rel848u, rel849u, rel850u, rel851u, rel852u, and rel853u
8.47	rel848u, rel849u, rel850u, rel851u, rel852u, and rel853u Note. If you are installing ELM 9.0, run rel848un, rel849un, rel850un, rel851un, rel852un, and rel853un instead.
8.48	rel849u, rel850u, rel851u, rel852u, and rel853u Note. If you are installing a 9.0 or higher application, run rel849un, rel850un, rel851un, rel852un, and rel853un instead.
8.49	rel850u, rel851u, rel852u, and rel853u Note. If you are installing a 9.0 or higher application, run rel850un, rel851un, rel852un, and rel853un instead.
8.50	rel851u, rel852u, and rel853u Note. If you are installing a 9.0 or higher application, run rel851un, rel852un, and rel853un instead.
8.51	rel852u and rel853u Note. If you are installing a 9.0 or higher application, run rel852un and rel853un instead.
8.52	rel853u Note. If you are installing a 9.0 or higher application, run rel853un instead.
8.53	None

- If the application database version you are installing is either 8.42 or 8.43, run the following SQL command:

```
DROP TABLE PS_PSMCFQUEUESLANG
```

Note. PS_PSMCFQUEUESLANG may not exist in some 8.43 application databases. Do *not* drop the table PSMCFQUEUESLANG.

- If the application database you are installing is 8.45 or lower, run the following SQL command:

```
DROP TABLE PSOPTSTATUS
```

4. Edit and run the grant.sql script in the *PS_HOME*\scripts directory. This will grant permissions to the CONNECTID. Run the script as a user with Microsoft SQL Server system administrator privileges.
5. If the application database you are installing is 8.52 or lower, invoke Data Mover in bootstrap mode, and run the encrypt.dms Data Mover script in the *PS_HOME*\scripts directory.

This will encrypt the operator passwords in your database.

6. With Data Mover still in bootstrap mode, run the msgtlsupg.dms Data Mover script in the *PS_HOME*\scripts directory.

This will update the PeopleSoft PeopleTools messages in your database.

7. If you are applying a required for install PeopleSoft PeopleTools patch, invoke Data Mover in user mode and run *PS_HOME*\scripts\PTPATCH.DMS.
8. With Data Mover still in user mode, run the storedddl.dms Data Mover script in the *PS_HOME*\scripts directory.

Note. Comment out the other platform-specific scripts according to your platform.

This will update your platform-specific DDL model statements.

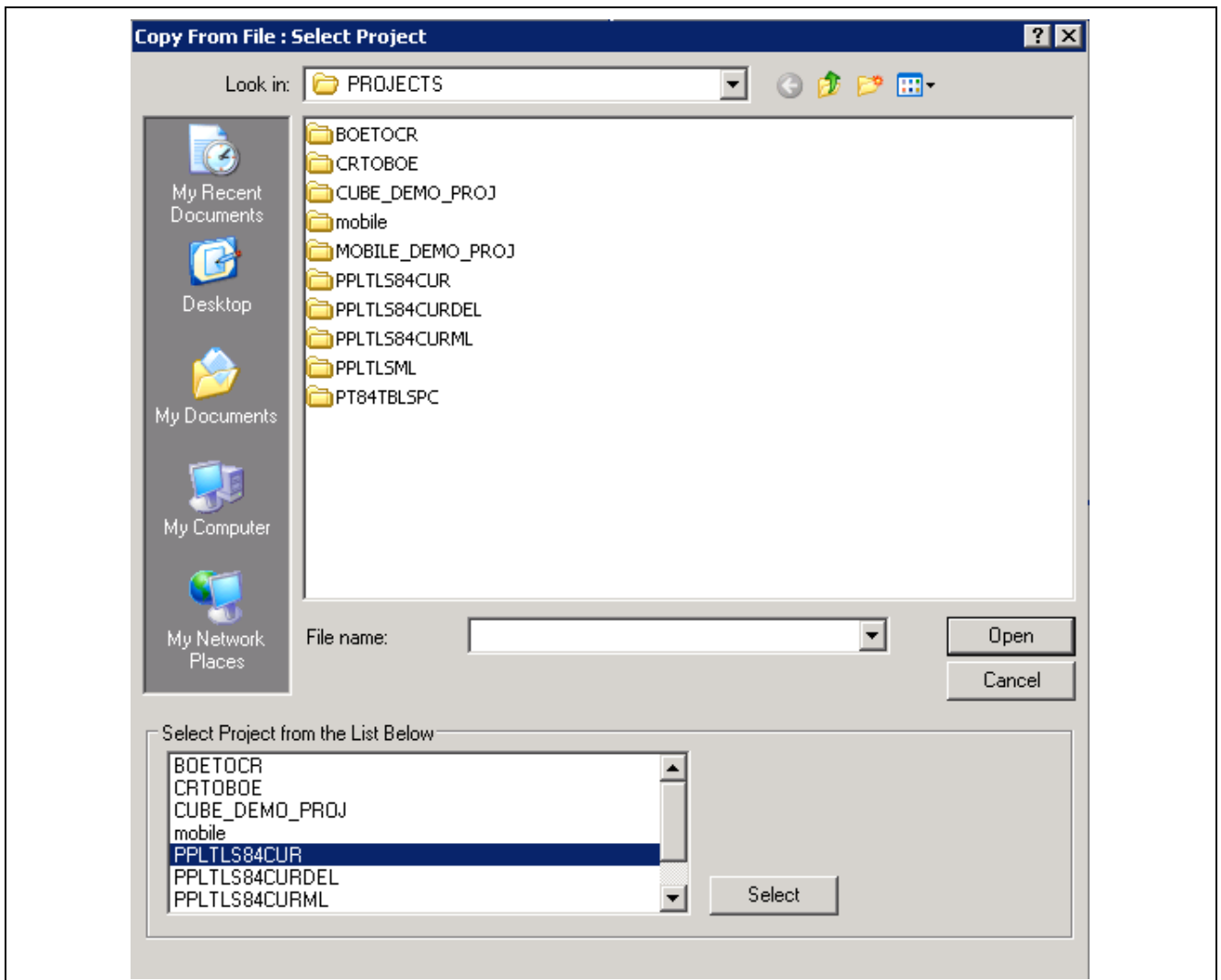
Task 7-2-3: Updating PeopleTools Database Objects

To update PeopleSoft PeopleTools database objects to the current release you must be in Application Designer. The Copy from File functionality lets you update your PeopleSoft PeopleTools database objects from a file. You must perform this step to bring the database objects in sync with the PeopleSoft PeopleTools release. Failure to run this step will introduce problems to your environment.

To update PeopleSoft PeopleTools database objects:

1. Launch Application Designer and sign on to your database with a valid PeopleSoft user ID.
2. Select Tools, Copy Project, From File.
3. In the resulting dialog box, change the import directory to *PS_HOME*\projects, select PPLTLS84CUR from the list of projects and click the Select button.

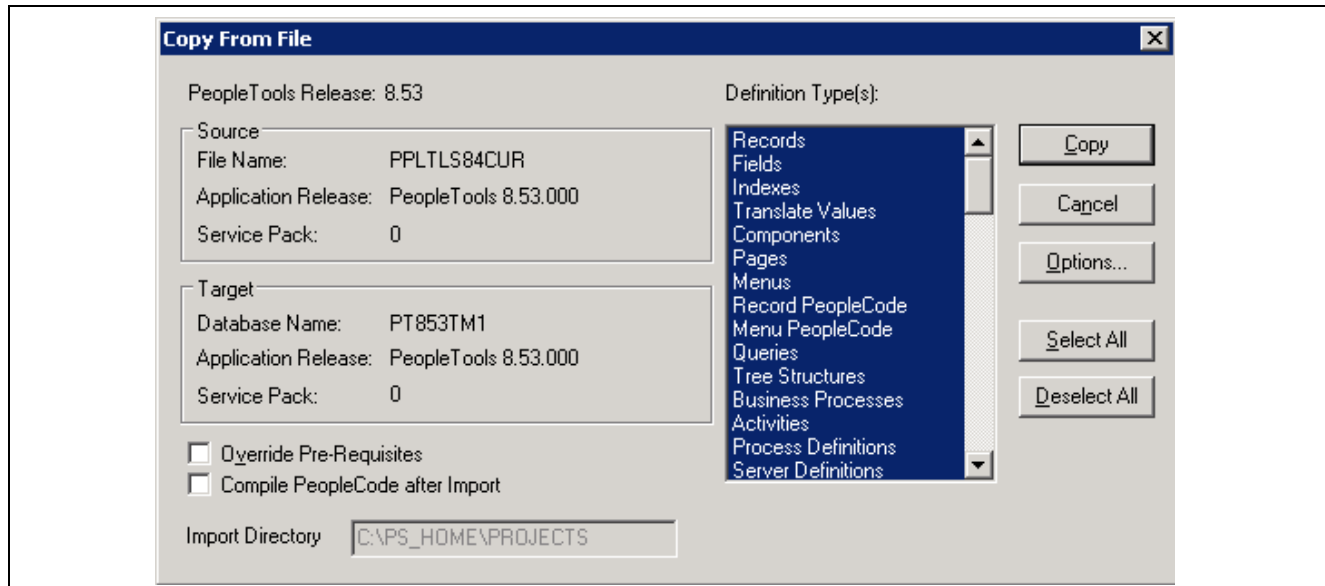
Note. If the project already exists on the database, a confirmation dialog box appears asking if you want to overwrite the existing project. Select the File radio button and click OK to overwrite the existing project.



Selecting Project PPLTLS84CUR in the Copy From File dialog box

4. The Copy From File dialog box appears.

Select all object types and then click the Copy button. When the progress window disappears, the project has been copied.



The Copy From File dialog box showing that PPLTLS84CUR will be copied

If you see the following types of messages in the output window do not worry; they are acceptable because the field label properties were copied with the object definition:

- Definition Name: OPERPSWD.OPERPSWD not copied, entire definition already copied (62,32).
- Definition Name: OPRID.NEW not copied, entire definition already copied (62,32).

Task 7-2-4: Updating PeopleTools Multilingual Objects

If you are currently updating a PeopleSoft Multilingual Database, you must also apply the project PPLTLS84CURML, which contains the translations of the PeopleSoft PeopleTools Objects.

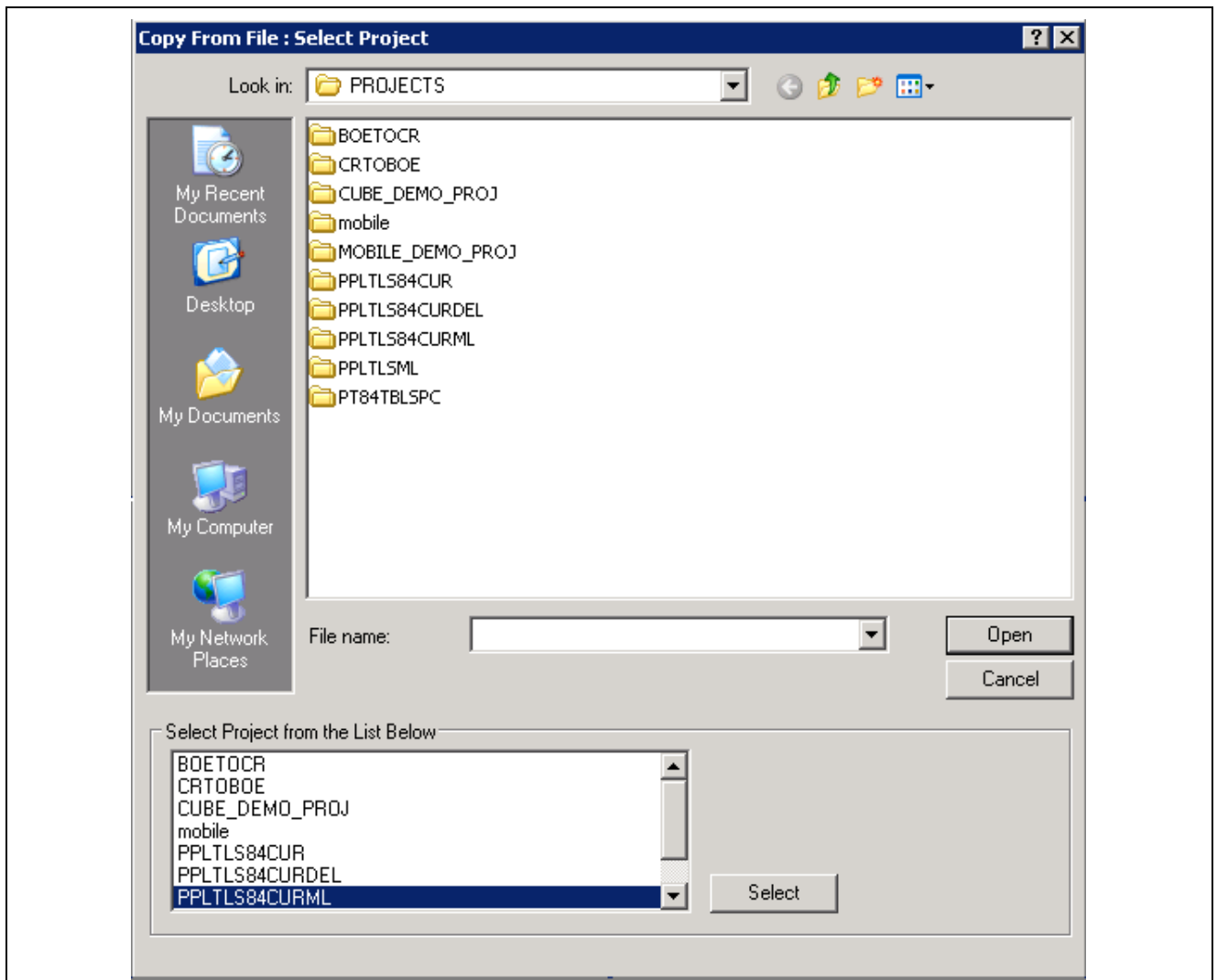
Note. If you have licensed and installed French into this database, copy the PPLTLSML project instead of the PPLTLS84CURML project for French *only*. Substitute the project name PPLTLSML instead of PPLTLS84CURML in the instructions below. Copy the PPLTLS84CURML project to update any non-French languages that are installed in the database.

To update PeopleSoft PeopleTools database objects to the current release you must be in Application Designer. The Copy from File functionality lets you update your PeopleSoft PeopleTools database objects from a file.

To apply the translation project for PeopleSoft PeopleTools 8.53:

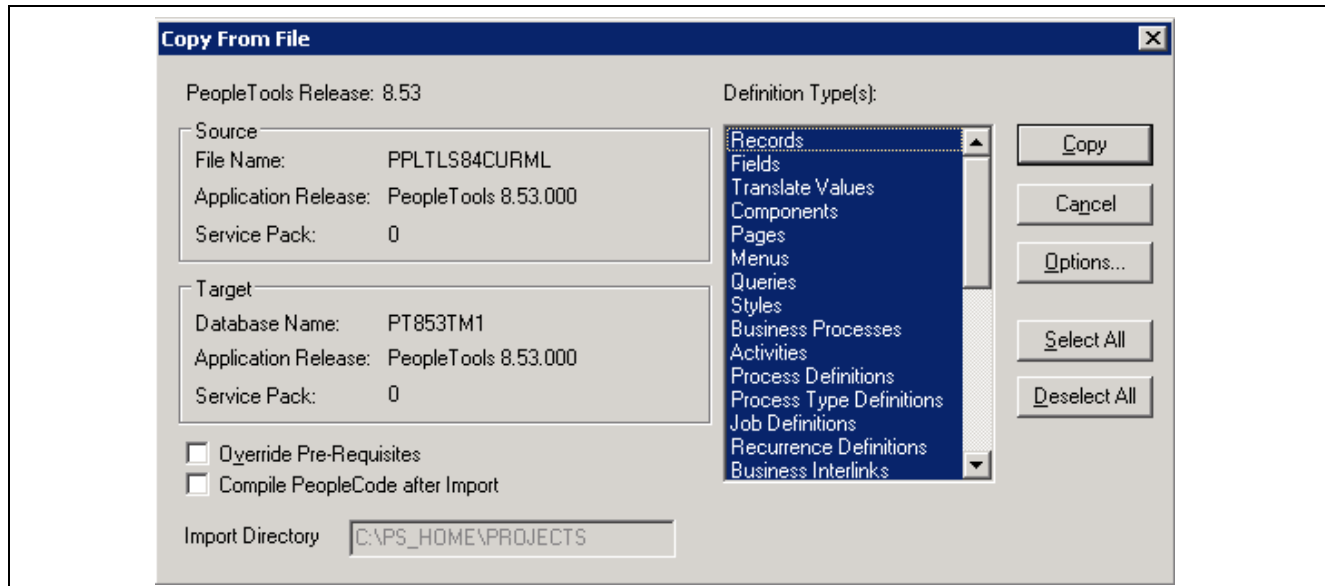
1. Bring up the Configuration Manager and select the Display tab.
Ensure that the language matches the base language of your database. Always run upgrade copy as a base language user.
2. Launch Application Designer and sign on to your database with a valid PeopleSoft user ID.
3. Select Tools, Copy Project, From File.
4. In the resulting dialog box, change the import directory to *PS_HOME*\projects.
5. Select PPLTLS84CURML from the list of projects and click the Select button.

Note. If the project already exists on the database, a confirmation dialog box appears asking if you want to overwrite the existing project. Select the File radio button and click OK to overwrite the existing project.



Selecting Project PPLTLS84CURML in the Copy From File dialog box

6. The Upgrade Copy dialog box appears.
Make sure that all object types are selected.
7. Click the Options button, select the Copy Options tab, and ensure that only the non-English languages you have installed are selected.
Please note that English and Common should *not* be selected.
8. Select the languages that you are currently installing from the Copy Options dialog box.
9. Click the Copy button.



The Copy From File dialog box showing that PPLTLS84CURML will be copied

When the progress dialog box disappears, the project has been copied.

Task 7-2-5: Deleting Obsolete PeopleTools Database Objects

This process removes obsolete PeopleSoft PeopleTools objects from your database. To update PeopleSoft PeopleTools database objects to the current release you must be in Application Designer. You will use the Copy from File functionality to delete the obsolete objects from the database.

The copy process detects whether any deleted fields are in use on other objects, such as records. You may see the following kind of warning during the copy:

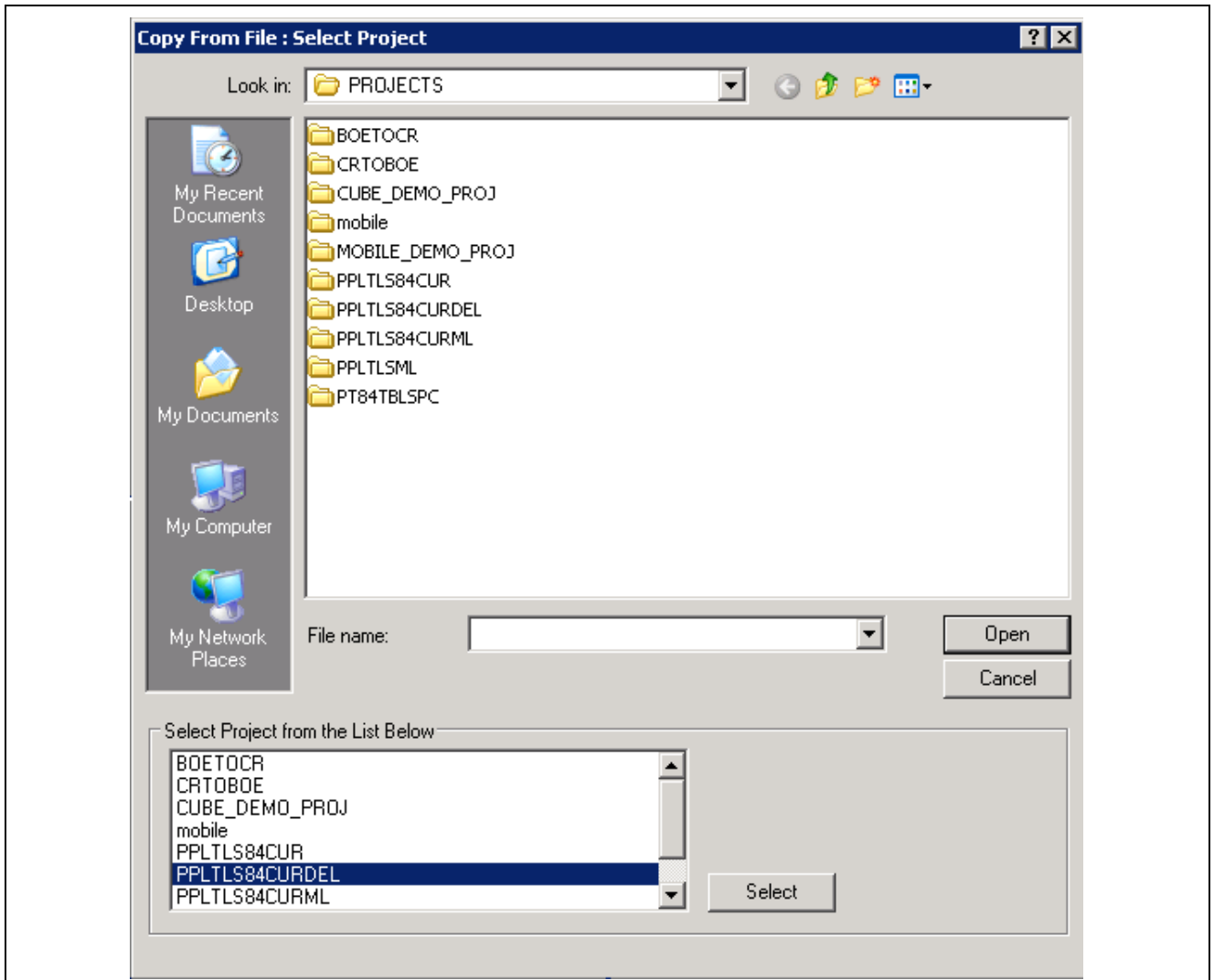
Field <FIELDNAME> is in use on at least one record.

You must clean up any objects that reference the deleted field(s) after the upgrade. While PeopleTools has deleted the field as part of the new release, you may still have objects that reference this deleted field. After fixing any objects that reference this field, delete the field from your system.

To delete obsolete PeopleSoft PeopleTools database objects:

1. Launch Application Designer and sign on to your database with a valid PeopleSoft user ID.
2. Select Tools, Copy Project, From File.
3. In the resulting dialog box, change the import directory to *PS_HOME\projects*, select PPLTLS84CURDEL from the list of projects and click Select.

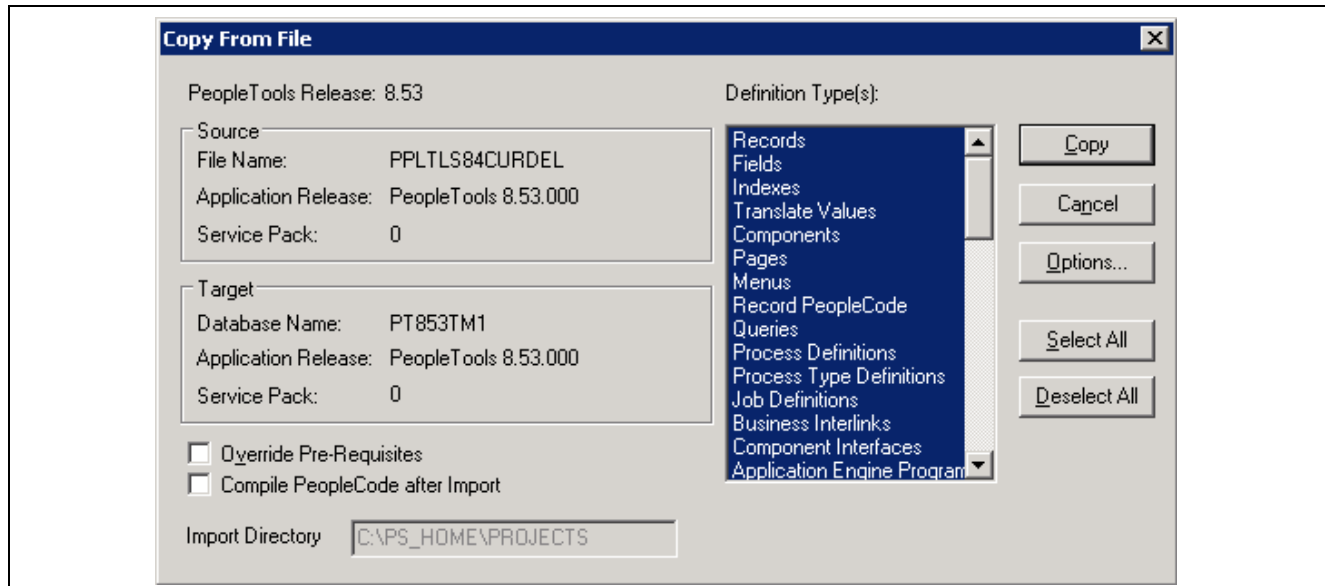
Note. If the project already exists on the database, a confirmation dialog box appears asking if you want to overwrite the existing project. Select the File radio button and click OK to overwrite the existing project.



Selecting Project PPLTLS84CURDEL in the Copy From File dialog box

4. The Copy From File dialog box appears.

Select all object types and click the Copy button. When the progress dialog box disappears, the project has been copied.



The Copy From File dialog box showing that PPLTLS84CURDEL will be copied

Note. If you have a multilingual database, do not change the languages that are selected by default.

Task 7-2-6: Applying Patched PeopleTools Database Objects

If you are applying a required for install PeopleSoft PeopleTools patch and *if a database project is included as part of the patch*, apply the database project(s) now. Make sure you apply all projects that are appropriate for your environment, including multilingual (ML) projects, if necessary. Make sure to read the patch release notes to find out if database changes are in the patch.

To update patched PeopleSoft PeopleTools database objects to the current release you must be in Application Designer. The Copy from File functionality lets you update your PeopleSoft PeopleTools database objects from a file. You must perform this step to bring the database objects in sync with the PeopleSoft PeopleTools patch release. Failure to run this step will introduce problems to your environment.

To apply patched PeopleSoft PeopleTools database objects:

1. Launch Application Designer and sign on to your database with a valid PeopleSoft user ID.
2. Select Tools, Copy Project, From File.
3. In the resulting dialog box, change the import directory to *PS_HOME*\projects, select the patch project from the list of projects and click the Select button.
4. Follow the patch instructions to select the correct copy options. Select all object types and then click the Copy button.

When the progress window disappears, the project has been copied.

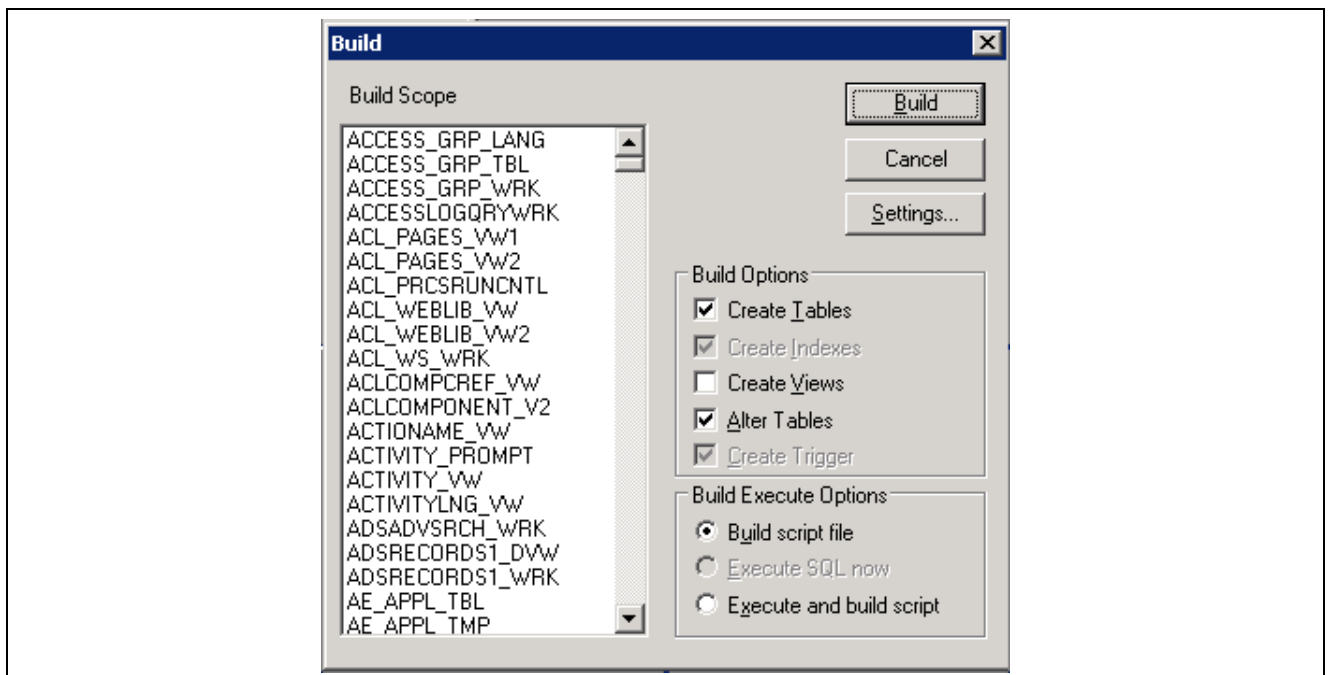
Task 7-2-7: Altering PeopleTools Tables

Use the ALTER AUDIT process in this step to check whether the PeopleSoft PeopleTools tables are synchronized with the underlying SQL data tables in your database. This step uses a delivered project to compare the data structures of your database tables with the PeopleSoft PeopleTools tables to uncover inconsistencies. The ALTER AUDIT process then reports its findings. At this point in the installation, we expect to see differences between the database structure and the PeopleSoft PeopleTools tables. You will generate and run a SQL script to synchronize the PeopleSoft PeopleTools table definitions with the underlying tables in your database.

To alter PeopleSoft PeopleTools tables:

1. Launch Application Designer with a valid PeopleSoft user ID and sign on to the installed database.
2. Select File, Open.
3. Select *Project*, enter *PPLTLS84CUR* in the name dialog box, and click OK.
4. Select Build, Project.

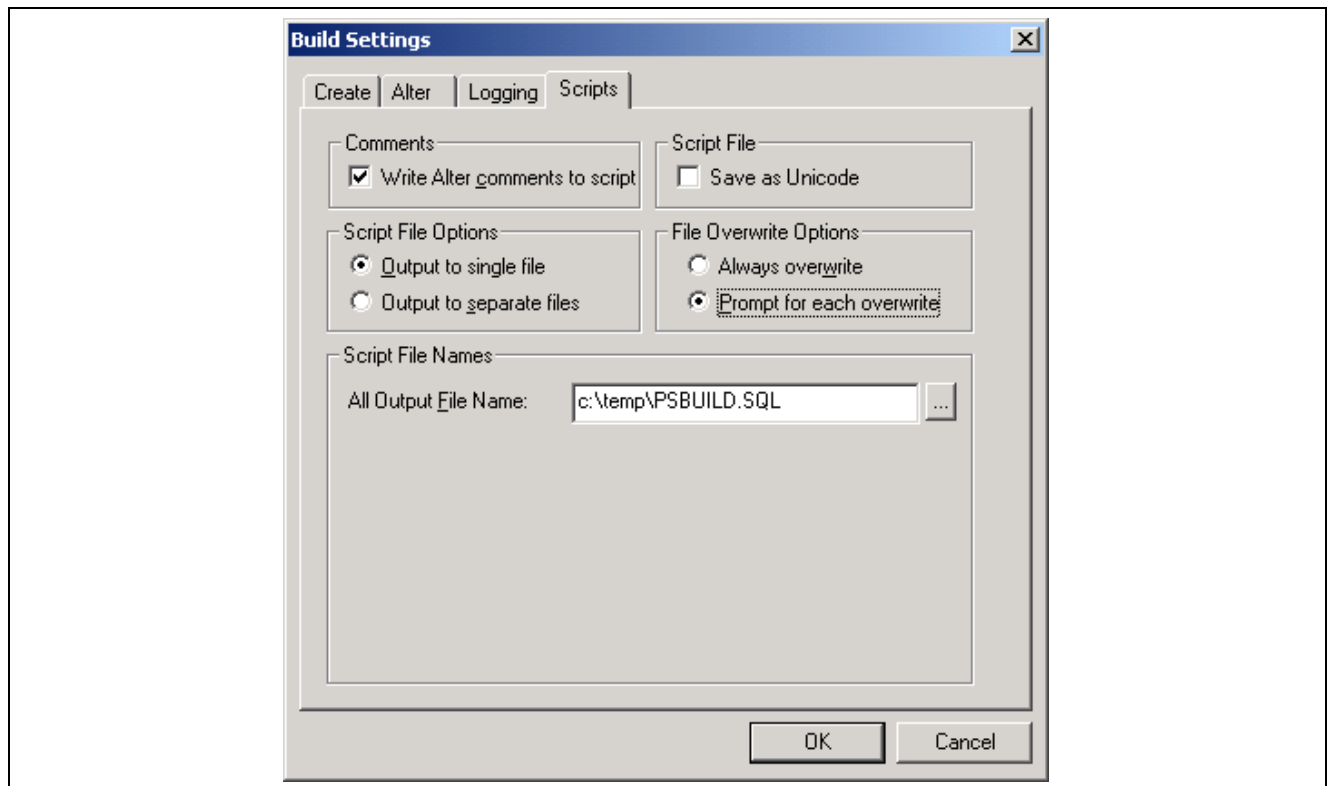
The Build dialog box appears:



The Build dialog box with selections for altering tables

5. Select Create Tables and Alter Tables in the Build Options region as shown in the example above (Create Indexes and Create Trigger will automatically be selected).
6. Select Build script file in the Build Execute Options region.
7. Click Settings.

The Build Settings dialog box appears:

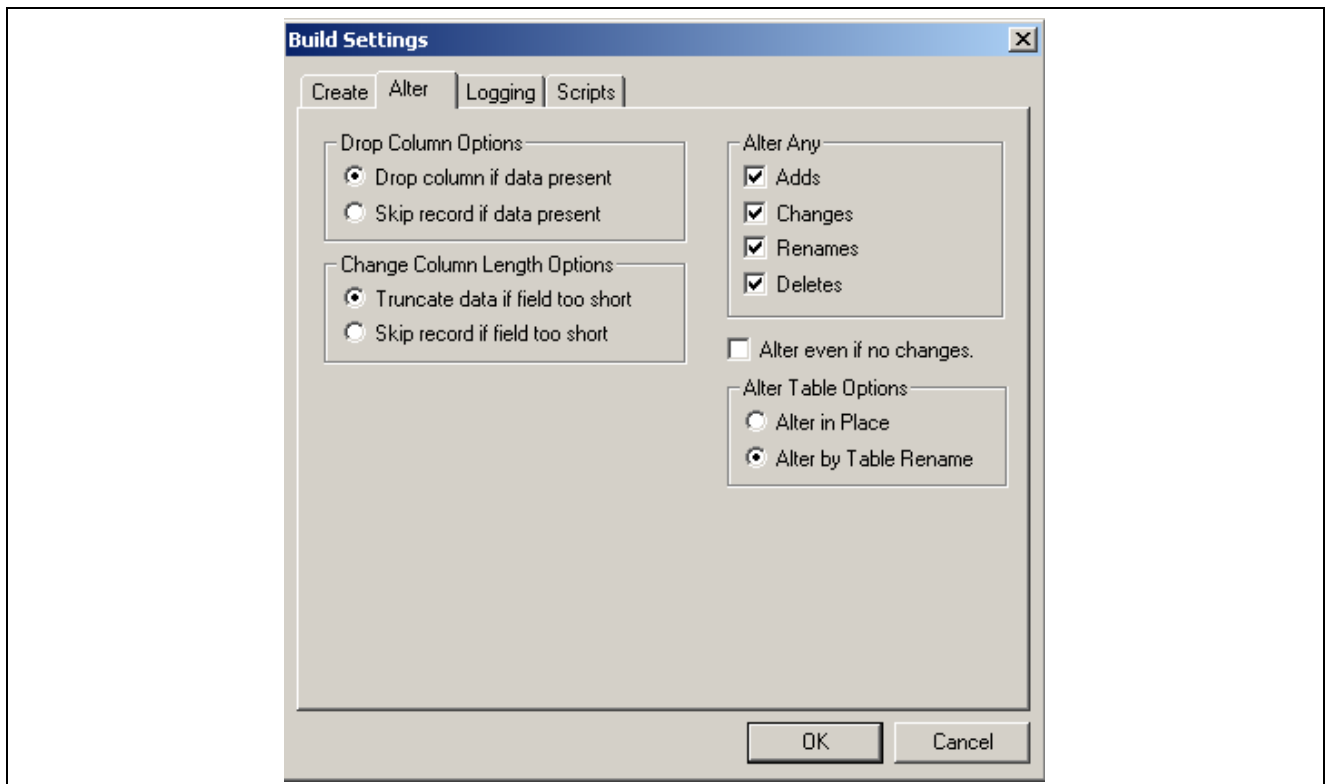


Build Settings dialog box: Scripts tab

8. Select the Scripts tab.
9. Select Write Alter comments to script.
10. Select the Alter tab and ensure that the Adds, Changes, Renames, and Deletes check boxes are selected in the Alter Any region.

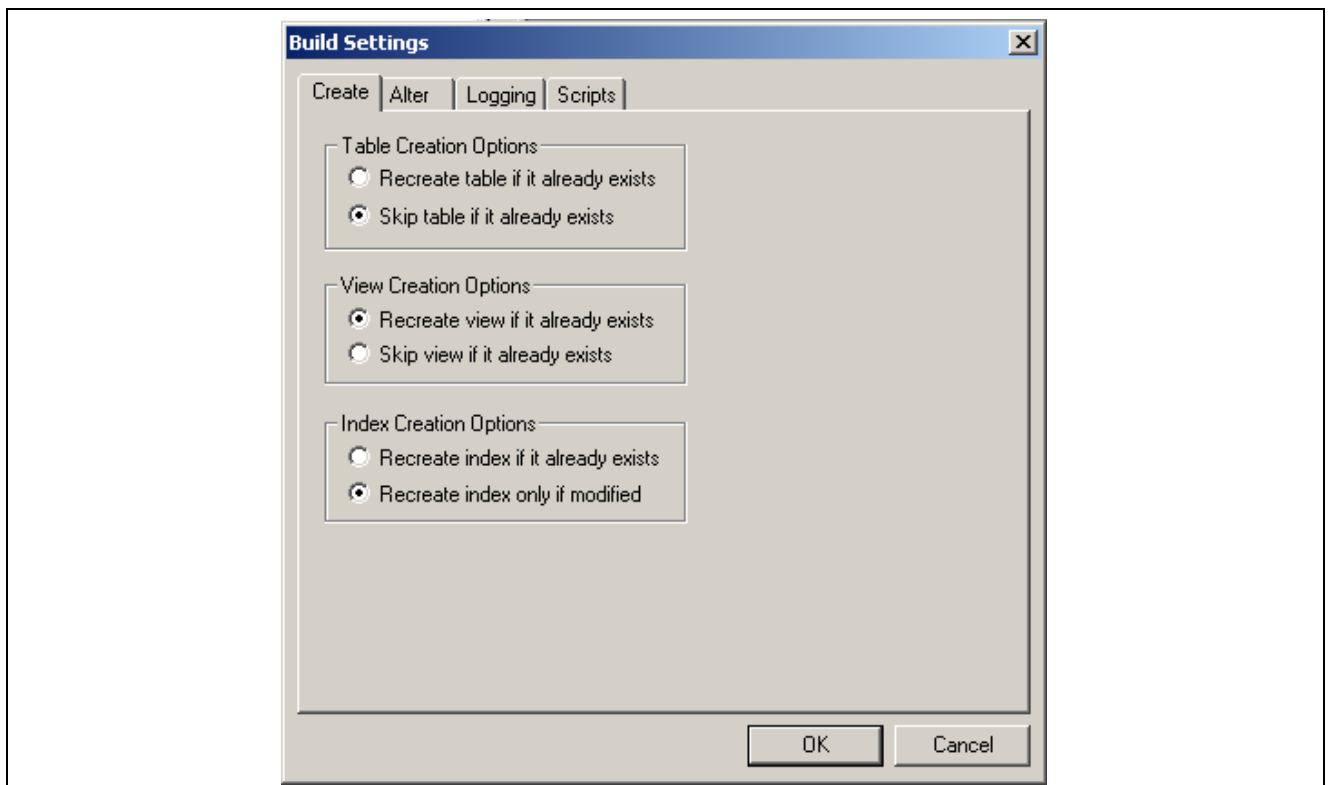
Drop column if data present should be selected in the Drop Column Options region, and Truncate data if field too short should be selected in the Change Column Length Options region.

Make sure that the option Alter by Table Rename is selected in the Alter Table Options region.



Build Settings dialog box: Alter tab

11. Select the Create tab and ensure that the Skip table if it already exists, Recreate view if it already exists, and Recreate index only if modified options are selected.



Build Settings dialog box: Create tab

12. Click OK.

The Build dialog box reappears.

13. Click Build.

14. Click Close when the process is completed.

15. Run the generated SQL script in your platform-specific query tool to bring your database structure in sync with the PeopleSoft PeopleTools tables.

Task 7-2-8: Updating PeopleTools System Data

Data Mover scripts that update PeopleSoft PeopleTools system data are run to enable new features and load new messages for the PeopleSoft PeopleTools 8.53 release. Several of the scripts that you need to run are dependent upon the version of the application you are running.

See Understanding Database Updates.

To update PeopleSoft PeopleTools system data:

1. Invoke Data Mover by running *PS_HOME\bin\client\winx86\psdmt.exe*.

The PeopleSoft Logon window appears.

2. Log on using the ACCESSID you specified when you created your Data Mover scripts with the Database Setup program.

This will start Data Mover in bootstrap mode.

3. Run the appropriate Data Mover scripts for your application database version.

The application database version refers to the version before you started this step. Be sure to run the scripts in the order listed. The scripts are found in the *PS_HOME\scripts* directory:

Application Database Version	Scripts to Run
8.40	pt841tls, pt842tls, pt843tls, pt844tls, pt845tls, pt846tls, pt847tls, pt848tls, pt849tls, pt850tls, pt851tls, pt852tls, and pt853tls
8.41	pt842tls, pt843tls, pt844tls, pt845tls, pt846tls, pt847tls, pt848tls, pt849tls, pt850tls, pt851tls, pt852tls, and pt853tls
8.42	pt843tls, pt844tls, pt845tls, pt846tls, pt847tls, pt848tls, pt849tls, pt850tls, pt851tls, pt852tls, and pt853tls
8.43	pt844tls, pt845tls, pt846tls, pt847tls, pt848tls, pt849tls, pt850tls, pt851tls, pt852tls, and pt853tls
8.44	pt845tls, pt846tls, pt847tls, pt848tls, pt849tls, pt850tls, pt851tls, pt852tls, and pt853tls
8.45	pt846tls, pt847tls, pt848tls, pt849tls, pt850tls, pt851tls, pt852tls, and pt853tls
8.46	pt847tls, pt848tls, pt849tls, pt850tls, pt851tls, pt852tls, and pt853tls
8.47	pt848tls, pt849tls, pt850tls, pt851tls, pt852tls, and pt853tls
8.48	pt849tls, pt850tls, pt851tls, pt852tls, and pt853tls
8.49	pt850tls, pt851tls, pt852tls, and pt853tls

Application Database Version	Scripts to Run
8.50	pt851tls, pt852tls, and pt853tls
8.51	pt852tls and pt853tls
8.52	pt853tls
8.53	None

4. Run the pslanguages.dms Data Mover script in the *PS_HOME*\scripts directory.
This script loads language-specific seed data.
5. Run the tlsupgnoncomp.dms Data Mover script in the *PS_HOME*\scripts directory.
This will import the updated PeopleSoft PeopleTools Trees, Roles, and Access Groups into your database.
6. If you are a Multilingual customer, from the Data Mover script that was created for your PeopleSoft database installation, find the UPDATE to PSLANGUAGES.

The statement should look similar to the following, where *xxx* is one of the PeopleSoft three-letter language code identifiers, as described earlier:

```
UPDATE PSLANGUAGES SET INSTALLED=1 WHERE LANGUAGE_CD = 'xxx';
```

See "Preparing for Installation," Planning Multilingual Strategy.

Run the SQL command identified above using your SQL tool.

7. Open Data Mover using a valid PeopleSoft Operator ID, such as PS for Human Capital Management or VP1 for Financials/Supply Chain Management.
8. If you are a Multilingual customer and have licensed non-English languages, run the pt853tlsxxx.dms scripts in the *PS_HOME*\scripts directory.

This will update the language-specific PeopleSoft PeopleTools system data in your database.

Note. The portion of the script name *xxx* is equivalent to the language code (that is, FRA, CFR, GER, JPN, and so on) of the non-English languages you have installed. There will be a Data Mover script for each non-English language.

9. Run the msgtleng.dms Data Mover Script in the *PS_HOME*\scripts directory.
Non-English message data was loaded in the pt853tlsxxx.dms scripts. This will update the messages in your database.
10. Run the ptstreng.dms Data Mover script in the *PS_HOME*\scripts directory.
Non-English system data was loaded in the pt853tlsxxx.dms scripts. This will update the SQR strings in your database.
11. Run the storept.dms Data Mover script in the *PS_HOME*\src\cbl\base directory.
This will update your PeopleSoft PeopleTools COBOL stored statements.
12. Run the ptdefnsec.dms Data Mover script in the *PS_HOME*\scripts directory.
This will update the PeopleSoft PeopleTools Definition Security group.
13. Run the createvw.dms Data Mover script in the *PS_HOME*\scripts directory.
This will recreate all the views in your database.

Task 7-2-9: Running PeopleTools Conversions

This section discusses:

- Understanding Usage of Application Engine Programs
- Converting Portal Objects
- Converting Query Headings
- Converting Setup Manager
- Converting Navigation Collection and Pagelet Wizard Data
- Converting Additional Pagelet Wizard Data
- Populating the Feed Options Table
- Updating Feeds for Active Data Guard
- Updating Web Profiles
- Updating Chart and Grid Filters
- Populating the Hash Values

Understanding Usage of Application Engine Programs

You run several Application Engine programs in this section. For information on Application Engine, including how to use and restart Application Engine programs, consult the Application Engine documentation.

See *PeopleTools: Application Engine*.

Converting Portal Objects

Perform this step if the application database you are installing is PeopleSoft PeopleTools 8.43 or earlier. The Application Engine program UPG844PORTAL splits PSPRSMDEFN.PORTAL_URLTEXT into segments. This is performed for PeopleSoft Components URLs to extract Menu, Component, and Market information. Record, Field, Event, and Function Names are extracted from Iscript URLs. This program must be run by a PeopleSoft user with the Portal Administrator or PeopleSoft Administrator role. The following SQL will identify which users have the PeopleSoft Administrator or Portal Administrator roles:

```
select ROLEUSER, ROLENAME from PSROLEUSER where ROLENAME in ('PeopleSoft⇒
Administrator','Portal Administrator')
```

Run the UPG844PORTAL Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT MICROSOFT -CO <oprid> -CP <pswd> -⇒
R INSTALL -AI UPG844PORTAL
```

Use the values for the database name and user ID that you entered on the startup tab of the Configuration Manager for <dbname> and <oprid>, respectively. However, be aware that <pswd> is not the same as the connect password that you entered on the Configuration Manager startup tab. Enter a value for <pswd> that is the password you want to be associated with the <oprid>.

See "Setting Up the Install Workstation."

You may see some of the following errors when running this Application Engine program:

- Not authorized CRef: <Portal Object Name> (95,5032).

This means that you do not have proper privileges to run this conversion. The user ID that you are using to run this conversion needs to have Portal Administrator permissions.

- Security synchronization failed for Portal Object: <Portal Object Name> (96,61).

This is not a fatal error. It may be caused by a content reference that contains invalid URL text and indicates that there was an internal error writing to the security table. The invalid URL text may be pointing to a component or script that does not exist in the database. If you receive this error, search the Patches and Downloads section of My Oracle Support for Required at Install patches for your application and apply the patches after installing your database.

- Cref <Portal Object Name> points to Menu: <Menu Name>, Component <Component Name> which doesn't exist. (96,80).

The content reference is pointing to an invalid Menu/Component combination. If you receive this error, search the Patches and Updates section of My Oracle Support for Required at Install patches for your application and apply the patches after installing your database.

See "Preparing for Installation, " Reviewing Patches and Updates Required at Installation.

See *PeopleTools: PeopleSoft Portal Technology*.

Converting Query Headings

Perform this step if the application database you are installing is PeopleSoft PeopleTools 8.43 or earlier. Crystal Reports when run through Process Scheduler will not handle queries with two or more prompts that have the same heading. These duplicates are also not legal in Query. Any old queries that have this condition need to be altered to work with Crystal. This Application Engine program searches for duplicate prompt headings in the table PSQRYBIND and appends numbers onto the text. For example "Item ID" would become "Item ID 2".

Run the UPGQRYDUPHED Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT MICROSOFT -CO <oprid> -CP <pswd> ->
R INSTALL -AI UPGQRYDUPHED
```

Note. If a duplicate heading is found that will exceed the length of the field HEADING, the heading will need to be manually changed. The following error will be written to the log file in these cases :

The prompt heading <HEADING> for Query <QUERY> is duplicated.
Please manually correct. (108, 1108)

See *PeopleTools: PeopleSoft Query*.

Converting Setup Manager

Perform this step if the application database you are installing is PeopleSoft PeopleTools 8.45 or earlier. The application engine program UPGPTSMDAT upgrades Setup Manager Version 1 (shipped with Fin SCM 8.8, CRM 8.9, and with HCM 8.9) to Setup Manager Version 2 (shipped with PeopleSoft PeopleTools 8.46 and above). The program moves all data from Setup Manager Version 1 tables to Version 2 tables.

The application engine program was designed so that it can be run in any database, and can be rerun in the same database. In either case, it will determine if there is data to convert and run as appropriate. For detailed information, see comments attached to the Steps and Actions in this Application Engine Program within Application Designer. This program must be run by a PeopleSoft user with PeopleSoft Administrator role.

Run the UPGPTSMDAT Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT MICROSOFT -CO <oprid> -CP <pswd> ->
R INSTALL -AI UPGPTSMDAT
```

Converting Navigation Collection and Pagelet Wizard Data

Perform this step if the application database you are installing is PeopleSoft PeopleTools 8.45 or earlier. The application engine program UPGPT846PP adds Navigation Collection and Pagelet Wizard data from the Common Components and PeopleSoft Applications Portal storage tables into PeopleSoft PeopleTools tables.

The application engine program performs the following conversions:

1. Moves data from Common Components tables to PeopleSoft PeopleTools tables.
2. Moves data from PeopleSoft Applications Portal tables to PeopleSoft PeopleTools tables.
3. Updates the registry definitions to enable displaying Navigation pages.
4. Adds, updates, and deletes the Navigation Collections folders and content references in the portal registry to the new structures.
5. Converts Pagelet Wizard definitions to the PeopleSoft PeopleTools Pagelet Wizard version.
6. Renames Navigation Collection and Pagelet Wizard portal registry attributes to the PeopleSoft PeopleTools attribute names.

This program must be run by a PeopleSoft user with the Portal Administrator or PeopleSoft Administrator role.

Run the UPGPT846PP Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT MICROSOFT -CO <oprid> -CP <pswd>=>
-R INSTALL -AI UPGPT846PP
```

You may see the following error when running this Application Engine program:

```
You are not authorized for the <objecttype>...
```

This means that you do not have proper privileges to run this conversion. The user ID that you are using to run this conversion needs to have Portal Administrator permissions.

You can ignore any other errors encountered on Oracle-delivered objects at this time. Check the Patches and Downloads section of My Oracle Support for Required at Install patches for your application and apply the patches after installing your database. You can safely rerun UPGPT846PP to check for any remaining errors after applying patches.

Converting Additional Pagelet Wizard Data

Perform this step if the application database you are installing is PeopleSoft PeopleTools 8.47 or earlier. The application engine program UPGPT848PP adds the following Pagelet Wizard data sources from PeopleSoft Applications Portal to PeopleSoft PeopleTools: IB Connector, Integration Broker, SOAP, and URL. In addition, the application program transforms the WSRP Portlets created in PeopleSoft PeopleTools 8.46 or 8.47 versions of Pagelet Wizard. The process includes the following:

- Move data from PeopleSoft Applications Portal tables to PeopleSoft PeopleTools tables.
- Convert WSRP Portlets created by Pagelet Wizard to the new version.

This program must be run by a PeopleSoft user with the Portal Administrator or PeopleSoft Administrator role.

Run the UPGPT848PP Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT MICROSOFT -CO <oprid> -CP <pswd> -=>
R INSTALL -AI UPGPT848PP
```

You may see the following error when running this Application Engine program:

```
You are not authorized for the <objecttype>...
```

This means that you do not have proper privileges to run this conversion. The user ID that you are using to run this conversion needs to have Portal Administrator permissions.

You can ignore any other errors encountered on Oracle-delivered objects at this time. Check the Patches and Downloads section of My Oracle Support for Required at Install patches for your application and apply the patches after installing your database. You can safely rerun UPGPT848PP to check for any remaining errors after applying patches.

Populating the Feed Options Table

The Application Engine program UPGPT850PTFP populates the feed options table PS_PTFP_OPTIONS if it is empty.

Run the UPGPT850PTFP Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT MICROSOFT -CO <oprid> -CP <pswd> -=>
R INSTALL -AI UPGPT850PTFP
```

Updating Feeds for Active Data Guard

The Application Engine program UPGPT852PTFP updates Service Operations used by Feeds for Active Data Guard support.

Run the UPGPT852PTFP Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT MICROSOFT -CO <oprid> -CP <pswd> -=>
R INSTALL -AI UPGPT852PTFP
```

Updating Web Profiles

The Application Engine Program UPGPTWBPFNVP migrates the web profile properties from the PT_PROPVALUE field to the PT_LPROPVALUE field for the PSWEBPROFNVP record.

Run the UPGPTWBPFNVP Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT MICROSOFT -CO <oprid> -CP <pswd> -=>
R INSTALL -AI UPGPTWBPFNVP
```

Updating Chart and Grid Filters

The Application Engine program UPGPTPGFLRS upgrades the Pivot Grid and chart filters from the PSPGVIEWOPT record into the new long filter fields. The grid filters are updated in the PTPG_FLRS_GRID_EX field on the PSPGVIEWOPT record and the chart filters are updated in the PTPG_FLRS_CHART_EX field on the PSPGCHRTFLRSOPT record.

Run the UPGPTPGFLRS Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT MICROSOFT -CO <oprid> -CP <pswd> -=>
R INSTALL -AI UPGPTPGFLRS
```

Populating the Hash Values

The Application Engine program UPGPTHASH populates the hash columns on PSPCMTEXT and PSSQLHASH if they are empty.

Run the UPGPTHASH Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT MICROSOFT -CO <oprid> -CP <pswd> -=>
R INSTALL -AI UPGPTHASH
```

Task 7-2-10: Converting Integration Broker

This section discusses:

- Updating Integration Broker Defaults
- Creating Integration Broker Objects
- Saving Application Messaging Objects
- Exporting Node Transactions
- Deleting Application Messaging Objects
- Deleting Node Transactions

If your database is delivered with PeopleSoft PeopleTools 8.48 or higher, do *not* run this task since the database is already delivered with the new Integration Broker objects as of PeopleSoft PeopleTools 8.48. Instead, proceed to Running Additional PeopleTools Conversions.

Updating Integration Broker Defaults

User-level node security and transactional security have been added as of PeopleSoft PeopleTools 8.48. Service namespace information, a low-level user on the node, and a low-level permission list for service operations, need to be specified. Edit *PS_HOME*\scripts\ptibupgrade.dms and make the necessary modifications as documented in the script. Consult with your Integration Broker specialist for assistance.

Open Data Mover using a valid PeopleSoft Operator ID and run this script.

Creating Integration Broker Objects

The application engine program UPGPT848IBUG converts Application Package metadata into Integration Broker metadata. It also creates the projects PTUPGIBCLONE and PTUPGIBDELETE, and the script ptupg_trx.dms.

Note. Conversion errors in the Application Engine log file will be resolved by applying application-specific Required for Install patches.

Run the UPGPT848IBUG Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT MICROSOFT -CO <oprid> -CP <pswd> -=>
```

```
R INSTALL -AI UPGPT848IBUG
```

Saving Application Messaging Objects

The PTUPGIBCLONE project was created by the UPGPT848IBUG Application Engine program and contains objects that were successfully converted. Copy this project to a directory of your choice where it will not be overwritten. The objects are copied to file as a precautionary measure since you will delete them from the database in a subsequent step.

To save Application Messaging Objects:

1. Launch Application Designer and sign on to your database with a valid PeopleSoft user ID.
2. From the Application Designer, select File, Open.
3. Select Project, enter *PTUPGIBCLONE* in the name dialog box, and click OK.
4. Select Tools, Copy Project, To File.
5. In the resulting dialog box, change the export directory to one of your choice, and click Copy.

When the progress dialog box disappears, the project has been copied to the specified location.

Exporting Node Transactions

Open Data Mover using a valid PeopleSoft Operator ID and run the script *PS_HOME\scripts\ptupg_trx_export.dms* to save the old pre-conversion node transaction data.

Deleting Application Messaging Objects

Delete the obsolete pre-conversion object definitions from the database by first copying the PTUPGIBDELETE project to file, and then copying the same project from file. This project was created by the UPGPT848IBUG Application Engine program and contains the same objects as PTUPGIBCLONE.

To delete Application Messaging Objects:

1. Launch Application Designer and sign on to your database with a valid PeopleSoft user ID.
2. From the Application Designer, select File, Open.
3. Select Project, enter *PTUPGIBDELETE* in the name dialog box, and click OK.
4. Select Tools, Copy Project, To File.
5. In the resulting dialog box, change the export directory to the same one you used for PTUPGIBCLONE, and click Copy.

When the progress dialog box disappears, the project has been copied to the specified location.

6. Select Tools, Copy Project, From File.
7. In the resulting dialog box, change the import directory to the previously specified directory, select PTUPGIBDELETE from the list of projects, and click Select.

Note. Because the project already exists on the database, a confirmation dialog box appears asking if you want to overwrite the existing project. Select the File radio button and click OK to overwrite the existing project.

8. Select all object types and click the Copy button.

When the progress dialog box disappears, the project has been copied. The actions in the project are set to Delete, so this will delete the obsolete pre-conversion object definitions from the database.

Deleting Node Transactions

The script ptupg_trx.dms is generated by the UPGPT848IBUG Application Engine program. This script can be found in the location specified in the OUTPUT variable set in Configuration Manager.

To view the OUTPUT variable:

1. Open Configuration Manager.
2. Select the Profile tab.
3. Click Edit to open the Default profile.
4. Select the Process Scheduler tab.
5. Examine the Output Directory value.

Open Data Mover using a valid PeopleSoft Operator ID and run this script to remove obsolete node transaction data associated with the obsolete objects in the PTUPGIBDELETE project.

Task 7-2-11: Running Additional PeopleTools Conversions

The Application Engine program UPGPTSERVOPR converts WSDL and Schema data.

Run the UPGPTSERVOPR Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT MICROSOFT -CO <oprid> -CP <pswd> -=>  
R INSTALL -AI UPGPTSERVOPR
```

Task 7-3: Running Additional Data Mover Scripts

To import additional data for your specific PeopleSoft database, or to make other required changes, you may need to run additional Data Mover scripts. These script files have the extension .dms and are sometimes referred to as “DMS scripts.” They are located in the *PS_HOME*\scripts directory of your file server, and need to be run from the file server by means of Data Mover.

For the details on which additional application-specific Data Mover scripts to run, consult your application-specific installation instructions.

If you have installed a language other than English, you may need additional instructions on language-specific Data Mover scripts.

See Installing a Multilingual PeopleTools System Database.

Task 7-4: Installing a Multilingual PeopleTools System Database

This section discusses:

- Understanding the Multilingual Database Project

- Applying the Multilingual Database Project
- Populating the Translated System Data

Understanding the Multilingual Database Project

The information in this section applies if you are installing a multilingual PeopleSoft PeopleTools System database. If not, skip this task and go on to the task “Running VERSION Application Engine Program.” If you are installing an application database (for example, HCM, FSCM, EPM, and so on), you do not need to run this task.

If you are adding a new (Oracle-delivered) language to the PTSYS database, you must execute this step for that language. For example, if you want to add Polish to your current multilingual database, you should install Polish from PPLTLSML so you will get all objects. If you only "upgrade" your database to have Polish using PPLTLS84CURML, you will only get the objects that changed between 8.40 and the current release.

If you are installing a PeopleSoft PeopleTools System database and you want it to be multilingual, you need to perform the steps in the following section after the database has been loaded with Data Mover.

See Applying the Multilingual Database Project.

Note. When you log onto the multilingual database, be sure to select the base language of the database.

Task 7-4-1: Applying the Multilingual Database Project

This procedure describes how to apply the multilingual database project that contains translations of the PeopleSoft PeopleTools objects.

To apply the multilingual database project:

1. Launch Application Designer.
2. Select Tools, Copy Project, From File.
3. In the resulting dialog box, change the import directory to *PS_HOME*\projects.
4. Select *PPLTLSML* from the list of projects and click the Open button.
5. In the Upgrade Copy dialog box, make sure that all object types are selected.
6. Click the Options button, select the Copy Options tab, and ensure that only the non-English languages you have installed are selected.

Please note that English and Common should *not be selected*.

7. Select the languages that you are currently installing from the Copy Options dialog box.
8. Click the Copy button.

(The Reset Done Flags check box will be selected; accept this default.)

Task 7-4-2: Populating the Translated System Data

To populate the translated system data:

Note. You need to run the following script in User mode.

1. Launch Data Mover.
2. Open the pt853tlsx.dms script using File, Open.

3. Select File, Run

Note. The portion of the script name *xxx* is equivalent to the language code (that is, FRA, CFR, GER, JPN, and so on) of the languages you have installed. There will be a Data Mover script for each language.

Task 7-5: Running VERSION Application Engine Program

Run the VERSION Application Engine program on your database. From the command line utility, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT MICROSOFT -CO <userid> -CP=>
<userpswd> -R RESETVERSIONS -AI VERSION
```

Use the values for the database name and user ID that you entered on the startup tab of the Configuration Manager for <dbname> and <userid> respectively. However, be aware that <userpswd> is not the same as the connect password you entered on the Configuration Manager startup tab. Enter a value for <userpswd> that is the password associated with the <userid>.

Note. Do not change the parameter `-R RESETVERSIONS`. This value is required for the run control ID for this task.

See "Setting Up the Install Workstation."

Task 7-6: Running SQR Reports

This section discusses:

- Running SQRs on the Client Workstation
- Creating a Shortcut to Run SQRs

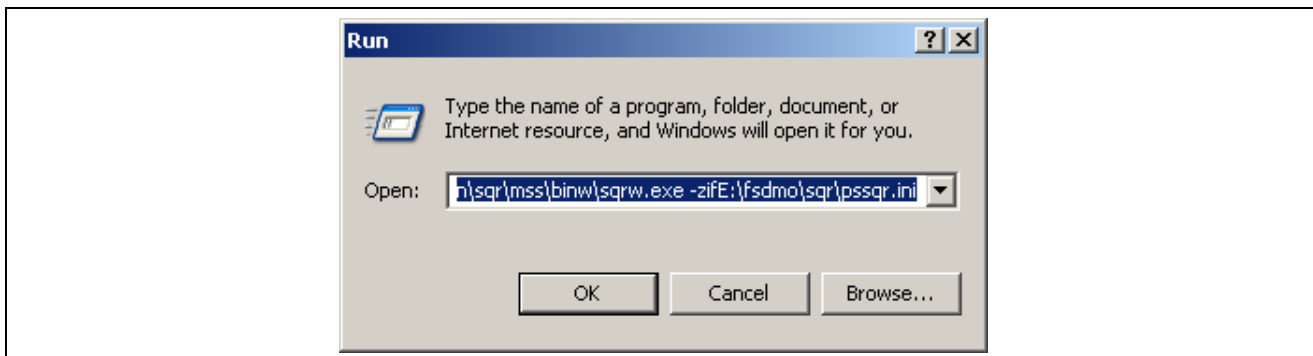
Note. The following instructions describe how to run SQR reports from the client workstation. On the Windows client, you may prefer to create a shortcut to allow you to run the reports repeatedly. You can use these instructions to run SQRs required in the upcoming task "Checking the Database." You can also choose to run SQR reports from the command line in console mode.

Task 7-6-1: Running SQRs on the Client Workstation

To run an SQR on the client workstation:

1. Select Start, Run, click Browse, and navigate to *PS_HOME*\bin\sqr\MSS\binw.
Select *sqrw.exe* and click Open.
2. Add any needed flags at the end of the command line.

Refer to the table that follows. For those flags that require attributes, append the attributes to the flags with no intervening spaces (for example, `-fE:\fsdmo\bin\sqr\pssqr.ini`).



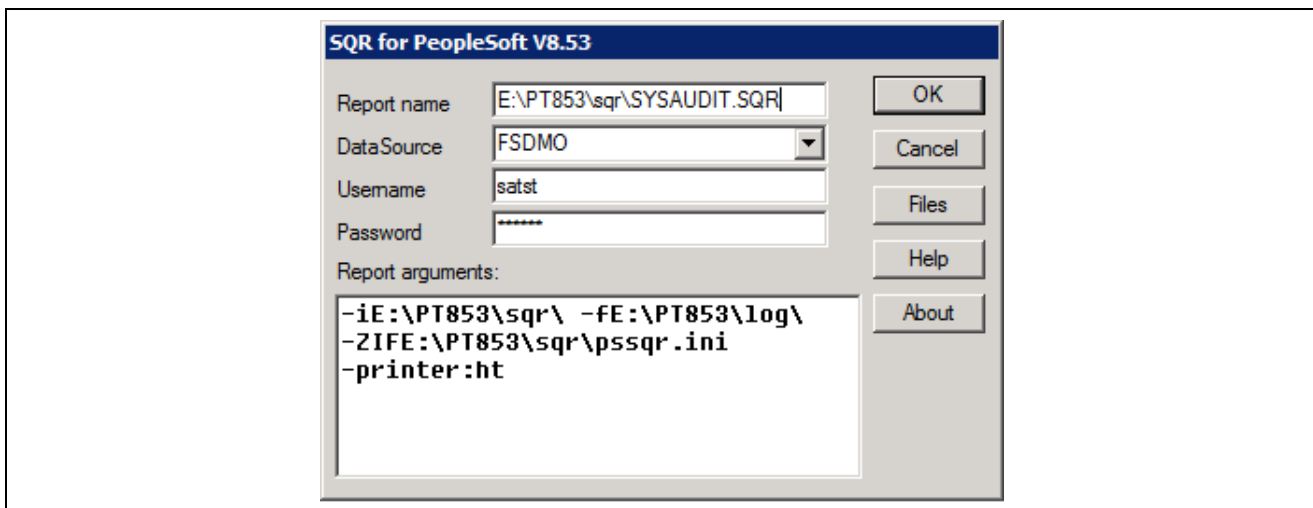
Microsoft Windows Run dialog box launching SQRW

The following table summarizes the SQR report arguments used by PeopleSoft software. (For a full listing of report arguments, press the Help button to view the SQR help topic for this dialog box.)

Flag	Description
-I	Specifies the directories that SQR will search for the #INCLUDE files. (A trailing slash is required.)
-f	Specifies the directory where the report output will be sent. If you use the <code>-keep</code> flag, specify a directory with an ending slash. If you use the <code>-printer</code> flag, specify a full pathname with a filename for the HTML file.
-ZIF	Sets the full path and name of the SQR initialization file. The <code>-ZIF</code> flag should point to your <code>PS_HOME\sqr\pssqr.ini</code> file.
-keep	Keeps the .SPF file after the program runs. This enables you to view the report with the SQR viewer.
-printer:ht	Generates the output file in HTML format. Specify the filename, with path location, with the <code>-f</code> flag.

3. Click OK.

The SQR for PeopleSoft v8.53 dialog box appears, displaying the attributes that you entered in the Run dialog box. The fields on this dialog box are described in the next step:



SQR for PeopleSoft dialog box with SYSAUDIT.SQR

4. Enter the following values:
 - Enter the report name.
You must specify the full path.
 - Enter the database name in the DataSource field.
 - Enter the ACCESSID in the Username field.
 - Enter the access password in the Password field.
5. Click OK to run the SQR report.

Task 7-6-2: Creating a Shortcut to Run SQRs

If you think you may need to run the SQR reports more than once, you may want to create a shortcut on the Windows client workstation. To save the report arguments:

1. Open Windows Explorer on the machine on which you want to run SQR.
2. Navigate to *PS_HOME\bin\sqr\MSS\binw*.
3. Right-click *sqrw.exe* and click Create Shortcut.
4. Right-click the shortcut that you just created and select Properties.
5. On the Shortcut tab, add the same *sqr* flags that you used in the previous task after *sqrw.exe* in the Target entry box.
6. Click OK.
7. To run the report, double-click the shortcut and specify the following information in the dialog box:
 - Report Name: Enter the full path and the name.
 - Data Source
 - Username: Enter the ACCESSID.
 - Password: Enter the access password.
 - Report arguments: Make any necessary modifications to the saved arguments.
8. Click OK.

Task 7-7: Checking the Database

Run and examine the SQR reports to verify that your database is complete.

See Preparing to Run SQR.

To verify that the database is complete, run the following SQR reports from the *PS_HOME\sqr* directory:

- *dddaudit.sqr*
- *sysaudit.sqr*
- *swpaudit.sqr*, if you plan to swap your base language

For further information about these reports, consult PeopleSoft product documentation. This documentation includes specific information on how to interpret the reports and how to fix any errors found there.

It is good practice to run and read the audit reports, which include sysaudit, dddaudit, swpaudit, and alter audit, after making changes such as applying patches, bundles, and upgrades to the database, to make sure that the tables are internally and externally in synch. It is also a good idea to schedule regular maintenance, for example weekly, in which you run and review the reports. You can find information on these audit reports in the *PeopleTools: Data Management* product documentation.

See *PeopleTools: Global Technology*, "Running the Swap Audit Report."

Note. If any records show up in the VIEWS-2 or TABLE-3 section of dddaudit and are contained within the PPLTLS84CURDEL project, you may safely drop these records using the SQL query tool for your platform.

See Also

PeopleTools: Data Management

PeopleTools: System and Server Administration

Task 7-8: Running Alter Audit

Use the ALTER AUDIT process to check whether the PeopleSoft PeopleTools tables are synchronized with the underlying SQL data tables in your database. This process compares the data structures of your database tables with the PeopleSoft PeopleTools tables to uncover inconsistencies. The ALTER AUDIT process then reports its findings. At this point of time in the install, we do not expect to see differences between the database structure and the PeopleSoft PeopleTools tables.

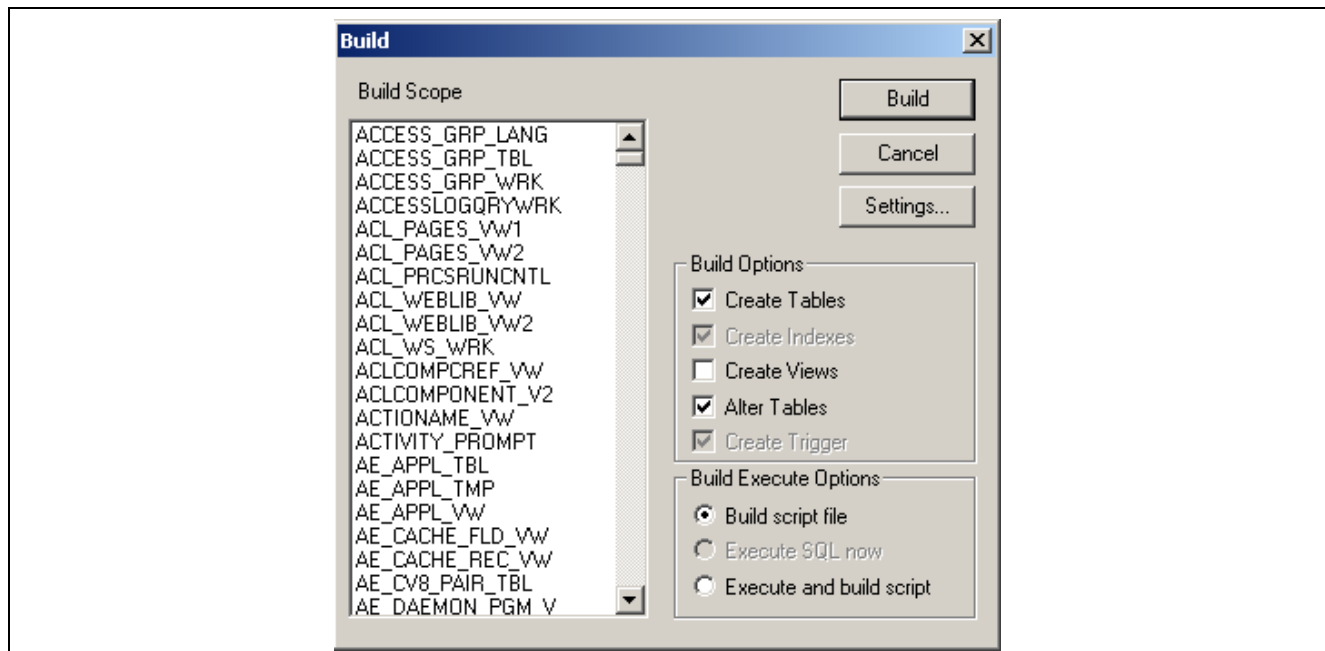
Note. If your application database was delivered on the PeopleSoft PeopleTools release you are installing, this task is optional.

Note. Triggers are always dropped and re-created during the alter process and will always show up in the generated Alter Audit script. You can ignore the generated script for triggers.

To alter PeopleSoft PeopleTools tables:

1. Launch Application Designer and sign on to the installed database with a valid PeopleSoft user ID.
2. Select File, New.
3. Select Project and click OK.
4. Select Insert, Definitions into Project.
5. Select *Records* from the Definition Type drop-down list box.
6. Select *Table* from the Type drop-down list box.
7. Click Insert, and then click Select All.
8. Click Insert, and then click Close.
9. Select Build, Project.

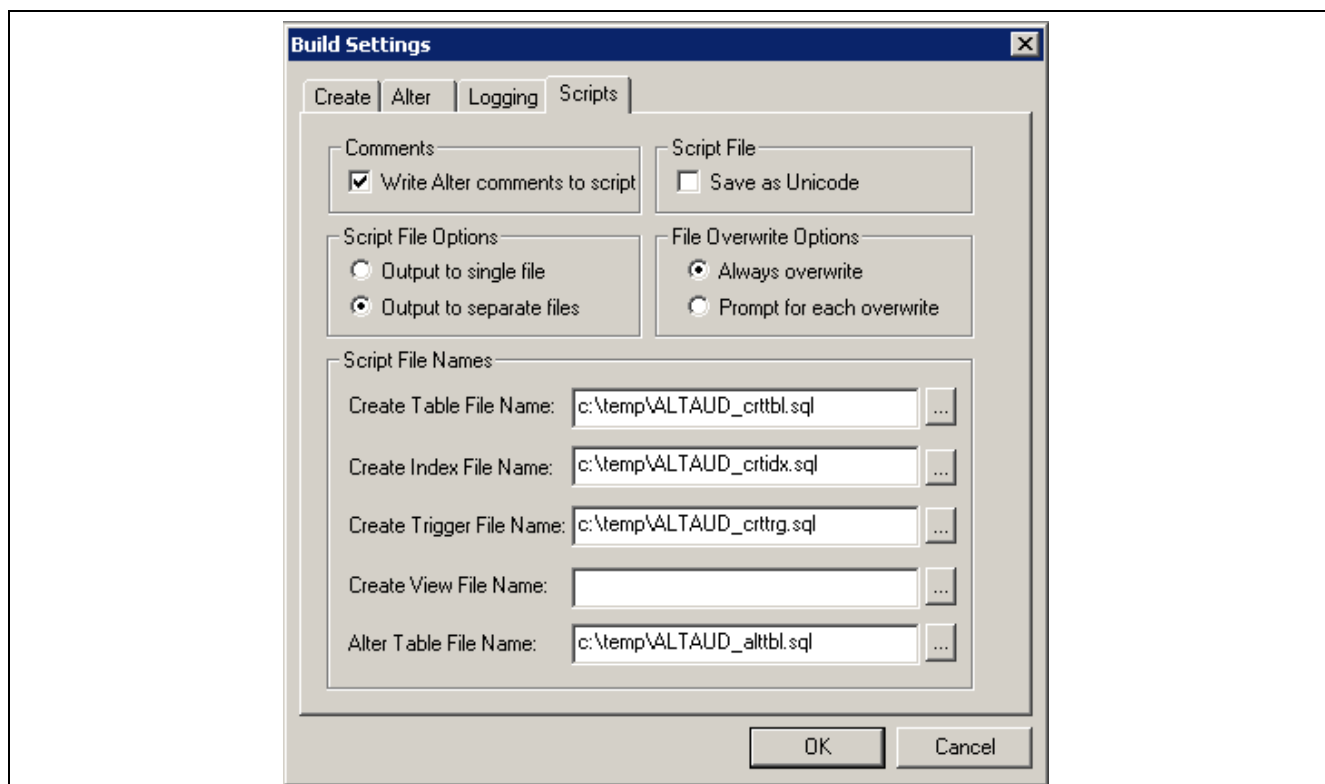
The Build dialog box appears:



The Build dialog box

10. Select Create Tables and Alter Tables in the Build Options region (Create Indexes and Create Trigger will automatically be selected).
11. Select Build script file in the Build Execute Options region.
12. Click Settings.

The Build Settings dialog box appears:

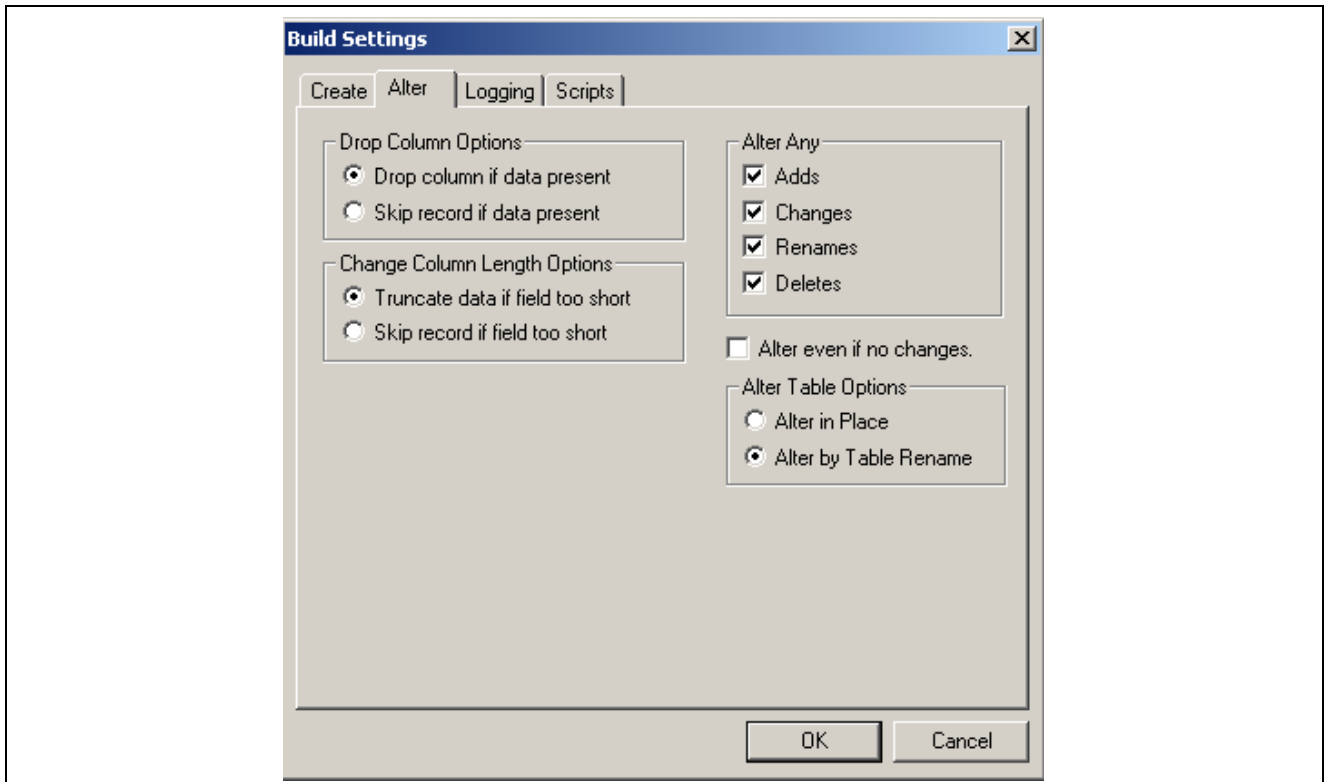


Build Settings dialog box: Scripts tab

13. Select the Scripts tab.
14. Select Write Alter comments to script.
15. Enter a unique output file name for each type.
16. Select the Alter tab and ensure that the Adds, Changes, Renames, and Deletes check boxes are selected in the Alter Any region.

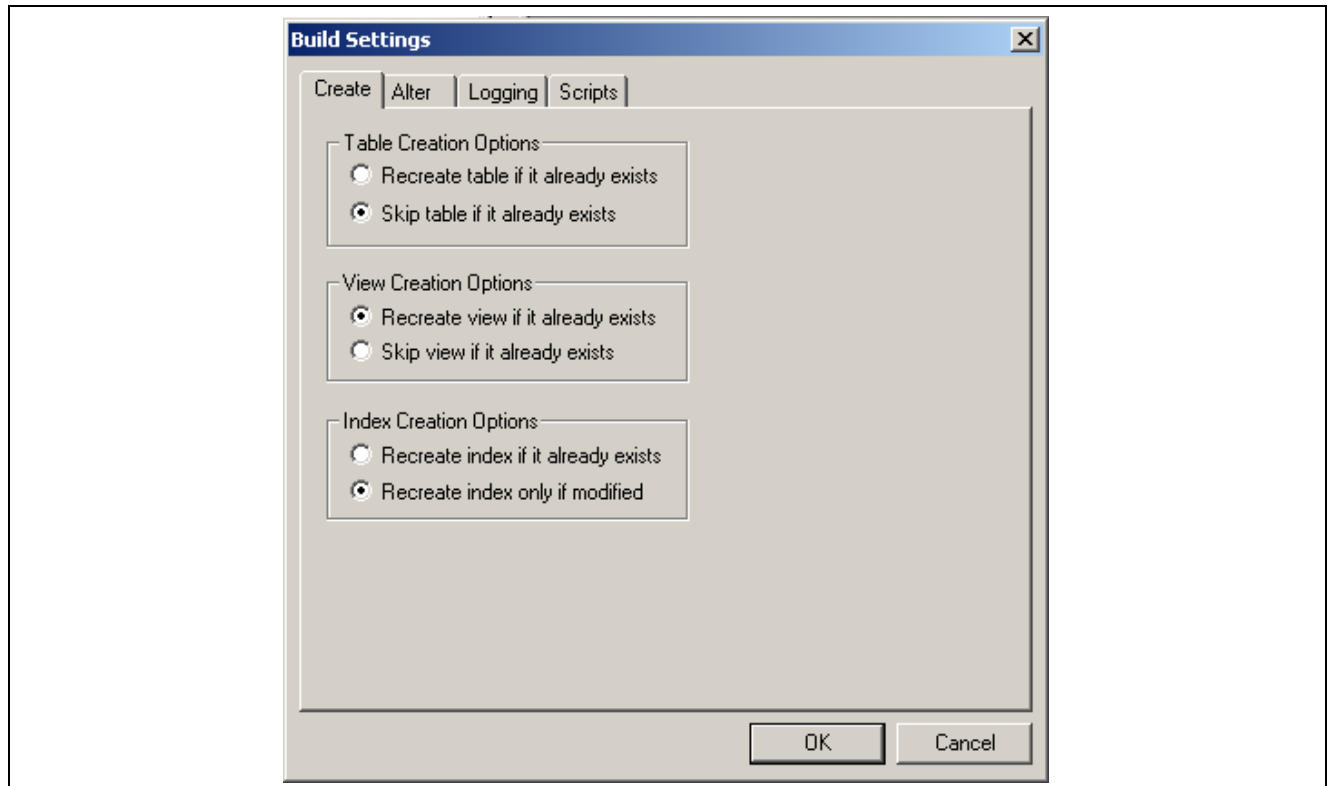
Drop column if data present should be selected in the Drop Column Options region, and Truncate data if field too short should be selected in the Change Column Length Options region.

Make sure that Alter by Table Rename is selected in the Alter Table Options region.



Build Settings dialog box: Alter tab

17. Select the Create tab, and ensure that the options Skip table if it already exists, Recreate view if it already exists, and Recreate index only if modified are selected.



Build Setting dialog box: Create tab

18. Click OK.

The Build dialog box reappears.

19. Click Build.

20. Click Close when the process is completed.

21. Run the generated SQL scripts in your platform-specific query tool to bring your database structure in sync with the PeopleTools tables.

Task 7-9: Cleaning and Backing Up the Database

This step involves running `sp_updatestats`, running some DBCC commands, and dumping your transaction log and database.

To clean and back up your database:

1. To check the integrity of the database, also run the following DBCC command through SQL Server Management Studio or `sqlcmd`:

`DBCC CheckDB`

Oracle recommends that you run this command before you do a dump of your database to confirm that everything is set up properly.

2. Back up the transaction log.

This step is not necessary if you previously enabled *Truncate Log On Checkpoint*. If you *did* enable *Truncate Log On Checkpoint*, you should turn it off at this point. You can use the *No_Log* or *Truncate_Only* option because you will not be saving your log at this time.

3. Back up the database.

Make sure you have a good backup schedule in place so you can recover your work in case of an emergency. This usually includes scheduling nightly backups of the transaction log and weekly backups of the database.

See Also

The SQL Server Books Online

CHAPTER 8

Configuring the Application Server on Windows

This chapter discusses:

- Understanding the Application Server
- Prerequisites
- Preparing the Application Server File System for a PeopleTools-Only Upgrade
- Setting Up COBOL for Remote Call
- Verifying Database Connectivity
- Creating, Configuring, and Starting an Initial Application Server Domain

Understanding the Application Server

The information in this chapter is provided to help you configure your PeopleSoft application server.

Note. COBOL is not needed for PeopleSoft PeopleTools or for PeopleSoft Applications that contain no COBOL programs. Check the information on My Oracle Support, and your application-specific documentation, for the details on whether your application requires COBOL.

Oracle supports a Microsoft Windows application server to use with any of our supported databases for the PeopleSoft installation. For detailed information, consult the certification information on My Oracle Support. The application server support can be found on the certification pages for PeopleSoft systems.

You can install the application server using either a “logical” or “physical” three-tier configuration.

- Installing the application server on the same machine as the database server is known as a logical three-tier configuration. For your initial PeopleSoft installation, Oracle suggests that you install a logical configuration to simplify setup.
- Installing the application server on a machine separate from the database server machine is known as a physical three-tier configuration.

In PeopleSoft PeopleTools 8.51 and higher, the configuration and log files for application server domains reside in *PS_CFG_HOME*. If you do not set a *PS_CFG_HOME* environment variable before beginning the application server configuration, the system installs it in a default location based on the current user's settings, as follows:

```
%USERPROFILE%\psft\pt\<peopletools_version>
```

See "Preparing for Installation," Defining Installation Locations.

Note. You can start application servers as a Windows service, which means that administrators no longer need to manually start each application server that runs on a Windows machine.

See Also

"Preparing for Installation," Understanding PeopleSoft Servers and Clients

"Setting Up Process Scheduler on Windows," Starting Process Scheduler as a Windows Service

PeopleTools: System and Server Administration, "Using PSADMIN Menus"

PeopleTools: Data Management

My Oracle Support, Certifications

"Setting Up the Install Workstation"

"Installing and Compiling COBOL on Windows"

Prerequisites

Before beginning this procedure, you should have completed the following tasks:

- Installed your application server.

See "Using the PeopleSoft Installer," Understanding PeopleSoft Servers.

- Installed Tuxedo 11gR1

See "Installing Additional Components."

- Granted authorization to a PeopleSoft user ID to start the application server.

The database configuration procedure includes a step for setting up the user ID with authorization to start the application server. See the application-specific installation instructions for information on the user IDs for your PeopleSoft application. See the *PeopleTools: Security Administration* product documentation for information on PeopleSoft PeopleTools delivered user profiles.

See "Creating a Database," Running the Database Configuration Wizard.

See "Creating a Database Manually," Creating Data Mover Import Scripts.

- Run the following SQL statements on your database server to review and if needed, update the PSCLASSDEFN table:

```
SELECT CLASSID, STARTAPPSERVER FROM PSCLASSDEFN
WHERE CLASSID IN (SELECT OPRCLASS FROM PSOPRCLS WHERE OPRID='<OPRID>')
UPDATE PSCLASSDEFN SET STARTAPPSERVER=1 WHERE CLASSID='<CLASSID>'
```

Note. Installers typically use VP1 or PS to test the application server. If these users are deleted or their passwords are changed, the application server will no longer be available. To avoid this problem, you can set up a new operator (called PSADMIN or PSASID, for instance) with privileges to start the application server. If you do this, you can use the new operator for your application servers and you won't need to change the password each time VP1 or PS is changed.

Task 8-1: Preparing the Application Server File System for a PeopleTools-Only Upgrade

If you are installing into an existing PS_HOME or PS_CFG_HOME in preparation for a PeopleTools-only upgrade, review your system for files that you may need to remove or back up.

Task 8-2: Setting Up COBOL for Remote Call

Remote Call is a PeopleCode feature that launches a COBOL program from an application server, PeopleCode program or a batch Application Engine PeopleCode program and waits for it to complete execution before continuing. The execution of a COBOL program via Remote Call is completely independent of the Process Scheduler. You need to set up a COBOL runtime environment and COBOL executables on the application server to support Remote Call.

See "Installing and Compiling COBOL on Windows."

Note. If your application does not contain COBOL programs, you do not need to purchase or compile COBOL.

Task 8-3: Verifying Database Connectivity

Before continuing, it is critical to verify connectivity to the database that the application server domain will use. To verify connectivity, connect to the database server from the application server using the native SQL tool on the application server.

For Microsoft SQL Server use sqlcmd.exe.

Task 8-4: Creating, Configuring, and Starting an Initial Application Server Domain

This section discusses:

- Creating, Configuring, and Starting the Application Server Domain
- Testing the Three-Tier Connection
- Importing an Existing Application Server Domain Configuration
- Setting Up a Custom Application Server Domain Configuration

- Troubleshooting Common Errors

Task 8-4-1: Creating, Configuring, and Starting the Application Server Domain

To create, configure, and start the application server domain:

1. Go to the *PS_HOME*\appserv directory and enter the following command:

```
psadmin
```

Note. Make sure you change the directory from the *PS_HOME* on the file server to the *PS_HOME*, or high-level directory, on the application server.

2. When the menu appears, specify *1* for Application Server and press ENTER.
3. Specify *2* to Create a domain and press ENTER.
4. Specify the domain name. For example:

```
Please enter name of domain to create :HR84
```

Domain names are case sensitive and must be eight US-ASCII characters or less. The domain name is used to create a directory name under the *PS_CFG_HOME*\appserv directory.

See the information on *PS_CFG_HOME* and server domain configuration in the *PeopleTools: System and Server Administration* product documentation.

5. Specify *4* for small if this is your initial domain installation, press ENTER.

See *PeopleTools: System and Server Administration*.

6. After the system creates the domain, this prompt appears:

```
Would you like to configure this domain now? (y/n) [y] :
```

Enter *y*. The PeopleSoft Application Server Administration menu appears with a Quick-configure menu similar to this:

```
-----
Quick-configure menu -- domain: HR84
-----
```

Features		Settings	
=====		=====	
1) Pub/Sub Servers	: No	16) DBNAME	: [HR84]
2) Quick Server	: No	17) DBTYPE	: [MICROSFT]
3) Query Servers	: No	18) UserId	: [QEDMO]
4) Jolt	: Yes	19) UserPswd	: []
5) Jolt Relay	: No	20) DomainID	: [TESTSERV]
6) WSL	: No	21) AddToPATH	: [c:\Program Files⇒
\Microsoft SQL Server\100\Tools\Binn]			
7) PC Debugger	: No	22) ConnectID	: [people]
8) Event Notification	: Yes	23) ConnectPswd	: []
9) MCF Servers	: No	24) ServerName	: []
10) Perf Collator	: No	25) DomainConnectPswd	: []
11) Analytic Servers	: Yes	26) WSL Port	: [7000]

```

12) Domains Gateway      : No          27) JSL Port      : [9000]
                                   28) JRAD Port     : [9100]

```

```

    Actions
    =====

```

```

13) Load config as shown
14) Custom configuration
15) Edit environment settings
    h) Help for this menu
    q) Return to previous menu

```

HINT: Enter 16 to edit DBNAME, then 13 to load

Enter selection (1-28, h, or q):

Note. If your installation includes more than one application server domain on a given machine, read the troubleshooting section for more information.

See Troubleshooting Common Errors.

7. If you need to modify any of the values for these settings, enter the number next to the parameter name, press ENTER, then type the new value, and press ENTER again.

If you need to change any of the features, type the number next to the feature name and press ENTER.

8. Configure the WSL to boot by changing option 6 to Yes.

Enter 6, and press ENTER.

9. If you intend to use the PeopleSoft Report Distribution system, you must select *Yes* for feature 8, Event Notification.

This enables the REN server, which is used by the “run to window” functionality of the Report Distribution system. *The Report Distribution system, MultiChannel Framework, and Optimization Framework use REN servers.* You must also remember to enter an Authentication Token Domain when installing the PeopleSoft Pure Internet Architecture (PIA).

10. If you are configuring an application server domain to support applications based on the PeopleSoft MultiChannel Framework (such as PeopleSoft CRM ERMS), select feature 9, MCF Servers.

See the information on configuring REN Servers in the product documentation.

See *PeopleTools: PeopleSoft MultiChannel Framework*, "Configuring REN Servers."

11. If you are using Microsoft SQL Server, enter 20 for AddToPATH, and enter the path to the 64-bit connectivity software.

The default path for Microsoft SQL Server 2008 is:

```
C:\Program Files\Microsoft SQL Server\100\Tools\Binn
```

Note. You can skip this step if the PATH environment variable already includes the database connectivity path.

12. Enter the values for the 19) UserPswd and 23) ConnectPswd that you specified during the database configuration.
13. If you want to set a Domain Connection password, enter 25 and specify a password of 8 characters or less.

The Domain Connection password is optional. You can specify a value or leave it blank. However, if you do specify a value, you must supply the same value when installing the PeopleSoft Pure Internet Architecture, to ensure the connection to the Application Server.

14. If you are not installing a REN server, after you update the settings you can load the configuration by entering *13*, for Load config as shown, from the Quick-configure menu.

15. If you are installing a REN server:

- a. Enter *14* for Custom configuration.
- b. Reply *y*, and press ENTER, at this prompt:

Do you want to change any config values <y/n> [n]?

- c. Reply *n*, and press ENTER, at this prompt:

Do you want to change any values <y/n> [n]?

Continue to enter *n*, for No, for all sections until you see the PSRENSRV section, and then answer *y*. (Be aware that there are several sections.)

- d. Leave the defaults for all settings except for default_auth_token, which you should set to the domain name for your web server.

Note. The default_auth_token setting should be identical to the Authentication Token Domain that you set during PIA installation.

See "Setting Up the PeopleSoft Pure Internet Architecture in GUI Mode."

- e. Accept the defaults for the next series of questions until asked if you want Event Notification configured. In this case, answer *y*.
 - f. Accept the default for the remaining questions; the configuration will load automatically.
16. To start the application server (whether you installed a REN server or not), select *1*, Boot this domain, from the PeopleSoft Domain administration menu.
 17. Select *1*, Boot (Serial Boot) or *2*, Parallel Boot, from the PeopleSoft Domain Boot Menu.

Note. The messages you see and the number of processes started will depend on the options you chose during configuration.

18. If you plan to continue with PIA installation and testing, do not shut down the application server at this time.
19. If you want to shut down your PeopleSoft application server domain later, follow these simple steps:

- a. From the PeopleSoft Domain Administration menu, enter *2* for Domain shutdown menu.
- b. From the PeopleTools Domain Shutdown Menu, enter *1* for Normal shutdown.

You see messages about the application server processes being shut down. The number of processes stopped will vary depending on the number of processes that started when you booted the domain.

- c. Enter *q* to quit the PeopleSoft Domain Administration Menu.

Task 8-4-2: Testing the Three-Tier Connection

If you get an error message when you try to sign in to the Application Server in Application Designer (that is, three-tier mode), it may be due to an incorrect server name or port number, because the database server is not running, or because the application server was not booted. To test a three-tier connection from the PeopleTools Development Environment (the Windows-based client):

1. Select Start, Programs, PeopleTools 8.53, Configuration Manager to start Configuration Manager.
2. Select the Profile Tab. Highlight Default and select Edit.
3. On the Edit Profile dialog box, select *Application Server* as the Connection Type.
4. Enter values for these parameters:
 - Application Server Name
 - Machine Name or IP Address
 - Port Number (WSL)
 - Domain Connection Password and Domain Connection Password (confirm)

Specify a value for the password, and repeat your entry for confirmation. The password must be 8 characters or less.

This password is optional. If you did not set the Domain Connection Password in Configuration Manager or in the Application Server configuration, leave it blank. If you specify a password, you must supply the same password during the PeopleSoft Pure Internet Architecture installation for a successful connection between the Application Server and PeopleSoft Pure Internet Architecture.

See the *PeopleTools: System and Server Administration* product documentation for information on using PeopleSoft Configuration Manager and PSADMIN.

5. Select Set to add the definition to the list and select OK to close the dialog box.
6. On the Configuration Manager dialog box, select the Startup tab.
7. Select *Application Server* from the Database Type list. Your application server name should be displayed.
8. Enter the values for User ID, Connect ID, and password.
9. Click OK.

Note. Confirm that the application server is running by booting it from psadmin. Select *1*, Boot this domain, from the PeopleSoft Domain administration menu. Select option *1*, Boot (Serial Boot) or *2*, Parallel Boot, from the PeopleSoft Domain Boot menu.

10. Select Start, Programs, PeopleTools 8.53, Application Designer.
11. In the PeopleSoft Signon dialog box:
 - Select *Application Server* as the Connection Type.
 - Confirm that the Application Server Name is correct.
 - Enter values for User ID and password.
12. Select OK to open Application Designer.

If you see the following error message when you try to sign in to the Application Server in Application Designer:

```
Network API: "Could not connect to application server 'Application Server Name'⇒
```

Make sure the PeopleTools authentication server (PSAUTH) is booted."

This may indicate a problem with the Domain Connection Password. For example, if the password set in the Application Server configuration file does not match the value in Configuration Manager, you may get this error message when you sign in to Application Designer in three-tier mode. Check the Application Server logs for more information.

Task 8-4-3: Importing an Existing Application Server Domain Configuration

If you have an existing application server configuration for a previous PeopleSoft PeopleTools release, you can import it to create a new domain. You can import an existing domain configuration by specifying a file or by specifying the path to an existing domain. To import from a file, you must use the `psappsrv.cfg` file found inside an existing application server domain folder (you must specify the full path to `psappsrv.cfg`). This file can be located anywhere in the file system, but must be named `psappsrv.cfg`. To import from an existing domain configuration that you created in PeopleSoft PeopleTools 8.53, you must specify `PS_CFG_HOME` and the name of an existing application server domain. (If you are importing a domain from a release before PeopleSoft PeopleTools 8.50, note that the domains were created in `PS_HOME`, and that is the path that you should provide.)

To import an existing application server domain configuration:

1. Go to the `PS_HOME\appserv` directory and run the `psadmin` command.

Note. Make sure you change the directory from the `PS_HOME` on the file server to the `PS_HOME` on the application server.

2. Specify *1* for Application Server:

```
-----
PeopleSoft Server Administration
-----
Config Home:  C:\psft_AppServ

1) Application Server
2) Process Scheduler
3) Search Server
4) Web (PIA) Server
5) Switch Config Home
6) Service Setup
7) Replicate Config Home

q) Quit
```

Command to execute (1-7, q): 1

The Config Home location corresponds to the current working directory. For information on how Config Home is set, see the *PeopleTools: System and Server Administration* product documentation.

3. Specify *4* for *Import domain configuration*.

```
-----
PeopleSoft Application Server Administration
-----
```


- 1) Administer a domain
- 2) Create a domain
- 3) Delete a domain
- 4) Import domain configuration
- q) Quit

Command to execute (1-4, q): 4

4. Specify *1* for *Import regular domain*.

```
-----
PeopleSoft Import Application Server Configuration
-----
```

- 1) Import regular domain
- 2) Import IB Master Configuration
- q) Quit

Command to execute (1-2, q) : 1

5. Specify whether to import the domain configuration from a file (1) or from an existing application domain configuration (2).

```
-----
PeopleSoft Import Application Server Configuration
-----
```

- 1) Import from file
- 2) Import from application domain
- q) Quit

Command to execute (1-2, q) :

6. If you selected *1*, provide the full path to the file `psappsrv.cfg`, and then specify the name of the domain you want to create. If you selected *2*, go to the next step.

Enter full path to configuration file
:C:\temp\oldconfig\psappsrv.cfg

Enter domain name to create
:HR84

7. If you selected *2*, to *Import from application domain*, provide the full path to the `PS_CFG_HOME` of the existing domain.

If importing from PeopleTools 8.49 or earlier, provide `PS_HOME` for `PS_CFG_HOME`.

Enter `PS_CFG_HOME` of domain you wish to import: C:\Documents and Settings⇒
\JSMITH\psft\pt\8.53

If applicable, choose among the existing application server domains in the specified `PS_CFG_HOME`:

Tuxedo domain list:

- 1) HR84A
- 2) HR84B

```
Select domain number to import: 1

Enter a name for new domain:  HR84
```

After you create the domain, continue to the next task to verify that the imported configuration parameters are appropriate for the newly created domain. You may need to change the following values:

- **DBName**
DBName can be the same or different, depending on which database the application server needs to point to.
- **DBType**
DBType depends on the database type of DBName.
- **UserId and UserPswd**
UserId and UserPswd are the user's choice.
- **Workstation Listener Port**
Workstation Listener Port will need to be modified if the old domain will be up and running in the same machine.
- **Jolt Listener Port**
Jolt Listener Port will also need a different number if the old domain will be up and running in the same machine.
- **Jolt Relay Adapter Listener Port**
Jolt Relay Adapter Listener Port will need a different number if the old domain will be up and running in the same machine, and will be using Jolt Relay Adapter.

Task 8-4-4: Setting Up a Custom Application Server Domain Configuration

The Quick-configure menu is initially displayed when you choose to configure your domain. This menu is intended for the commonly adjusted parameters—those most likely to change from domain to domain. However, there are additional configuration parameters that are not available through the Quick-configure menu. For such configuration parameters, you must use the Custom Configuration option, which you can access from the Quick-configure menu. Feel free to skip this procedure if you have already created and configured your Application Server using the Quick-configure menu and want to move forward.

The following steps assume you will be using `psadmin` to specify parameter settings.

To reconfigure an application server domain:

1. Go to the `PS_HOME\appserv` directory and run the `psadmin` command.

Note. Make sure you change the directory from the `PS_HOME` on the file server to the `PS_HOME` on the application server.

2. Specify `1` for Application Server and press ENTER.
3. Specify `1` for Administer a domain and press ENTER.
4. Select the domain to administer and press ENTER.

5. Specify 4 for Configure this domain and press ENTER.

The option Configure this domain performs the following tasks:

- Shuts down the application server, if it is running. (Shutdown is required since the binary file PSTUXCFG must be deleted and re-created to enable new configuration values. If there are no processes running when shutdown is attempted, an error will be displayed but the script continues on. This is normal.)
- Initiates an interactive dialog, prompting for configuration parameters.
- Updates psappsrv.cfg, generates psappsrv.ubb, and internally invokes Tuxedo's tmloadcf executable to create binary file PSTUXCFG used during the domain boot process.

6. Specify 14 for Custom Configuration and press ENTER.

7. Respond to this prompt:

Do you want to change any config values (y/n):

- Specify y to start an interactive dialog to change or examine parameter values, as described in the next step.

Oracle recommends this option for more experienced users.

- Specify n if you have already edited psappsrv.cfg, skip the next step, and continue with step 9.

8. Complete the interactive dialog to specify configuration parameters.

Configuration parameters are grouped into sections. For each section, you are asked whether you want to change any parameters in that section, as in the following example:

Values for config section - Startup

```
DBName=
DBType=
UserId=
UserPswd=
ConnectId=
ConnectPswd=
ServerName=
StandbyDBName=
StandbyDBType=
StandbyUserId=
StandbyUserPswd=
```

Do you want to change any values (y/n)? [n]: y

- Specify y to change any parameter values for the current configuration section displayed.

You are prompted for each parameter value. Either specify a new value, or press ENTER to accept the default if applicable. After pressing ENTER, you are positioned at the next parameter in that section. When you are done with that section, you are again asked whether you want to re-edit any of the values you changed.

- Enter the user ID and user password that has security to start the application server. All application databases are delivered with one or more application server security users, usually PS or VP1.
- The parameters StandbyDBName, StandbyDBType, StandbyUserId, and StandbyUserPswd, are used for a standby database in an Oracle environment.

See *PeopleTools: Data Management*, “Implementing Oracle Active Data Guard.”

- The WSL, JSL, and JRAD port numbers, which are found in other sections of the configuration parameters, have default values of 7000, 9000, and 9100, respectively. These values must be unique for each application server domain. You may alter the port values if necessary to ensure that they are unique.
- If you do not wish to change any values, specify *n* and you will be prompted for the next configuration section.

Note. When setting up your application server, make a note of the values you use for Database Name, Application Server Name (the machine name), and JSL Port. You will need to use these same values when installing the PeopleSoft Pure Internet Architecture.

See *PeopleTools: System and Server Administration*.

9. Select server process options.

At this point, you will be prompted to select server process options. If this is your initial installation, we suggest you accept the defaults. A message similar to this appears:

```
Setting Log Directory to the default... [PS_SERVDIR\LOGS]
Configuration file successfully created.
Loading new configuration...
```

“Loading new configuration” indicates that psadmin is generating a binary file named PSTUXCFG, which is used to boot the application server. At this point, your application server should be properly configured.

Task 8-4-5: Troubleshooting Common Errors

For troubleshooting help, you can access a log file through the PeopleSoft Domain Administration menu. The following information is a list of possible errors you may encounter.

- Use psadmin menu option 6 for Edit configuration/log files menu to check for errors in `<PS_CFG_HOME>\appserv\<domain>\LOGS\APPSRV_mmdd.log` and `<PS_CFG_HOME>\appserv\<domain>\LOGS\TUXLOG.mmddyy`.
- If a PeopleSoft server such as PSAPPSRV fails, examine your configuration parameters. The failure of the PSAPPSRV process is often signalled by the message “Assume failed”—which means the process has failed to start. Check the SIGNON section for misspelled or invalid database name, an invalid or unauthorized OprId, or ConnectId or ServerName is missing or invalid. Finally, make sure the database connectivity is set correctly.
- If a WSL (or JSL) fails to start, try specifying another port number (it may be in use already by another application server domain process).
- If you are unable to start the BBL, check that your Tuxedo is installed fully and that the directory really exists.
- If the installation includes more than one application server domain on a single machine, before booting the second domain, adjust the REN server configuration to avoid conflict in one of these ways:
 - Use psadmin to disable Event Notification (option 8 on the Quick-configure menu) for the second and subsequent app server domains.
 - Change default_http_port to a value other than 7180.

See Also

PeopleTools: System and Server Administration

PeopleTools: PeopleSoft MultiChannel Framework

CHAPTER 9A

Setting Up the PeopleSoft Pure Internet Architecture in GUI Mode

This chapter discusses:

- Understanding PeopleSoft Pure Internet Architecture
- Using Authentication Domains in the PeopleSoft Pure Internet Architecture Installation
- Preparing the PeopleSoft Pure Internet Architecture File System for a PeopleTools-Only Upgrade
- Installing the PeopleSoft Pure Internet Architecture on Oracle WebLogic in GUI Mode
- Installing the PeopleSoft Pure Internet Architecture on IBM WebSphere in GUI Mode
- Testing and Administering the PeopleSoft Pure Internet Architecture Installation
- Completing Post-Installation Steps

Understanding PeopleSoft Pure Internet Architecture

This chapter explains how to install and configure the components of the PeopleSoft Pure Internet Architecture (PIA) in GUI mode. It includes instructions for installing the PeopleSoft files on Oracle WebLogic and IBM WebSphere. Only complete the instructions for the web server product that you installed.

Note. See the chapter “Setting Up the PeopleSoft Pure Internet Architecture in Console Mode” for instructions on installing in silent mode on Microsoft Windows.

See "Installing Web Server Products."

The setup program for the PeopleSoft Pure Internet Architecture is installed to the web server machine when you run the PeopleSoft Installer and select the PeopleSoft Web Server option.

See "Using the PeopleSoft Installer."

Oracle only supports customer installations that use web servers that are certified for PeopleSoft PeopleTools. *You must install the web server before you install the PeopleSoft Pure Internet Architecture.* Before you install the PeopleSoft Pure Internet Architecture, you must also have configured an application server, as described in the previous chapter.

The location where you install the PeopleSoft Pure Internet Architecture is referred to in this documentation as *PIA_HOME*. You can specify different locations for *PS_HOME* and *PIA_HOME*. After you complete the PeopleSoft Pure Internet Architecture installation, you can locate the installation files in the directory *PIA_HOME/webserv*.

For PeopleSoft PeopleTools 8.51 and later, if you are setting up the PeopleSoft Pure Internet Architecture on a Microsoft Windows platform, the directory and path that you specify for *PIA_HOME* may include spaces. However, parentheses in the directory name (for example, "C:\Program Files (x86)") are *not* allowed for *PIA_HOME*.

See "Preparing for Installation," Defining Installation Locations.

If your web server is on a different machine than your application server, you need to make sure you have JRE installed on your web server to run the PeopleSoft Pure Internet Architecture installation.

The initial PeopleSoft Pure Internet Architecture setup automatically creates the default PeopleSoft site named *ps*. In subsequent PeopleSoft Pure Internet Architecture setups, change the site name from *ps* to a unique value. We recommend using the database name. This is handy for easy identification and ensures that the database web server files are installed in a unique web site.

The URL that you use to invoke the PeopleSoft Pure Internet Architecture must conform to ASN.1 specifications. That is, it may contain only alphanumeric characters, dots ("."), or dashes ("-"). The URL must not begin or end with a dot or dash, or contain consecutive dots (".."). If the URL includes more than one portion, separated by dots, do not use a number to begin a segment if the other segments contain letters. For example, "mycompany.second.country.com" is correct, but "mycompany.2nd.country.com" is wrong.

Review the following additional notes before beginning the PeopleSoft Pure Internet Architecture installation:

- If you want to connect between multiple application databases, you need to implement single signon.
- If the PeopleSoft Pure Internet Architecture installation encounters an error, it will indicate which log files to refer to.

See "Installing Web Server Products."

- The machine on which you run the PeopleSoft Pure Internet Architecture install must be running in *256 color mode*. This is not necessary for console mode.
- When installing on Microsoft Windows Server 2008, change the font size to the default value.

If you use the installer with a non-default font size, some of the fields on the installer windows may appear with an incorrect length. To change the font size:

- a. Right-click the desktop and select Personalize.
- b. Click Adjust font size (DPI).
- c. Select the default, 96 DPI.

The PeopleSoft Pure Internet Architecture installation includes the following products:

- *PeopleSoft Pure Internet Architecture*. This product is the centerpiece of the PeopleSoft architecture that enables users to work on a machine with only a supported browser installed. This option installs the servlets required for deploying PeopleSoft Applications and for the PeopleSoft portal. The portal packs and PeopleSoft Portal Solutions have their own installation instructions, which are available on My Oracle Support. For an overview of the various types of portals, consult the *PeopleTools: PeopleSoft Portal Technology* product documentation.
- *PeopleSoft Report Repository*. This product works in conjunction with Process Scheduler to allow report distribution over the web.
- *PeopleSoft Integration Gateway*. This product is the entry and exit point for all messages to and from the Integration Broker. Its Java-based Connector architecture allows asynchronous and synchronous messages to be sent over a variety of standard protocols, many that are delivered at install, or through custom connectors.

Important! For PeopleSoft PeopleTools 8.50 and higher, review the section on security properties for Integration Gateway. When setting the properties in the `integrationGateways.properties` file, the property `secureFileKeystorePasswd` must be encrypted, and the `secureFileKeystorePath` must be set.

See *PeopleTools: Integration Broker Administration*, "Managing Gateways."

- *PeopleSoft CTI Console*. This product works in conjunction with CTI vendor software to enable call center agents to take advantage of browser based teleset management and automatic population of application pages with relevant data associated with incoming calls, such as customer or case details.

See *PeopleTools: MultiChannel Framework*.

- *Environment Management Hub*. The Environment Management hub is a web application that is installed with the PeopleSoft Pure Internet Architecture and portal. It is started along with the rest of the web applications when the user boots the web server. You cannot start the Environment Management Hub on a server that is configured to run HTTPS; in other words, if you plan to run Environment Management, your PIA server needs to be configured in HTTP mode.

See *PeopleTools: Change Assistant and Update Manager*.

See Also

PeopleTools: Security Administration

PeopleTools: System and Server Administration

"Using the PeopleSoft Installer," Verifying Necessary Files for Installation on Windows

Using Authentication Domains in the PeopleSoft Pure Internet Architecture Installation

You have the option to specify an authentication domain when you install the PeopleSoft Pure Internet Architecture on Oracle WebLogic or IBM WebSphere.

Note. The authentication domain was referred to as the Authentication Token Domain in previous releases, and that term is still seen in the software.

When an authentication domain is specified during the PeopleSoft Pure Internet Architecture install, that value gets used as the Cookie domain in the web server configuration. The main requirements when setting a cookie domain are:

- The host must have a fully qualified domain name (FQDN). The requirement that you must have a domain name does not imply that you must have a DNS, but you do need some type of naming service such as DNS or some managed `..etc\hosts` file that contains a list of the servers with their domain name.
- The cookie domain value being set must begin with a dot (`.ps.com` is valid, `ps.com` is NOT valid).
- The cookie domain value being set must contain at least 1 embedded dot (`.ps.com` is valid, `.corp.ps.com` is valid, `.com` is NOT valid).
- The cookie domain value can only be a single domain name. It cannot be a delimiter-separated list of domains.

By default, the browser only sends cookies back to the machine that set the cookie. So if web server `crm.yourdomain.com` sets a cookie, the browser will only send it back there. You can make the browser send the single signon cookie to all servers at `yourdomain.com` by typing your domain name in the Authentication Token Domain list box of web server `crm`.

Specifying the authentication domain may be necessary in certain cases. For example, if you plan to use the PeopleSoft portal technology, be sure to read the supporting documentation on configuring the portal environment, to determine whether setting the authentication domain is required for correct operation.

See *PeopleTools: PeopleSoft Portal Technology*.

Specify an authentication domain if you plan to run a REN Server. REN Servers are required for PeopleSoft MultiChannel Framework, Reporting, and some PeopleSoft CRM applications supported by PeopleSoft MultiChannel Framework.

See *PeopleTools: MultiChannel Framework*.

Specify an authentication domain if you plan to use Business Objects Enterprise.

See "Installing and Configuring Software for Crystal Reports," Installing SAP BusinessObjects Enterprise XI 3.1.

Task 9A-1: Preparing the PeopleSoft Pure Internet Architecture File System for a PeopleTools-Only Upgrade

If you are installing into an existing `PS_HOME` or `PS_CFG_HOME` in preparation for a PeopleTools-only upgrade, perform the following instructions to remove any obsolete files.

Stop the web server before performing the PeopleSoft Pure Internet Architecture installation or uninstallation.

Depending on your web server platform, complete the following steps to clean up previous PeopleSoft Pure Internet Architecture sites:

- Oracle WebLogic

Shut down Oracle WebLogic and follow the uninstallation instructions in the old release PeopleSoft PeopleTools installation guide for your database platform.

Alternatively, delete the contents of one of the following directories:

- For PeopleSoft PeopleTools 8.43.x or earlier: `<weblogic_home>\wlserver6.1\config\<domain_name>*`
- For PeopleSoft PeopleTools 8.44.x to 8.49.x: `<PS_HOME>\webserv\<domain_name>*`
- For PeopleSoft PeopleTools 8.50.x or later: `<PIA_HOME>\webserv\<domain_name>*`

- IBM WebSphere

Shut down IBM WebSphere and follow the uninstallation instructions in the old release PeopleSoft PeopleTools installation guide for your database platform.

Task 9A-2: Installing the PeopleSoft Pure Internet Architecture on Oracle WebLogic in GUI Mode

This section discusses:

- Prerequisites
- Installing the PeopleSoft Pure Internet Architecture on Oracle WebLogic
- Uninstalling the PeopleSoft Pure Internet Architecture on Oracle WebLogic

Prerequisites

This section describes how to install the PeopleSoft Pure Internet Architecture on Oracle WebLogic. Before installing the PeopleSoft Pure Internet Architecture (PIA) on Oracle WebLogic, you must have installed the Oracle WebLogic software. PeopleSoft PeopleTools 8.53 supports Java 7 enabled 64-bit Oracle WebLogic 10.3.6.

See "Installing Web Server Products," Installing Oracle WebLogic.

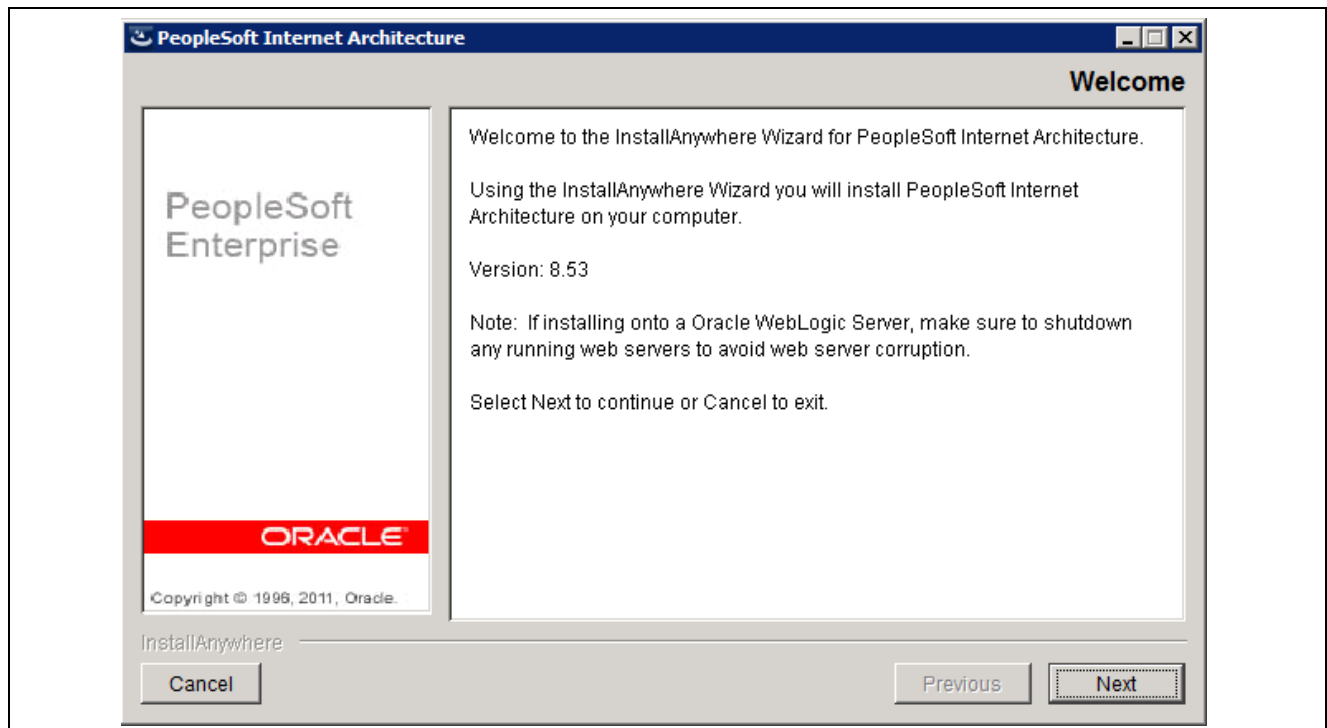
See the *PeopleTools: System and Server Administration* product documentation for more information on working with Oracle WebLogic.

Task 9A-2-1: Installing the PeopleSoft Pure Internet Architecture on Oracle WebLogic

To install the PeopleSoft Pure Internet Architecture on Oracle WebLogic:

1. Go to `PS_HOME\setup\PsmPiaInstall` and run `setup.bat`.
2. Click Next on the Welcome to the InstallAnywhere Wizard for PeopleSoft Internet Architecture window.

The window displays the PeopleSoft PeopleTools version, 8.53 in this example, and includes this note: "If installing onto a Oracle WebLogic Server, make sure to shutdown any running web servers to avoid web server corruption."

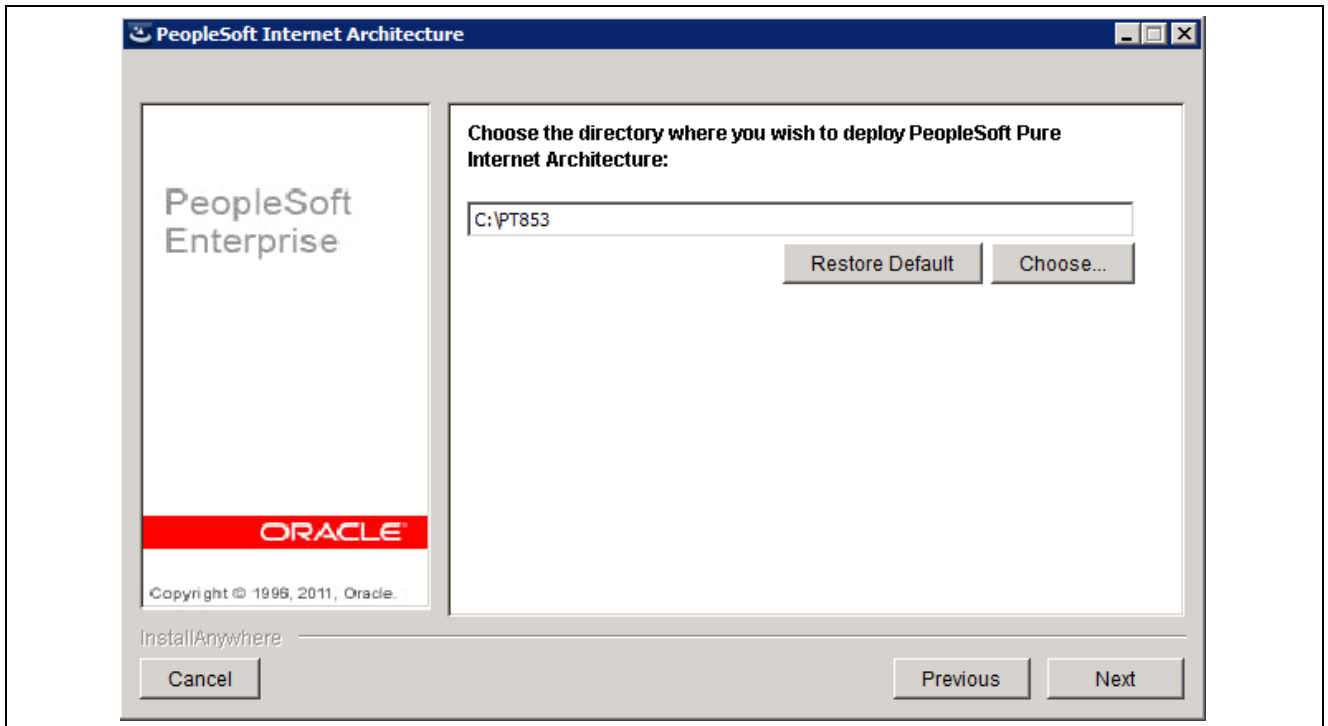


PeopleSoft Internet Architecture Welcome window

3. Enter the location where you want to install the PeopleSoft Pure Internet Architecture, referred to in this documentation as *PIA_HOME*.

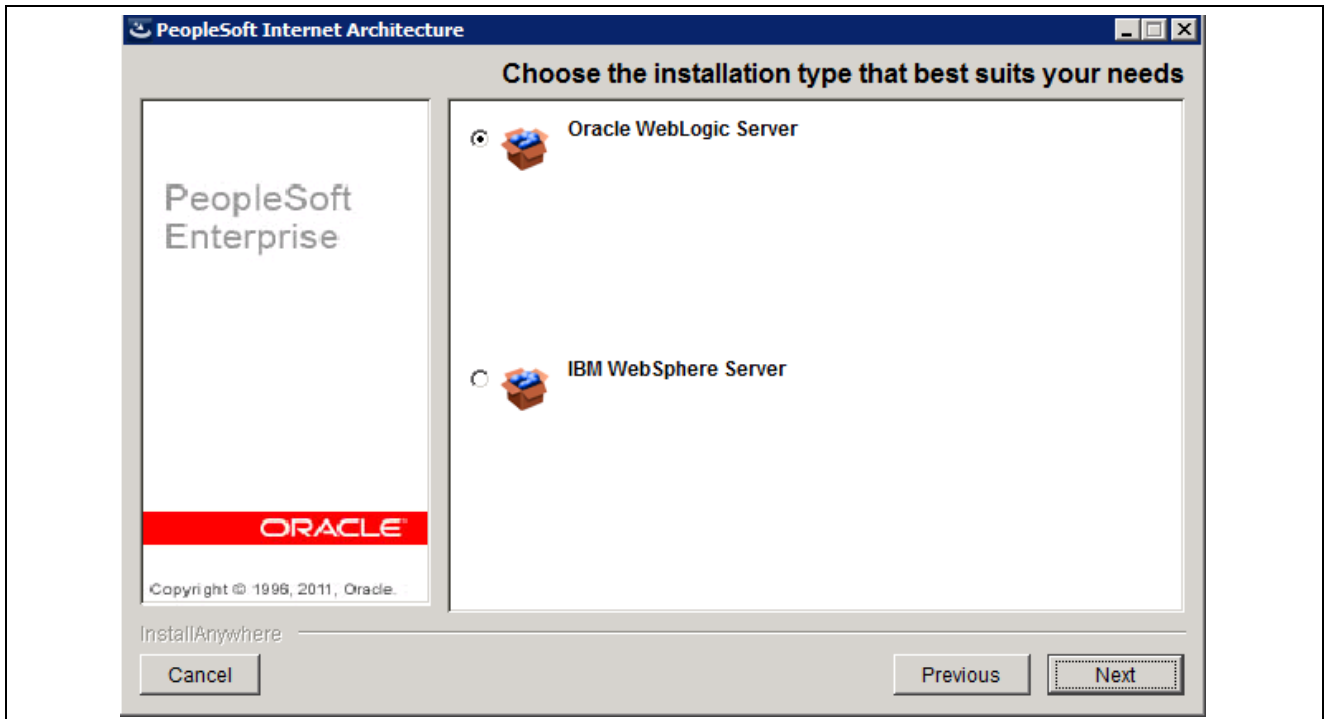
In this example, the directory is *C:\PT853*, which is the same as *PS_HOME*. The default location for *PIA_HOME* is the same as *PS_CFG_HOME*, for example *C:\Documents and Settings\ps_user\psft\pt\8.53*.

See "Preparing for Installation," Planning Your Initial Configuration.



Specifying the installation location for the PeopleSoft Internet Architecture

4. Select Oracle WebLogic Server and click Next.

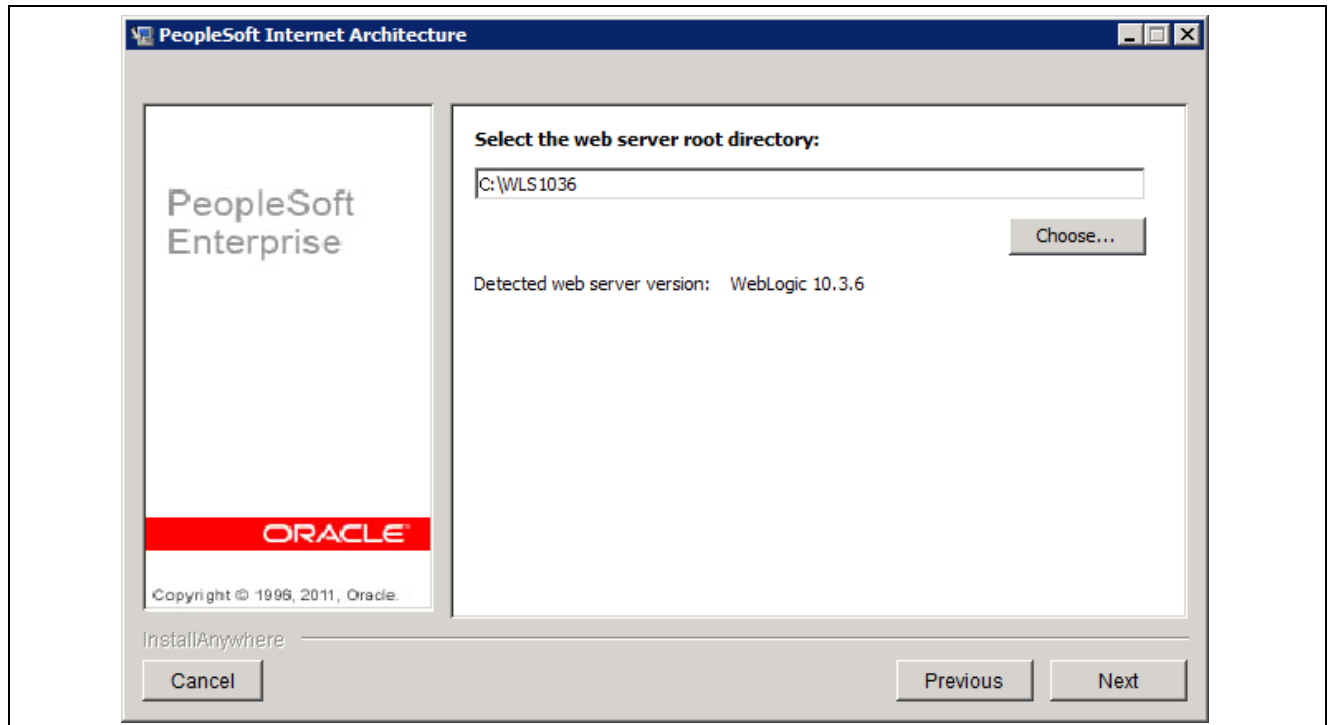


Selecting Oracle WebLogic Server for the PeopleSoft Pure Internet Architecture installation

5. Specify the root directory where Oracle WebLogic is installed, *WLS_HOME*, and click Next.
In this example, the root directory for Oracle WebLogic 10.3.6 is C:\WLS1036.

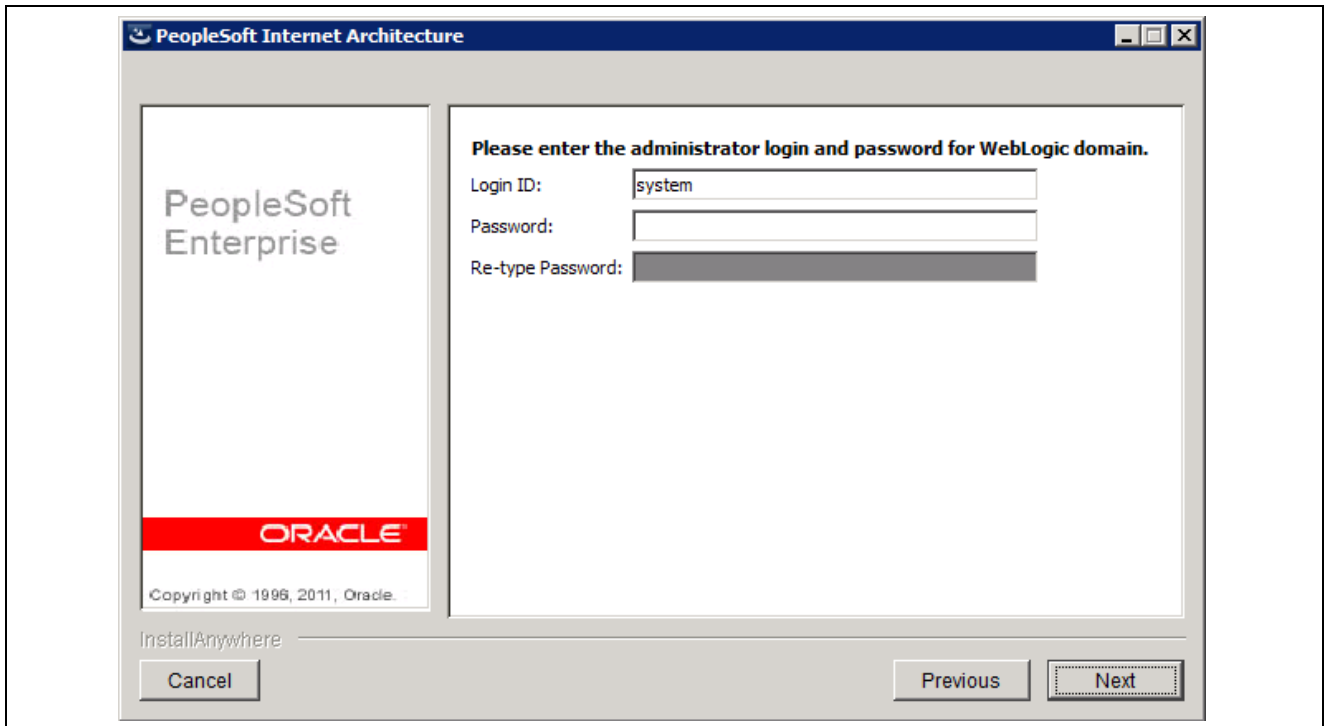
Note. If you enter an incorrect path for Oracle WebLogic, you receive an error message “Detected web server version: no choices available.” Check that you have Oracle WebLogic installed, and in the designated directory.

If you specify a 32-bit installation of Oracle WebLogic, a message appears asking you to confirm the decision. Keep in mind that PeopleSoft PeopleTools 8.51 and later releases require 64-bit Oracle WebLogic.



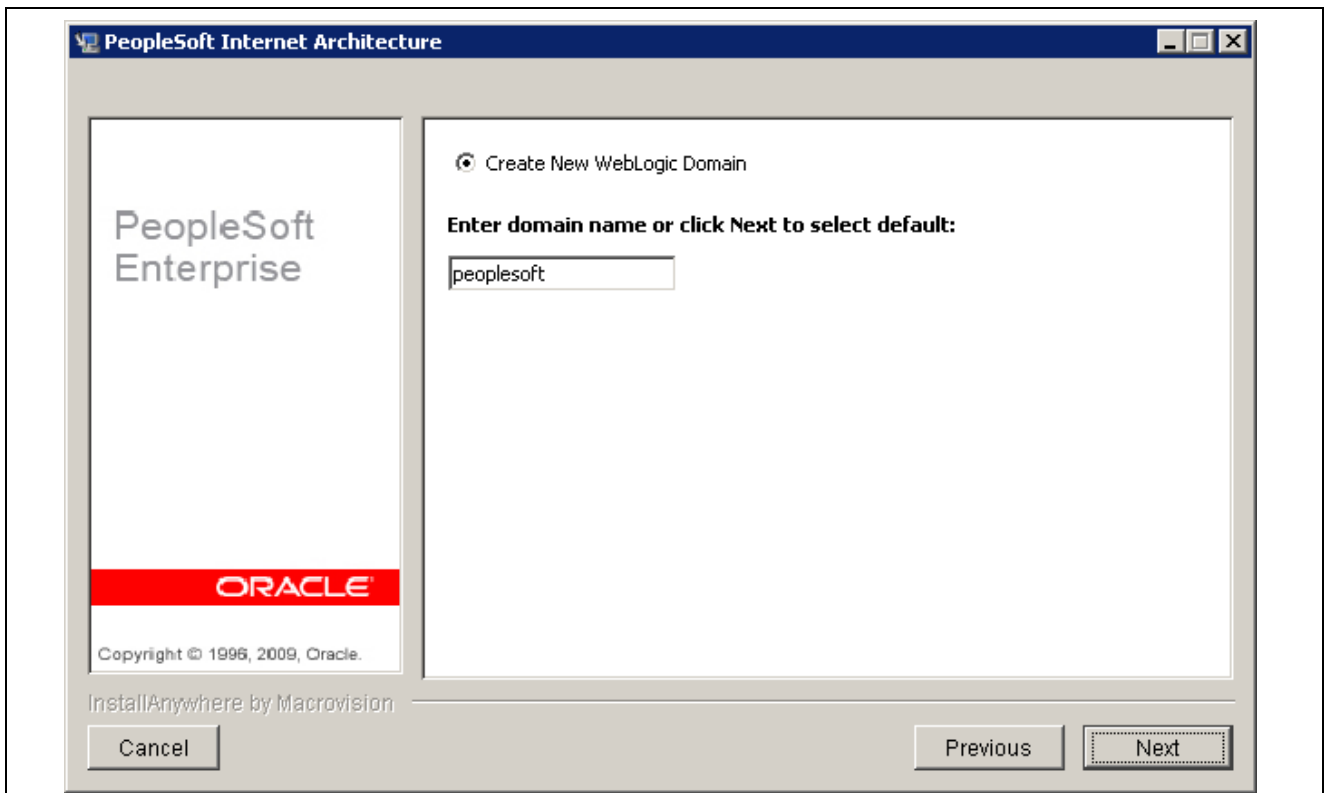
Selecting the web server root directory on the PeopleSoft Internet Architecture window

6. Enter the administrator login ID and password for the new web server domain to be created.
The default login ID is system. The password must be at least 8 alphanumeric characters with at least one number or special character.
Click Next to continue.



Specifying administrator login and password on the PeopleSoft Internet Architecture window

7. If the PIA installer cannot detect any existing Oracle WebLogic domains, only the option Create New WebLogic Domain is available.

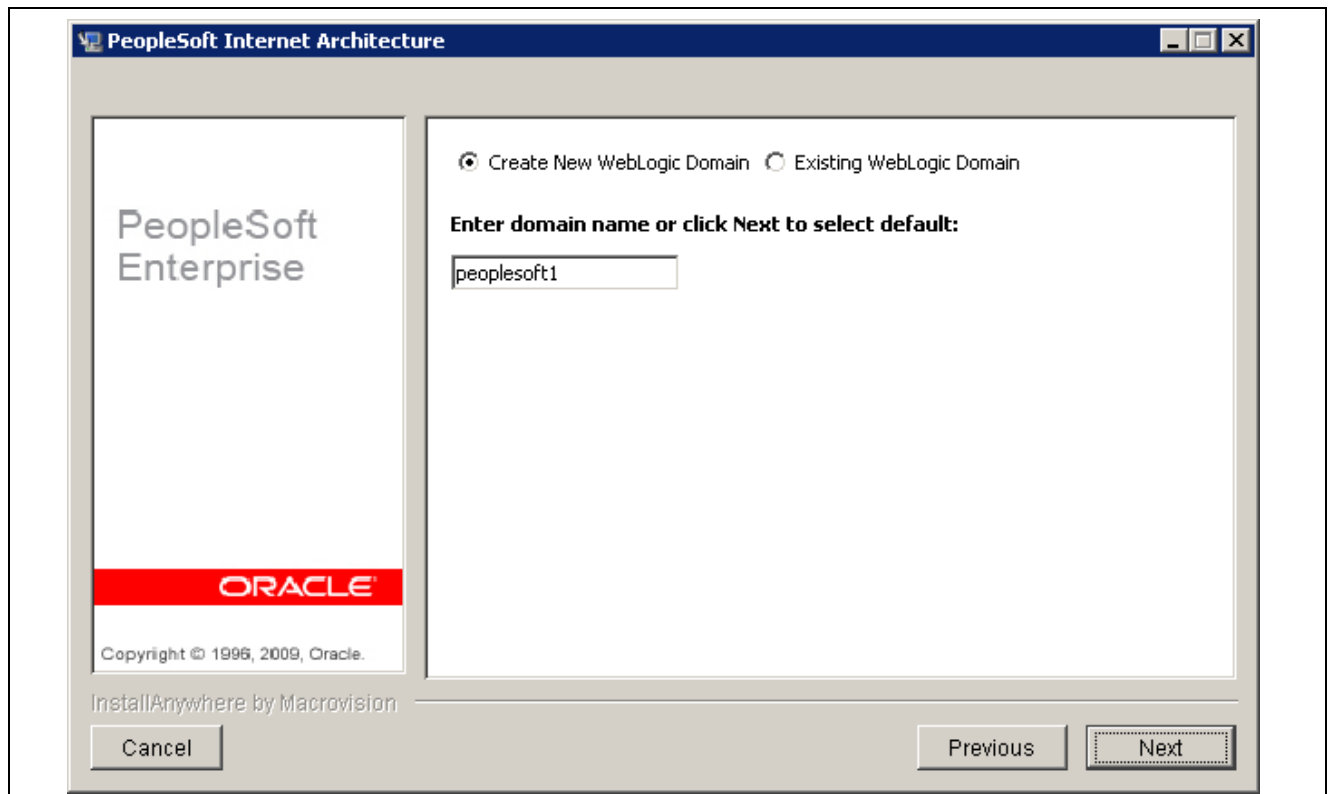


Entering new domain name on the PeopleSoft Internet Architecture window

8. If there are existing Oracle WebLogic domains on your system, select one of the options Create New WebLogic Domain or Existing WebLogic Domain.

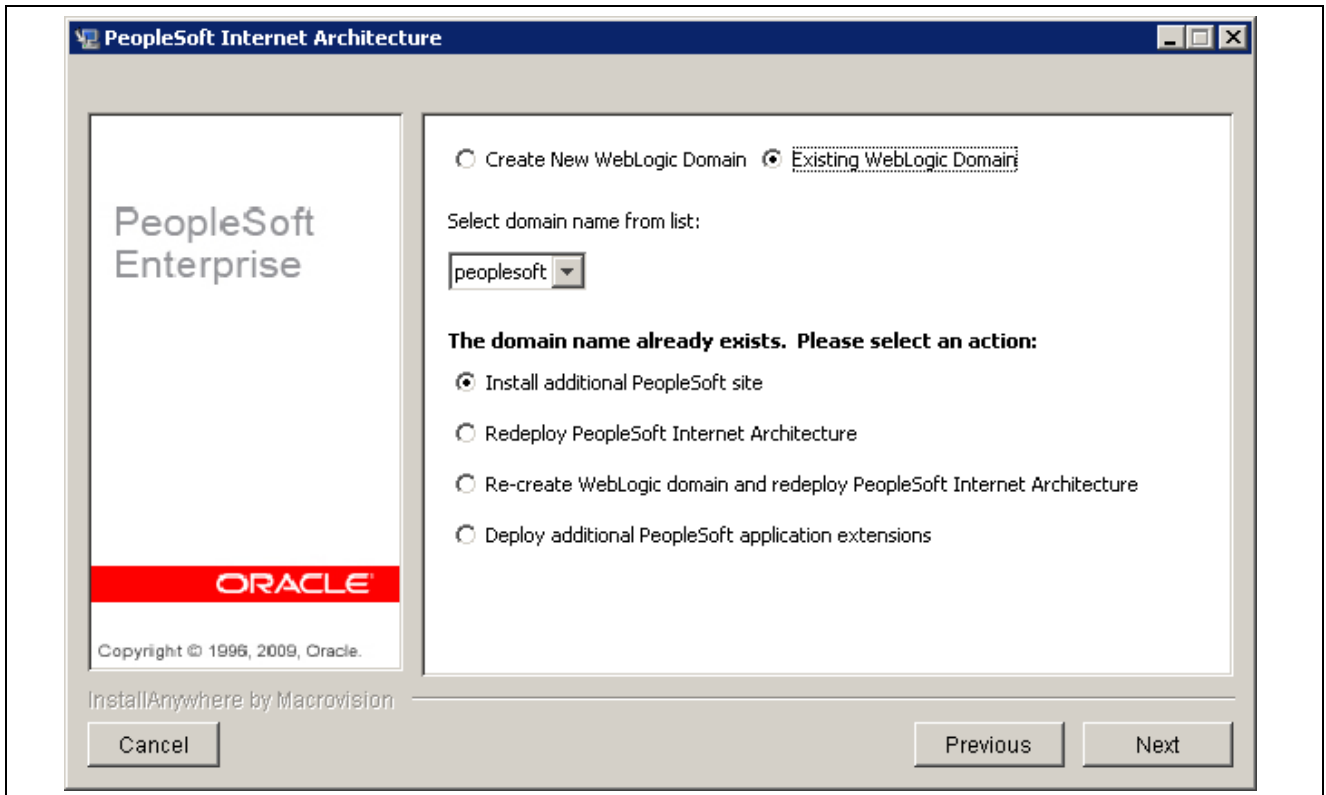
If you select Create New WebLogic Domain, the installation process automatically generates a valid domain name in the domain name field.

If you attempt to enter an invalid domain name, you see a prompt asking you to enter a new domain name or choose an existing domain.



Choosing a new or existing WebLogic domain

9. If you select Existing WebLogic Domain, specify the domain name and select one of the following options:



Selecting an existing WebLogic domain

- *Install additional PeopleSoft site*

This option is relevant only to the PeopleSoft PORTAL web application, and does not modify or revert any other configuration settings. Select this option to install only the necessary files for defining an additional PeopleSoft site onto an existing Oracle WebLogic configuration. The new site will be accessed using its name in the URL. A site named “CRM” would be accessed using a URL similar to `http://mywebserver_machine/CRM`. To reset or re-create an existing PeopleSoft site, simply enter that site's name as the site to create. On your web server, a PeopleSoft site is comprised of the following directories within the PORTAL web application:

`<WEBLOGIC_DOMAIN>\applications\peoplesoft\PORTAL\<site>*`

`<WEBLOGIC_DOMAIN>\applications\peoplesoft\PORTAL\WEB-INF\psftdocs\<site>*`

- *Redeploy PeopleSoft Internet Architecture*

This selection affects all of the PeopleSoft Pure Internet Architecture web applications installed to the local Oracle WebLogic domain. Select this option to redeploy all of the class files and jar files that comprise web components of PeopleSoft Pure Internet Architecture. Oracle WebLogic Server configuration files, scripts and any existing PeopleSoft (PORTAL) sites are not overwritten, unless you specify an existing PeopleSoft site during this setup.

- *Re-create WebLogic domain and redeploy PeopleSoft Internet Architecture*

This option affects Oracle WebLogic Server configuration and all of the PeopleSoft Pure Internet Architecture web applications installed to the local Oracle WebLogic domain. Select this option to completely remove an existing Oracle WebLogic domain and create the newly specified PeopleSoft site.

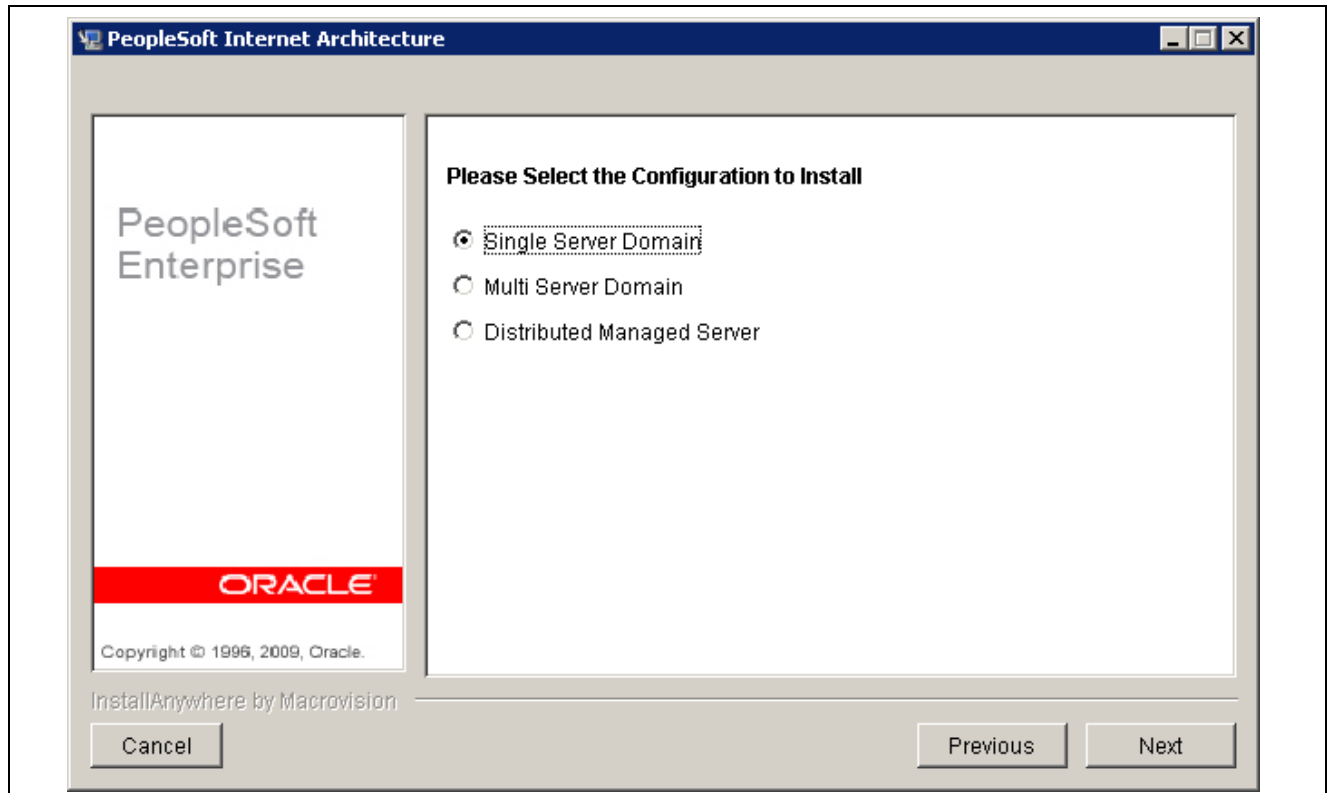
Warning! Re-creating an existing domain will delete everything previously installed into that domain.

See *PeopleTools: PeopleSoft Portal Technology*.

- *Deploy additional PeopleSoft application extensions*

This option is solely for use with PeopleSoft applications. PeopleSoft application extensions are provided with certain PeopleSoft applications, and this option allows you to deploy those extensions. Consult the installation documentation for your PeopleSoft application to see if this option is appropriate. PeopleSoft PeopleTools does not use application extensions.

10. If there are application packages in the archives directory, you'll be asked whether you want to deploy them. (If you are using an existing domain, you'll only be prompted if you selected Deploy additional PeopleSoft extensions.)
11. Select the type of domain to create—single server, multi server, or distributed managed server.



Choosing the domain type

There are three domain configuration options:

- *Single Server Domain*

This domain configuration contains one server named PIA, and the entire PeopleSoft application is deployed to it. This configuration is intended for single user or very small scale, non-production environments. This configuration is very similar to the Oracle WebLogic domain provided in PeopleSoft PeopleTools 8.40 through 8.44.

- *Multi Server Domain*

This domain configuration contains seven unique server definitions, an Oracle WebLogic cluster, and the PeopleSoft application split across multiple servers. This configuration is intended for a production environment.

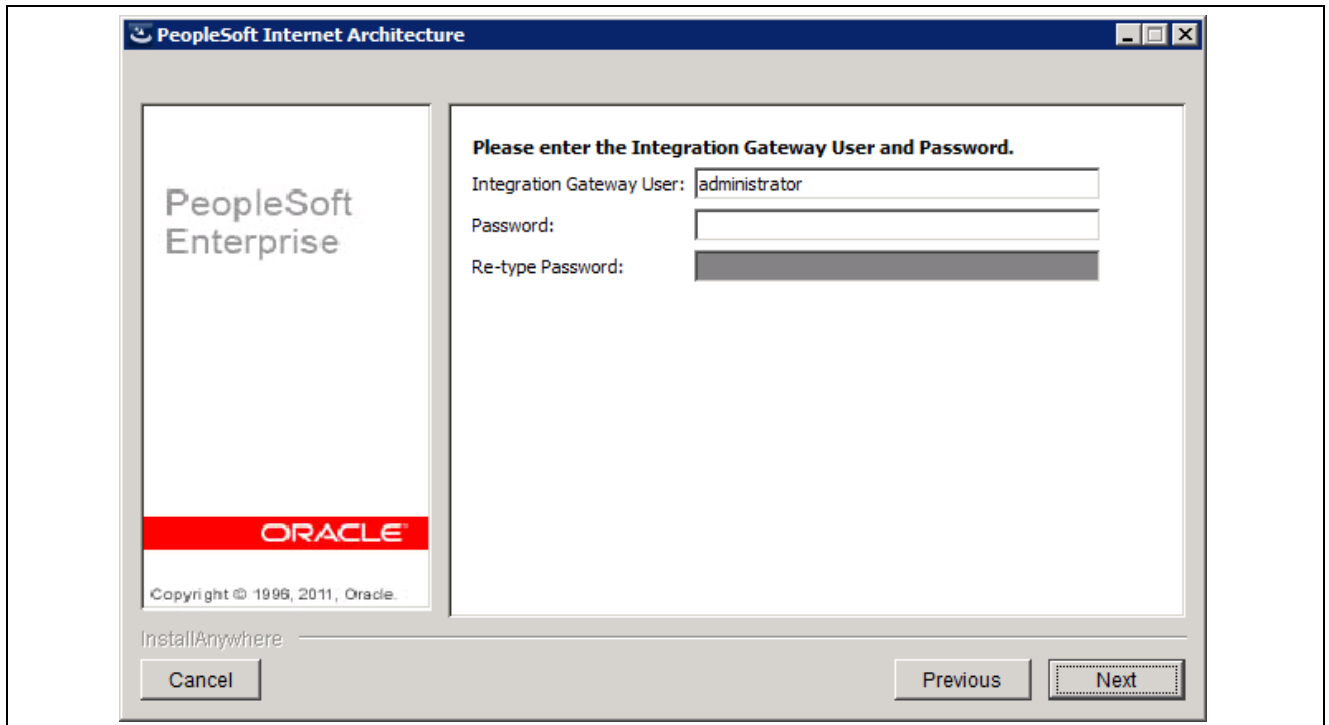
- *Distributed Managed Server*

This option is an extension of the Multi Server Domain selection and installs the necessary files to boot a managed server. This option requires a Multi Server installation to be performed to some other location, which will contain the configuration for this managed server.

12. Enter the Integration Gateway User and password.

The default Integration Gateway User is administrator. The password must be at least 8 alphanumeric characters.

See *PeopleTools: PeopleSoft Integration Broker Administration*.

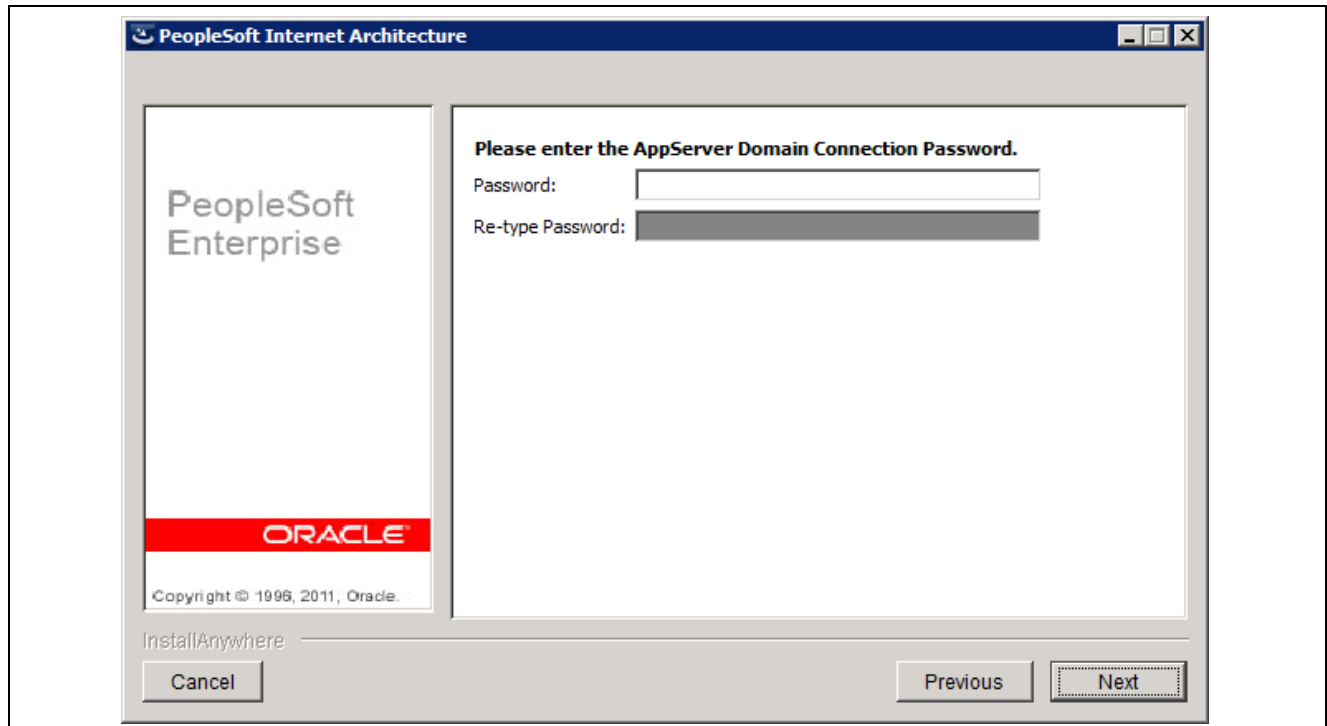


Specifying the Integration Gateway User and password on the PeopleSoft Internet Architecture window

13. Enter the AppServer Domain Connection password (optional).

If you configured your Application Server domain to require a Domain Connection password, enter it here. Otherwise, leave it blank. This password will be propagated to the Integration Gateway.

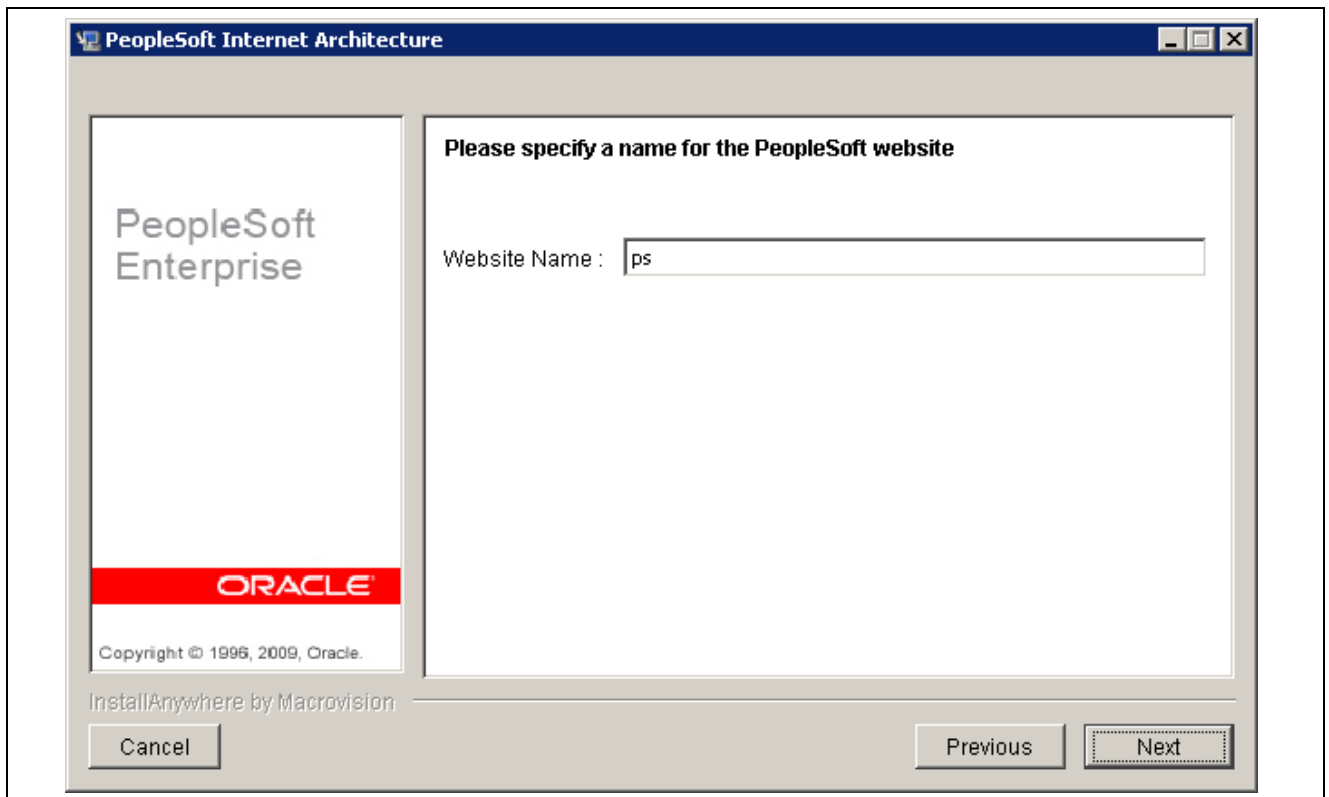
For more information about Application Server domain configuration and setting domain parameters, see the product documentation *PeopleTools: System and Server Administration*.



Specifying the AppServer Domain Connection Password on the PeopleSoft Internet Architecture window

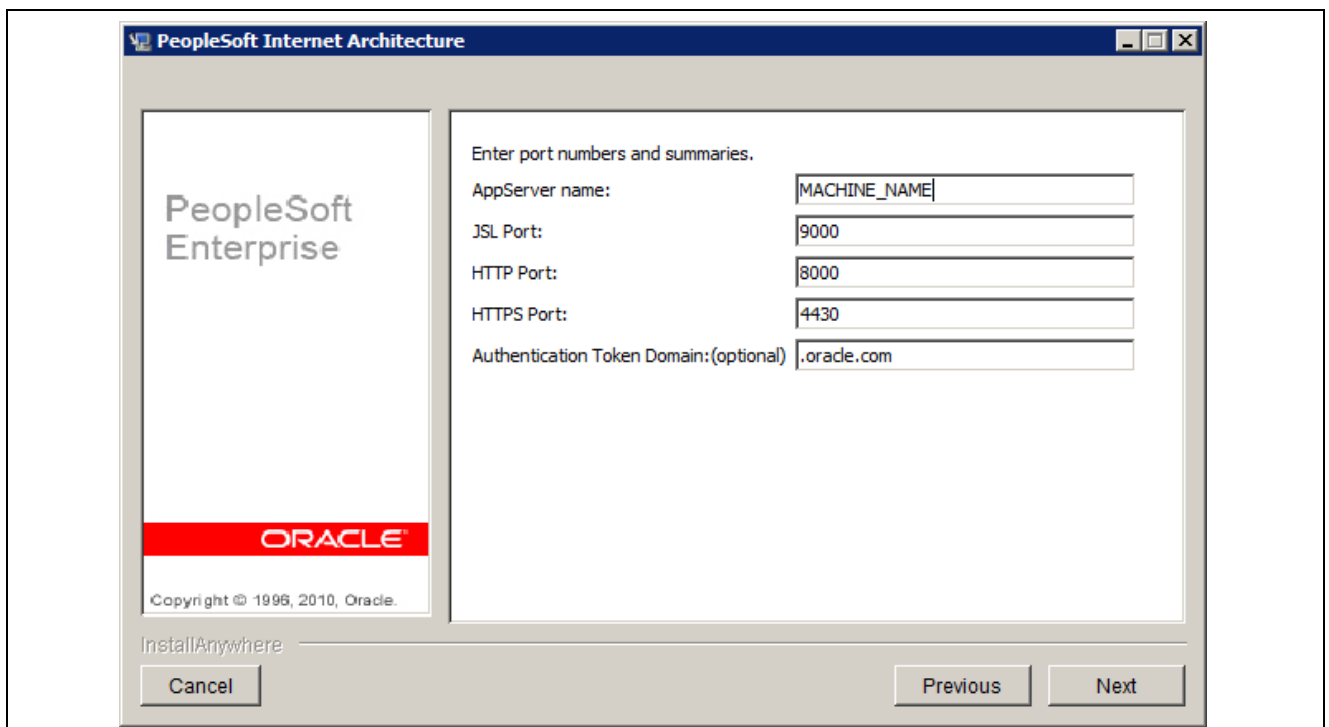
14. Enter a PeopleSoft web site name; the default is ps.

Warning! The site name can include underscores (_), but an underscore cannot be followed by a numeric character or the string “newwin” (for example, my_site_3 or my_newwin_site).



Specifying the PeopleSoft website name

15. Specify your application server name, its JSL (Jolt Station Listener) port number, its HTTP and HTTPS port numbers, the Authentication Token Domain (optional), and click Next.



Specifying application server name, port numbers, and authentication token domain

- *AppServer name*

For the AppServer name setting, enter the name of your application server.

- *JSL Port*

For the JSL port setting, enter the JSL port number you specified when setting up your application server. (The default value is 9000.)

See "Configuring the Application Server on <Windows or UNIX>."

- *Authentication Token Domain*

Note. The value you enter for Authentication Token Domain must match the value you specify when configuring your application server, as described earlier in this book. In addition, certain installation configurations require that you specify an authentication domain.

See Using Authentication Domains in the PeopleSoft Pure Internet Architecture Installation.

If you enter a value for Authentication Token Domain, the URL to invoke PeopleSoft Pure Internet Architecture must include the network domain name in the URL. For example, if you do not enter an authentication domain, the URL to invoke PeopleSoft Pure Internet Architecture is `http://MachineName/ps/signon.html`. If you do enter a value for the authentication domain (for example, `.myCompany.com`), the URL to invoke PeopleSoft Pure Internet Architecture is `http://MachineName.myCompany.com/ps/signon.html`. In addition, if the web server for the database is using an http port other than the default port of 80, the URL must include the port number, for example `http://MachineName:8080/ps/signon.html` if there is no authentication domain, or `http://MachineName.myCompany.com:8080/ps/signon.html` if there is an authentication domain. The URL must also comply with the naming rules given earlier in this chapter.

See Understanding the PeopleSoft Pure Internet Architecture.

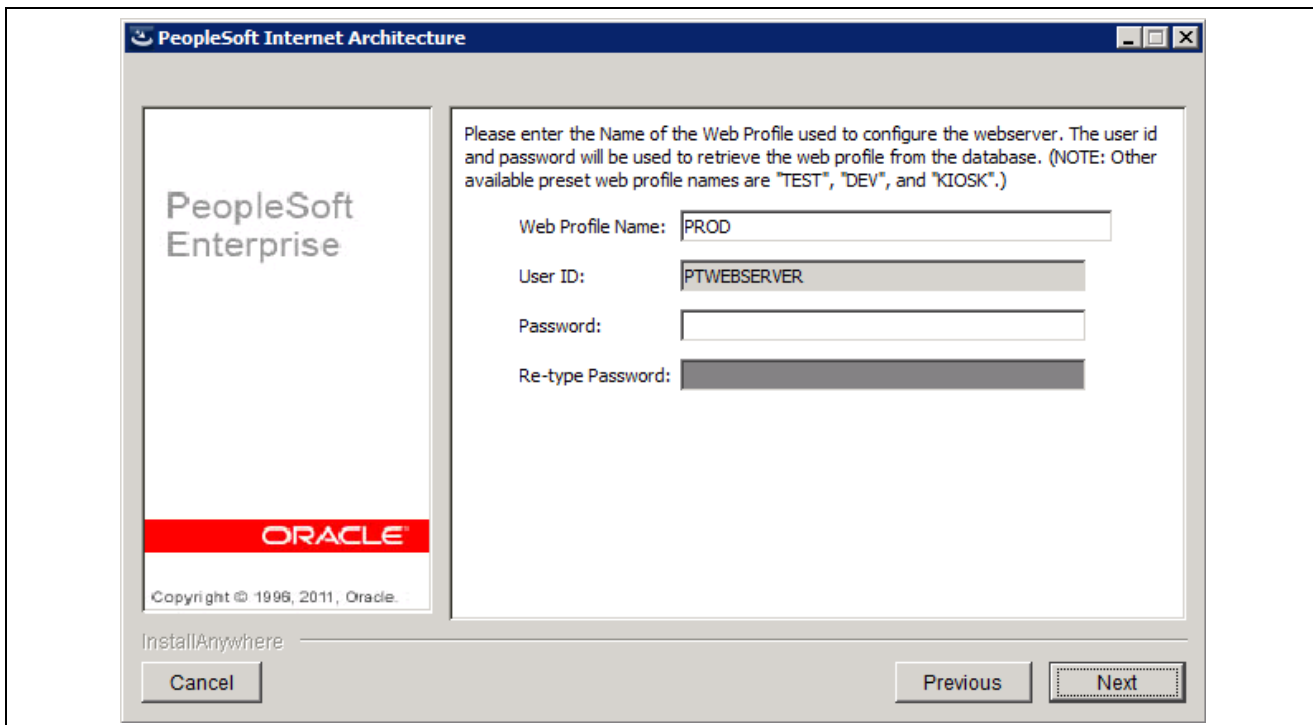
16. Enter the details for the web profile, PROD, or enter another name.

The example below shows the default web profile name, PROD, and default user ID, PTWEBSEVER.

The web profile name will be used to configure this web site. You can specify one of the other predelivered web profiles, DEV, TEST, or KIOSK, or enter a different name. If you intend to use a Web Profile User ID other than the default, PTWEBSEVER, be sure to review the information on web profile configuration and security in the *PeopleTools: PeopleSoft Portal Technology* product documentation.

Note. If the PeopleSoft PeopleTools version of your database is *below* 8.44, then you will need to add the PTWEBSEVER User Profile before you upgrade to the current PeopleSoft PeopleTools release. The User Profile must include the PeopleTools Web Server role, but do not grant any other roles. Enter the password that you set for the User Profile for the User ID password in this step. The password must be at least 8 alphanumeric characters.

See the *PeopleTools: Security Administration* product documentation for the steps required to add a User Profile.



Specifying web profile information on the PeopleSoft Internet Architecture window

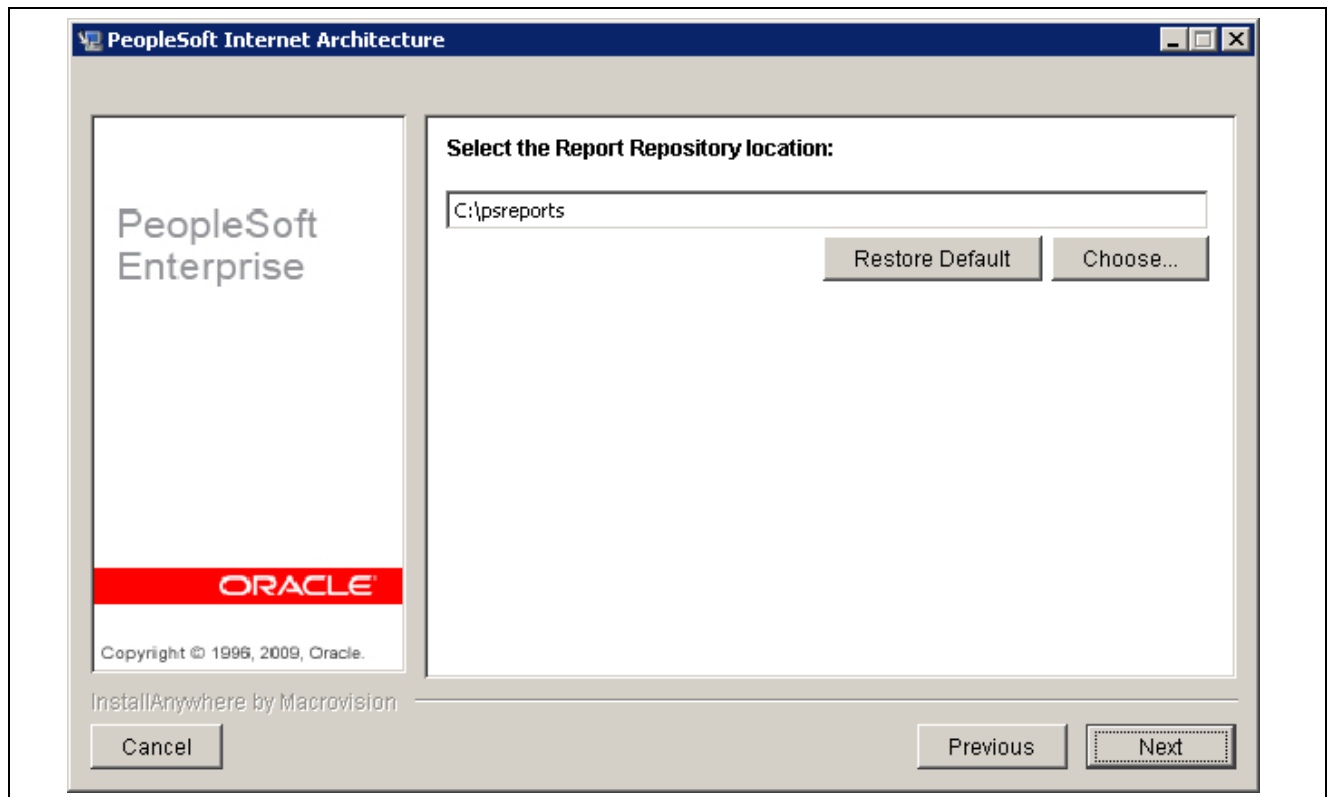
17. Specify the root directory for the Report Repository, and click Next.

Make sure that the report repository directory is shared. You must have write access to the Report Repository directory. The default is C:\psreports, as shown in the example below.

Note. In setting up the Process Scheduler to transfer reports, if you choose the FTP transfer protocol, use the same directory for the Home Directory as you use here for the report repository.

See *PeopleTools: PeopleSoft Portal Technology*.

See "Setting Up Process Scheduler on Windows," Setting Up the Process Scheduler to Transfer Reports and Logs to Report Repository.

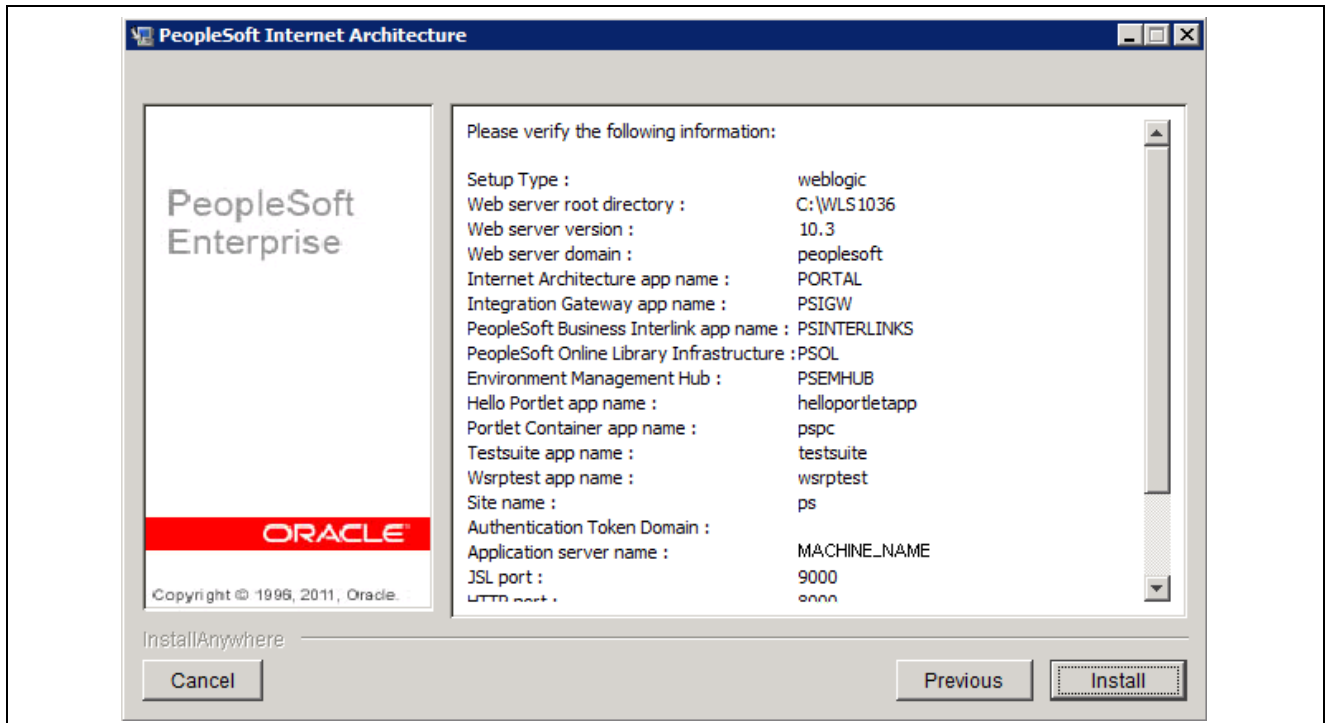


Specifying the Report Repository location

18. Verify all of your selections (click Back if you need to make any changes), and click Install to begin the installation.

The window displays a summary of the installation information, such as web server software, web server root directory, version, and so on.

Note. The PeopleSoft Online Library Infrastructure is no longer used in PeopleSoft PeopleTools, and that line in the summary, as seen in this example, can be ignored.



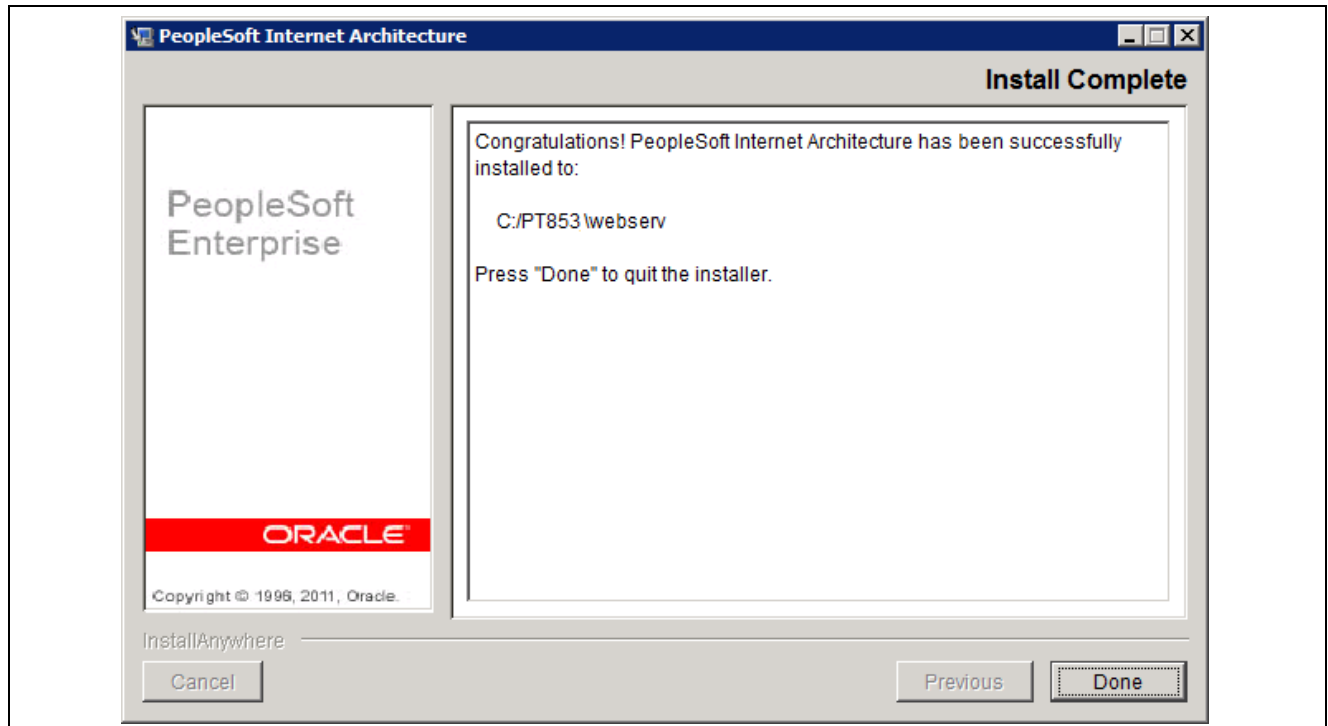
Summary information for the PeopleSoft Internet Architecture installation

An indicator appears showing the progress of your installation.

19. Click Finish to complete the installation.

The default installation directory, shown on the Install Complete window, is `<PIA_HOME>\webserv \<domain_name>`. In this example the installation directory is `C:\PT853\webserv`.

Note. If you are installing into an existing domain, you need to restart that domain.



PeopleSoft Internet Architecture Install Complete window

Task 9A-2-2: Uninstalling the PeopleSoft Pure Internet Architecture on Oracle WebLogic

To remove a PIA domain deployed on Oracle WebLogic, delete the folder `<PIA_HOME>\websew\<domain_name>`. If there is more than one domain, delete the `domain_name` folder for every domain you want to uninstall.

Task 9A-3: Installing the PeopleSoft Pure Internet Architecture on IBM WebSphere in GUI Mode

This section discusses:

- Prerequisites
- Installing the PeopleSoft Pure Internet Architecture on IBM WebSphere
- Uninstalling the PeopleSoft Pure Internet Architecture from IBM WebSphere

Prerequisites

The information in this section applies to the installation of PeopleSoft Pure Internet Architecture (PIA) on an IBM WebSphere Application Server. PeopleSoft PeopleTools 8.52 and later releases require a 64-bit IBM WebSphere ND installation. Review these points before beginning the installation:

- Before installing the PeopleSoft Pure Internet Architecture on IBM WebSphere Application Server Network Deployment, (referred to here as IBM WebSphere ND) you must have installed the IBM WebSphere ND software.
- Each IBM WebSphere Application Server runs one PeopleSoft Pure Internet Architecture application. If you need to install more than one PeopleSoft Pure Internet Architecture application on your IBM WebSphere Application Server, you must run the PIA installation again.
- When installing PIA on IBM WebSphere ND, you must work with a local copy of the PIA installation software; you cannot install remotely. If you are doing the installation on a machine other than the one on which you installed PeopleSoft PeopleTools, copy the *PS_HOME\setup\PsmPPIAInstall* directory to the local machine and keep the same directory structure.
- Both IBM WebSphere Application Server Network Deployment and PeopleSoft Pure Internet Architecture need to be installed and deployed using the same user ID. Following this requirement avoids any security and profile management issues.

See Also

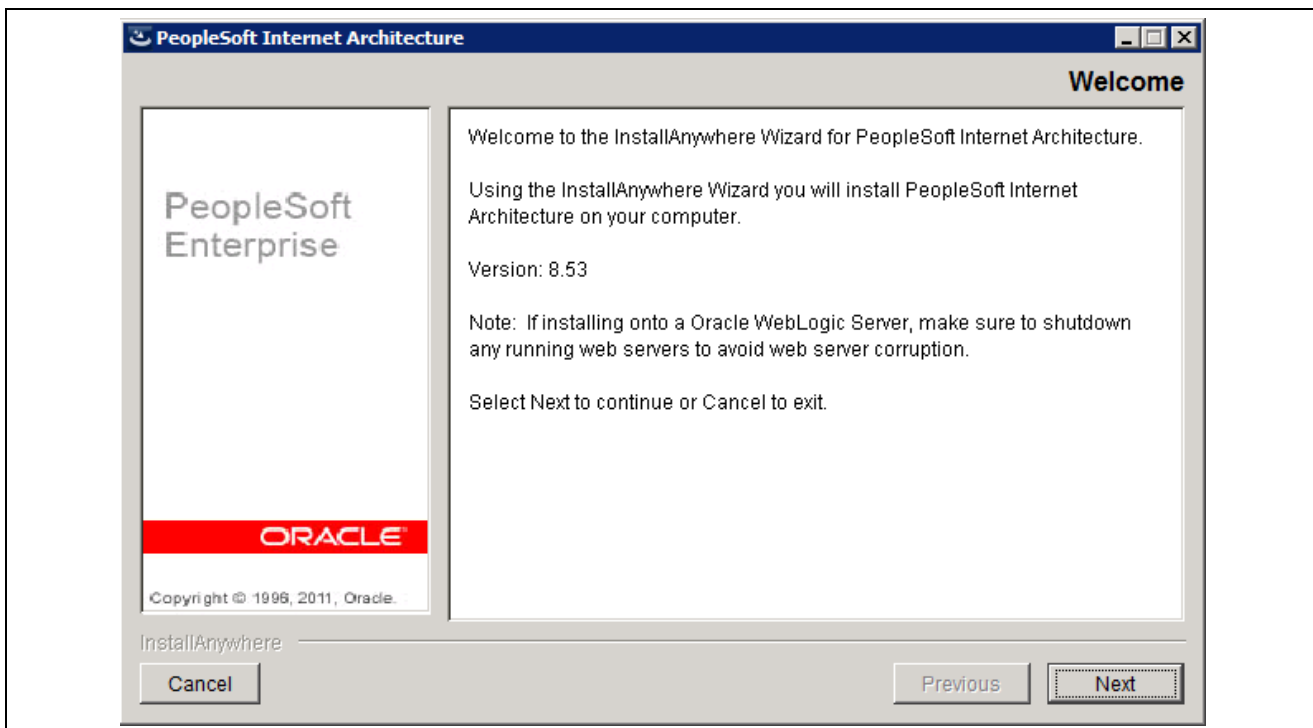
"Installing Web Server Products," Installing IBM WebSphere Application Server

Task 9A-3-1: Installing the PeopleSoft Pure Internet Architecture on IBM WebSphere

To install PIA on IBM WebSphere ND:

1. Go to *PS_HOME\setup\PsmPPIAInstall*.
2. Double-click on *setup.bat*.

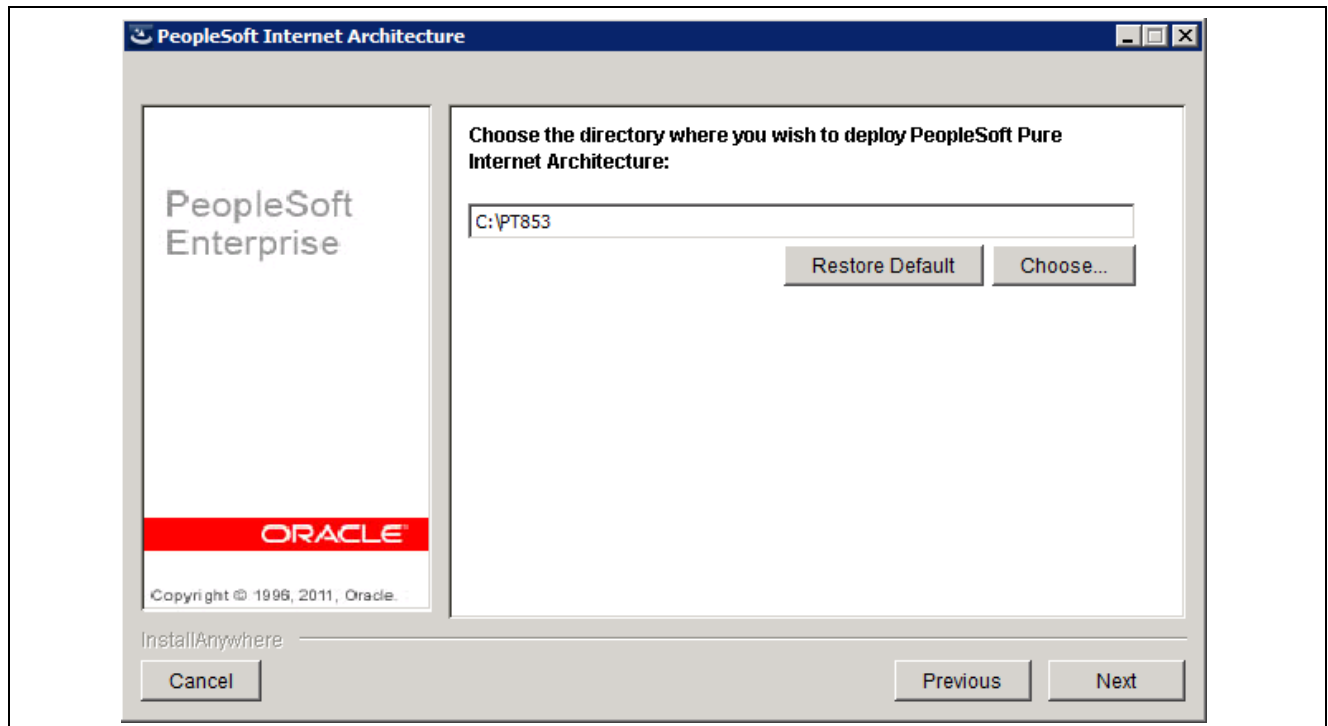
The Welcome window appears.



PeopleSoft Internet Architecture Installation Welcome window

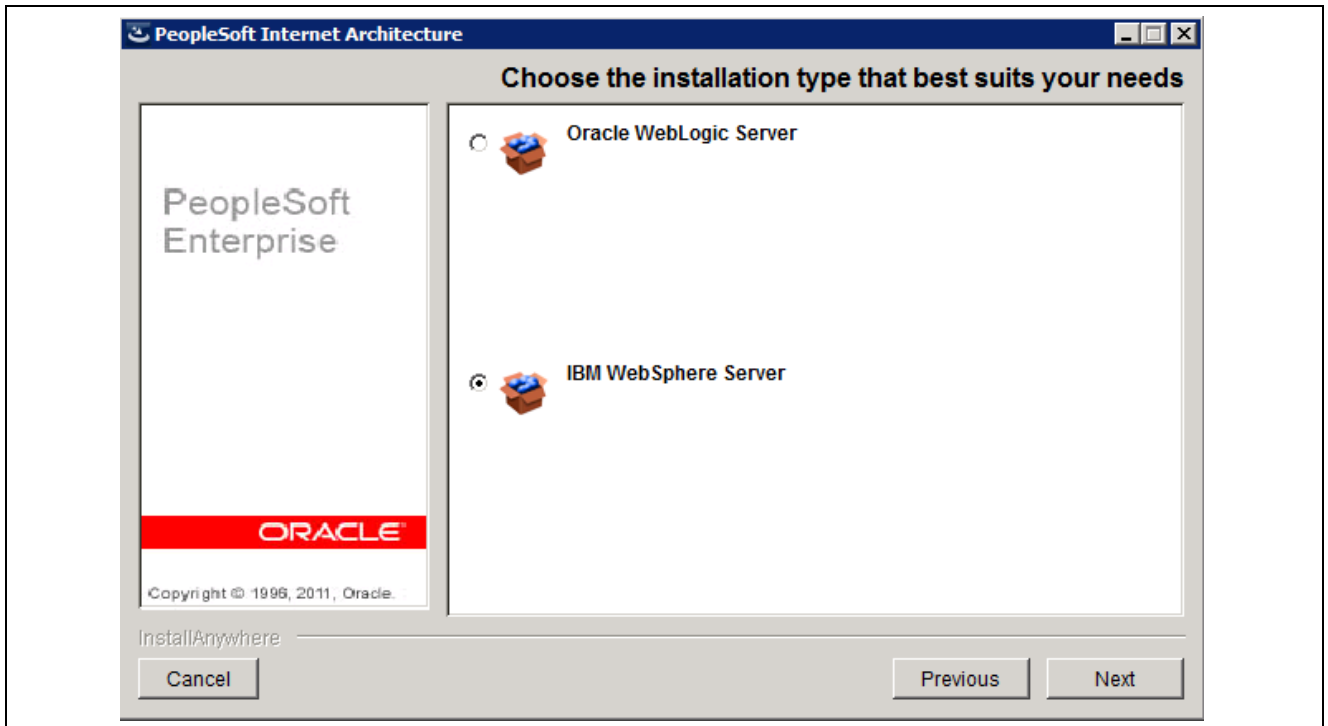
3. Click Next in the Welcome window, and specify the directory where you want to install the PeopleSoft Pure Internet Architecture, referred to here as *PIA_HOME*.

The default path for *PIA_HOME* is the *PS_CFG_HOME* path. In this example, the directory is the same as *PS_HOME*, C:\PT853.



Specifying the installation location for PeopleSoft Pure Internet Architecture

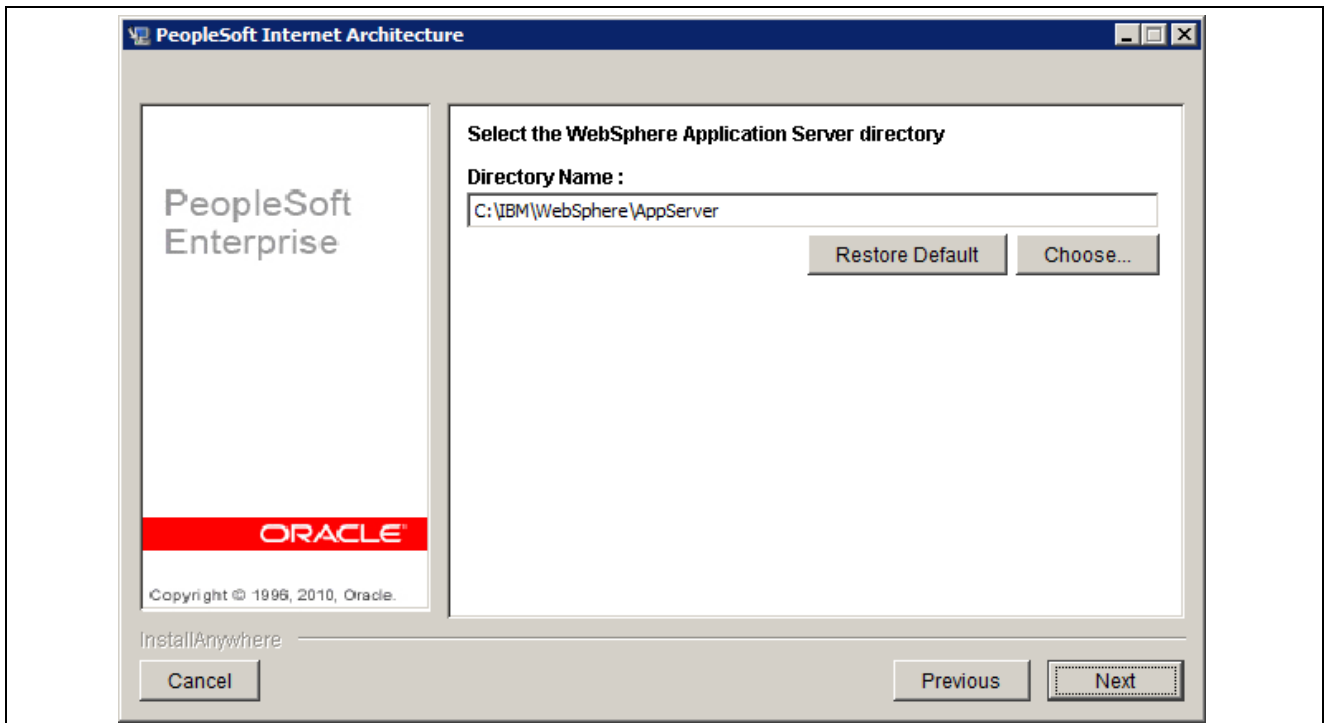
4. Select the option IBM WebSphere Server and click Next.



Selecting IBM WebSphere Server for the PeopleSoft Pure Internet Architecture installation

5. Specify the directory where IBM WebSphere ND was installed, referred to as *WAS_HOME*.
The directory in this example is C:\IBM\WebSphere\AppServer. Click Next.

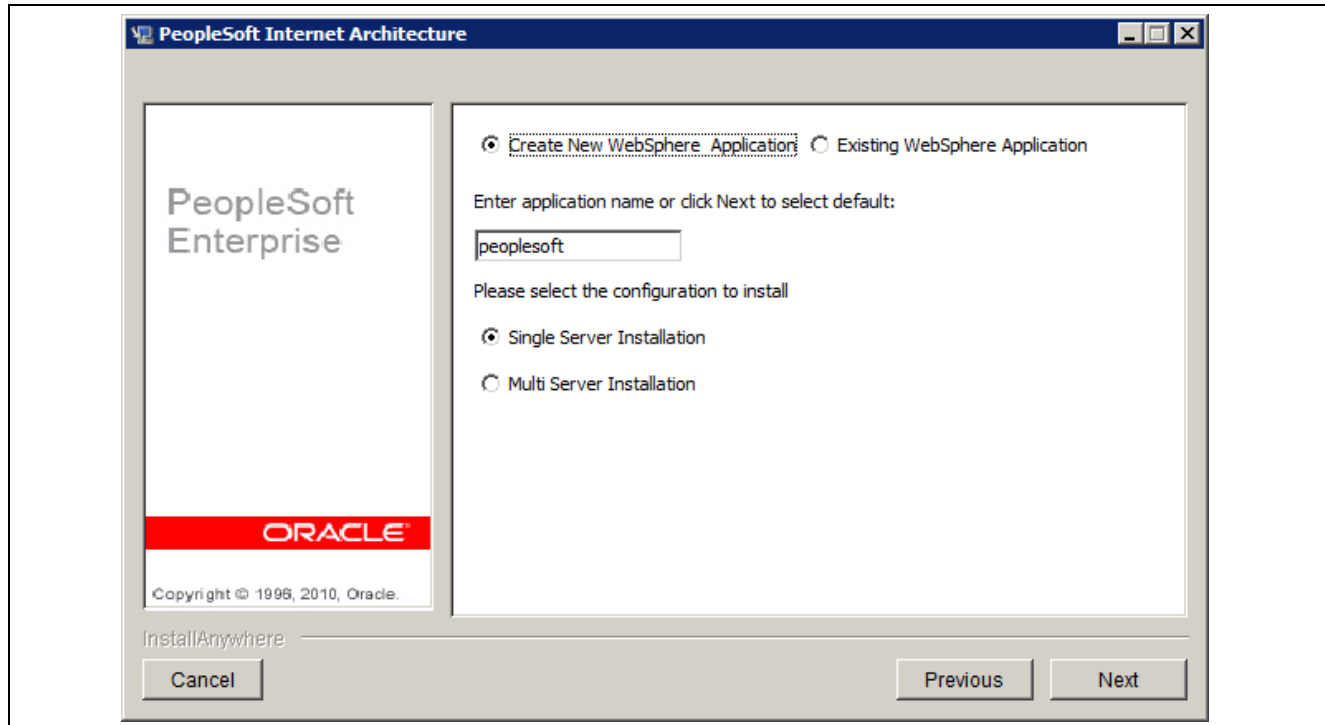
Note. If you specify a 32-bit installation of IBM WebSphere ND, a message appears asking you to confirm the decision. Keep in mind that PeopleSoft PeopleTools requires 64-bit IBM WebSphere ND.



Specifying the IBM WebSphere Application Server directory for the PeopleSoft Pure Internet Architecture

6. Choose whether to create a new IBM WebSphere application (domain) or to use an existing application, and specify the name of the application (referred to as *application_name* below). Enter an application name for this web server (for example, peoplesoft) and select the type of server you want to install.

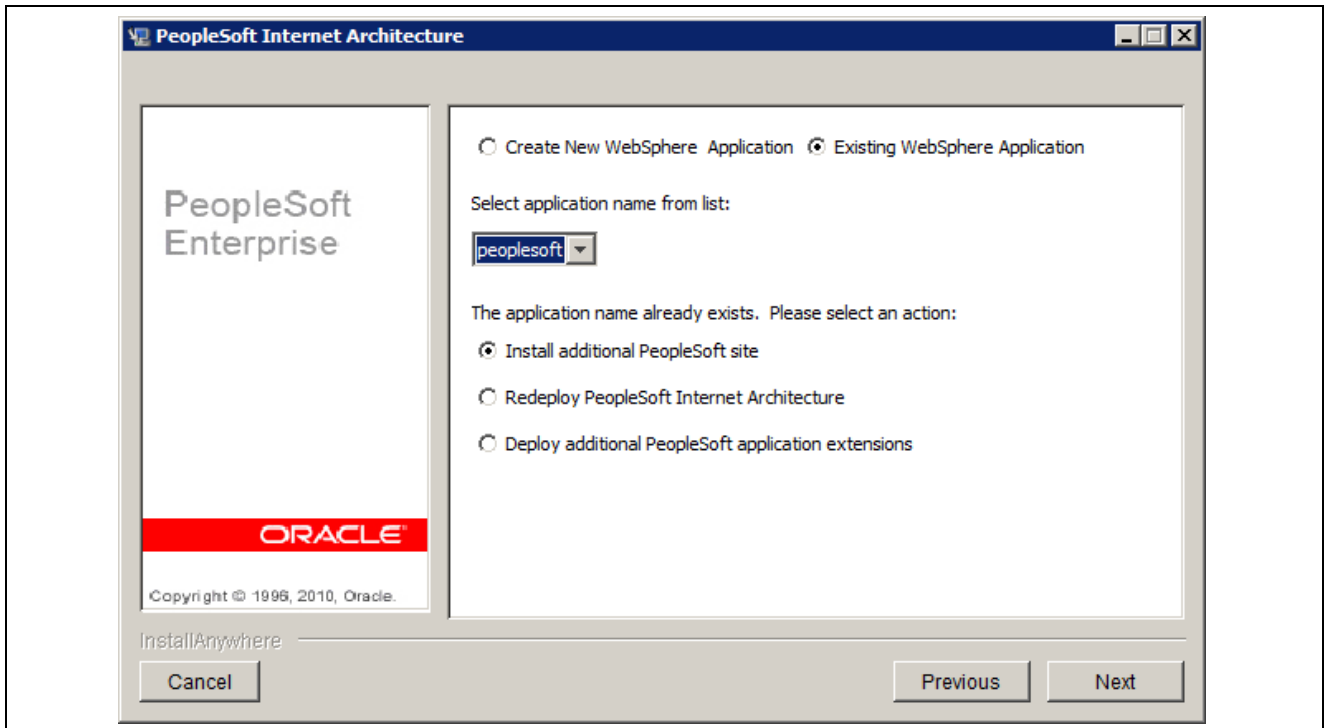
Note. The name you specify here for each application must be unique for each IBM WebSphere node.



Specifying a new IBM WebSphere domain in a single server installation

- If you select Create New WebSphere Application, the install automatically generates a valid application name in the application name field. If you attempt to enter an invalid application name, you'll be prompted to enter a new application name or choose an existing application.
 - If there is already a WebSphere application in *PIA_HOME*, the option Existing WebSphere Application is active, as described in the next step.
7. If you select the Existing WebSphere Application option, you can choose from a drop-down list of existing applications, and can select whether to install an additional PeopleSoft site, redeploy PeopleSoft Pure Internet Architecture, or deploy additional PeopleSoft application extensions. You can also choose a single-server or multi-server installation.

Note. Make sure the server is up and running before installing an additional PeopleSoft site, redeploying PIA, or deploying additional PeopleSoft application extensions.



Specifying an existing IBM WebSphere application

Install additional PeopleSoft site

Select this option to install only the necessary files for defining an additional PeopleSoft site onto the existing IBM WebSphere ND web server configuration.

Redeploy PeopleSoft Internet Architecture

This selection affects all of the PIA web applications installed to the local WebSphere Application Server profile. Select this option to redeploy applications that comprise web components of PIA.

Deploy additional PeopleSoft application extensions

This option is solely for use with PeopleSoft product applications. PeopleSoft application extensions are provided with certain PeopleSoft applications, and this option allows you to deploy those extensions. Consult the installation documentation for your PeopleSoft application to see whether this option is appropriate. PeopleSoft PeopleTools does not use application extensions.

Single-server installation

The Single Server Installation option creates one WebSphere Application Server profile to hold all the PeopleSoft web applications. The installer uses the Application Name you enter for the new profile's name.

Multi-server installation

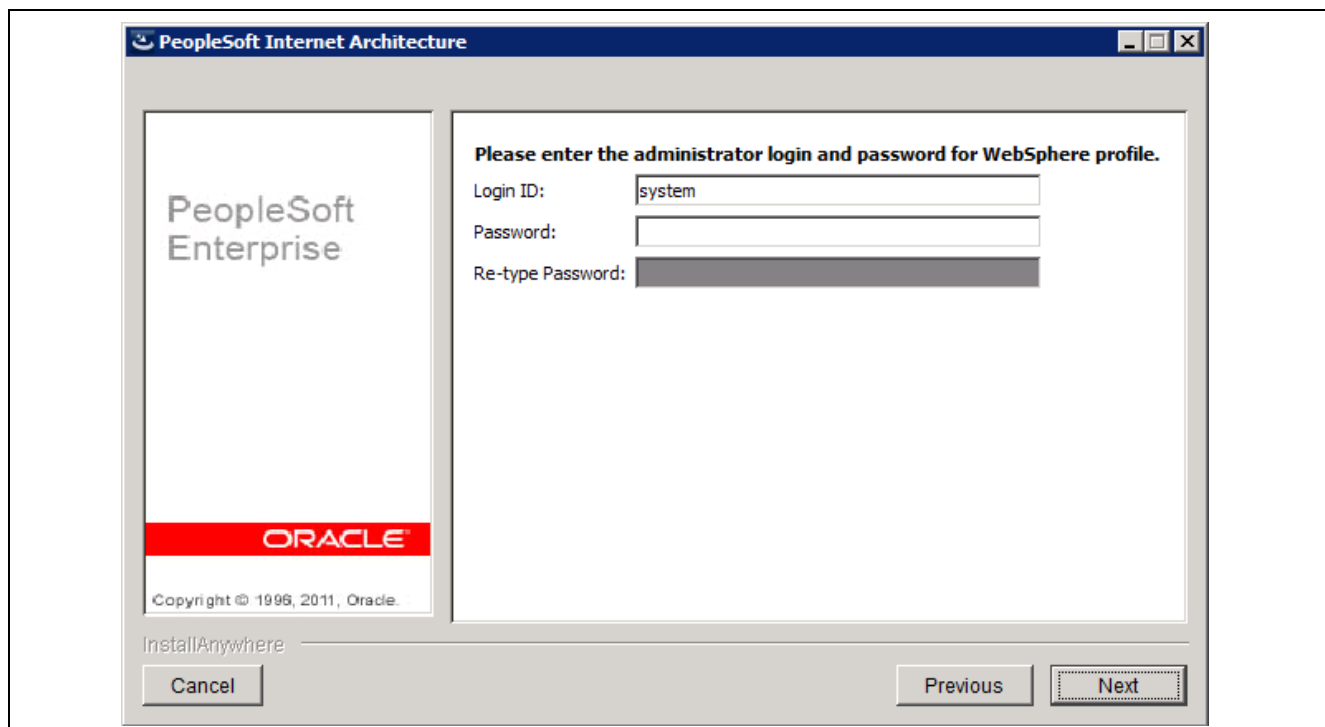
The Multi Server Installation option creates a single profile with the name you entered above, *application_name*. The *application_name* profile includes two servers, which deploy discrete functionality and are found on different ports, as specified in the following table:

Server Name	Purpose	HTTP or HTTPS Port Number
server1	PORTAL applications	X
psemhub	PeopleSoft Environment Management Framework applications (PSEMHUB)	X+1

8. Enter the IBM WebSphere administrator Login ID and password.

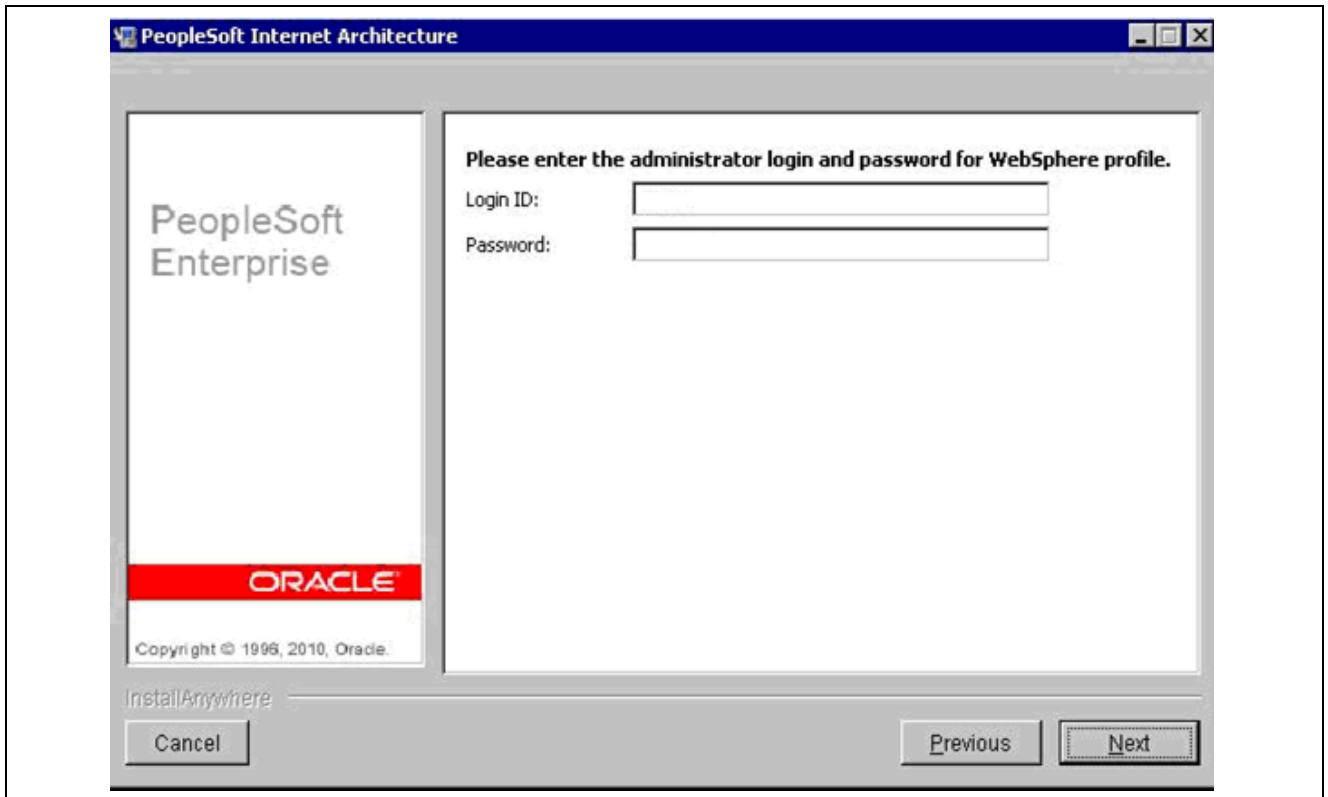
Note. The default administrator login ID is system. The password must be at least 8 alphanumeric characters with one number or special character. Use these criteria to log into the IBM WebSphere administrative console.

If you selected Create New WebSphere Application in the previous step, the following window appears.



Entering the IBM WebSphere administrator login ID and password

If you selected the Existing WebSphere Application option, and either Install additional PeopleSoft site or Redeploy PeopleSoft Internet Architecture, the following window appears. Enter the same Login ID and password as you entered for the original IBM WebSphere Application creation. If the Login ID and password do not match the original values, you cannot continue with the PIA installation.

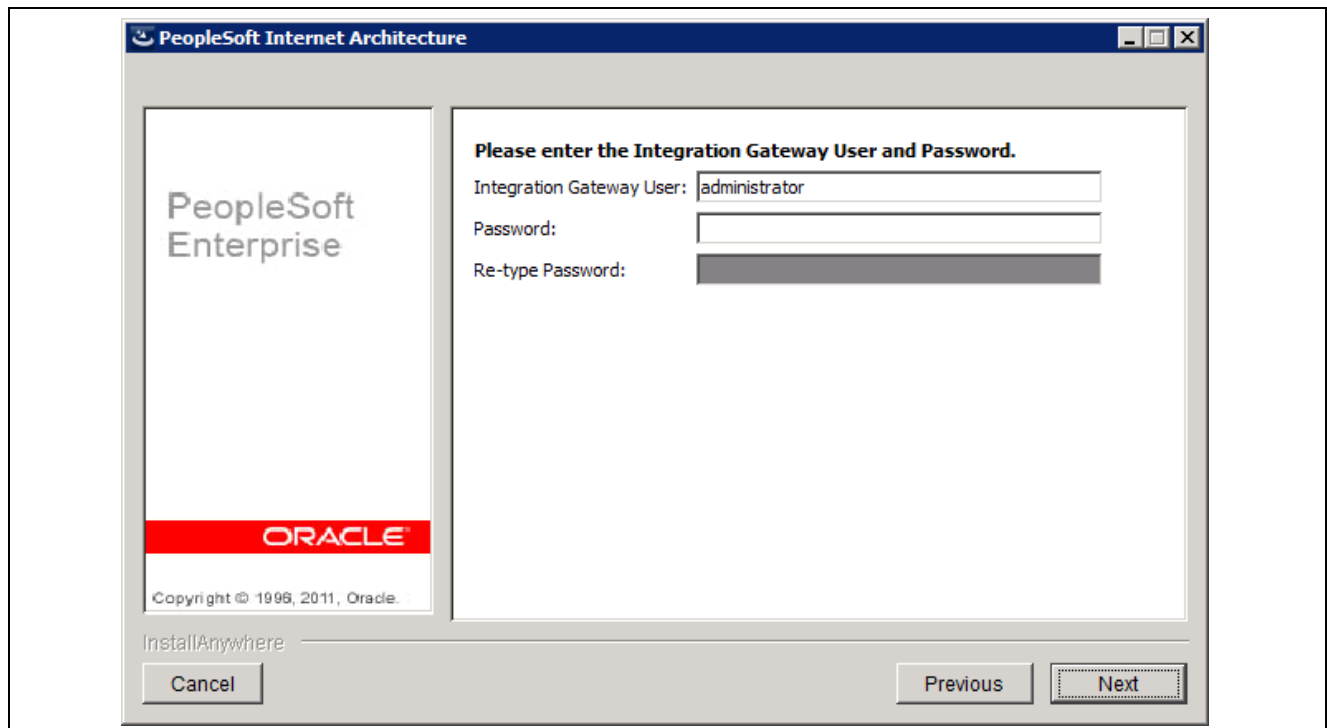


Entering the administrator login and password for an existing IBM WebSphere application

9. If there are PeopleSoft application packages in the archives directory, you'll be asked whether you want to deploy them.

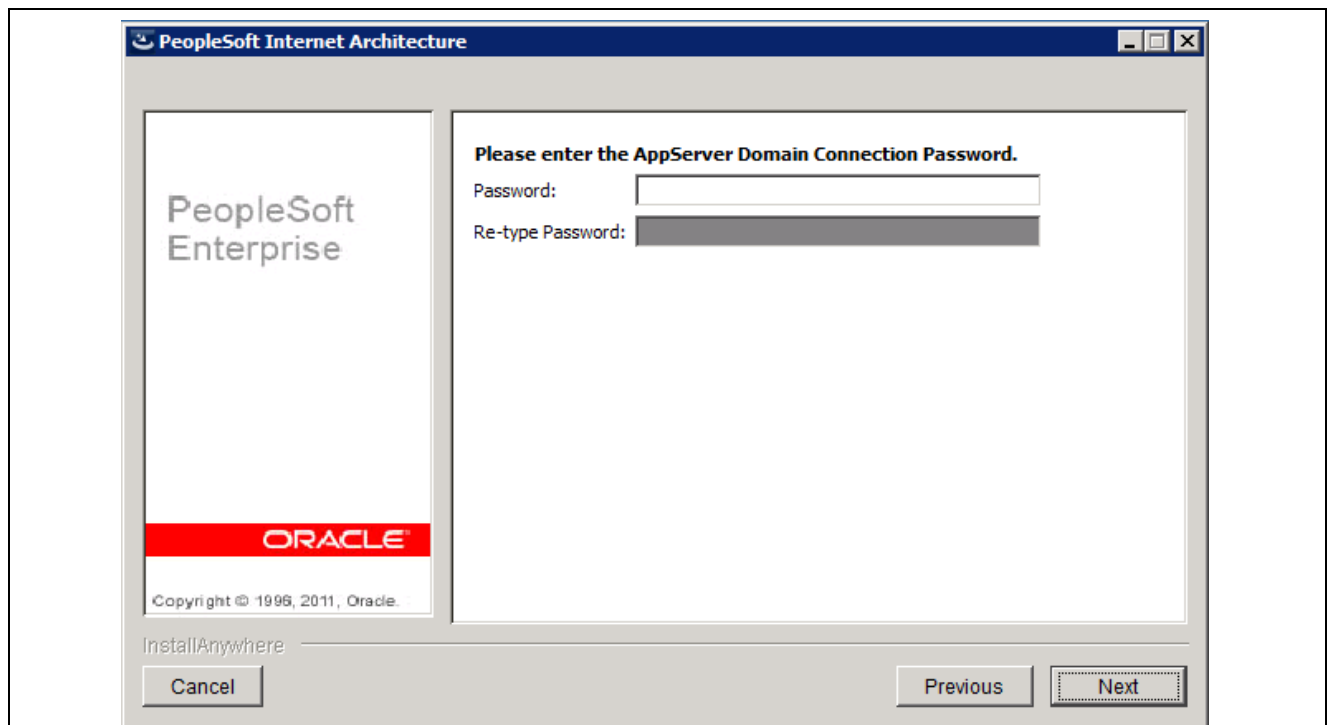
If you are using an existing domain, you'll only be prompted if you selected Deploy additional PeopleSoft extensions.

10. Enter the Integration Gateway User and password.



Entering the Integration Gateway User name and password

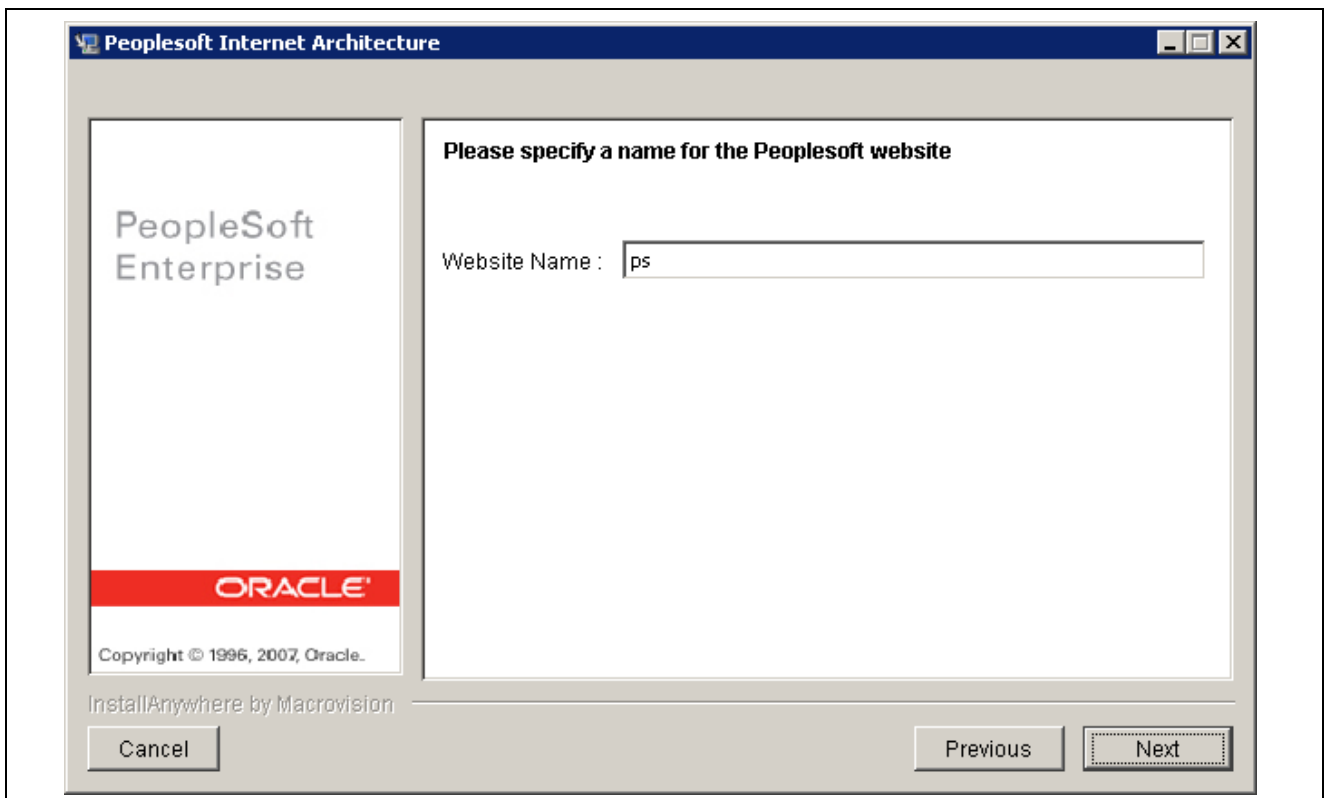
11. Enter the AppServer Domain Connection password (optional).



Entering the AppServer Domain Connection Password

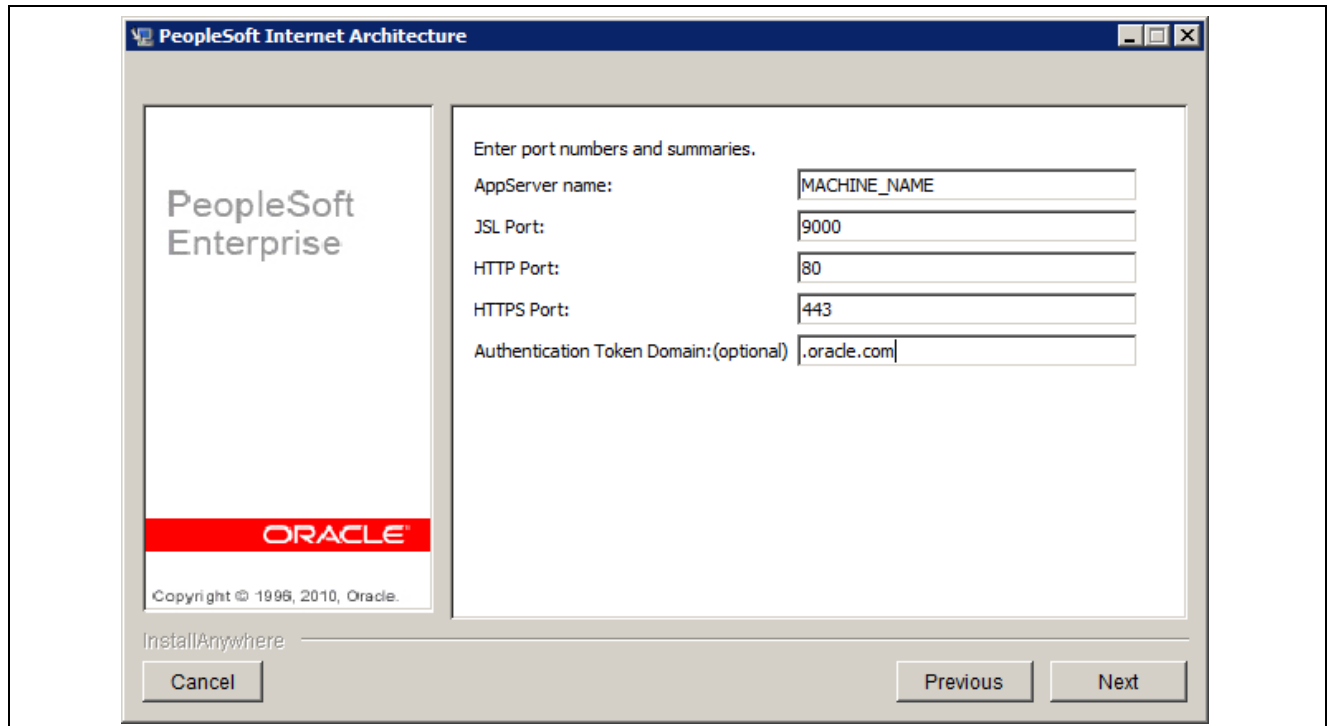
12. Enter a PeopleSoft web site name; the default is ps.

Warning! The site name can include underscores (_), but an underscore cannot be followed by a numeric character or the string “newwin” (for example, my_site_3 or my_newwin_site).



Entering the PeopleSoft web site name

13. Specify your application server name, its JSL (Jolt Station Listener) port number, its HTTP and HTTPS port numbers, the authentication token domain, and click Next.



Specifying the Application Server, port numbers, and authentication token domain for PeopleSoft Pure Internet Architecture

- *AppServer name*

For AppServer name, enter the name of your application server.

- *JSL port*

For the JSL port, enter the JSL port number you specified when setting up your application server. (The default value is 9000.)

See "Configuring the Application Server on Windows."

- *HTTP and HTTPS ports*

When you enter HTTP and HTTPS port numbers, they will not be recognized until you restart your WebSphere server.

In the case of Multi Server Installation type, HTTP and HTTPS ports *cannot* be consecutive numbers. The range for port number will be <Port#>-<Port#>+1 for the two application servers that the install creates. For example, if you select HTTP Port as 5555 and HTTPS port as 5560 then the ports are assigned as given below.

Server Name	HTTP Port Number	HTTPS Port Number
server1	5555	5560
psemhub	5556	5561

- *Authentication Token Domain*

The value you enter for Authentication Token Domain must match the value you specify for the authentication domain when configuring your application server, as described earlier in this book. In addition, certain installation configurations require that you specify an authentication domain.

See Using Authentication Domains in the PeopleSoft Pure Internet Architecture Installation.

If you enter a value for the Authentication Token Domain, the URL to invoke PIA must include the network domain name in the URL. For example, if you do not enter an authentication domain, the URL to invoke PIA is `http://MachineName:port/ps/signon.html`. If you do enter a value for the authentication domain (for example, `.myCompany.com`), the URL to invoke PIA is `http://MachineName.myCompany.com:port/ps/signon.html`. The URL must also comply with the naming rules given earlier in this chapter.

See "Understanding the PeopleSoft Pure Internet Architecture."

14. Enter the details for the web profile, PROD, or enter another name.

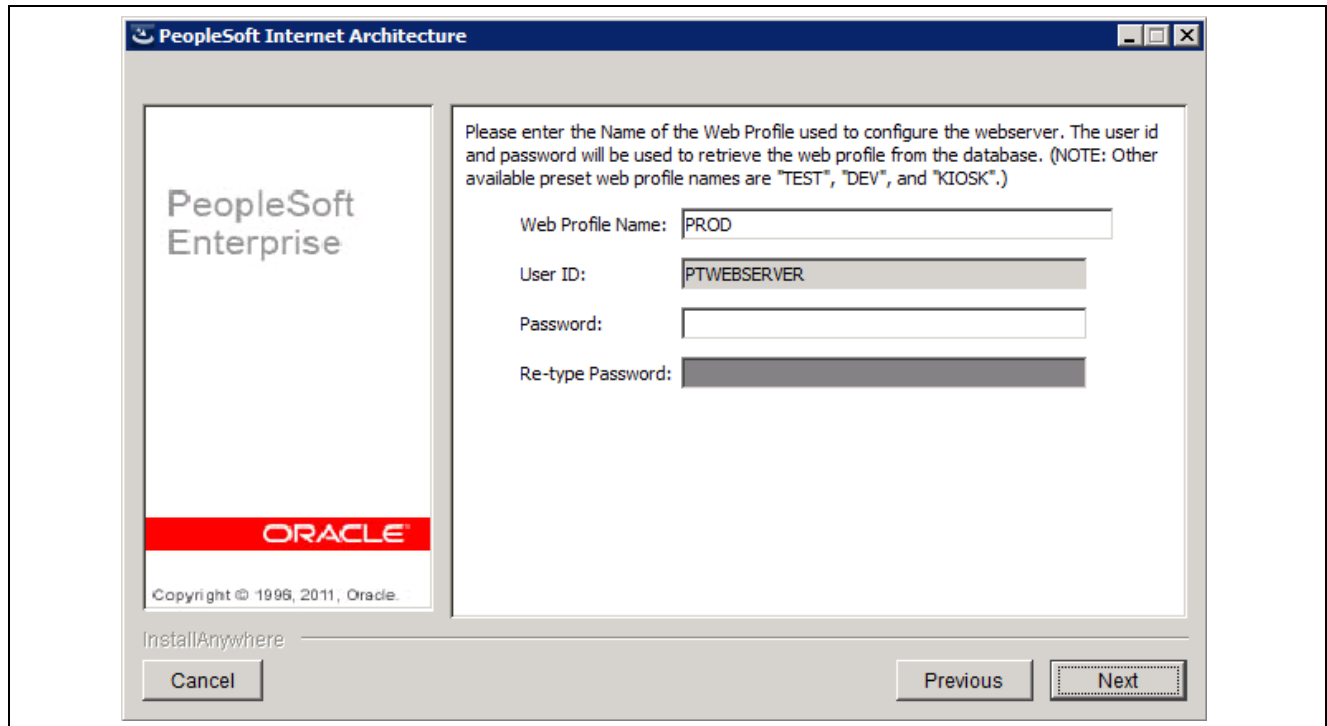
The following example shows the default web profile name, PROD, and default user ID, PTWEBSEVER.

The web profile name will be used to configure this web site. You can specify one of the other predelivered web profiles, DEV, TEST, or KIOSK, or enter a different name. If you intend to use a Web Profile User ID other than the default, be sure to review the information on web profile configuration and security.

Enter the password that you set for the User Profile for the User ID password in this step. The password must be at least 8 alphanumeric characters.

For more information on configuring web profiles, see the *PeopleTools: PeopleSoft Portal Technology* product documentation.

Note. If the PeopleSoft PeopleTools version of your database is *below* 8.44, then you will need to add the PTWEBSEVER User Profile before you upgrade to the current PeopleSoft PeopleTools release. The User Profile must include the PeopleTools Web Server role, but do not grant any other roles. Enter the password that you set for the User Profile for the User ID password in this step, as shown in this example. See the product documentation *PeopleTools: Security Administration* for the steps required to add a User Profile.



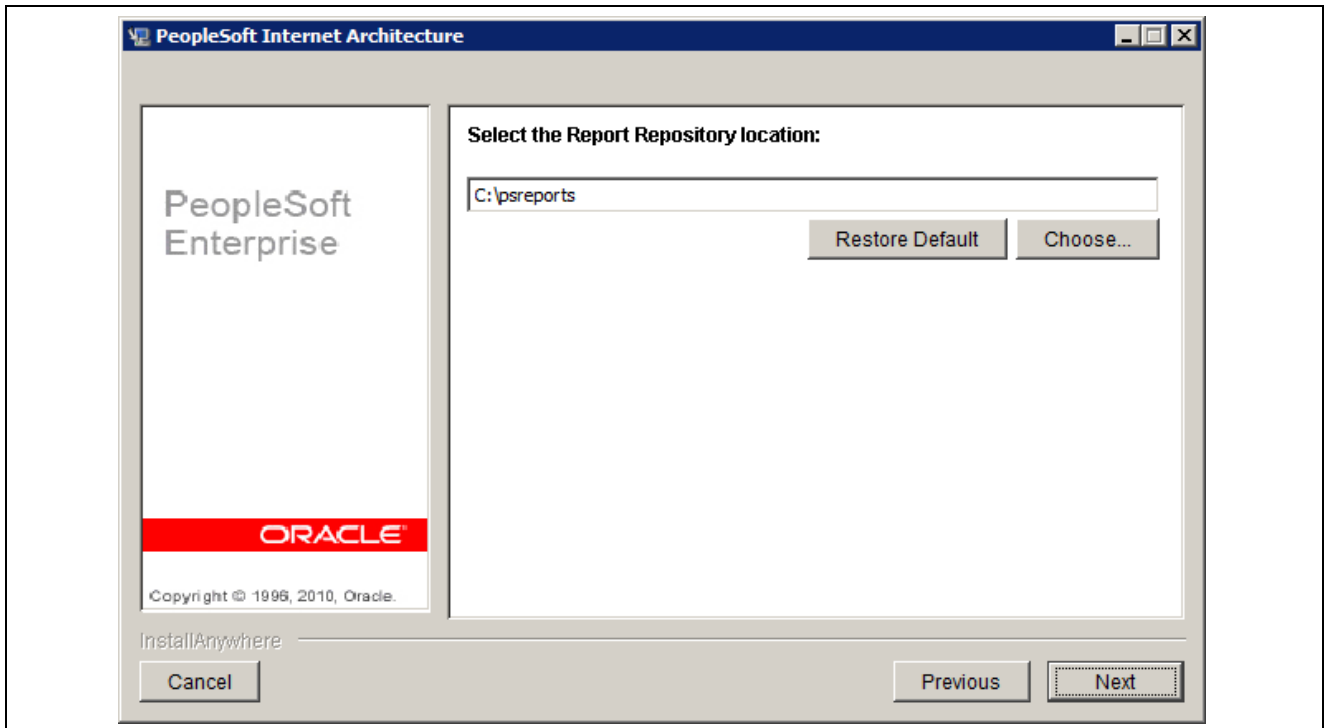
Entering the Web Profile name, user ID, and password

15. Specify the root directory for the Report Repository (c:\psreports by default), and click Next.

Make sure that the report repository directory is shared, and that you have write access.

Note. In setting up the Process Scheduler to transfer reports, if you choose the FTP protocol, use the same directory for the Home Directory as you use here for the report repository.

See "Setting Up Process Scheduler on Windows," Setting Up the Process Scheduler to Transfer Reports and Logs to Report Repository.

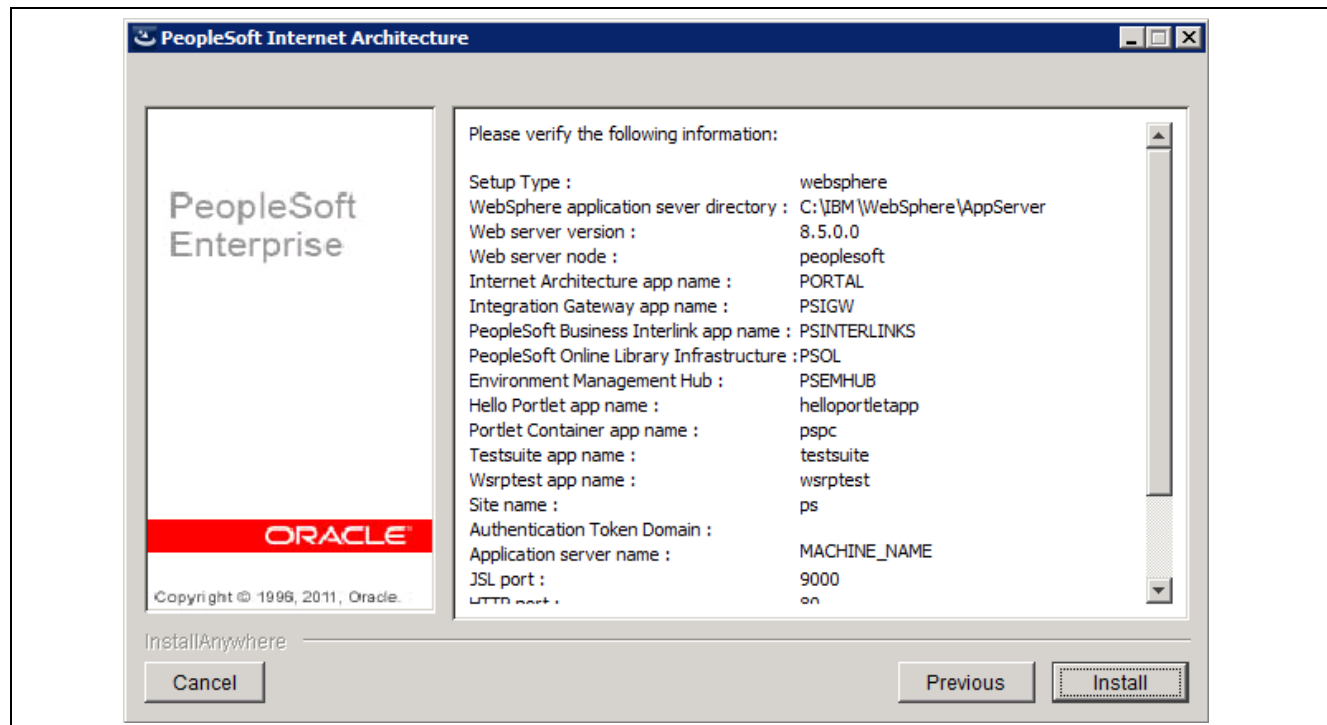


Specifying the Report Repository location for PeopleSoft Pure Internet Architecture

16. Verify all your selections.

The window lists the installation information, such as the web server type, directory, version, and so on. Click Back if you need to make any changes and click Next to begin the installation. An indicator shows the progress of your installation.

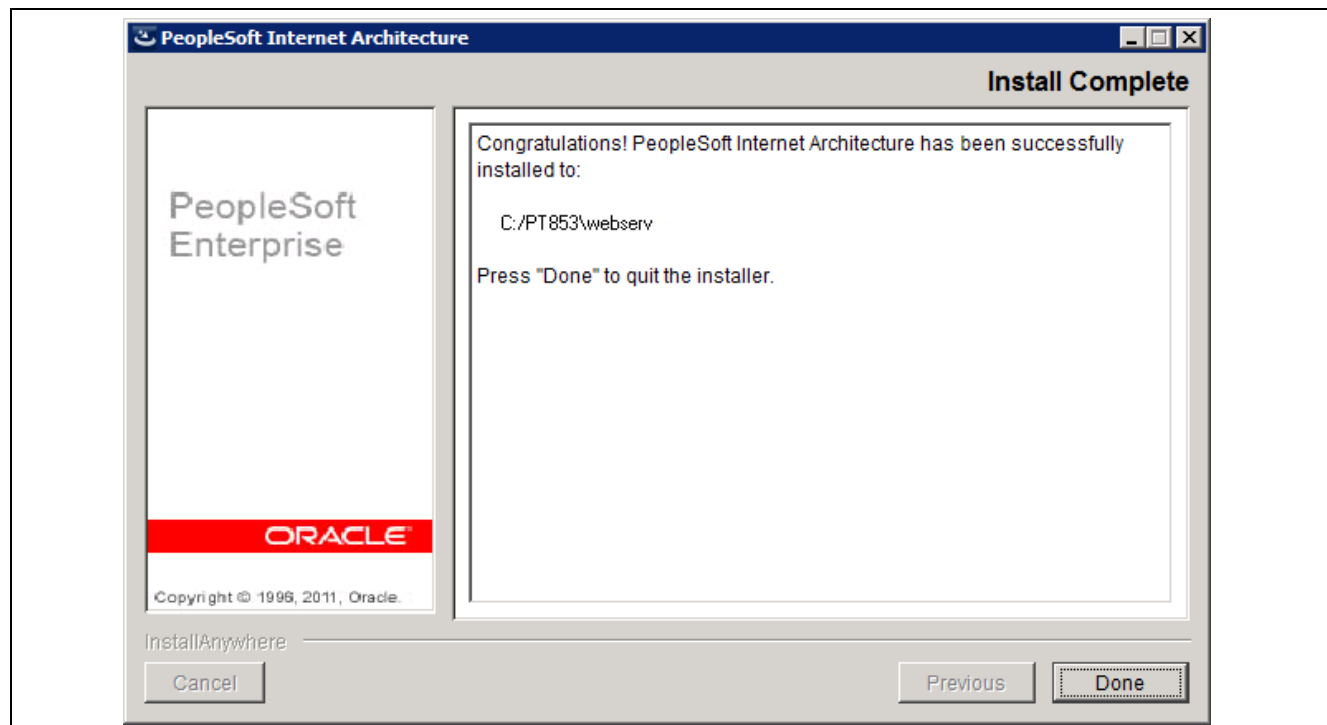
Note. The PeopleSoft Online Library Infrastructure is no longer used in PeopleSoft PeopleTools, and that line in the summary, as seen in this example, can be ignored.



Summary window for the PeopleSoft Pure Internet Architecture installation options

17. Click Done to complete the installation.

The window shows the installation directory, which is C:/PT853\webserv in this example. The default installation directory for a specific profile is `<PIA_HOME>\webserv\<profile_name>`.



PeopleSoft Pure Internet Architecture Install Complete window

Task 9A-3-2: Uninstalling the PeopleSoft Pure Internet Architecture from IBM WebSphere

You cannot uninstall PeopleSoft Pure Internet Architecture simply by deleting `<PIA_HOME>\webserv\<profile_name>`, without uninstalling it from IBM WebSphere Administration Console. If you do so, the IBM WebSphere registry becomes corrupt, and subsequent attempts to install PeopleSoft Pure Internet Architecture will fail. Instead, if necessary, you must uninstall PeopleSoft Pure Internet Architecture on IBM WebSphere as described here.

To uninstall PeopleSoft Pure Internet Architecture on IBM WebSphere:

1. Open IBM WebSphere Administration Console at `http://<machine-name>:9060/ibm/console`
2. Log in as any user.
3. Choose Applications, Enterprise Applications.
4. Select the check boxes for the PeopleSoft Pure Internet Architecture applications you want to uninstall, and click Stop.
5. Select the check boxes for the PeopleSoft Pure Internet Architecture applications you want to uninstall, and click Uninstall.
6. Save your configuration.
7. Stop WebSphere server using the following commands:

On Windows:

```
<PIA_HOME>\webserv\<profile_name>\bin\stopServer.bat server1
```

On UNIX or Linux:

```
<PIA_HOME>\webserv\<profile_name>\bin\stopServer.sh server1
```

8. In addition to uninstalling the application, you need to remove the WebSphere Application Server profile (that got created during PIA install) to complete the PIA uninstallation.

To uninstall profile run the following steps:

- a. Go to `<PIA_HOME>\webserv\<profile_name>\bin`
- b. Run the following command

On Windows:

```
manageprofiles.bat -delete -profileName <profile_name>
```

On UNIX

```
manageprofiles.sh -delete -profileName <profile_name>
```

where `<profile_name>` indicates the application name that you have selected during the PIA install.

- c. Delete the directory `<PIA_HOME>\webserv\<profile_name>`

Task 9A-4: Testing and Administering the PeopleSoft Pure Internet Architecture Installation

This section discusses:

- Verifying the PeopleSoft Pure Internet Architecture Installation
- Starting and Stopping Oracle WebLogic
- Starting and Stopping IBM WebSphere Application Servers
- Using PSADMIN to Start and Stop Web Servers
- Accessing the PeopleSoft Signon

Verifying the PeopleSoft Pure Internet Architecture Installation

After installing the PeopleSoft Pure Internet Architecture, you should make sure that your configuration is functional. You can test this by signing on to PeopleSoft, navigating within the menu structure, and accessing pages. (Make sure the application server is configured and booted.) This section includes procedures to start and stop the Oracle WebLogic or IBM WebSphere web servers whenever necessary.

Task 9A-4-1: Starting and Stopping Oracle WebLogic

If you are using the Oracle WebLogic web server, you need to sign on to Oracle WebLogic before using these commands. If you are using IBM WebSphere instead, go on to the next section. Use the following commands in the Oracle WebLogic domain directory.

Note. Starting from Oracle WebLogic 9.2 and later releases, all the Life-cycle management scripts and other batch scripts for the PIA server on Oracle WebLogic are located in `<PIA_HOME>\webserv\<domain_name>\bin` folder.

- To start Oracle WebLogic Server as a Windows service, use the following command:

Single Server:

```
installNTservicePIA.cmd
```

Multiple Servers or Distributed Servers:

```
installNTservice.cmd ServerName
```

The resulting Windows service name will be *WebLogicDomain-WebLogicServer*. For example, to install a server named *PIA* as a Windows service in a domain named *peoplesoft*, run `installNTservice.cmd PIA` and you will see "peoplesoft-PIA" as a service.

- To remove an Oracle WebLogic server Windows service, use the following command:

```
uninstallNTservicePIA.cmd Server Name
```

Note. If you modify `setenv.cmd`, then you must uninstall the service using `uninstallNTServicePIA.cmd ServerName`, and then re-run `installNTServicePIA.cmd ServerName`.

- To start Oracle WebLogic Server as a foreground process on a single server, use the following commands:

```
startPIA.cmd (on Windows)
startPIA.sh (on UNIX)
```

- To start Oracle WebLogic Server as a foreground process on multiple-servers or distributed servers, use the following commands:

a. Execute:

```
startWebLogicAdmin.cmd (on Windows)
startWebLogicAdmin.sh (on UNIX)
```

b. Then execute:

```
startManagedWebLogic.cmd ManagedServerName (on Windows)
startManagedWebLogic.sh ManagedServerName (on UNIX)
```

• To stop the server, use the following commands:

• Single Server:

```
stopPIA.cmd (on Windows)
stopPIA.sh (on UNIX)
```

• Multiple Servers or Distributed Servers:

```
stopWebLogic.cmd ManagedServerName (on Windows)
stopWebLogic.sh ManagedServerName (on UNIX)
```

For more information on working with Oracle WebLogic multiple servers or distributed servers, see the *PeopleTools: System and Server Administration* product documentation.

Note. For more information on working with Oracle WebLogic multiple or distributed servers, search My Oracle Support.

Task 9A-4-2: Starting and Stopping IBM WebSphere Application Servers

This section discusses:

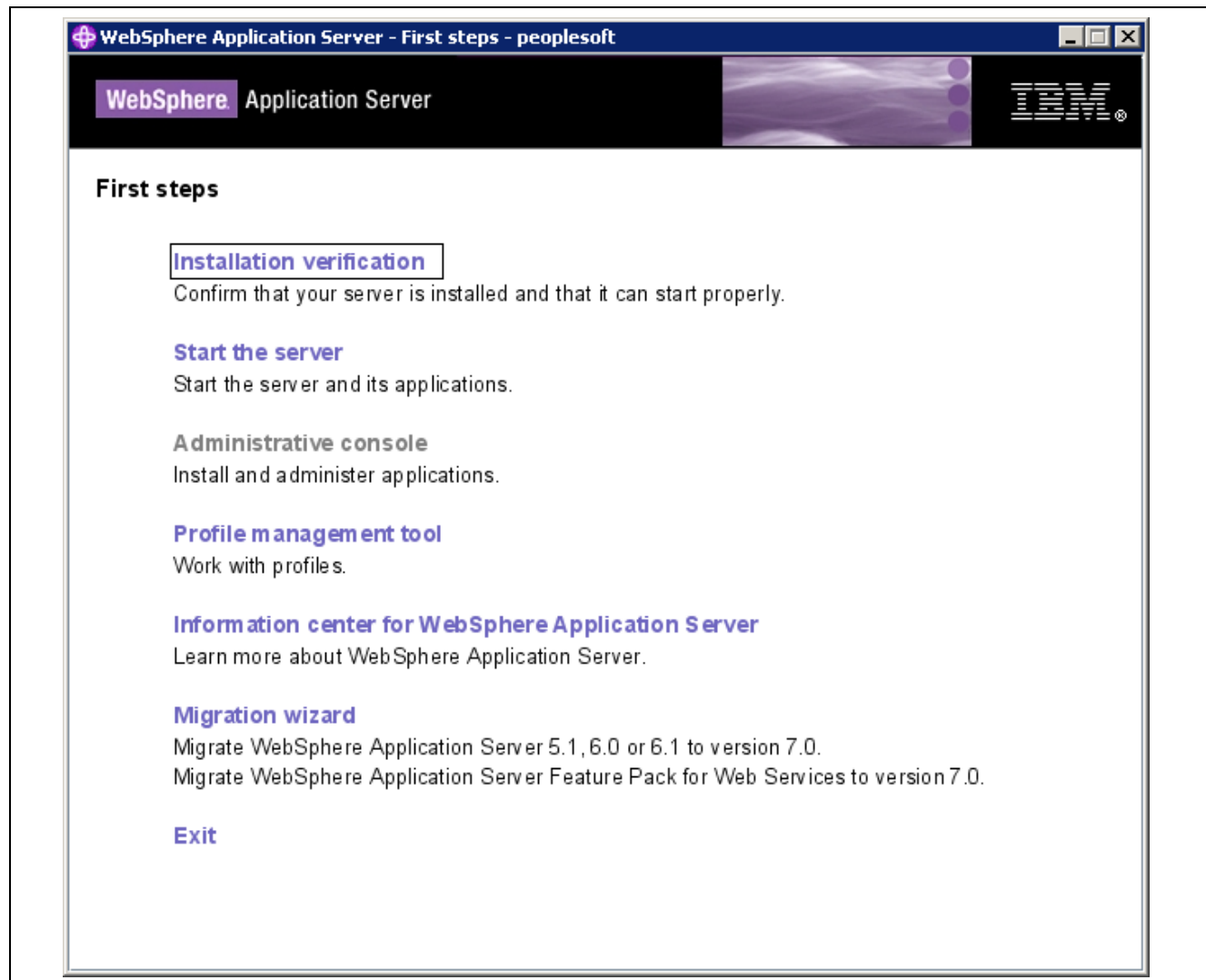
- Starting and Stopping IBM WebSphere Application Servers on Windows
- Starting and Stopping IBM WebSphere Application Servers on UNIX or Linux
- Verifying the IBM WebSphere Installation

Starting and Stopping IBM WebSphere Application Servers on Windows

To start and stop the WebSphere Application Server Network Deployment 8.5.0.0 (WebSphere ND), use the WebSphere First Steps utility:

1. Select Start, Programs, IBM WebSphere, Application Server Network Deployment V8.5, Profiles,*profile_name*, First steps.

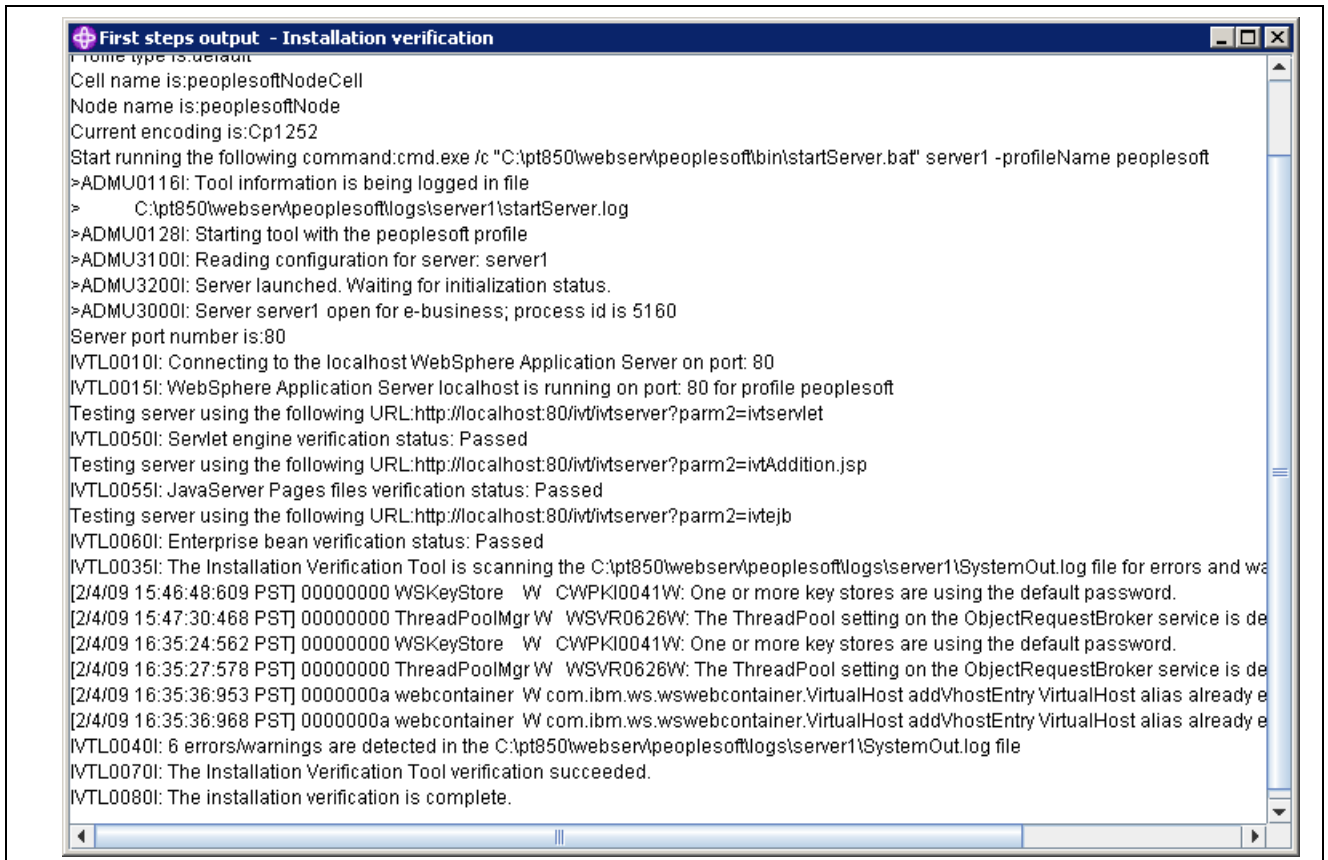
The following example shows the First steps window for the default profile *peoplesoft*:



WebSphere Application Server First Steps window

2. Select the link Start the server.

If the server starts properly, a verification window appears with several messages about the initialization process, as in this example:



First steps output - Installation verification window

3. To verify whether the server was installed and can start properly, click the link Installation Verification on the First Step window.

Starting and Stopping IBM WebSphere Application Servers on UNIX or Linux

To start WebSphere ND on UNIX or Linux, use the following command:

```
<PIA_HOME>/websrv/<profile_name>/bin/startServer.sh <server_name>
```

For example:

```
/home/pt853/webserver/peoplesoft/bin/startServer.sh server1
```

To stop WebSphere ND, use the following command:

```
<PIA_HOME>/websrv/<profile_name>/bin/stopServer.sh <server_name>
```

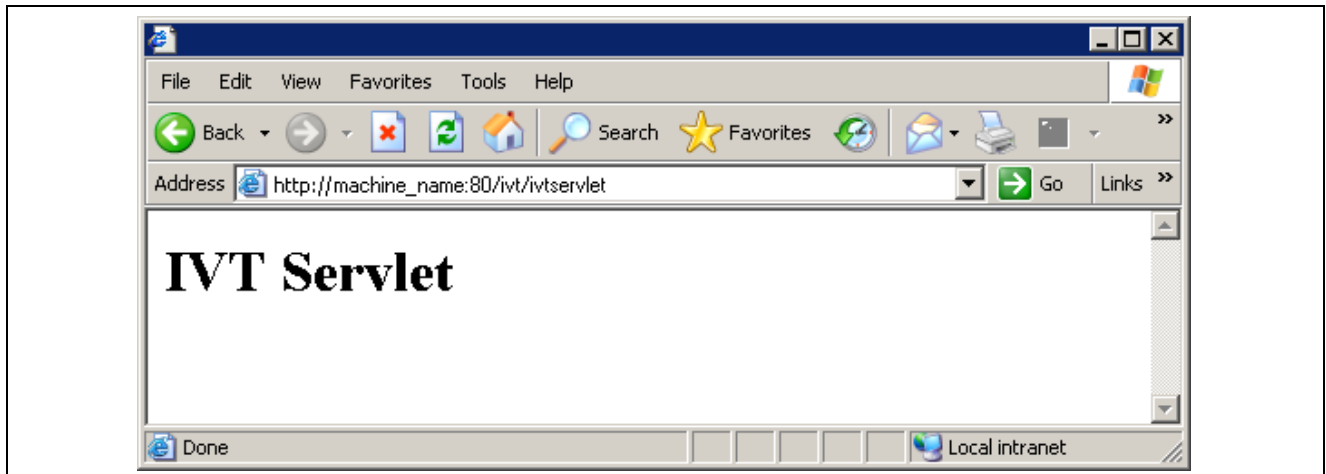
Verifying the IBM WebSphere Installation

Use this method to verify the WebSphere ND and PIA installation for both Windows and UNIX.

To verify the WebSphere ND and PIA installation, copy the following URL into a browser address bar, substituting your machine name and the http port number:

```
http://<machine_name>:<http_port>/ivt/ivtservlet
```

You should see the text “IVT Servlet” in the browser, as in this example:



IVT Servlet window

You should also sign into the PeopleSoft application, as described in a later section, to verify the installation. See *Accessing the PeopleSoft Signon*.

Task 9A-4-3: Using PSADMIN to Start and Stop Web Servers

In addition to the methods given in the previous sections for starting and stopping Oracle WebLogic and IBM WebSphere web servers, in PeopleSoft PeopleTools 8.52 and later releases you can use PSADMIN to administer a web server domain.

See *PeopleTools: System and Server Administration*, "Using PSADMIN Menus."

To start and stop web servers:

1. Go to the *PS_HOME*/appserv directory and run the command `psadmin`.
2. Specify 4 for Web (PIA) Server.

```
-----
PeopleSoft Server Administration
-----
```

```
Config Home: C:\psft_AppServ
```

- ```

1) Application Server
2) Process Scheduler
3) Search Server
4) Web (PIA) Server
5) Switch Config Home
6) Service Setup
7) Replicate Config Home
q) Quit
```

```
Command to execute (1-7, q): 4
```

The location of Config Home is the current working directory. The PSADMIN utility determines the Config Home directory by checking for the *PS\_CFG\_HOME* environment variable. If that is not set, it checks for the presence of domains in the default *PS\_CFG\_HOME* location. If none exists, it uses the *PS\_HOME* location from which it was launched.

See "Preparing for Installation," Defining Installation Locations.

3. Select *1* for Administer a domain.

```

PeopleSoft PIA Administration

```

PIA Home: C:\psft\_WebServ

- 1) Administer a domain
- 2) Create a domain
- 3) Delete a domain

q) Quit

Command to execute: 1

The PSADMIN utility determines the PIA Home location displayed here by first checking for a PIA\_HOME environment variable. If none is set, it checks for the PS\_CFG\_HOME environment variable. If neither is set, it uses the default PS\_CFG\_HOME directory.

4. Select the domain you want to administer by entering the appropriate number.

```

PeopleSoft PIA Domain Administration - Choose a Domain

```

- 1) OnWls1034R607
- 2) peoplesoft

q) Quit

Command to execute: 2

5. To start a web server domain, enter *1*, Boot this domain.

```

PeopleSoft PIA Domain Administration

```

PIA Home: C:\psft\_WebServ  
PIA Domain: peoplesoft: stopped

- 1) Boot this domain
- 2) Shutdown this domain
- 3) Get the status of this domain
- 4) Configure this domain
- 5) Edit configuration files
- 6) View log files
- 7) Administer a site
- 8) Delete a site
- 9) Windows Service Setup

q) Quit

Command to execute: 1

The boot command invokes the startPIA.cmd script, and you see the progress and a status message on the console window.

```
Starting the domain.....
The domain has started.
```

6. To stop a web server domain, select 2, Shutdown this domain.

The shutdown command invokes the stopPIA.cmd script, and you see the progress and a status message on the console window.

```
Stopping the domain.....
Verifying domain status.....
The domain has stopped.
```

7. To set up a Windows service, select 9, Windows Service Setup.
8. Select 1 to install a service, or 2 to remove it.

This command invokes the installNTservice script, and creates a service named *WebLogicDomain-WebLogicServer*.

```

Windows Service Setup

```

```
PIA Home: C:\psft_websrv
PIA Domain: peoplesoft: started
```

- 1) Install Service
- 2) Uninstall Service

q) Quit

Command to execute:

## Task 9A-4-4: Accessing the PeopleSoft Signon

To access the PeopleSoft signon:

1. Open your web browser.
2. Enter the name of the site you want to access—for example (the default value for *<site\_name>* is ps):

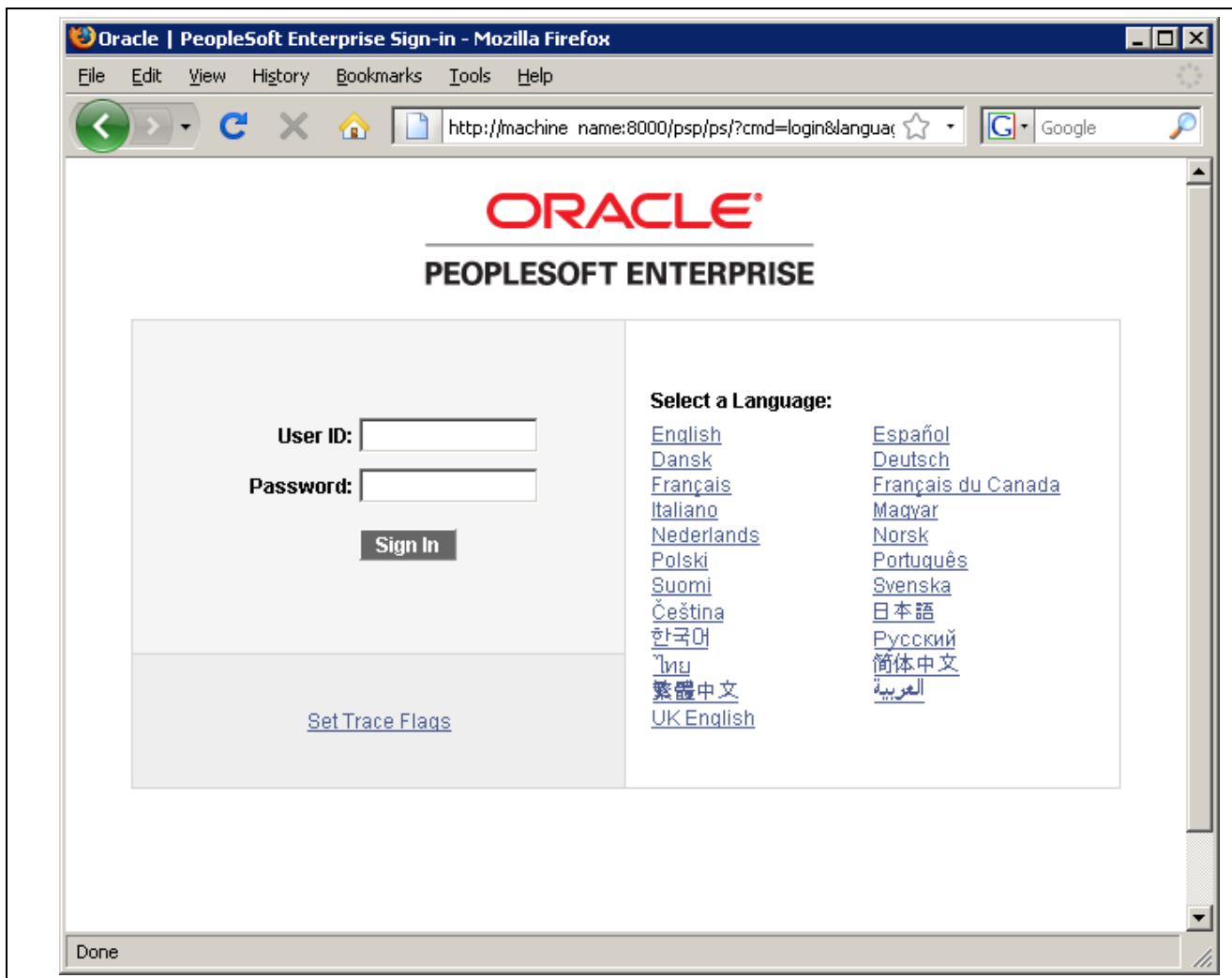
```
http://<machine_name>:<http_port>/<site_name>/signon.html
```

---

**Note.** PeopleSoft Pure Internet Architecture installed on IBM WebSphere server listens at the HTTP/HTTPS ports specified during the PeopleSoft Pure Internet Architecture install. Invoke PeopleSoft Pure Internet Architecture through a browser by using the specified HTTP or HTTPS ports—that is, `http://<WebSphere_machine_name>:<server_port>/<site_name>/signon.html` (if AuthTokenDomain is not specified ) or `http://<WebSphere_machine_name.mycompany.com>:<server_port>/<site_name>/signon.html` (if you specified .mycompany.com as the AuthTokenDomain).

---

This will take you to the sign-in window corresponding to your browser's language preference. This example shows the sign-in window in a Mozilla Firefox browser, before signing in.



Oracle PeopleSoft Enterprise Sign in window

**Note.** If you do not see the signon screen, check that you supplied all the correct variables and that your application server and the database server are running.

3. Sign in to the PeopleSoft system by entering a valid user ID and password.

**Note.** The user ID and password was set during the database configuration and also used to boot the application server.

**Note.** The user ID and password are case sensitive. You need to enter the user ID and password using UPPERCASE characters.

The PeopleSoft PeopleTools and PeopleSoft Applications include various default user IDs. For information on using the user IDs delivered with your PeopleSoft Application demo database, see the application-specific installation instructions. For information on using and securing PeopleSoft PeopleTools default user IDs, see the information on administering user profiles in the *PeopleTools: Security Administration* product documentation.

---

## Task 9A-5: Completing Post-Installation Steps

This section discusses:

- Updating the Installation Table
- Updating PeopleTools Options
- Updating Database Information

### Task 9A-5-1: Updating the Installation Table

After you complete the installation process, creating the database, installing the Application Server, and installing the PeopleSoft Pure Internet Architecture, you must complete this additional step. The license codes from the Oracle license code site mentioned earlier install all products available in the installation package. This post-installation step ensures that only the products for which you are licensed are active in the installation. The location of the installation table in the PeopleSoft Pure Internet Architecture menu varies depending upon the application that you installed.

To update the installation table:

1. Sign on to the PeopleSoft Pure Internet Architecture in a browser.
2. Select Setup *Application\_name* (where *Application\_name* is the PeopleSoft application you installed), Install, Installation Table.  
Select the Products tab.
3. Clear the check boxes for the products for which you have not obtained a license.

#### See Also

"Using the PeopleSoft Installer," Obtaining License Codes

Accessing the PeopleSoft Signon

### Task 9A-5-2: Updating PeopleTools Options

You can set the following options on the PeopleTools Options page:

- Multi-Currency — Select this check box if you plan to use currency conversion.  
See *PeopleTools: Global Technology*, "Using System-Wide Multicurrency Settings."
- Base Time Zone — Enter a value for the base time zone for your PeopleTools database.  
See *PeopleTools: Global Technology*, "Setting the Base Time Zone."
- Data Field Length Checking — Select one of the following values:
  - Others — If you are using a Unicode-encoded database or a non-Unicode SBCS database.



- MBCS — If you are running a non-Unicode Japanese database.

See *PeopleTools: Global Technology*, “Selecting Character Sets.”

- Sort Order Option — If you specified a non-binary sort order for your database, choose the Sort Order Option that most closely approximates your database sort order.

See *PeopleTools: Global Technology*, “Setting the Sort Order.”

## Task 9A-5-3: Updating Database Information

The database information updated in this procedure is used by the PeopleSoft software update tools to identify your PeopleSoft database when searching for updates. These steps should be followed for all additional databases that you create to enable the accurate identification of your databases.

1. Sign on to your PeopleSoft database.
2. Navigate to PeopleTools, Utilities, Administration, PeopleTools Options.
3. Specify long and short names for your environment. For example:
  - Environment Long Name — Customer HR Demo Database
  - Environment Short Name — HR Demo DB
4. Select a system type from the drop-down list. For example, Demo Database.
5. Save your changes.



## CHAPTER 9B

# Setting Up the PeopleSoft Pure Internet Architecture in Console Mode

This chapter discusses:

- Understanding PeopleSoft Pure Internet Architecture
- Using Authentication Domains in the PeopleSoft Pure Internet Architecture Installation
- Preparing the PeopleSoft Pure Internet Architecture File System for a PeopleTools-Only Upgrade
- Installing the PeopleSoft Pure Internet Architecture on Oracle WebLogic in Console Mode
- Installing the PeopleSoft Pure Internet Architecture on IBM WebSphere in Console Mode
- Installing the PeopleSoft Pure Internet Architecture in Silent Mode
- Testing and Administering the PeopleSoft Pure Internet Architecture Installation
- Completing Post-Installation Steps

---

## Understanding PeopleSoft Pure Internet Architecture

This chapter explains how to install and configure the components of the PeopleSoft Pure Internet Architecture in console mode and in silent mode. It includes instructions for installing the PeopleSoft files on Oracle WebLogic and IBM WebSphere. Only complete the instructions for the web server product that you installed.

---

**Note.** The console mode installation is typically used on UNIX platforms.

---

See "Installing Web Server Products."

The setup program for the PeopleSoft Pure Internet Architecture is installed to the web server machine when you run the PeopleSoft Installer and select the PeopleSoft Web Server option.

See "Using the PeopleSoft Installer."

Oracle only supports customer installations that use web servers that are certified for PeopleSoft PeopleTools. *You must install the web server before you install the PeopleSoft Pure Internet Architecture.* Before you install the PeopleSoft Pure Internet Architecture, you must also have configured an application server, as described in the previous chapter.

The location where you install the PeopleSoft Pure Internet Architecture is referred to in this documentation as *PIA\_HOME*. You can specify different locations for *PS\_HOME* and *PIA\_HOME*. After you complete the PeopleSoft Pure Internet Architecture installation, you can locate the installation files in the directory *PIA\_HOME/webserv*.

For PeopleSoft PeopleTools 8.51 and later, if you are setting up the PeopleSoft Pure Internet Architecture on a Microsoft Windows platform, the directory and path that you specify for *PIA\_HOME* may include spaces. However, parentheses in the directory name (for example, "C:\Program Files (x86)") are *not* allowed for *PIA\_HOME*.

See "Preparing for Installation," Defining Installation Locations.

Before performing the steps in this chapter, verify that Sun's international version of JRE version 7 or higher is properly installed on the system and its path is in the system's environment variable PATH.

If your web server is on a different machine than your application server, you need to make sure you have JRE installed on your web server to run the PeopleSoft Pure Internet Architecture installation.

---

**Note.** If you encounter the error message "No Matching JVM," you need to specify the location of the Java Runtime Environment (JRE) to the installer using the `-javahome` command line parameter; for example:  
`<PS_HOME>/setup/PsMpPIAInstall/setup.sh -tempdir <temporary_directory> -javahome <jredir>.`

---

The initial PeopleSoft Pure Internet Architecture setup automatically creates the default PeopleSoft site named *ps*. In subsequent PeopleSoft Pure Internet Architecture setups, change the site name from *ps* to a unique value. We recommend using the database name. This is handy for easy identification and ensures that the database web server files are installed in a unique web site.

The URL that you use to invoke the PeopleSoft Pure Internet Architecture must conform to ASN.1 specifications. That is, it may contain only alphanumeric characters, dots ("."), or dashes ("-"). The URL must not begin or end with a dot or dash, or contain consecutive dots (".."). If the URL includes more than one portion, separated by dots, do not use a number to begin a segment if the other segments contain letters. For example, "mycompany.second.country.com" is correct, but "mycompany.2nd.country.com" is wrong.

Review the following additional notes before beginning the PeopleSoft Pure Internet Architecture installation:

- If you want to connect between multiple application databases, you need to implement single signon.
- If the PeopleSoft Pure Internet Architecture installation encounters an error, it will indicate which log files to refer to.

See "Installing Web Server Products."

- The machine on which you run the PeopleSoft Pure Internet Architecture install must be running in *256 color mode*. This is not necessary for console mode.

The PeopleSoft Pure Internet Architecture installation includes the following products:

- *PeopleSoft Pure Internet Architecture*. This product is the centerpiece of the PeopleSoft architecture that enables users to work on a machine with only a supported browser installed. This option installs the servlets required for deploying PeopleSoft Applications and for the PeopleSoft portal. The portal packs and PeopleSoft Portal Solutions have their own installation instructions, which are available on My Oracle Support. For an overview of the various types of portals, consult the *PeopleTools: PeopleSoft Portal Technology* product documentation.
- *PeopleSoft Report Repository*. This product works in conjunction with Process Scheduler to allow report distribution over the web.
- *PeopleSoft Integration Gateway*. This product is the entry and exit point for all messages to and from the Integration Broker. Its Java-based Connector architecture allows asynchronous and synchronous messages to be sent over a variety of standard protocols, many that are delivered at install, or through custom connectors.

---

**Important!** For PeopleSoft PeopleTools 8.50 and higher, review the section on security properties for Integration Gateway. When setting the properties in the `integrationGateways.properties` file, the property `secureFileKeystorePasswd` must be encrypted, and the `secureFileKeystorePath` must be set.

---

See *PeopleTools: Integration Broker Administration*, "Managing Gateways."

- *PeopleSoft CTI Console*. This product works in conjunction with CTI vendor software to enable call center agents to take advantage of browser based teleset management and automatic population of application pages with relevant data associated with incoming calls, such as customer or case details.

See *PeopleTools: MultiChannel Framework*.

- *Environment Management Hub*. The Environment Management hub is a web application that is installed with the PeopleSoft Pure Internet Architecture and portal. It is started along with the rest of the web applications when the user boots the web server. You cannot start the Environment Management Hub on a server that is configured to run HTTPS; in other words, if you plan to run Environment Management, your PIA server needs to be configured in HTTP mode.

See *PeopleTools: Change Assistant and Update Manager*.

## See Also

*PeopleTools: Security Administration*

*PeopleTools: System and Server Administration*

---

## Using Authentication Domains in the PeopleSoft Pure Internet Architecture Installation

You have the option to specify an authentication domain when you install the PeopleSoft Pure Internet Architecture on Oracle WebLogic or IBM WebSphere.

---

**Note.** The authentication domain was referred to as the Authentication Token Domain in previous releases, and that term is still seen in the software.

---

When an authentication domain is specified during the PeopleSoft Pure Internet Architecture install, that value gets used as the Cookie domain in the web server configuration. The main requirements when setting a cookie domain are:

- The host must have a fully qualified domain name (FQDN). The requirement that you must have a domain name does not imply that you must have a DNS, but you do need some type of naming service such as DNS or some managed `../etc/hosts` file that contains a list of the servers with their domain name.
- The cookie domain value being set must begin with a dot (`.ps.com` is valid, `ps.com` is NOT valid).
- The cookie domain value being set must contain at least 1 embedded dot (`.ps.com` is valid, `.corp.ps.com` is valid, `.com` is NOT valid).
- The cookie domain value can only be a single domain name. It cannot be a delimiter-separated list of domains.

By default, the browser only sends cookies back to the machine that set the cookie. So if web server `crm.yourdomain.com` sets a cookie, the browser will only send it back there. You can make the browser send the single signon cookie to all servers at `yourdomain.com` by typing your domain name in the Authentication Token Domain list box of web server `crm`.

Specifying the authentication domain may be necessary in certain cases. For example, if you plan to use the PeopleSoft portal technology, be sure to read the supporting documentation on configuring the portal environment, to determine whether setting the authentication domain is required for correct operation.

See *PeopleTools: PeopleSoft Portal Technology*.

Specify an authentication domain if you plan to run a REN Server. REN Servers are required for PeopleSoft MultiChannel Framework, Reporting, and some PeopleSoft CRM applications supported by PeopleSoft MultiChannel Framework.

See *PeopleTools: MultiChannel Framework*.

Specify an authentication domain if you plan to use Business Objects Enterprise.

See "Installing and Configuring Software for Crystal Reports," Installing SAP BusinessObjects Enterprise XI 3.1.

---

## Task 9B-1: Preparing the PeopleSoft Pure Internet Architecture File System for a PeopleTools-Only Upgrade

If you are installing into an existing `PS_HOME` or `PS_CFG_HOME` in preparation for a tools-only upgrade, perform the following instructions to remove any obsolete files.

Stop the web server before performing the PeopleSoft Pure Internet Architecture installation or uninstallation.

Depending on your web server platform, complete the following steps to clean up previous PeopleSoft Pure Internet Architecture sites:

- Oracle WebLogic

Shut down Oracle WebLogic and follow the uninstallation instructions in the old release PeopleSoft PeopleTools installation guide for your database platform. Alternatively, delete the contents of one of the following directories:

- For PeopleSoft PeopleTools 8.43.x or earlier: `<weblogic_home>\wlserver6.1\config\<domain_name>\*`
- For PeopleSoft PeopleTools 8.44.x to 8.49.x: `<PS_HOME>\websrv\<domain_name>\*`
- For PeopleSoft PeopleTools 8.50.x or later: `<PIA_HOME>\websrv\<domain_name>\*`

- IBM WebSphere

Shut down IBM WebSphere and follow the uninstallation instructions in the old release PeopleSoft PeopleTools installation guide for your database platform.

## Task 9B-2: Installing the PeopleSoft Pure Internet Architecture on Oracle WebLogic in Console Mode

This section discusses:

- Prerequisites
- Installing the PeopleSoft Pure Internet Architecture on Oracle WebLogic
- Uninstalling the PeopleSoft Pure Internet Architecture from Oracle WebLogic

### Task 9B-2-1: Prerequisites

This section describes how to install the PeopleSoft Pure Internet Architecture on Oracle WebLogic. Before you install the PeopleSoft Pure Internet Architecture (PIA) on Oracle WebLogic, you must have installed the Oracle WebLogic software. PeopleSoft PeopleTools 8.53 supports Java 7 enabled 64-bit Oracle WebLogic 10.3.6.

See "Installing Web Server Products," Installing Oracle WebLogic Server.

See the information on working with Oracle WebLogic in the *PeopleTools: System and Server Administration* product documentation.

### Task 9B-2-2: Installing the PeopleSoft Pure Internet Architecture on Oracle WebLogic

To install the PeopleSoft Pure Internet Architecture on Oracle WebLogic:

1. Change directory to `PS_HOME/setup/PsMpPIAInstall` and run one of these commands:

```
setup.bat
```

See "Using the PeopleSoft Installer," Prerequisites.

A welcome message appears.

2. Press ENTER at the Welcome prompt to continue.

```
Welcome to the InstallShield Wizard for PeopleSoft Internet Architecture.
```

```
Using the InstallShield Wizard you will install PeopleSoft Internet⇒
```

```
Architecture on your computer.
```

```
Version: 8.53
```

```
If installing onto a BEA WebLogic Server, make sure to shutdown any running⇒
webservers to avoid web server configuration.
```

```
Press 1 for Next, 3 to Cancel, or 5 to Redisplay [1]:
```

3. Enter the directory where you want to install the PeopleSoft Pure Internet Architecture, referred to here as `PIA_HOME`.

```
Choose the directory where you wish to deploy the PeopleSoft Pure Internet⇒
Architecture:
```

```
Please specify a directory name or press Enter
[/home/PT853]:
```

4. Enter `1` to select the Oracle WebLogic Server.

```
Choose the installation type that best suits your needs
->1- Oracle WebLogic Server
 2- IBM WebSphere Server
```

To select an item enter its number, or 0 when you are finished [0]:

5. Enter the top-level directory where Oracle WebLogic is installed.

```
Select the web server root directory [c:\Bea]: c:\WLS_HOME
Detected web server version: WebLogic 10.3.6
```

---

**Note.** You will get an error message if you specify a directory that does not contain Oracle WebLogic, or that contains an incorrect Oracle WebLogic version, or a 32-bit Oracle WebLogic.

---

6. Enter the administrator login and password for your Oracle WebLogic domain, or accept the default values. Press ENTER to continue.

The default login ID is system. The password must be at least 8 alphanumeric characters with at least one number or special character.

```
Please enter the administrator login and password for WebLogic domain.
Login ID [system]:
Password []:
Re-type Password []:
```

7. At this prompt you must choose whether to create a new Oracle WebLogic domain or to use an existing domain.

```
->1- Create New WebLogic Domain
 2- Existing WebLogic Domain
```

8. If you select Create New WebLogic domain, the installation process automatically generates a valid domain name in the domain name field.

If you attempt to enter an invalid domain name, you see a prompt asking you to enter a new domain name or choose an existing domain.

```
Enter domain name or click Next to select default [peoplesoft]:
```

9. If you select Existing WebLogic Domain, select the domain name from the list:

```
Select application name from list:
->1- ptwls
 2- ptwls2
```

10. If you select Existing WebLogic Domain, select one of these options:

---

**Note.** You only see the option Existing WebLogic Domain if there is already a domain in *PIA\_HOME*.

---



- *Install additional PeopleSoft site*

This option is relevant only to the PeopleSoft PORTAL web application, and does not modify or revert any other configuration settings. Select this option to install only the necessary files for defining an additional PeopleSoft site onto an existing Oracle WebLogic configuration. The new site will be accessed using its name in the URL. A site named “CRM” would be accessed using a URL similar to `http://<mywebserver_machine>/CRM`. To reset or re-create an existing PeopleSoft site, simply enter that site's name as the site to create. On your web server, a PeopleSoft site is comprised of the following directories within the PORTAL web application:

```
<WEBLOGIC_DOMAIN>/applications/peoplesoft/PORTAL/<site>/*
```

```
<WEBLOGIC_DOMAIN>/applications/peoplesoft/PORTAL/WEB-INF/psftdocs/<site>/*
```

- *Redeploy PeopleSoft Internet Architecture*

This selection affects all of the PeopleSoft Pure Internet Architecture web applications installed to the local Oracle WebLogic domain. Select this option to redeploy all of the class files and jar files that comprise web components of PeopleSoft Pure Internet Architecture. Oracle WebLogic Server configuration files, scripts and any existing PeopleSoft (PORTAL) sites are not overwritten, unless you specify an existing PeopleSoft site during this setup.

- *Re-create WebLogic domain and redeploy PeopleSoft Internet Architecture*

This option affects Oracle WebLogic Server configuration and all of the PeopleSoft Pure Internet Architecture web applications installed to the local Oracle WebLogic domain. Select this option to completely remove an existing Oracle WebLogic domain and create the newly specified PeopleSoft site.

---

**Warning!** Re-creating an existing domain will delete everything previously installed into that domain.

---

See *PeopleTools: PeopleSoft Portal Technology*.

- *Deploy additional PeopleSoft application extensions*

This option is solely for use with PeopleSoft applications. PeopleSoft application extensions are provided with certain PeopleSoft applications, and this option allows you to deploy those extensions. Consult the installation documentation for your PeopleSoft application to see if this option is appropriate. PeopleSoft PeopleTools does not use application extensions.

11. Specify the name of the domain.
12. If there are application packages in the archives directory, select whether you want to deploy them. (If you are using an existing domain, you see a prompt for this only if you elected to Deploy Additional PeopleSoft Extensions.)
13. Select the type of domain to create—single server, multi server, or distributed managed server.

Please select the configuration to install.

```
->1- Single Server Domain
 2- Multi Server Domain
 3- Distributed Managed Server
```

There are three domain configuration options:

- *Single Server Domain*

This domain configuration contains one server, named PeopleSoft Pure Internet Architecture and the entire PeopleSoft application is deployed to it. This configuration is intended for single user or very small scale, non-production environments. This configuration is very similar to the Oracle WebLogic domain provided in PeopleSoft PeopleTools 8.40 through 8.44.

- *Multi Server Domain*

This domain configuration is contains seven unique server definitions, a Oracle WebLogic cluster, and the PeopleSoft Application split across multiple servers. This configuration is the intended for a production environment.

- *Distributed Managed Server*

This option is an extension of the Multi Server Domain selection and installs the necessary files to boot a managed server. This option requires a Multi Server installation to be performed to some other location, which will contain the configuration for this managed server.

14. Enter the Integration Gateway User and password.

The password must be at least 8 alphanumeric characters.

See *PeopleTools: Integration Broker Administration*.

Please enter the Integration Gateway User and Password.

```
Integration Gateway User [administrator]:
Password []:
Re-type Password []:
```

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :

15. Enter the AppServer Domain Connection password (optional).

If you configured your Application Server domain to require a Domain Connection password, enter it here. Otherwise, leave it blank. This password will be propagated to the Integration Gateway.

See the information on setting Application Server domain parameters in the *PeopleTools: System and Server Administration* product documentation.

Please enter the AppServer Domain Connection Password.

```
Password []:
Re-type Password []:
```

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :

16. Enter a PeopleSoft web site name; the default is ps.

---

**Warning!** The site name can include underscores ( \_ ), but an underscore cannot be followed by a numeric character or the string “newwin” (for example, my\_site\_3 or my\_newwin\_site).

---

Please specify a name for the PeopleSoft web site:  
Website name [ps]:

17. Specify your application server name, its JSL (Jolt Station Listener) port number, its HTTP and HTTPS port numbers, the Authentication Token Domain (optional).

Enter port numbers and summaries.

AppServer name [APPSRVNAME]:

JSL Port [9000]:

HTTP Port [80]:

HTTPS Port [443]:

Authentication Token Domain (optional) []:

- *AppServer name*

For the AppServer name setting, enter the name of your application server.

See "Configuring the Application Server on Windows."

See "Understanding the PeopleSoft Pure Internet Architecture."

- *JSL Port*

For the JSL port setting, enter the JSL port number you specified when setting up your application server. (The default value is 9000.)

- *HTTP and HTTPS Port*

The values for the HTTP and HTTPS ports should be greater than 1024. Any port number less than 1024 is reserved and only Root has access to it.

- *Authentication Token Domain*

The value you enter for the Authentication Token Domain must match the value you specify when configuring your application server, as described earlier in this book. In addition, certain installation configurations require that you specify an authentication domain.

See Using Authentication Domains in the PeopleSoft Pure Internet Architecture Installation.

If you enter a value for the Authentication Token Domain, the URL to invoke PeopleSoft Pure Internet Architecture must include the network domain name in the URL. For example, if you do not enter an authentication domain, the URL to invoke PeopleSoft Pure Internet Architecture is `http://MachineName/ps/signon.html`. If you do enter a value for authentication domain (for example, `.myCompany.com`), the URL to invoke PeopleSoft Pure Internet Architecture is `http://MachineName.myCompany.com/ps/signon.html`. In addition, if the web server for the database is using an http port other than the default port of 80, the URL must include the port number, for example `http://MachineName:8080/ps/signon.html` if there is no authentication domain, or `http://MachineName.myCompany.com:8080/ps/signon.html` if there is an authentication domain. The URL must also comply with the naming rules given earlier in this chapter.

#### 18. Enter the details for the web profile, PROD, or enter another name.

The example below shows the default web profile name, PROD, and default user ID, PTWEBSERVER. The web profile name will be used to configure this web site. You can specify one of the other predelivered web profiles, DEV, TEST, or KIOSK, or enter a different name. If you intend to use a Web Profile User ID other than the default, be sure to review the information on web profile configuration and security in the *PeopleTools: PeopleSoft Portal Technology* product documentation.

Please enter the Name of the Web Profile used to configure the web server. The⇒  
user id and password will be used to retrieve the web profile from the⇒

database. (NOTE: Other available preset web profile names are "TEST", "DEV", => and "KIOSK".)

Web Profile Name [PROD]:

User ID [PTWEBSEVER]:

Password []:

Re-type Password []:

---

**Note.** If the PeopleSoft PeopleTools version of your database is *below* 8.44, then you will need to add the PTWEBSEVER User Profile before you upgrade to the current PeopleSoft PeopleTools release. The User Profile must include the PeopleTools Web Server role, but do not grant any other roles. Enter the password that you set for the User Profile for the User ID password in this step, as shown in this example. The password must be at least 8 alphanumeric characters.

See the *PeopleTools: Security Administration* product documentation for the steps required to add a User Profile.

---

19. Specify the root directory for the Report Repository (c:\psreports by default).

You must have write access to the specified directory.

---

**Note.** In setting up the Process Scheduler to transfer reports, if you choose the FTP protocol, use the same directory for the Home Directory as you use here for the report repository.

---

See "Setting Up Process Scheduler," Setting Up the Process Scheduler to Transfer Reports and Logs to Report Repository.

Select the Report Repository location:

Please specify a directory name or press Enter [c:\psreports]:

20. Verify all of your selections and press Enter to begin the installation.

You see a progress indicator showing the progress of your installation.

21. When the installation is complete, exit from the console window.

The default installation directory is <PIA\_HOME>/webserv/<domain\_name>/, where <domain> is the web server domain (peoplesoft by default).

## Task 9B-2-3: Uninstalling the PeopleSoft Pure Internet Architecture from Oracle WebLogic

To remove a PIA domain deployed on Oracle WebLogic, delete the <PIA\_HOME>/webserv/<domain\_name> directory. If there is more than one PIA domain, delete the *domain\_name* directory for every domain you want to uninstall.

---

## Task 9B-3: Installing the PeopleSoft Pure Internet Architecture on IBM WebSphere in Console Mode

This section discusses:

- Prerequisites
- Installing the PeopleSoft Pure Internet Architecture on IBM WebSphere Application Server ND
- Uninstalling the PeopleSoft Pure Internet Architecture from IBM WebSphere

## Prerequisites

The information in this section applies to the installation of PeopleSoft Pure Internet Architecture (PIA) on an IBM WebSphere Application Server. PeopleSoft PeopleTools 8.53 requires a 64-bit IBM WebSphere installation. Review these points before you begin the installation:

- Before installing the PeopleSoft Pure Internet Architecture on IBM WebSphere Application Server, you must have installed the IBM WebSphere ND software.  
See "Installing Web Server Products," Installing IBM WebSphere Application Server.
- Each IBM WebSphere Application Server runs one PeopleSoft Pure Internet Architecture application. If you need to install more than one PeopleSoft Pure Internet Architecture application on your WebSphere Application Server, you must run the PIA installation again.
- When installing PIA on IBM WebSphere ND, you must work with a local copy of the PIA installation software; you cannot install remotely. If you are doing the installation on a machine other than the one on which you installed PeopleSoft PeopleTools, copy the *PS\_HOME/setup/PsMpPIAInstall* directory to the local machine.
- Both IBM WebSphere Application Server Network Deployment and PeopleSoft Pure Internet Architecture must be installed and deployed using the same user id. Following this restriction avoids any security and profile management issues.

### See Also

"Installing Web Server Products," Installing IBM WebSphere Application Server

## Task 9B-3-1: Installing the PeopleSoft Pure Internet Architecture on IBM WebSphere Application Server ND

To install the PeopleSoft Pure Internet Architecture on IBM WebSphere ND:

1. Change directory to *PS\_HOME/setup/PsMpPIAInstall* and run this command:

```
setup.sh
```

A welcome message appears.

2. Select Enter to continue.
3. Choose the directory where you want to install the PeopleSoft Pure Internet Architecture, referred to in this documentation as *PIA\_HOME*.
4. Enter 2, to select the IBM WebSphere Application Server:

```
->1- Oracle WebLogic Server
 2- IBM WebSphere Server
```

5. Enter the directory where you installed IBM WebSphere ND, or press ENTER to accept the default:

```
Select the WebSphere Application Server directory:
Directory Name: [/opt/IBM/WebSphere/AppServer]
```

---

**Note.** If you specify a 32-bit installation of IBM WebSphere ND, a message appears asking you to confirm the decision. Keep in mind that PeopleSoft PeopleTools 8.51 and later releases require 64-bit IBM WebSphere ND.

---

6. Choose whether to create a new application, or use an existing application:

```
->1- Create New WebSphere Application
 2- Existing WebSphere Application
```

7. If you specify 1, Create New WebSphere Application, enter an application name for this web server.

8. Select the type of server you want to install, and press ENTER to continue:

Select the server install type:

```
->1- Single Server Installation
 2- Multi Server Installation
```

The Single Server Installation option creates one IBM WebSphere Application Server profile to hold all the PeopleSoft web applications. The installer uses the Application Name you enter for the new profile's name.

The Multi Server Installation option creates a single profile with the name you entered above, *application\_name*. The *application\_name* profile includes two servers, which deploy discrete functionality and are found on different ports, as specified in the following table:

| Server Name | Purpose                                                            | HTTP or HTTPS Port Number |
|-------------|--------------------------------------------------------------------|---------------------------|
| server1     | PORTAL applications                                                | X                         |
| psemhub     | PeopleSoft Environment Management Framework applications (PSEMHUB) | X+1                       |

See the information on working with IBM WebSphere in the *PeopleTools: System and Server Administration* product documentation.

9. If you specify 2, Existing WebSphere Application, select a domain name from the list:

Select domain name from list

```
->1- AppSrv01
 2- ptwas
 3- peoplesoftA
 4- hcdmo
```

10. After specifying an existing domain, select one of the options below and press ENTER to continue.

The PeopleSoft application "peoplesoftA" already exists.

Select from the following:

```
->1- Install additional PeopleSoft site
 2- Redeploy PeopleSoft Internet Architecture
 3- Deploy additional PeopleSoft application extensions
```

---

**Note.** Make sure the server is up and running before choosing any of these options.

---

- *Install additional PeopleSoft site*

Select this option to install only the necessary files for defining an additional PeopleSoft site onto the existing IBM WebSphere web server configuration.

- *Redeploy PeopleSoft Internet Architecture*

This selection affects all of the PeopleSoft Pure Internet Architecture web applications installed to the local IBM WebSphere Application Server profile. Select this option to redeploy PeopleSoft Application that comprise web components of PeopleSoft Pure Internet Architecture.

- *Deploy additional PeopleSoft application extensions*

This option is solely for use with PeopleSoft product applications. PeopleSoft application extensions are provided with certain PeopleSoft applications, and this option allows you to deploy those extensions. Consult the installation documentation for your PeopleSoft application to see whether this option is appropriate. PeopleSoft PeopleTools does not use application extensions.

11. Enter the administrator login and password for the IBM WebSphere Application profile, or accept the default values.

The default login ID is system. The password must be at least 8 alphanumeric characters with at least one number or special character.

Please enter the administrator login ID and password for WebSphere profile.

Login ID [system]:

Password []:

Retype Password []:

If you selected the option Existing WebSphere Application, enter the same Login ID and password as you entered for the original IBM WebSphere profile creation. If the Login ID and password do not match the original values, you will not be able to continue with the PIA installation.

12. If you select the option Deploy additional PeopleSoft application extension, select the application packages you want to deploy:

->1- EMP PeopleSoft Activity Based Mgmt

13. Enter the Integration Gateway User and Password.

The password must be at least 8 alphanumeric characters .

Please enter the Integration Gateway User and Password.

Integration Gateway User [administrator]:

Password []:

Re-type Password []:

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :

14. Enter the AppServer Domain Connection Password (optional).

If you configured your Application Server domain to require a Domain Connection password, enter it here. Otherwise, leave it blank. This password will be propagated to the Integration Gateway.

See "Configuring the Application Server on UNIX," Creating, Configuring, and Starting an Initial Application Server Domain.

See the information on setting Application Server domain parameters in the *PeopleTools: System and Server Administration* product documentation.

Please enter the AppServer Domain Connection Password.

Password []:

Re-type Password []:

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :

15. Enter a web site name; the default is ps.

---

**Warning!** The site name can include underscores ( \_ ), but an underscore cannot be followed by a numeric character or the string “newwin” (for example, my\_site\_3 or my\_newwin\_site).

---

16. Specify your application server name, its JSL (Jolt Station Listener) port number, its HTTP and HTTPS port numbers, the authentication token domain (optional).

Enter port numbers and summaries.

AppServer name:

[<App Server Machine Name>]

JSL Port:

[9000]

HTTP Port:

[8000]

HTTPS Port:

[4430]

Authentication Token Domain:(optional) []

---

**Note.** For the AppServer name setting, enter the name of your application server. For the JSL port setting, enter the JSL port number you specified when setting up your application server. (The default value is 9000.)

---

See "Configuring the Application Server on UNIX."

---

**Note.** The HTTP/HTTPS port numbers are reset to those that you just specified when you restart your IBM WebSphere server.

---

---

**Note.** The value you enter for the Authentication Token Domain must match the value you specify when configuring your application server, as described earlier in this book. In addition, certain installation configurations require that you specify an authentication domain. See Using Authentication Domains in the PeopleSoft Pure Internet Architecture Installation.

---



---

**Note.** If you enter a value for the Authentication Token Domain, the URL to invoke PeopleSoft Pure Internet Architecture must include the network domain name in the URL. For example, if you do not enter an authentication domain, the URL to invoke PeopleSoft Pure Internet Architecture is `http://MachineName/ps/signon.html`. If you do enter a value for the authentication domain (for example, `.myCompany.com`), the URL to invoke PeopleSoft Pure Internet Architecture is `http://MachineName.myCompany.com/ps/signon.html`. In addition, if the web server for the database is using an HTTP port other than the default port of 9080, the URL must include the port number, for example `http://MachineName:8080/ps/signon.html` if there is no authentication domain, or `http://MachineName.myCompany.com:8080/ps/signon.html` if there is an authentication domain. The URL must also comply with the naming rules given earlier in this chapter.

---

See "Understanding the PeopleSoft Pure Internet Architecture."

17. Enter the details for the web profile, PROD, or enter another name.

The sample prompt shows the default web profile name, PROD, and default User ID, PTWEBSEVER. The web profile name will be used to configure this web site. You can specify one of the other predelivered web profiles, DEV, TEST, or KIOSK, or enter a different name. If you intend to use a Web Profile User ID other than the default, be sure to review the information on web profile configuration and security in the *PeopleTools: PeopleSoft Portal Technology* product documentation.

Please enter the Name of the Web Profile used to configure the web server. The⇒  
 user id and password will be used to retrieve the web profile from the⇒  
 database. (NOTE: Other available preset web profile names are "TEST", "DEV",⇒  
 and "KIOSK".)

```
Web Profile Name [PROD]:
User ID : PTWEBSEVER
Password []:
Re-type Password []
```

---

**Note.** If the PeopleSoft PeopleTools version of your database is *below* 8.44, then you will need to add the PTWEBSEVER User Profile before you upgrade to the current PeopleSoft PeopleTools release. The User Profile must include the PeopleTools Web Server role, but do not grant any other roles. Enter the password that you set for the User Profile for the User ID password in this step. The password must be at least 8 alphanumeric characters. See the *PeopleTools: Security Administration* product documentation for the steps required to add a User Profile.

---

18. Specify the root directory for the Report Repository.

You can install to any location, but the directory must have write access. The default directory is `user_home/PeopleSoft Internet Architecture/psreports`, where `user_home` is the home directory for the current user.

---

**Note.** In setting up the Process Scheduler to transfer reports, if you choose the FTP protocol, use the same directory for the Home Directory as you use here for the report repository.

---

See "Setting Up Process Scheduler," Setting Up the Process Scheduler to Transfer Reports and Logs to Report Repository.

19. Verify your selections and press Enter to start the installation. You see an indicator showing the progress of your installation.

20. When the installation is complete, exit from the console window.

The default installation directory is `<PIA_HOME>\webserv\<profile_name>`.

## Task 9B-3-2: Uninstalling the PeopleSoft Pure Internet Architecture from IBM WebSphere

You cannot uninstall PeopleSoft Pure Internet Architecture simply by deleting `<PIA_HOME>/webserv/<profile_name>`, without uninstalling it from IBM WebSphere Administration Console. If you do so, the IBM WebSphere registry becomes corrupt, and subsequent attempts to install PeopleSoft Pure Internet Architecture will fail. Instead, if necessary, you must uninstall PeopleSoft Pure Internet Architecture on IBM WebSphere ND as described here:

To uninstall PeopleSoft Pure Internet Architecture on IBM WebSphere:

1. Open IBM WebSphere Administration Console at `http://machine-name:9060/ibm/console`
2. Log in as any user.
3. Choose Applications, Enterprise Applications.
4. Select the check boxes for the PeopleSoft Pure Internet Architecture applications you want to uninstall, and click Stop.
5. Select the check boxes for the PeopleSoft Pure Internet Architecture applications you want to uninstall, and click Uninstall.
6. Save your configuration.
7. Stop IBM WebSphere server using the following commands:

On Windows:

```
<PIA_HOME>\webserv\<profile_name>\bin\stopServer.bat server1
```

On UNIX:

```
<PIA_HOME>\webserv\<profile_name>\bin\stopServer.sh server1
```

8. In addition to uninstalling the application, you need to remove the IBM WebSphere Application Server profile (that was created during PIA install) to complete the PIA uninstallation.

To uninstall profile run the following steps:

- a. Go to `<PIA_HOME>/webserv/<profile_name>/bin`
- b. Run the following command:

On Windows:

```
manageprofiles.bat -delete -profileName profile_name
```

On UNIX:

```
manageprofiles.sh -delete -profileName profile_name
```

where `profile_name` indicates the application name that you have selected during the PIA install.

- c. Delete the directory `<PIA_HOME>/webserv/<profile_name>`

## Task 9B-4: Installing the PeopleSoft Pure Internet Architecture in Silent Mode

This section discusses:

- Understanding the Silent Installation and the Response File
- Editing the Response File
- Running the Silent Mode Installation

### Understanding the Silent Installation and the Response File

You can carry out a silent installation of the PeopleSoft Pure Internet Architecture by providing all the required settings in a response file. With silent installation there is no user interaction. Silent mode installation of PeopleSoft Pure Internet Architecture is supported for both Microsoft Windows and UNIX operating systems platforms, and for both Oracle WebLogic and IBM WebSphere web servers.

### Task 9B-4-1: Editing the Response File

You need a response file to start the installer in silent mode. The PeopleSoft Pure Internet Architecture installer comes with a response file template (resp\_file.txt) that can be found under *PS\_HOME\setup\PsmPPIAInstall\scripts*. Modify the values in the response file according to your installation requirements. The response file should contain all the input parameters that are needed for deploying PeopleSoft Pure Internet Architecture, such as *PS\_CFG\_HOME*, *DOMAIN\_NAME*, *SERVER\_TYPE*, and so on. For example:

- Specify *SERVER\_TYPE=weblogic* to deploy on Oracle WebLogic.
- Specify *SERVER\_TYPE=websphere* to deploy on IBM WebSphere.

*Sample Response file:*

```
#Following inputs are required in response file for silent installation

Location of PIA_HOME directory. For windows path should have front slash '/'⇒
 instead of back slash '\'
Set the below variable to the location where you want to install PIA.
PLEASE NOTE this variable could be ANY DIRECTORY on your machine. It includes⇒
 but is definitely not limited to PeopleTools Home.
PS_CFG_HOME=C:/PT8.50

Name of the PIA domain
DOMAIN_NAME=peoplesoft

Web server type. Possible values are "weblogic", "websphere"
SERVER_TYPE=weblogic

WebLogic home, the location where Oracle WebLogic is installed (for WebLogic⇒
 deployment only)
BEA_HOME=c:/bea
```

```
WebSphere Home, the location where IBM WebSphere is installed (for WebSphere⇒
 deployment only)
WS_HOME=C:/IBM/WebSphere/AppServer

admin console user id/password for securing WebLogic/WebSphere admin console⇒
 credential
USER_ID=system
USER_PWD=
USER_PWD_RETYPE=

Install action to specify the core task that installer should perform.
For creating new PIA domain - CREATE_NEW_DOMAIN.
For redeploying PIA - REDEPLOY_PSAPP.
For recreating PIA domain - REBUILD_DOMAIN.
For installing additional PSFT site - ADD_SITE
INSTALL_ACTION=CREATE_NEW_DOMAIN

Domain type to specify whether to create new domain or modify existing domain.⇒
 Possible values are "NEW_DOMAIN", "EXISTING_DOMAIN".
DOMAIN_TYPE=NEW_DOMAIN

Install type to specify whether the installation is a single server or multi⇒
 server deployment. Possible values are "SINGLE_SERVER_INSTALLATION", "MULTI⇒
 SERVER_INSTALLATION"
INSTALL_TYPE=SINGLE_SERVER_INSTALLATION

WebSite Name
WEBSITE_NAME=ps

AppServer Name
APPSERVER_NAME=

Appserver JSL Port
JSL_PORT=

HTTP Port
HTTP_PORT=80

HTTPS Port
HTTPS_PORT=443

Authentication Domain (optional)
AUTH_DOMAIN=

Web Profile Name Possible Values are "DEV","TEST","PROD","KIOSK"
WEB_PROF_NAME=PROD

Web Profile password for User "PTWEBSERVER"
WEB_PROF_PWD=
WEB_PROF_PWD_RETYPE=
```

```
Integration Gateway user profile.
IGW_USERID=administrator
IGW_PWD=
IGW_PWD_RETYPE=

AppServer connection user profile
APPSRVR_CONN_PWD=
APPSRVR_CONN_PWD_RETYPE=

Directory path for reports
REPORTS_DIR=
```

## Task 9B-4-2: Running the Silent Mode Installation

Use the response file that you modified for your configuration. Substitute the location where you saved the response file for *<path\_to\_response\_file>* in the following procedures:

To install the PeopleSoft Pure Internet Architecture in silent mode on Microsoft Windows:

1. In a command prompt, go to *PS\_HOME\setup\PsmPPIAInstall*.
2. Run the following command:

```
setup.bat -i silent -DRES_FILE_PATH=<path_to_response_file>
```

To install the PeopleSoft Pure Internet Architecture in silent mode on UNIX or Linux:

1. Go to *PS\_HOME/setup/PsmPPIAInstall*.
2. Run the following command:

```
setup.sh -i silent -DRES_FILE_PATH=<path_to_response_file>
```

---

## Task 9B-5: Testing and Administering the PeopleSoft Pure Internet Architecture Installation

This section discusses:

- Verifying the PeopleSoft Pure Internet Architecture Installation
- Starting and Stopping Oracle WebLogic
- Starting and Stopping IBM WebSphere Application Servers
- Using PSADMIN to Start and Stop Web Servers
- Accessing the PeopleSoft Signon

## Verifying the PeopleSoft Pure Internet Architecture Installation

After installing the PeopleSoft Pure Internet Architecture, you should make sure that your configuration is functional. You can test this by signing on to PeopleSoft, navigating within the menu structure, and accessing pages. (Make sure the application server is configured and booted.) This section includes procedures to start and stop the Oracle WebLogic or IBM WebSphere web servers whenever necessary.

### Task 9B-5-1: Starting and Stopping Oracle WebLogic

If you are using the Oracle WebLogic web server, you need to sign on to Oracle WebLogic before using these commands. If you are using IBM WebSphere instead, go on to the next section. Use the following commands in the Oracle WebLogic domain directory.

---

**Note.** Starting from Oracle WebLogic 9.2 and later releases, all the Life-cycle management scripts and other batch scripts for the PIA server on Oracle WebLogic are located in `<PIA_HOME>\webserv\<domain_name>\bin` folder.

---

- To start Oracle WebLogic Server as a foreground process on a single server, use the following commands:

```
startPIA.cmd (on Windows)
startPIA.sh (on UNIX)
```

- To start Oracle WebLogic Server as a foreground process on multiple-servers or distributed servers, use the following commands:

a. Execute:

```
startWebLogicAdmin.cmd (on Windows)
startWebLogicAdmin.sh (on UNIX)
```

b. Then execute:

```
startManagedWebLogic.cmd ManagedServerName (on Windows)
startManagedWebLogic.sh ManagedServerName (on UNIX)
```

- To stop the server, use the following commands:

- Single Server:

```
stopPIA.cmd (on Windows)
stopPIA.sh (on UNIX)
```

- Multiple Servers or Distributed Servers:

```
stopWebLogic.cmd ManagedServerName (on Windows)
stopWebLogic.sh ManagedServerName (on UNIX)
```

For more information on working with Oracle WebLogic multiple servers or distributed servers, see the *PeopleTools: System and Server Administration* product documentation.

---

**Note.** For more information on working with Oracle WebLogic multiple or distributed servers, search My Oracle Support.

---

## Task 9B-5-2: Starting and Stopping IBM WebSphere Application Servers

This section discusses:

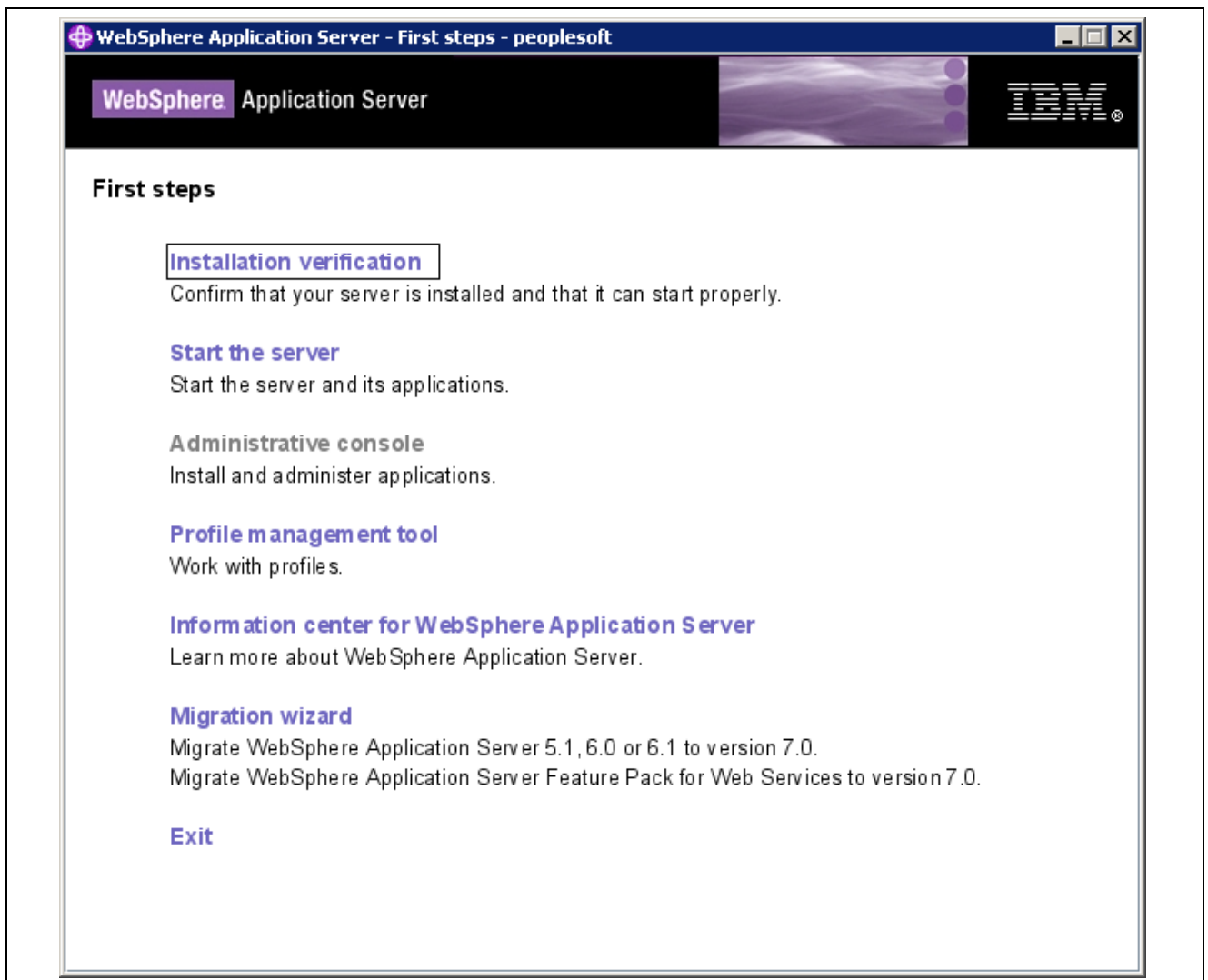
- Starting and Stopping IBM WebSphere Application Servers on Windows
- Starting and Stopping IBM WebSphere Application Servers on UNIX or Linux
- Verifying the IBM WebSphere Installation

### Starting and Stopping IBM WebSphere Application Servers on Windows

To start and stop the WebSphere Application Server Network Deployment 8.5.0.0 (WebSphere ND), use the WebSphere First Steps utility:

1. Select Start, Programs, IBM WebSphere, Application Server Network Deployment V8.5, Profiles, *profile\_name*, First steps.

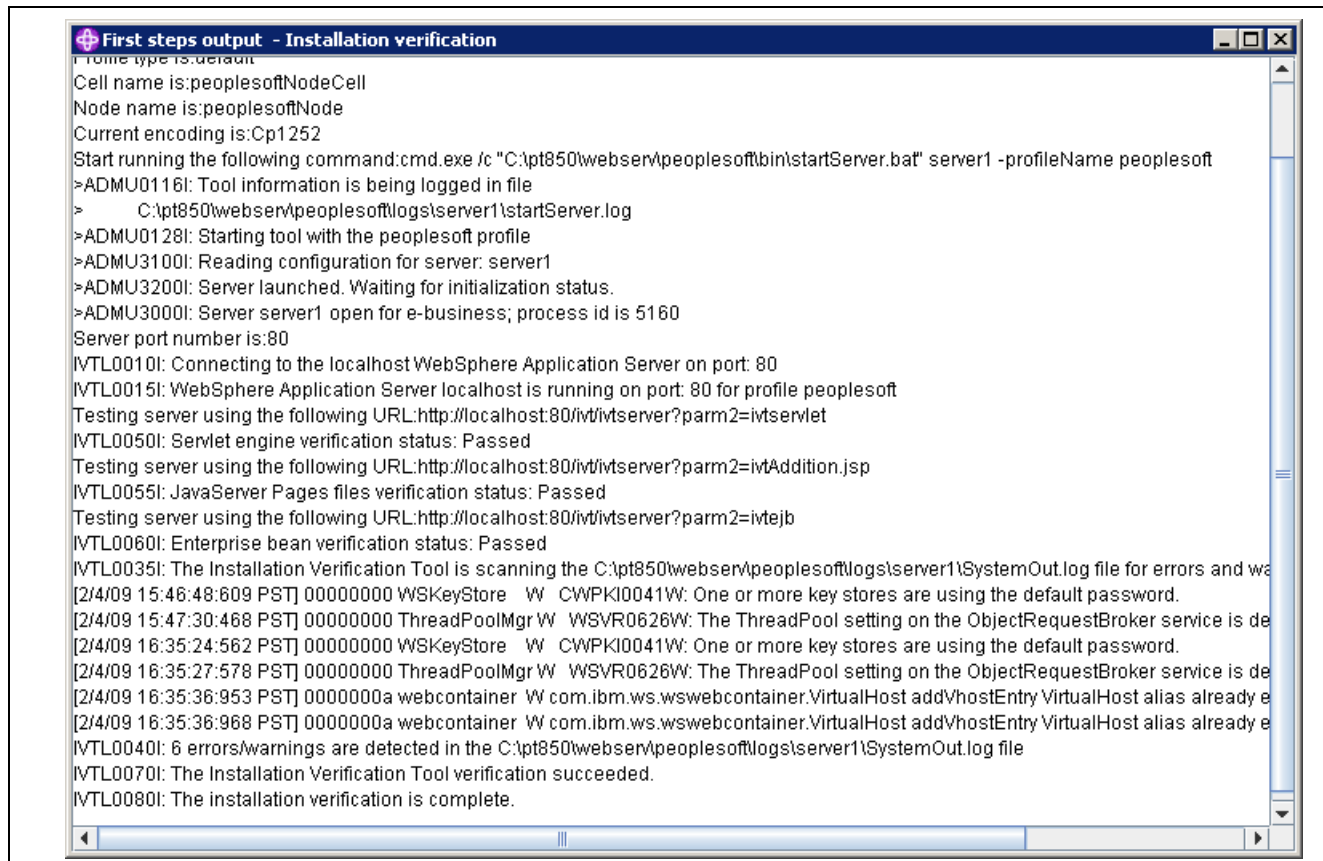
The following example shows the First steps window for the default profile *peoplesoft*:



WebSphere Application Server First Steps window

2. Select the link Start the server.

If the server starts properly, a verification window appears with several messages about the initialization process, as in this example:



First steps output - Installation verification window

3. To verify whether the server was installed and can start properly, click the link Installation Verification on the First Step window.

## Starting and Stopping IBM WebSphere Application Servers on UNIX or Linux

To start WebSphere ND on UNIX or Linux, use the following command:

```
<PIA_HOME>/webserv/<profile_name>/bin/startServer.sh <server_name>
```

For example:

```
/home/pt853/webserver/peoplesoft/bin/startServer.sh server1
```

To stop WebSphere ND, use the following command:

```
<PIA_HOME>/webserv/<profile_name>/bin/stopServer.sh <server_name>
```

## Verifying the IBM WebSphere Installation

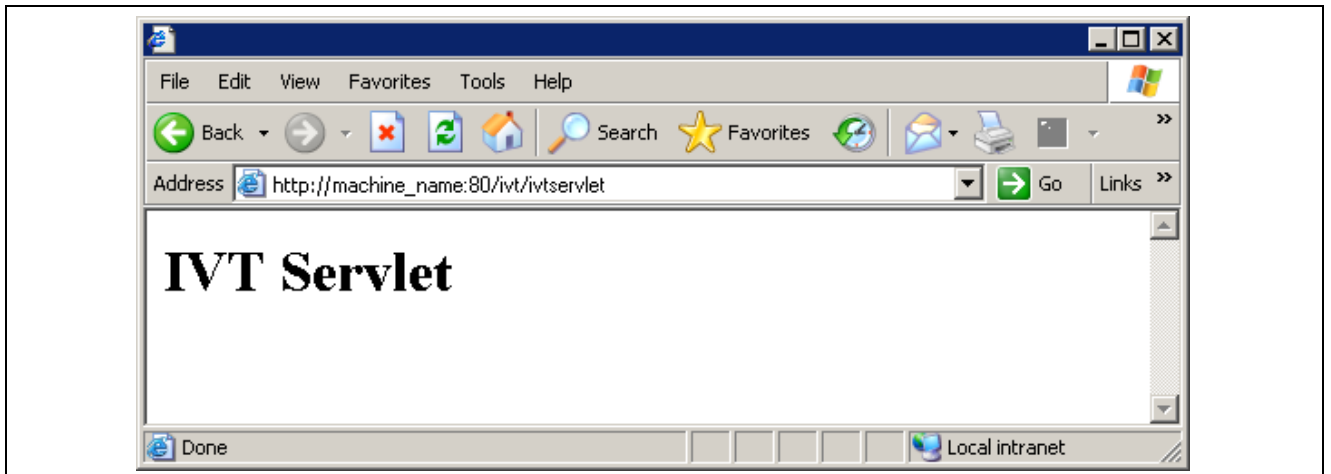
Use this method to verify the WebSphere ND and PIA installation for both Windows and UNIX.

To verify the WebSphere ND and PIA installation, copy the following URL into a browser address bar, substituting your machine name and the http port number:

```
http://<machine_name>:<http_port>/ivt/ivtservlet
```

You should see the text “IVT Servlet” in the browser, as in this example:





IVT Servlet window

You should also sign into the PeopleSoft application, as described in a later section, to verify the installation. See *Accessing the PeopleSoft Signon*.

## Task 9B-5-3: Using PSADMIN to Start and Stop Web Servers

In addition to the methods given in the previous sections for starting and stopping Oracle WebLogic and IBM WebSphere web servers, in PeopleSoft PeopleTools 8.52 and later releases you can use PSADMIN to administer a web server domain.

See *PeopleTools: System and Server Administration*, "Using PSADMIN Menus."

To start and stop web servers:

1. Run the `psadmin` command.
2. Specify 4 for Web (PIA) Server.

```

PeopleSoft Server Administration

Config Home: /home/psft_AppServ

1) Application Server
2) Process Scheduler
3) Search Server
4) Web (PIA) Server
5) Switch Config Home
6) Replicate Config Home
q) Quit

Command to execute (1-6, q): 4
```

The location of Config Home is the current working directory. The PSADMIN utility determines the Config Home directory by checking for the `PS_CFG_HOME` environment variable. If that is not set, it checks for the presence of domains in the default `PS_CFG_HOME` location. If none exists, it uses the `PS_HOME` location from which it was launched.

See "Preparing for Installation," Defining Installation Locations.

3. Select *1* for Administer a domain.

```

PeopleSoft PIA Administration

PIA Home: /home/psft_WebServ

1) Administer a domain
2) Create a domain
3) Delete a domain

q) Quit
```

Command to execute: **1**

The PSADMIN utility determines the PIA Home location displayed here by first checking for a PIA\_HOME environment variable. If none is set, it checks for the PS\_CFG\_HOME environment variable. If neither is set, it uses the default PS\_CFG\_HOME directory.

4. Select the domain you want to administer by entering the appropriate number.

```

PeopleSoft PIA Domain Administration - Choose a Domain

1) OnWls1034R607
2) peoplesoft

q) Quit
```

Command to execute: **2**

5. To start a web server domain, enter *1*, Boot this domain.

```

PeopleSoft PIA Domain Administration

PIA Home: /home/psft_websrv
PIA Domain: peoplesoft

1) Boot this domain
2) Shutdown this domain
3) Get the status of this domain
4) Configure this domain
5) Edit configuration files
6) View log files
7) Administer a site
8) Delete a site

q) Quit
```

Command to execute: 1

The boot command invokes the startPIA.sh script, and you see the progress and a status message on the console window.

```
Starting the domain.....
The domain has started.
```

6. To stop a web server domain, select 2, Shutdown this domain.

The shutdown command invokes the stopPIA.sh script, and you see the progress and a status message on the console window.

```
Stopping the domain.....
Verifying domain status.....
The domain has stopped.
```

7. Select 1 to install a service, or 2 to remove it.

This command invokes the installNTservice script, and creates a service named *WebLogicDomain-WebLogicServer*.

```

Windows Service Setup

PIA Home: C:\psft_websrv
PIA Domain: peoplesoft: started

1) Install Service
2) Uninstall Service

q) Quit
```

Command to execute:

## Task 9B-5-4: Accessing the PeopleSoft Signon

To access the PeopleSoft signon:

1. Open your web browser.
2. Enter the name of the site you want to access—for example (the default value for *<site\_name>* is ps):

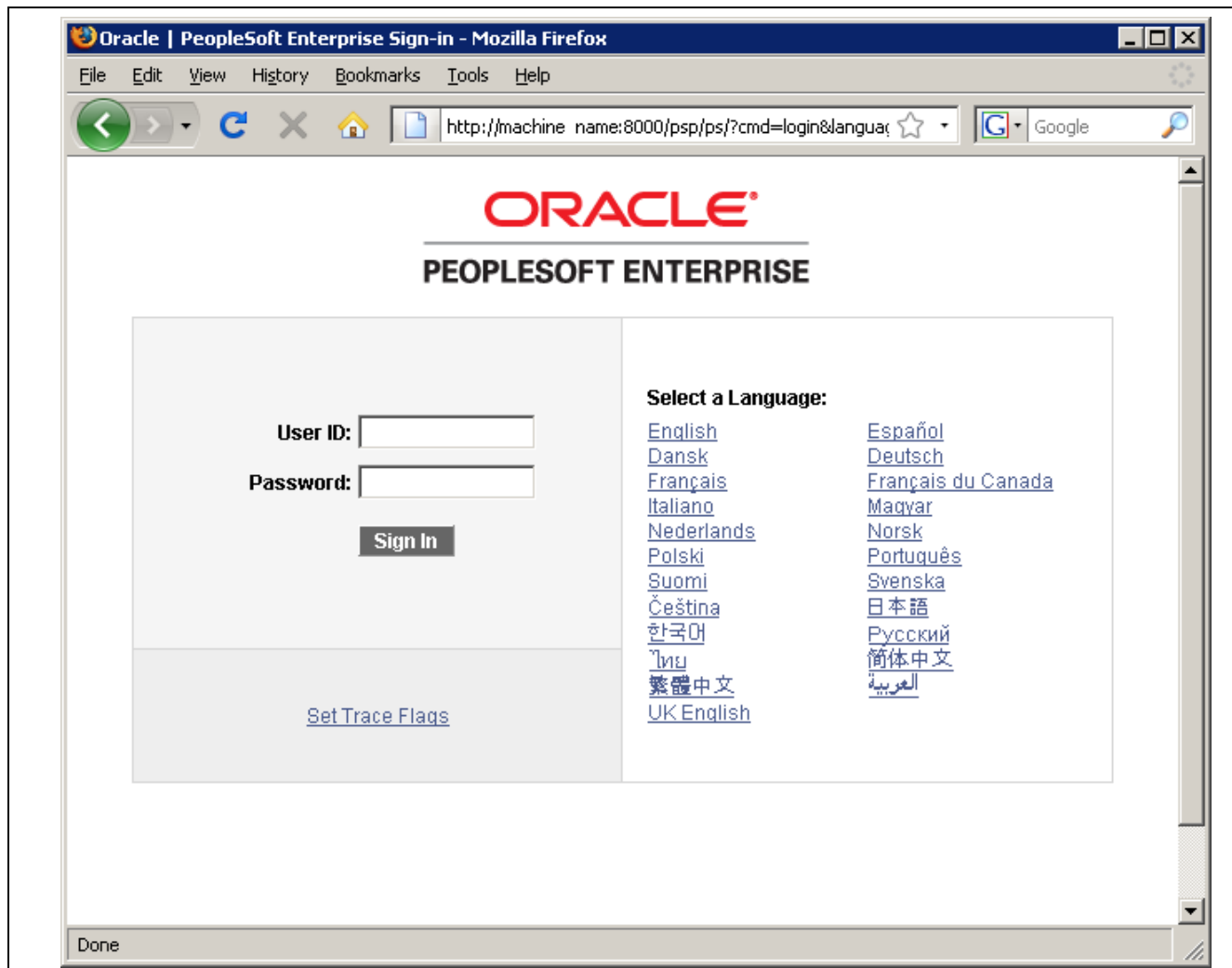
```
http://<machine_name>:<http_port>/<site_name>/signon.html
```

---

**Note.** PeopleSoft Pure Internet Architecture installed on IBM WebSphere server listens at the HTTP/HTTPS ports specified during the PeopleSoft Pure Internet Architecture install. Invoke PeopleSoft Pure Internet Architecture through a browser by using the specified HTTP or HTTPS ports—that is, `http://<WebSphere_machine_name>:<server_port>/<site_name>/signon.html` (if AuthTokenDomain is not specified ) or `http://<WebSphere_machine_name.mycompany.com>:<server_port>/<site_name>/signon.html` (if you specified .mycompany.com as the AuthTokenDomain).

---

This will take you to the sign-in window corresponding to your browser's language preference. This example shows the sign-in window in a Mozilla Firefox browser, before signing in.



Oracle PeopleSoft Enterprise Sign in window

---

**Note.** If you do not see the signon screen, check that you supplied all the correct variables and that your application server and the database server are running.

---

3. Sign in to the PeopleSoft system by entering a valid user ID and password.

---

**Note.** The user ID and password was set during the database configuration and also used to boot the application server.

---



---

**Note.** The user ID and password are case sensitive. You need to enter the user ID and password using UPPERCASE characters.

---

The PeopleSoft PeopleTools and PeopleSoft Applications include various default user IDs. For information on using the user IDs delivered with your PeopleSoft Application demo database, see the application-specific installation instructions. For information on using and securing PeopleSoft PeopleTools default user IDs, see the information on administering user profiles in the *PeopleTools: Security Administration* product documentation.

---

## Task 9B-6: Completing Post-Installation Steps

This section discusses:

- Updating the Installation Table
- Updating PeopleTools Options
- Updating Database Information

### Task 9B-6-1: Updating the Installation Table

After you complete the installation process, creating the database, installing the Application Server, and installing the PeopleSoft Pure Internet Architecture, you must complete this additional step. The license codes from the Oracle license code site mentioned earlier install all products available in the installation package. This post-installation step ensures that only the products for which you are licensed are active in the installation. The location of the installation table in the PeopleSoft Pure Internet Architecture menu varies depending upon the application that you installed.

To update the installation table:

1. Sign on to the PeopleSoft Pure Internet Architecture in a browser.
2. Select Setup *Application\_name* (where *Application\_name* is the PeopleSoft application you installed), Install, Installation Table.

Select the Products tab.

3. Clear the check boxes for the products for which you have not obtained a license.

#### See Also

"Using the PeopleSoft Installer," Obtaining License Codes

Accessing the PeopleSoft Signon

### Task 9B-6-2: Updating PeopleTools Options

You can set the following options on the PeopleTools Options page:

- Multi-Currency — Select this check box if you plan to use currency conversion.  
See *PeopleTools: Global Technology*, "Using System-Wide Multicurrency Settings."
- Base Time Zone — Enter a value for the base time zone for your PeopleTools database.  
See *PeopleTools: Global Technology*, "Setting the Base Time Zone."
- Data Field Length Checking — Select one of the following values:
  - Others — If you are using a Unicode-encoded database or a non-Unicode SBCS database.
  - MBCS — If you are running a non-Unicode Japanese database.

See *PeopleTools: Global Technology*, "Selecting Character Sets."

- Sort Order Option — If you specified a non-binary sort order for your database, choose the Sort Order Option that most closely approximates your database sort order.

See *PeopleTools: Global Technology*, "Setting the Sort Order."

## Task 9B-6-3: Updating Database Information

The database information updated in this procedure is used by the PeopleSoft software update tools to identify your PeopleSoft database when searching for updates. These steps should be followed for all additional databases that you create to enable the accurate identification of your databases.

1. Sign on to your PeopleSoft database.
2. Navigate to PeopleTools, Utilities, Administration, PeopleTools Options.
3. Specify long and short names for your environment. For example:
  - Environment Long Name — Customer HR Demo Database
  - Environment Short Name — HR Demo DB
4. Select a system type from the drop-down list. For example, Demo Database.
5. Save your changes.

## CHAPTER 10

# Setting Up Process Scheduler on Windows

This chapter discusses:

- Prerequisites
- Preparing the Process Scheduler File System for a PeopleTools-Only Upgrade
- Setting Up Process Scheduler Security
- Setting Up Process Scheduler to Transfer Reports and Logs to the Report Repository
- Setting Environment Variables
- Setting Up Process Scheduler Server Agent
- Starting Process Scheduler as a Windows Service (Optional)
- Configuring the Process Scheduler for Word for Windows (Optional)
- Configuring Setup Manager
- Installing Products for PS/nVision

---

## Prerequisites

Before setting up your Process Scheduler, you must:

- Install Tuxedo.  
See "Installing Additional Components."
- Install database connectivity to be able to communicate with your database server (Process Scheduler requires a direct connection to the database).  
See "Preparing for Installation."
- Set up the web server with the PeopleSoft Pure Internet Architecture, as described in the previous chapter. This is required to set up the Process Scheduler to transfer reports or log files to the Report Repository.
- Set up your COBOL batch environment if you need to run COBOL processes through Process Scheduler. COBOL is no longer required to start a Process Scheduler Server Agent because the program for Process Scheduler has been rewritten in C++. If the PeopleSoft modules purchased do not contain any COBOL modules, the COBOL run time libraries are not required. Also, COBOL is not required for applications that contain no COBOL programs. Consult My Oracle Support for the details on whether your application requires COBOL.  
See "Preparing for Installation," Planning Your Initial Configuration.
- Install the Microsoft Office products Microsoft Word and Microsoft Excel.

- Have both your application server and the PeopleSoft Pure Internet Architecture started. In this chapter, you must modify security options of the designated PeopleSoft user ID that will be used to boot up Process Scheduler. This requires that the user ID's profile be modified through the User Security component. Please refer to earlier chapters for the details on starting the application server and the PeopleSoft Pure Internet Architecture.

In PeopleSoft PeopleTools 8.50 and later, the configuration and log files for Process Scheduler server domains reside in *PS\_CFG\_HOME*. If you do not set a *PS\_CFG\_HOME* environment variable before beginning the application server configuration, the system installs it in a default location based on the current user's settings, as follows:

```
%USERPROFILE%\psft\pt\<peopletools_version>
```

See "Preparing for Installation," Defining Installation Locations.

See the product documentation *PeopleTools: System and Server Administration* for more information on the *PS\_CFG\_HOME* environment variable and working with server domain configuration.

### See Also

*PeopleTools: PeopleSoft Process Scheduler*

My Oracle Support, Certifications

---

## Task 10-1: Preparing the Process Scheduler File System for a PeopleTools-Only Upgrade

If you are installing into an existing *PS\_HOME* or *PS\_CFG\_HOME* in preparation for a tools-only upgrade, review your system for files that you may need to remove or back up.

---

## Task 10-2: Setting Up Process Scheduler Security

This section discusses:

- Understanding Process Scheduler Security
- Changing User Account to Start ORACLE ProcMGR V11.1.1.2.0 with VS2010
- Granting Process Scheduler Administrative Rights

### Understanding Process Scheduler Security

This task—in which you set up the PeopleSoft User ID that will be used to boot Process Scheduler server so it has administrative rights to both Process Scheduler and Report Manager—guarantees that security is set up properly both in Windows and within your PeopleSoft database.

You must carry out this task to start Process Scheduler successfully.



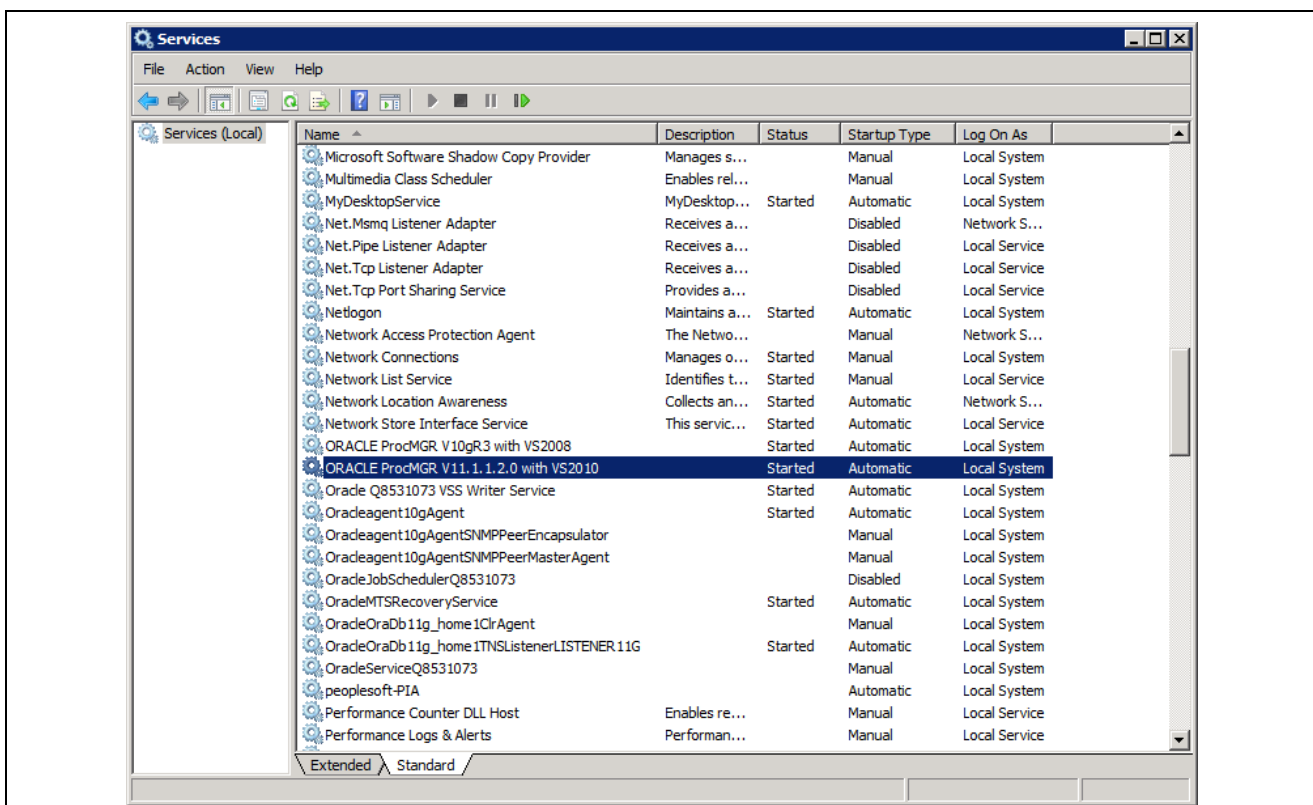
In the next section you set up ORACLE ProcMGR V11.1.1.2.0 with VS2010 with a network user ID. When you install Oracle Tuxedo, the ORACLE ProcMGR V11.1.1.2.0 with VS2010 service is set up by default to be started by local system account—a user account that does not have access to the Windows network. If the Process Scheduler server or processes initiated through Process Scheduler will be using a network printer, accessing files from a network drive, or using Windows utilities such as XCOPY that may access UNC paths, you need to change the user account used to start ORACLE ProcMGR V11.1.1.2.0 with VS2010 with a network user account.

## Task 10-2-1: Changing User Account to Start ORACLE ProcMGR V11.1.1.2.0 with VS2010

To change User Account to start ORACLE ProcMGR V11.1.1.2.0 with VS2010:

1. Select Start, Settings, Control Panel. Double-click Administrative Tools, and double-click the Services icon.

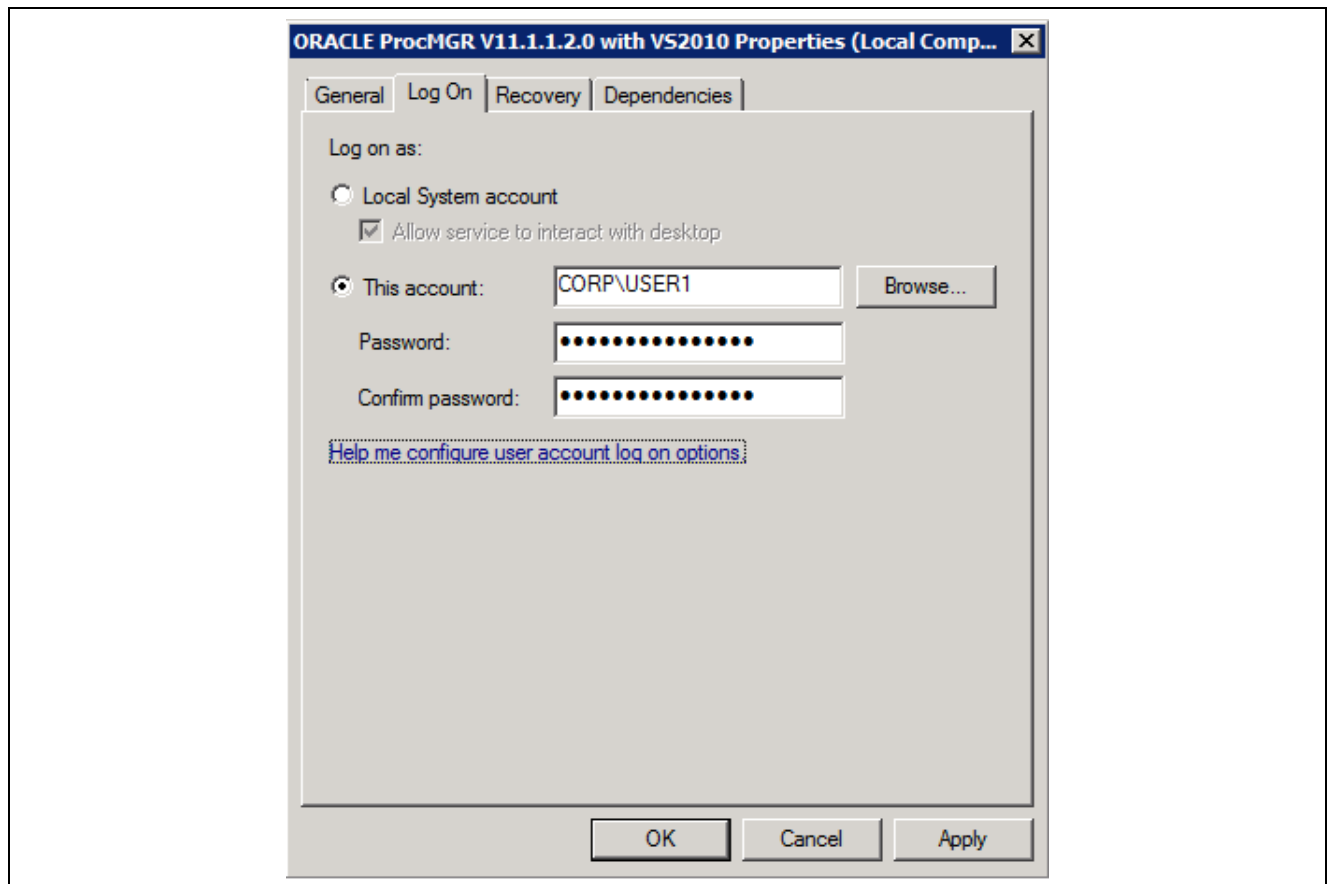
In the Services dialog box, find the service labeled *ORACLE ProcMGR V11.1.1.2.0 with VS2010*. This service is installed automatically when you install Tuxedo, and is highlighted in this example.



Services dialog box with ORACLE ProcMGR service highlighted

2. If the Stop button is enabled, click on it to stop the current ORACLE ProcMGR V11.1.1.2.0 with VS2010 process.
  - a. Click Yes when a message informs you of the status change.
  - b. Double-click ORACLE ProcMGR V11.1.1.2.0 with VS2010.  
The Properties dialog box appears.
3. Select the option This account on the Log On tab.

Enter an account name and password. In this example, the account name is CORP\USER1.



ORACLE ProcMGR V11.1.1.2.0 with VS2010 Properties dialog box: Log On tab

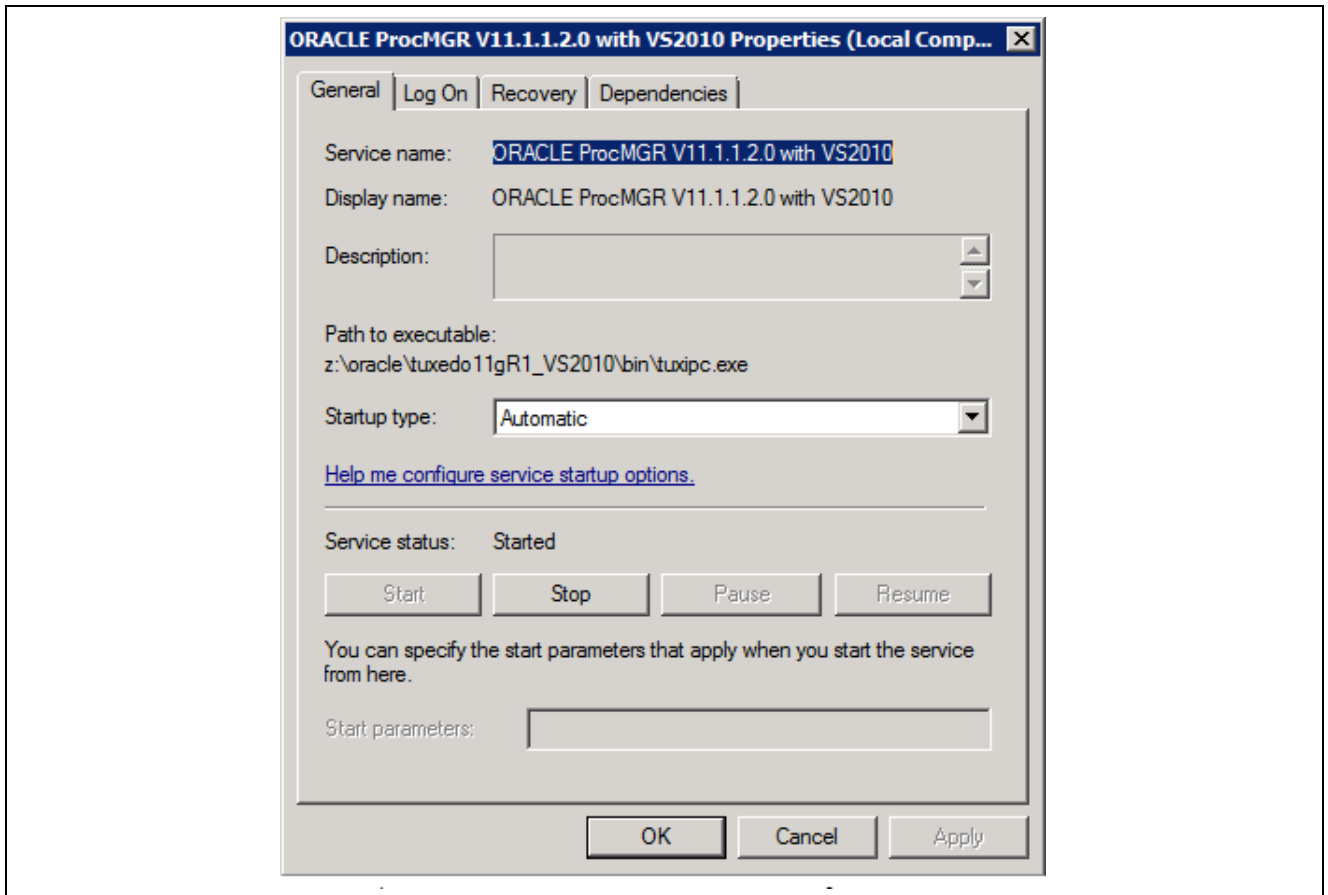
---

**Note.** When you configure your Tuxedo server as outlined in the chapter, "Configuring the Application Server," the user ID designated to be the Application Server Administrator must have read/write permissions to the PeopleSoft file directory and read permission to the %TUXDIR% directory, such as C:\oracle\tuxedo11gR1\_vs2010.

---

4. Select the General tab.

Make sure that Startup Type is set to Automatic, and click OK.



ORACLE ProcMGR V11.1.1.2.0 with VS2010 Properties dialog box: General tab

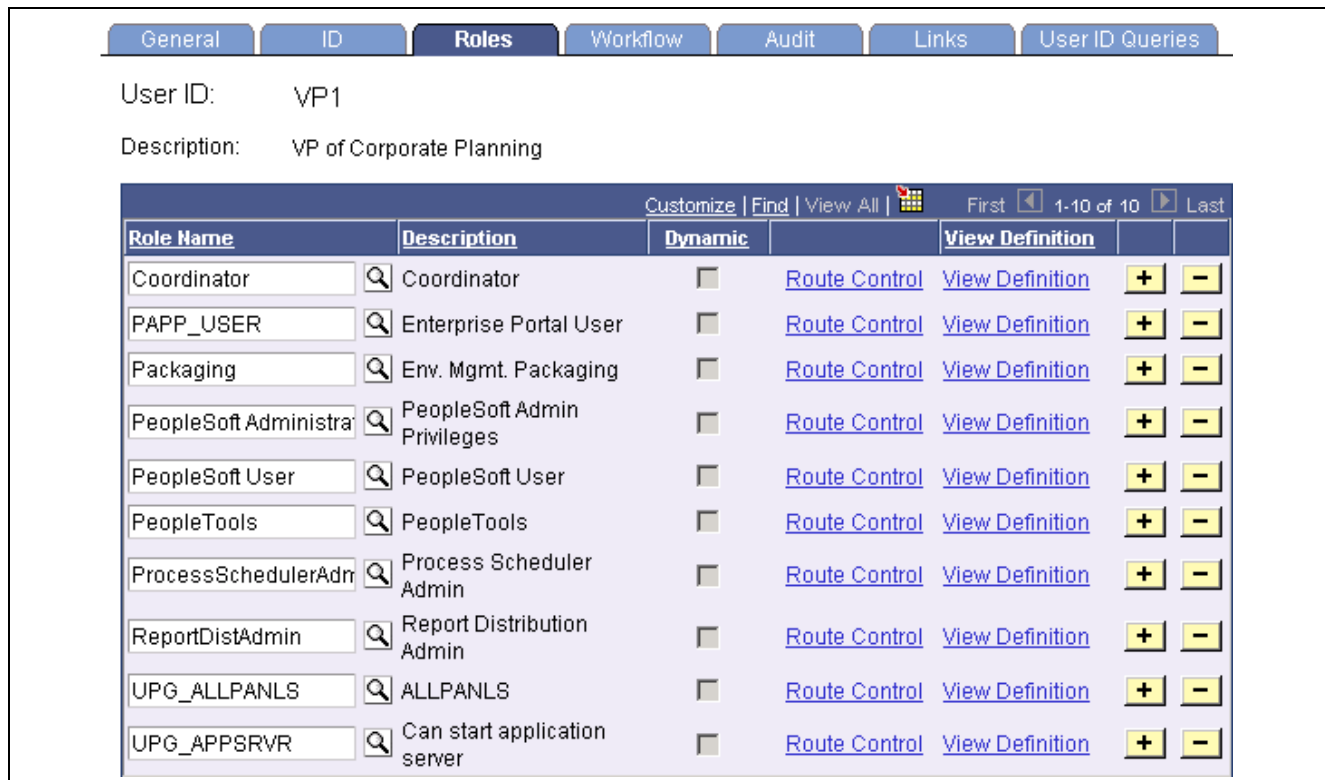
5. Click Start.

A message in the Properties dialog box will indicate the "Started" status. Click OK to close the dialog box.

## Task 10-2-2: Granting Process Scheduler Administrative Rights

To grant Process Scheduler administrative rights:

1. Log onto your PeopleSoft database through the PeopleSoft Pure Internet Architecture.
2. Select PeopleTools, Security, User Profiles.
3. Select the User Profiles component. Use the Search dialog to select the PeopleSoft User ID you plan to use to boot the Process Scheduler server.
4. Click the Roles tab, click the plus icon to insert a new row, and there enter the *ProcessSchedulerAdmin* role to grant the user ID with administrative rights in the Process Scheduler components.



Process Scheduler window: Roles tab

- Repeat the instructions in step 4 to add the role *ReportDistAdmin*.

This will grant the user ID administrative rights to the Report Manager component. Carry out this step only if the same user is also responsible for maintaining the content of Report Manager.

- Click Save to save your changes.
- Select the General tab and jot down the Permission List name assigned to the Process Profile field.
- From the Portal menu, choose PeopleTools, Security, Permissions & Roles, Permission Lists.
- In the Search dialog, enter the Permission List you noted in step 7.
- Select the Can Start Application Server check box.
- Click Save to save your changes.

## Task 10-3: Setting Up Process Scheduler to Transfer Reports and Logs to the Report Repository

This section discusses:

- Understanding Report Distribution
- Setting Up Single Signon to Navigate from PIA to Report Repository
- Determining the Transfer Protocol
- Starting the Distribution Agent

- Setting Up the Report Repository
- Setting Up the Distribution for Your Process Scheduler Server
- Setting Up Sending and Receiving of Report Folders in the Report Manager

## Understanding Report Distribution

The PeopleSoft PeopleTools Report Distribution lets you access reports and log files generated from process requests run by a Process Scheduler Server Agent. Using the PeopleSoft Pure Internet Architecture, you can view reports and log files from the web browser through the Report Manager or Process Monitor Detail page. Report Distribution enables you to restrict access to these reports to authorized users based either on user ID or role ID.

This product also includes the Distribution Agent component, which runs on the same server as the Process Scheduler Server Agent. The Distribution Agent, a process that runs concurrently with the Process Scheduler Server Agent, transfers to the Report Repository files generated by process requests initiated by the Process Scheduler Server Agent.

The Distribution Agent transfers files to the Report Repository when one of these criteria is true:

- The Process Scheduler Server Agent is set up in the *Server Definition* to transfer all log files to the Report Repository.
- The process request output destination type is *Web/Window*.

In either case, the Process Scheduler Server Agent inserts a row in the Report List table (PS\_CDM\_LIST). The server agent then updates the distribution status for a process request to *Posting* upon completion of the program associated with the process request. The distribution status of Posting signals that the files for the process request are ready for transfer to the Report Repository. The Distribution Agent is notified by Process Scheduler for any process requests that are ready for transferring. As part of the process to transfer files to the Report Repository, the Distribution Agent performs the following steps:

- *Transfer files to the Report Repository.* All the report and log files are transferred to the Report Repository. For each process request transferred, a directory is created in the Report Repository using the following format: \<database name>\<date yyyymmdd>\<report id>. All the files for a process request are stored in this directory.
- *Delete the directory from the Process Scheduler Agent's Log/Output directory.* When the output destination type specified for a process request is Web/Window, all the files and directory associated with the process request are deleted from the Process Scheduler Log/Output directory after the files are transferred to the Report Repository.

The following diagram illustrates the Process Scheduler and Report Repository architecture. The diagram includes the following items:

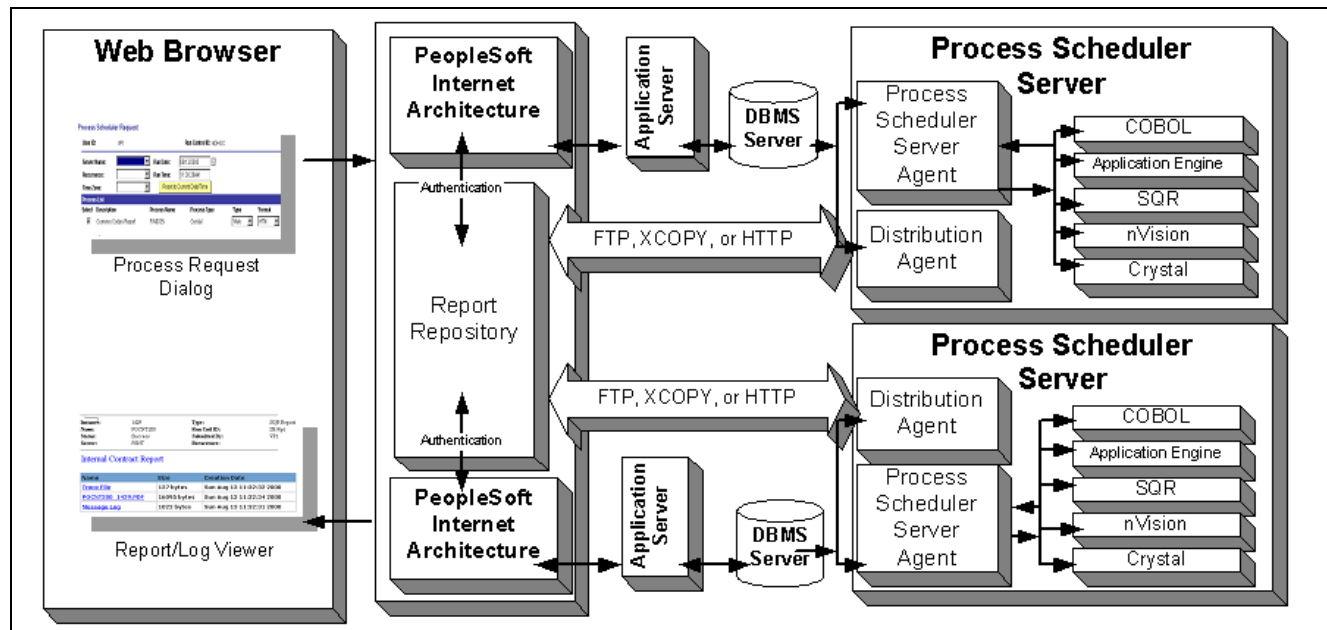
- The web browser gives access to the Process Request dialog and the Report or Log Viewer.
- The Report Repository is part of the PeopleSoft Pure Internet Architecture.

---

**Note.** The PeopleSoft Pure Internet Architecture must be installed for Process Scheduler to be able to transfer reports to the Repository.

---

- The Process Scheduler Server includes the Process Scheduler Server Agent and the Distribution Agent.
- The transfer protocol between Process Scheduler and the Report Repository may be FTP, XCOPY, or HTTP/HTTPS.



Process Scheduler and Report Repository Architecture

Before users can view a report, they are authenticated against the PeopleSoft database.

You should set up single signon if you do not want users to have to log on an additional time to view reports in the Report Repository. For the details on setting up single signon, consult the security documentation.

See *PeopleTools: Security Administration*.

## Task 10-3-1: Setting Up Single Signon to Navigate from PIA to Report Repository

To view reports (log files or system files) from Report Repository, you need to pass the authentication. Report Repository should be treated as a separate PeopleSoft application. To navigate from PeopleSoft Pure Internet Architecture (PIA) to Report Repository, you need to set up single signon to avoid getting a prompt for a second signon. This section includes some considerations for setting up single signon to navigate from PIA to Report Repository.

If Report Repository resides on the same web server as the PeopleSoft Pure Internet Architecture, make sure your Local Message Node is set up to be a "trusted" node for single signon for your system.

If Report Repository resides on a different web server than PeopleSoft Pure Internet Architecture, do the following:

- Make sure your Local Message Node is set up to be a "trusted" node for single signon for your system.
- Use a fully qualified domain name when addressing the web server for both PIA and Report Repository. For example, enter `http://<machineName>.peoplesoft.com/<site_name>/signon.html` instead of `http://<machineName>/<site_name>/signon.html`.
- Specify the Authentication Domain for your application during installation. If you have multiple applications, and you want them to employ single signon, it is important to specify the same Authentication Domain for all applications.

See the information on implementing single signon in the *PeopleTools: Security Administration* product documentation.

- Set up single signon with a password, like this:

- Choose PeopleTools, Integration Broker, Integration Setup, Nodes.
- Click Search and then select the node marked as Default Local Node.
- Select *Password* for the Authentication Option.
- Enter a password of your choice.
- Enter the password again in the Confirm Password field.
- Enter the user ID for which you are setting up single signon in the Default User ID field.
- Save the Node Definition.
- Sign off of PIA.
- Reboot your application server.

### See Also

*PeopleTools: Security Administration*

## Task 10-3-2: Determining the Transfer Protocol

*We recommend using HTTP as your transfer protocol.*

Before transferring the files to the Report Repository, you need to determine which transfer protocol to use. You can use either an XCOPY, FTP, or HTTP/HTTPS. (If FTP information is not specified, Process Scheduler will perform an XCOPY.)

---

**Note.** If you are using FTP, the FTP service must be set up in your web server.

---

---

**Note.** JRE is installed automatically on your Process Scheduler server.

---

## Task 10-3-3: Starting the Distribution Agent

The Distribution Agent is automatically started as another Oracle Tuxedo server when a Process Scheduler Server is booted. If a Process Scheduler Server was set up without specifying a Distribution Node in the *Server Definition* page, the Process Scheduler server will have a status in Process Monitor of “Running with No Report Node.” Once a node is defined for the Process Scheduler server and in the next cycle the Process Scheduler server checks the state of the system, the Distribution Agent dynamically sets up its environment.

## Task 10-3-4: Setting Up the Report Repository

This section discusses:

- Defining ReportRepositoryPath
- Defining the Report Node to Use HTTP/HTTPS
- Defining the Report Node to Use XCOPY
- Defining the Report Node to Use FTP

## Defining ReportRepositoryPath

The ReportRepositoryPath specifies the location of a directory for the Report Repository. You can specify the location for the Report Repository Path on the General page of the Web Profile during installation. If you do not set the location in the Web Profile, the location given by ReportRepositoryPath in the configuration.properties file is used for the default location. Note that the value entered for Report Repository Path in the Web Profile overrides any entry in the configuration.properties file.

See *PeopleTools: PeopleSoft Portal Technology*, "Configuring Web Profiles."

Use the following formats to enter the name for the directory that you want to use for the ReportRepositoryPath. The examples below give the default values. Note that you must use a forward slash (/) in both cases:

- *Windows*: ReportRepositoryPath=c:/psreports
- *UNIX*: ReportRepositoryPath=<user\_home>/PeopleSoft Internet Architecture/psreports  
For <user\_home> substitute the home directory for the current user.

## Defining the Report Node to Use HTTP/HTTPS

To define the report node to use HTTP/HTTPS:

1. Select PeopleTools, Process Scheduler, Report Nodes.
2. Select the Add a New Value link and enter the Report node name.

The Report Node Definition page appears. You are on the Http Distribution Node page.

3. Verify that the Http Information option is selected.

The screenshot shows the 'Report Node Definition' page for an 'Http Distribution Node'. At the top, there are two tabs: 'Http Distribution Node' (selected) and 'FTP/XCopy Distribution Node'. The main title is 'Report Node Definition'. Below this, the 'Node Name' is set to 'HTTP'. There are two radio buttons: 'Ftp/XCopy' (unselected) and 'Http Information' (selected). The 'Distribution Node Details' section includes a 'URL' field with the value 'http://<machine\_name>:<port\_number>/psreports/<site\_name>', a 'Description' field, and an 'Operating System' dropdown menu set to 'Windows'. The 'Connection Information' section has two radio buttons: 'http' (selected) and 'https' (unselected). It includes a 'URI Host' field with the value '<machine\_name>', a 'URI Port' field with the value '80', a 'URI Resource' field with the value 'SchedulerTransfer/<site\_name>', a 'Login ID' field, a 'Password' field, and a 'Confirm Password' field. At the bottom, there are buttons for 'Save', 'Notify', 'Add', and 'Update/Display'. A breadcrumb trail at the bottom reads 'Http Distribution Node | FTP/XCopy Distribution Node'.

Report Node Definition page for HTTP



4. Enter the *URL* of the web server using the following format:

`http://<machine_name>:<port_number>/psreports/<site_name>`

Replace *<machine\_name>* with the name of your machine. Use the fully qualified host name for your web server. If you are using an http port other than 80, you need to specify the port number.

---

**Note.** If you specify the Authentication Token Domain name during the PeopleSoft Pure Internet Architecture installation, you must include a fully qualified domain name for the URL instead of the IP address.

---

- *Description:* Enter a description of the server (optional).
- *Operating System:* Select the web server operating system.

5. Enter the following Connection Information:

- *http/https:* Select the http option if you are *not* using SSL (default). Select the https option if you are using SSL. Note that if you are using SSL you need to have Client Certificates installed on your web server.
- *URI Host:* Enter the machine name for the report repository.

---

**Note.** In a basic setup, the machine name for the report repository will match the machine name of the web server URL. However, under certain circumstances—for example, if you are using a reverse proxy server—the URL and URI Host may have different machine names.

---

- *URI Port:* Enter the port number, which must match the port number of your web server (defaults are http = 80, https = 443). If you change a port number you will lose the default values for both protocols.
- *URI Resource:* Enter SchedulerTransfer/<site name>.

---

**Note.** The setup of authentication is optional, but is recommended for security of the Report Repository when using the HTTP to transfer files. For information on setting up authentication on the web server where the Report Repository resides, refer to the *PeopleTools: Security Administration* product documentation.

---

- *Login ID:* Enter the Login ID. This is not required, unless basic authentication has been set up on the web server by the Web Administrator.
- *Password:* Enter the password for the user ID specified in the Login ID field. This is not required, unless basic authentication has been set up on the web server by the Web Administrator.
- *Confirm Password:* Enter the password a second time as a confirmation. This is not required, unless basic authentication has been set up on the web server by the Web Administrator.

6. Click Save to save your entries.

7. To add additional report nodes, select Add to return to the Search page.

The following fields are shared between the FTP/XCOPY Distribution Node page and the Http Distribution page:

- URL
- Description
- Operating System
- Login ID

- Password
- Confirm Password.

When you enter the information on one page, the information is also displayed on the shared fields of the other page but the fields are grayed out.

**Note.** If you complete the information for one protocol and then change your selection to another protocol, the shared fields will become active on the other page and grayed out on the original page. When you save, the system automatically clears the fields that are not shared.

## Defining the Report Node to Use XCOPY

If you use XCOPY the following parameters must be configured: URL, Operating System (must be Windows Server), Network Path (must be DOS or UNC paths and should be a shared directory with write permissions for the account running the Process Scheduler).

To define the report node to use XCOPY:

1. Select PeopleTools, Process Scheduler, Report Nodes.
2. Select Add a New Value, enter the Report node name, and click Add.
3. Select the FTP/XCopy option.

The FTP/XCopy Distribution page appears.

**Report Node Definition**

Node Name: XCOPY

☒ Ftp/XCopy ☐ Http Information

**Distribution Node Details**

URL: http://<machine\_name>:<port\_number>/psreports/<site\_name>

Home Directory:

Description:

Operating System: Windows

**Connection Information**

FTP Address: Password:

FTP ID: Confirm Password:

Network Path: \\<machine\_name>\psreports

Save Notify Add Update/Display

[Http Distribution Node](#) | [FTP/XCopy Distribution Node](#)

Report Node Definition page for XCOPY

4. Enter the URL of the web server using this format:

`http://<machine_name>:<port_number>/psreports/<site_name>`

Replace *<machine name>* with the name of your web server.

If you are using an http port other than 80, you need to specify the port number. In this case, *<site name>* refers to the directory where you installed the PIA files.

---

**Note.** If you installed the web server software with the default TCP port of 80, you do not need to specify the port number in the URL path. However, if you installed the web server to some other port, you must specify the port number in the URL path.

---

5. Under Network Path replace *<machine name>* with the name of your machine.

Make sure that this directory is shared with the login or logins accounts used to start Process Scheduler. Enter the path that points to your Report Repository share. Use UNC format instead of mapped drive format.

6. Select Windows as the operating system.
7. Select Save to save your entries.
8. To add additional report nodes, select Add to return to the Search page.

## Defining the Report Node to Use FTP

If you use FTP the following parameters must be configured: URL, Home Directory, Operating System, FTP Address, FTP ID, Password, Confirm Password. In addition, if your FTP server is a Windows server, you may have to set up the FTP service.

---

**Note.** The Distribution Agent will perform a validation after FTP has transferred files into the Report Repository by sending a query request to the web server. For this task to be accomplished, it is critical that the following setup is done:

The value entered in the URL must be accurate. Verify that the machine name, port number, and site number are correct.

If this setup is not completed, the process request will get a status of NOT POSTED in the Process Monitor Detail page and will log the message "Unable to verify files posted."

---

To define the report node to use FTP:

1. Select PeopleTools, Process Scheduler, Report Nodes.
2. Select Add a New Value, enter the Report node name, and click Add.
3. Select the FTP/XCopy option.

The FTP/XCopy Distribution node page appears.

Report Node Definition page for FTP

4. Enter the URL of the web server using this format:

```
http://<machine_name>:<port_number>/psreports/<site_name>
```

Replace *<machine name>* with the name of your web server. If you are using an http port other than 80, you need to specify the port number. The variable *<site name>* refers to the directory where you installed the PIA files; this will default to ps for the first installation.

---

**Note.** If you specify the Authentication Token Domain name during the PeopleSoft Pure Internet Architecture installation, you must include a fully qualified domain name for the URL instead of the IP address.

---



---

**Note.** If you installed the web server software with the default TCP port of 80, you do not need to specify the port number in the URL path. However, if you installed the web server to some other port, you must specify the port number in the URL path.

---

5. Enter the following additional parameters:

- *Home Directory:* Enter the directory specified during the installation of PeopleSoft Pure Internet Architecture as the Report Repository. The FTP user ID must have write access to this directory. Note that this is not a required field for HTTP transfer, as the system uses the Report Repository directory specified at install time or the current directory assigned to ReportRepositoryPath in configuration.properties. Note that the value you enter for the Report Repository Path in the Web Profile at install time overrides any entry for ReportRepositoryPath in configuration.properties.

For Windows, the directory needs to match the Report Repository path. Make sure that you do not include any drive information—as in c:\psreports\—because you are using the FTP protocol to interpret this parameter.

- *Description:* Enter a description of the server (optional).
  - *Operating System:* Select the operating system of the Report Repository.
  - *FTP Address:* Enter the machine name or the IP address of the Report Repository. If the name of the machine is used, it must be included on a DNS server.
  - *FTP ID:* FTP user ID.
  - *Password:* Enter the password for the user ID specified in the FTP ID field.
  - *Confirm Password:* Enter the password a second time as a confirmation.
6. Select Save to save your entries.
  7. To add additional report nodes, select Add to return to the Search page.

### **Task 10-3-5: Setting Up the Distribution for Your Process Scheduler Server**

To set up the Distribution Settings for your Process Scheduler Server:

1. Choose PeopleTools, Process Scheduler, Servers.
2. Enter the Server Name (such as PSNT). The Server Definition page appears.
3. Select the Distribution tab.

Server Definition | **Distribution** | Operation | Notification | Daemon

Server Name: PSNT

**Server Distribution Details**

Distribution Node Name:

Maximum Transfer Retries:

Interval for Transfer Attempt:  seconds

Transfer System Files to Report Repository ☐

Save Return to Search Notify Add Update/Display

[Server Definition](#) | [Distribution](#) | [Operation](#) | [Notification](#) | [Daemon](#)

Server Definition page: Distribution tab

4. Click the lookup button for Distribution Node Name to display the report node names and select the name of the required report node.
5. Enter a number for the Maximum Transfer Retries. This is the maximum number of times the server can try to send a report before it errors out.
6. Enter the number of seconds for the Interval for Transfer Attempt field. This is the interval between attempts to send the report.
7. Select the check box Transfer Log Files to Report Repository if you want to transfer all log and trace files from processes that do not generate reports.
8. Click Save to save your entries.
9. If Process Scheduler is running, you must reboot for any new settings to take effect.

To view reports (log files or system files) from Report Repository, you need to pass the authentication. Report Repository should be treated as a separate PeopleSoft Application. To navigate from PIA to Report Repository, you need to setup single signon in order to avoid getting prompt for second signon.

## Task 10-3-6: Setting Up Sending and Receiving of Report Folders in the Report Manager

To be able to view reports in the Report Manager Explorer and List pages, you need to set up the sending and receiving of report folders in the Report Manager by activating the domain on which a sending and receiving server resides. Consult the documentation covering the PeopleSoft Integration Broker to learn how to activate the sending and receiving server domain.

See *PeopleTools: PeopleSoft Integration Broker*.

See *PeopleTools: Integration Broker Service Operations Monitor*.

## Task 10-4: Setting Environment Variables

To set the appropriate Tuxedo environment variables, carry out these steps. (If you have already set these variables on the machine you are using as your Process Scheduler Server, you can skip this task.)

See "Installing Additional Components," Installing Oracle Tuxedo on Microsoft Windows.

To set the variables:

1. Choose Start, Settings, Control Panel.
2. Double-click the System icon.
3. Make sure that the NLSPATH environment variable is set.

NLSPATH does not need to be explicitly set since Oracle Tuxedo sets NLSPATH in its own registry tree. This value can be displayed using Control Panel, Tuxedo, on the Environment tab. However, the installation of certain products, such as IBM DB2 connectivity (DB2 for z/OS and DB2 for Linux, UNIX, and Windows) sets NLSPATH to a value that causes Oracle Tuxedo to fail. The solution is to either set NLSPATH=c:\tuxedo\locale\c, or to delete it entirely and let Oracle Tuxedo pick up the value from its registry tree. If you are running DB2 for Linux, UNIX, and Windows, the solution instead is to append the c:\tuxedo\locale\c directory in the NLSPATH directory.

Search the Oracle Tuxedo documentation for additional information on NLSPATH.

## Task 10-5: Setting Up Process Scheduler Server Agent

This section discusses:

- Understanding Process Scheduler Server Agent
- Creating and Configuring a Process Scheduler Server
- Reconfiguring a Process Scheduler Server
- Verifying the Process Scheduler Server Status

### Understanding Process Scheduler Server Agent

For installation purposes, you can use predefined server names and other definitions. The predefined name that you might use is as follows:

| Server Name | Operating System  |
|-------------|-------------------|
| PSNT        | Microsoft Windows |

To test this, use processes already defined in your PeopleSoft database. To set up a new server definition in your PeopleSoft database, refer to the *PeopleTools: PeopleSoft Process Scheduler* product documentation.

---

**Note.** When creating multiple Process Scheduler Servers for the same database, each server must have a unique server name. For example, two Process Scheduler Servers, both named PSNT, cannot run against the same database.

---

## Task 10-5-1: Creating and Configuring a Process Scheduler Server

This section describes how to create and configure a Process Scheduler server.

You can set Process Scheduler configuration parameters either by using PSADMIN, which provides an interactive dialog, or by editing the configuration file `psprcs.cfg` located in the `PS_CFG_HOME\appserv\prcs\database name` directory. The following steps assume you are using PSADMIN to specify parameter settings.

---

**Note.** For Cube Builder users, if Essbase Server is installed on a different machine than the Process Scheduler, you must install Essbase Client 11.1.2.1 on the process scheduler server machine. You must also ensure that the `%ESSBASEPATH%` and `%ARBORPATH%` environmental variables are properly set in the Process Scheduler.

If the Process Scheduler server is running on a machine with a 64-bit Microsoft Windows environment, configure it to use the 32-bit Essbase Runtime Client.

---



---

**Note.** If you use the configuration file `psprcs.cfg`, be aware that in the PeopleSoft PeopleTools 8.49 release and later, the section [Output Dest Exceptions] has been modified to trap metastring exceptions not only in the output destination but in other process parameters as well. In this section the entry `OUTDEST_EXCEPT01=%ANYMETASTRING%` has been changed to `PARAMETER_EXCEPT01=%ANYMETASTRING%`.

---

To create and configure a Process Scheduler Server:

1. From `PS_HOME\appserv` on the batch server, type `psadmin` and press ENTER to access the PeopleSoft Server Administration menu.
2. Select 2 to access the Process Scheduler submenus.

```

PeopleSoft Server Administration

Config Home: C:\psft_PrcsSchSrv

1) Application Server
2) Process Scheduler
3) Search Server
4) Web (PIA) Server
5) Switch Config Home
6) Replicate Config Home
q) Quit

Command to execute (1-6 q): 2
```

3. Select 2 from the PeopleSoft Process Scheduler Administration menu.



# PeopleSoft Process Scheduler Administration

-----

- 1) Administer a domain
- 2) Create a domain
- 3) Delete a domain
- 4) Import domain configuration
- q) Quit

Command to execute (1-4, q) : 1

4. When prompted for the name of the database that your server will access, enter the name of the database and press ENTER:

Please enter name of Database that server will access :

5. After the system creates the domain, you see the prompt

Would you like to configure this Process Scheduler Server now? (y/n) [y] :

Choose y; you'll see a Quick-configure menu something like this:

-----

Quick-configure menu -- domain: HRDMO

-----

| Features                  | Settings                                      |
|---------------------------|-----------------------------------------------|
| =====                     | =====                                         |
| 1) App Engine : Yes       | 6) DBNAME : [HRDMO]                           |
| 2) Master Scheduler : Yes | 7) DBTYPE : [MICROSFT]                        |
|                           | 8) PrcsServer : [PSNT]                        |
|                           | 9) UserId : [PS]                              |
|                           | 10) UserPswd : []                             |
|                           | 11) ConnectID : [people]                      |
|                           | 12) ConnectPswd: []                           |
|                           | 13) ServerName : []                           |
|                           | 14) Log/Output Dir: [%PS_SERVDIR%\log_output] |
|                           | 15) SQRBIN : [%PS_HOME%\bin\sqr\MSS\binw]     |
|                           | 16) AddToPATH : [%WINDIR%;%WINDIR%\SYSTEM32]  |
|                           | 17) DBBIN : [C:\<connectivity directory>]     |
|                           | 18) Crystal Path: []                          |
|                           | 19) DomainConnectPswd: []                     |

## Actions

=====

- 3) Load config as shown
- 4) Custom configuration
- 5) Edit environment settings
- h) Help for this menu
- q) Return to previous menu

HINT: Enter 6 to edit DBNAME, then 3 to load

Enter selection (1-19, h, or q):

6. If you need to modify any of these settings, enter the number next to the parameter name, type the new value, and press ENTER. This table lists the parameters and gives brief descriptions.

| Parameter                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Master Scheduler          | Flag to enable the Master Scheduler Server (PSMSTPRC). Default is to enable the server.<br><i>See PeopleTools: PeopleSoft Process Scheduler.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| App Engine                | Flag to initiate Application Engine programs through the AE Tuxedo Server (PSAESRV). Default is set to run AE using PSAESRV.<br><i>See PeopleTools: PeopleSoft Process Scheduler.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Load config as shown      | Load the selections you made in the Quick Configure menu.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Custom configuration      | Make custom selections in PSADMIN, using options that are not available in the Quick Configure menu.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Edit environment settings | Edit, add, remove, comment out, and review domain-level environment variables.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| DBNAME                    | Specify the database name that is associated with a PeopleSoft Process Scheduler Server Agent, such as HRDMO, FSDMO, SADMO, and so on.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| DBTYPE                    | Specify the database type: MICROSOFT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| PrsServer                 | Specify the process server name. This must match the name defined in the Server Definition table, such as <i>PSNT</i> or <i>PSUNX</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| UserId                    | Enter the user ID. For Enterprise Resource Planning (ERP), this is typically <i>VPI</i> , and for Human Resources (HR) it's <i>PS</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| UserPswd                  | Enter the password for the user ID, as you specified during the database configuration.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ConnectID                 | Enter the connect ID. This value is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ConnectPswd               | Enter the connect password, as you specified during the database configuration. This value is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ServerName                | Enter the server name<br><br>This value is not required for Microsoft SQL Server users.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Log/Output Dir            | Specify the directory in which files that are generated by the program are written. When PeopleSoft Process Scheduler initiates a process request, it creates a subdirectory in the format <Process Type ID>_<Program Name>_<Process Instance> that contains the generated files. For instance, the SQR program XRFWIN that ran with process instance 20 has all reports, trace, and log files in the subdirectory SQR_XRFWIN_20. It is also the optional directory used with the Output Destination field when scheduling a request. This variable (%%OutputDirectory%%) can be used in the File/Printer field of the Process Scheduler Request dialog box. |
| SQRBIN                    | Enter the path to the SQR executables.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Parameter         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AddToPATH         | (Optional for Tuxedo) Specify an additional directory that is appended to the PATH environment variable.<br><br>For a Microsoft SQL Server installation, specify the 64-bit connectivity software. For example:<br><br>C:\Program Files\Microsoft SQL Server\100\Tools\Binn<br><br><b>Note.</b> If the PATH environment variable already includes the database connectivity location, you do not need to change the setting for AddToPATH. |
| DBBIN             | Enter the path to the database drivers; that is, your connectivity software.                                                                                                                                                                                                                                                                                                                                                               |
| Crystal Path      | If you are using SAP Crystal Reports, enter the path to the SAP Crystal Reports runtime installation. For example:<br><br>C:\Program Files (x86)\SAP BusinessObjects<br><br>See "Installing and Configuring Software for Crystal Reports," Installing SAP Crystal Reports.                                                                                                                                                                 |
| DomainConnectPswd | If you configured your Application Server domain to require a Domain Connection password, enter it here. Otherwise, leave it blank.<br><br>See the information on setting Application Server Domain Parameters in the <i>PeopleTools: System and Server Administration</i> product documentation.                                                                                                                                          |

For descriptions of the PSADMIN options that do not appear in the Quick-configure menu, see the information on using PSADMIN in the *PeopleTools: PeopleSoft Process Scheduler* product documentation. For a basic install, in most cases you can accept the defaults.

7. When you have updated the settings as needed, choose *3, Load config as shown*, from the Quick-Configure menu to save your settings to the Process Scheduler configuration file, pstuxcfg.
8. To start Process Scheduler, choose *1*, for Administer Domain.

---

**Note.** The Crystal and ODBC libraries and components are automatically configured when Process Scheduler is configured. Successful configuration of the Crystal components requires SAP Crystal Reports runtime engine for .NET Framework 4 (Crystal Reports version for Visual Studio 2010) to be installed on the machine. Admin privileges are required for this task to complete successfully.

---

9. On the PeopleSoft Process Scheduler Administration menu, choose *1* for *Boot this domain*.

```

PeopleSoft Process Scheduler Administration

```

```
Domain Name: HRDMO
```

- ```
1) Boot this domain
2) Domain shutdown menu
3) Domain status menu
4) Configure this domain
```

- 5) TUXEDO command line (tmadmin)
- 6) Edit configuration/log files menu
- 7) Clean IPC resources of this domain
- q) Quit

Command to execute (1-7, q) :

10. Choose 1, Boot (Serial Boot), or 2, Parallel Boot, from the PeopleSoft Domain Boot Menu.

Note. The messages you see and the number of processes started will depend on the options you chose during configuration.

11. If you want to stop Process Scheduler Server, from the PeopleSoft Domain Administration menu, choose 2, *Domain Shutdown menu*, and then enter the number corresponding to the name of the appropriate database.

Note. If you see the following message, then the server is already down:

```
Command to execute (1-2, q) [q]: 1
Loading command line administration utility ...
tmadmin - Copyright (c) 2007-2008, Oracle.
Portions * Copyright 1986-1997 RSA Data Security, Inc.
All Rights Reserved.
Distributed under license by Oracle.
Tuxedo is a registered trademark.
No bulletin board exists. Entering boot mode.
> TMADMIN_CAT:111: ERROR: No such command.
```

Task 10-5-2: Reconfiguring a Process Scheduler Server

If you create and then immediately configure a Process Scheduler server, you can use the Quick-configure menu. Alternatively, you can use PSADMIN as described in this section. Feel free to skip this procedure if you have already created and configured your Process Scheduler Server using the Quick-configure menu and want to move forward with your installation.

Note. If you want to configure the Process Scheduler Server while it is running, you need to stop and restart the server to load the new settings.

To reconfigure a Process Scheduler Server:

1. Go to *PS_HOME\appserv* and enter:


```
psadmin
```
2. Select 2 for Process Scheduler in the PeopleSoft Server Administration menu.
3. In the PeopleSoft Process Scheduler Administration menu, select 1 for Administer a domain.
4. Select the database for which the Process Scheduler needs to be configured.
5. At the prompt

```
Do you want to change any config values (y/n)? [n]:
```

Specify y to start an interactive dialog that lets you examine or change parameter values.

- Now you specify configuration parameters one by one. Configuration parameters are grouped into sections. At each section, you are asked whether to change any parameters—for example:

Values for config section - Startup

```
DBName=
DBType=
UserId=
UserPswd=
ConnectId=
ConnectPswd=
ServerName=
StandbyDBName=
StandbyDBType=
StandbyUserId=
StandbyUserPswd=
```

Do you want to change any values (y/n)? [n]:

- Specify *y* to change any parameter values for the current section. You are prompted for each parameter value. Either specify a new value or press ENTER to accept the default. After you press ENTER, you are positioned at the next parameter in that section. When you are done with that section, you are again asked whether you want to re-edit any of the values you changed.
- The parameters StandbyDBName, StandbyDBType, StandbyUserID, and StandbyUserPswd are used for a standby database in an Oracle database environment.

See the information on implementing Oracle Active Data Guard in the *PeopleTools: Data Management*, product documentation.

- If you do not want to change any values, specify *n* and you are prompted for the next configuration section.

- Once you have selected all your parameters, you see this message

You will need to shut down and start up the server to read the new settings.

For descriptions of the Process Scheduler options in the PSADMIN, see the *PeopleTools: PeopleSoft Process Scheduler* product documentation . In most cases you can accept the defaults.

Task 10-5-3: Verifying the Process Scheduler Server Status

At this stage it is a good idea to verify the Process Scheduler Server status.

To verify the Process Scheduler Server status:

- From the PeopleSoft Process Scheduler Administration menu, choose option 3, for *Domain status menu*.

```
-----
PeopleSoft Process Scheduler Administration
-----
```

Domain Name: HRDMO

- ```
1) Boot this domain
2) Domain shutdown menu
3) Domain status menu
4) Configure this domain
```

- 5) TUXEDO command line (tmadmin)
- 6) Edit configuration/log files menu
- 7) Clean IPC resources of this domain
- q) Quit

Command to execute (1-7, q) : 3

2. To verify the status of the Process Scheduler Server for a specific database, type the number corresponding to the appropriate database.

For example:

Database list:

- 1) HRDMO

```
Select item number to start: 1
Loading command line administration utility ...
tmadmin - Copyright (c) 2007-2008 Oracle.
Portions * Copyright 1986-1997 RSA Data Security, Inc.
All Rights Reserved.
Distributed under license by Oracle.
Tuxedo is a registered trademark.
```

| > Prog Name    | Queue Name  | Grp Name  | ID  | RqDone | Load | Done | Current | Service |
|----------------|-------------|-----------|-----|--------|------|------|---------|---------|
| BBL.exe        | 46845       | PSSERVER+ | 0   | 9      | 450  | (    | IDLE    | )       |
| PSMONITORSRV.e | MONITOR     | MONITOR   | 1   | 0      | 0    | (    | IDLE    | )       |
| PSAESRV.exe    | 00101.00001 | AESRV     | 1   | 0      | 0    | (    | IDLE    | )       |
| PSAESRV.exe    | 00101.00002 | AESRV     | 2   | 0      | 0    | (    | IDLE    | )       |
| PSAESRV.exe    | 00101.00003 | AESRV     | 3   | 0      | 0    | (    | IDLE    | )       |
| PSPRCSSRV.exe  | SCHEDQ      | BASE      | 101 | 0      | 0    | (    | IDLE    | )       |
| PSMSTPRC.exe   | MSTRSCHQ    | BASE      | 102 | 0      | 0    | (    | IDLE    | )       |
| PSDSTSRV.exe   | DSTQ        | BASE      | 103 | 0      | 0    | (    | IDLE    | )       |

>

You can also verify the status of the Process Scheduler Server from Process Monitor in PeopleSoft Pure Internet Architecture. To verify the Process Scheduler Server status from the Process Monitor page, go to PeopleTools, Process Scheduler, Process Monitor, and select *Server List*.

If the user has the process security rights to update the server status, the *Refresh* button can be used to refresh the screen, too.

See Setting Up Process Scheduler Security.

This example of the Server List page shows two Process Scheduler servers with status Down, and one with status Running.

Process List

Server List

Refresh

| Server                  | Hostname | Last Update Date/Time | Dist Node | Master | CPU (%) | Memory (%) | Active | Status  | Details                 |
|-------------------------|----------|-----------------------|-----------|--------|---------|------------|--------|---------|-------------------------|
| <a href="#">PSNT</a>    | PTLAB95  | 10/28/2003 9:53:33AM  | https     | N      | 1       | 29         | 0      | Down    | <a href="#">Details</a> |
| <a href="#">QEPSNT2</a> | PTLAB95  | 10/28/2003 9:53:45AM  | https     | N      | 1       | 29         | 0      | Down    | <a href="#">Details</a> |
| <a href="#">QE_HPX1</a> | pt-hp07  | 10/28/2003 10:05:47AM | https     | Y      | 21      | 34         | 1      | Running | <a href="#">Details</a> |

```

1) Application Server
2) Process Scheduler
3) Search Server
4) Service Setup
5) Replicate Config Home
q) Quit

```

Command to execute (1-4, q): 4

5. Select *I* from the PeopleSoft Services Administration menu.

```

PeopleSoft Services Administration

1) Configure a Service
2) Install a Service
3) Delete a Service
4) Edit a Service Configuration File
q) Quit

```

Command to execute (1-4, q) : 1

When asked if you want to change configuration values, enter y.

6. Enter the name of the Process Scheduler databases that you intend to include as part of the Windows service.

```

Values for config section - NT Services
Service Start Delay=60
Application Server Domains=HRDMO
Process Scheduler Databases=HRDMO
Search Server Domains=HRDMO

```

Do you want to change any values (y/n)? [n] :

If you specify more than one Process Scheduler database, separate each entry with a comma.

---

**Note.** You can use PSADMIN to set up Process Scheduler Servers, application servers, or search servers as a Windows service. The Windows Service psntrsv.exe automatically starts application servers, Process Scheduler servers, and search servers that reside on the same Microsoft Windows machine. Occasionally, psntrsv.exe would attempt to initiate a connection between an application server, Process Scheduler server, or search server and a database on the same machine that was not ready to receive requests. As a result the connection would fail. When you set up these servers as a Windows Service, you can specify a Service Start Delay, in seconds, that elapses before a service attempts to start any application server domains, Process Scheduler servers, or search servers. This allows the RDBMS to boot and become available to accept requests. The default setting for the Service Start Delay parameter is 60 seconds.

---



---

**Note.** The NT Services section of the PSADMIN modifies the psntrsv.cfg file located in the *PS\_CFG\_HOME*\appserv directory. You can edit this file manually by selecting 4, *Edit a Service Configuration File* from the PeopleSoft Services Administration menu. If you edit it, you need to delete and then install the service again.

---

7. Select option 2 from the PeopleSoft Services Administration menu.

```

PeopleSoft Services Administration

1) Configure a Service
2) Install a Service
3) Delete a Service
4) Edit a Service Configuration File
q) Quit

```

Command to execute (1-4, q) : 2

8. Return to the Control Panel, choose *Administrative Tools*, and launch the *Services* utility.
9. On the Services dialog, scroll to find the entry that adheres to the following naming convention, and select it:

PeopleSoft <PS\_CFG\_HOME>

For example:

PeopleSoft C:\Documents and Settings\asmith\psft\pt\8.53

---

**Note.** The default Startup mode is Manual.

---

10. Click *Startup*.
11. On the Service dialog in the Startup Type group, select *Automatic*, and in the Log On As group, select *System Account*. Then click OK.

---

**Note.** The *Log On As* setting needs to reflect that which you set for your ORACLE ProcMGR V10gR3 with VS2008 and Tlisten processes. Oracle recommends that you set these services to *System Account* when you install Tuxedo. The *Log On As* value only affects the application server because Process Scheduler runs independently from Tuxedo. See the chapter “Installing Additional Components” for more information on installing Tuxedo, and refer to the chapter “Configuring the Application Server” for the details on configuring the application server.

---

12. On the Services dialog, make sure the PeopleSoft service is selected, and click Start.
13. Use the Process Monitor to verify that the Process Scheduler Server is running. You can also use Task Manager to verify that the executables involved with the service are running.

For the Process Scheduler, make sure that the psprcsrv.exe is running. If you have customized the name of psprcsrv.exe, make sure the appropriate executable is running.

---

## Task 10-7: Configuring the Process Scheduler for Word for Windows (Optional)

Some applications process documents using Word for Windows. Here is how to configure Word to work with the Process Scheduler.

---

**Note.** Microsoft Word must already be installed on the server; it is not included with the PeopleSoft PeopleTools install.

---

To configure Process Scheduler for Word for Windows:

1. Locate the Process Scheduler configuration file `psprcs.cfg` in `PS_CFG_HOME\appserv\prcs\<database_name>` directory and open it for editing.
2. In the [Process Scheduler] section, edit the WINWORD entry so that it points to the directory where `winword.exe` is installed—for example, “WINWORD=C:\Program Files\Microsoft Office\OFFICE 11”.
3. If spaces exist in the WINWORD path in the Process Scheduler configuration file (`psprcs.cfg`), Word for Windows reports will fail. You will need to modify the Process Type Definition and add quotes around the entry in the Command Line field, for example “%%WINWORD%%\winword.exe”.
4. Change the Microsoft Word macro security to allow macros to be run.

Start Microsoft Word and select Tools, Macro, Security. Select the *Low* security setting and click OK.

5. If you are running on Microsoft Windows 2008, modify your macros to include the following line:

```
Application.AutomationSecurity=msoAutomationSecurityLow
```

You can see an example by viewing the macros in `PS_HOME\winword\Wordsamp.doc`.

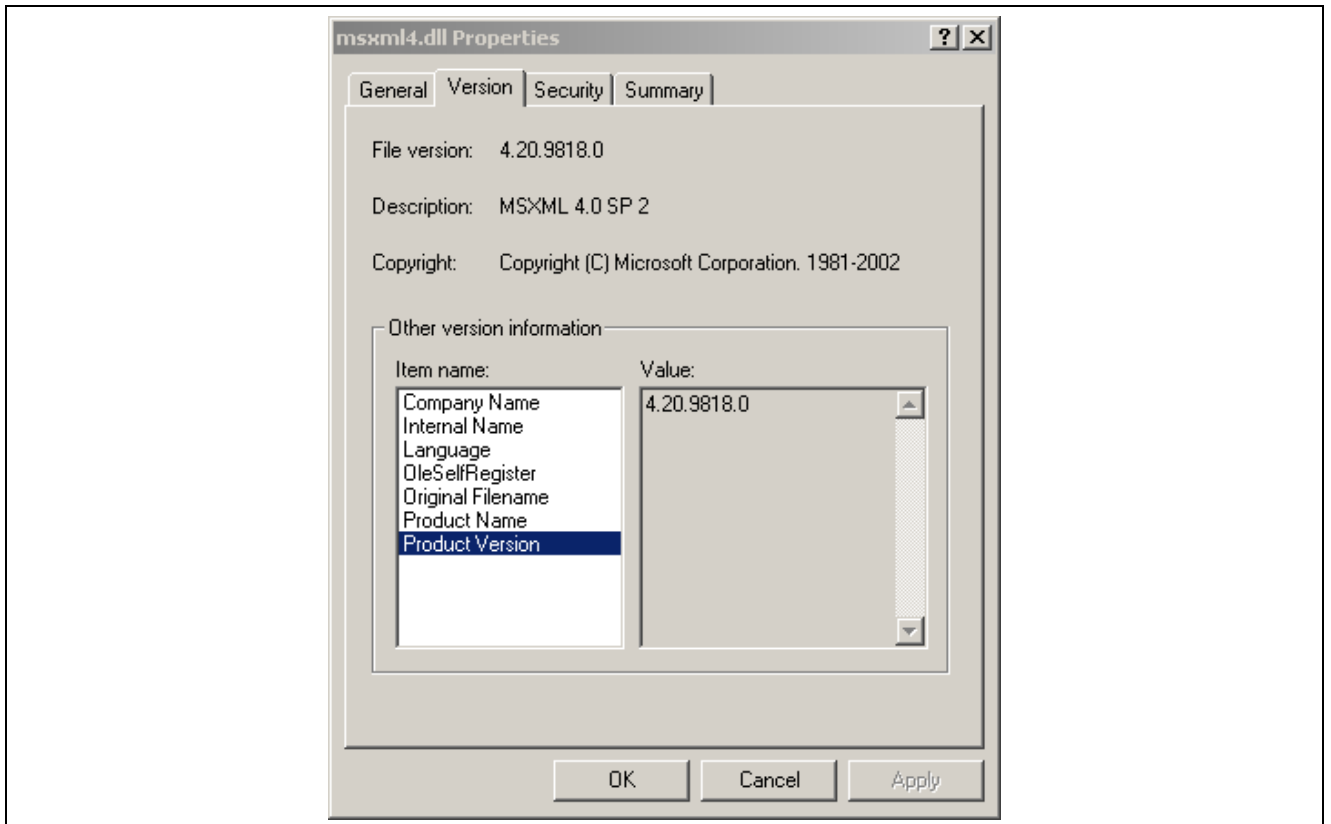
---

## Task 10-8: Configuring Setup Manager

Before you can use Setup Manager, you must fulfill these requirements:

- To use the Excel to CI template-generation feature of Setup manager, the Process Scheduler must be PSNT. That is, Process Scheduler must be installed on a Microsoft Windows machine.
- Process Scheduler must be running.
- Any Process Scheduler environment variables (especially `%PS_FILEDIR%`) must be specified.
- A supported version Microsoft Office must be present on the process scheduler server, and Microsoft Excel must be installed.
- The MSXML COM object for Microsoft Excel, `msxml4.dll`, must be present on the system.

For confirmation, navigate to `%SystemRoot%\system32\msxml4.dll`. Right-click and select Properties. On the `msxml4.dll` Properties dialog box, select the Version tab, and then Product Version. As shown on this example of the `msxml4.dll` Properties dialog box, the version number must be 4.20 or above.



msxml4.dll Properties dialog box: Version tab

### See Also

*PeopleTools: PeopleSoft Setup Manager*

Microsoft support, [support.microsoft.com](http://support.microsoft.com)

## Task 10-9: Installing Products for PS/nVision

This section discusses:

- Understanding the PS/nVision Setup
- Installing Products for PS/nVision in Excel Automation Mode
- Installing Microsoft .NET Framework Products for PS/nVision
- Installing Microsoft Open XML SDK for PS/nVision

### Understanding the PS/nVision Setup

Beginning with the PeopleSoft PeopleTools 8.51 release, PS/nVision can operate in the following two modes on PeopleSoft Process Scheduler (batch server):

- Excel automation mode
- OpenXML mode

OpenXML is the default mode for PeopleSoft PeopleTools 8.53.

## See Also

*PeopleTools: PS/nVision*

## Task 10-9-1: Installing Products for PS/nVision in Excel Automation Mode

To set up PS/nVision in Excel automation mode:

- For all batch servers, install Microsoft Excel on the batch server. The minimum supported version is Microsoft Excel 2007.
- If the batch server is on a 64-bit Microsoft Windows 2008 machine, create an empty “Desktop” folder with this path:

C:\Windows\SysWOW64\config\systemprofile\Desktop

- If the batch server is on a 32-bit Microsoft Windows 2008 machine, create an empty “Desktop” folder with this path:

C:\Windows\System32\config\systemprofile\Desktop

## Task 10-9-2: Installing Microsoft .NET Framework Products for PS/nVision

This section discusses:

- Installing Microsoft .NET Framework 3.5
- Verifying the Microsoft .NET Framework Installation on Microsoft Windows 2008 R2
- Installing Microsoft .NET Framework 4.0

### Installing Microsoft .NET Framework 3.5

Before setting up PS/nVision in OpenXML mode, use these instructions to install Microsoft .NET Framework. Microsoft Open XML SDK 2.0 requires Microsoft .NET Framework versions 3.5 and version 4.0.

---

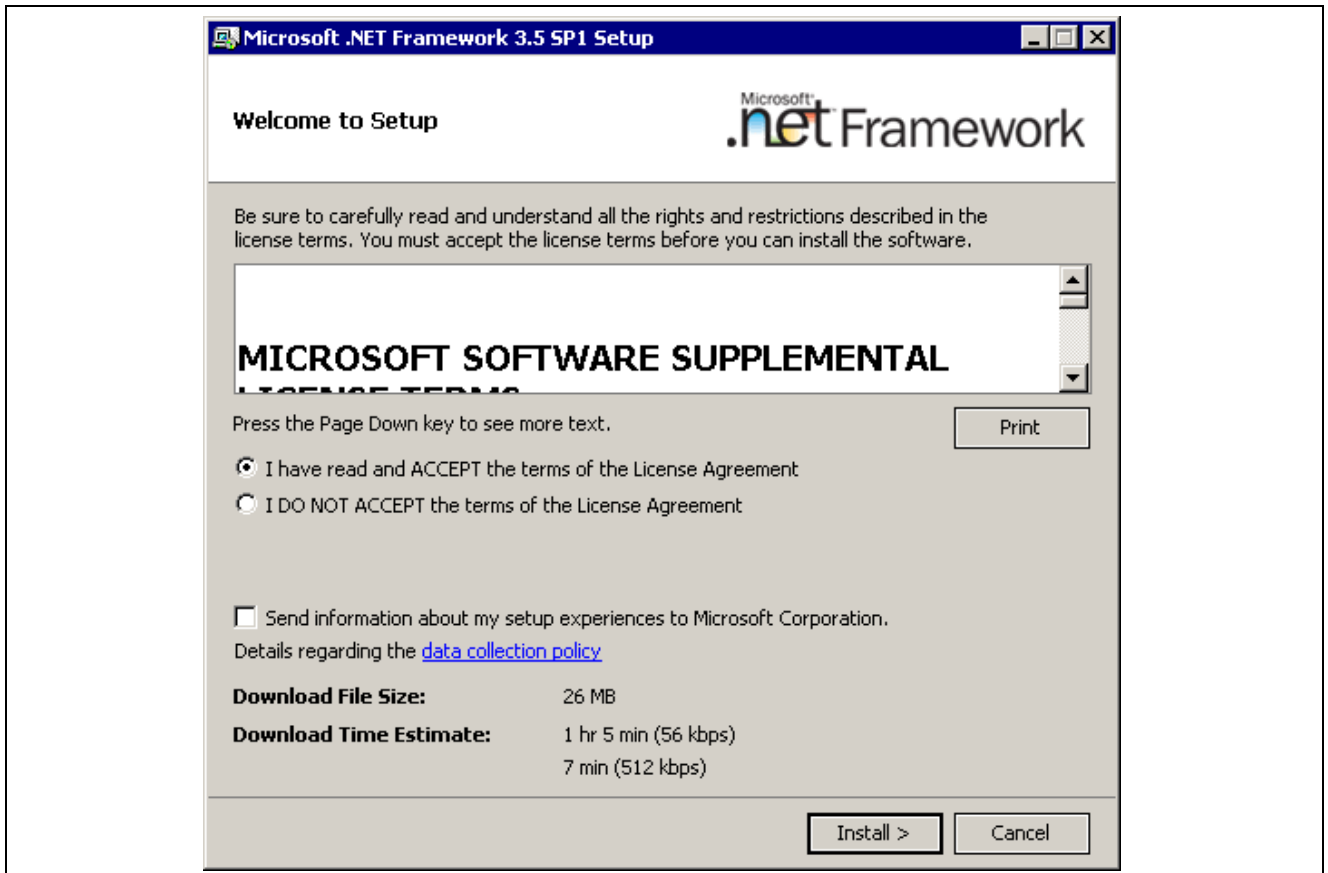
**Note.** If your operating system is Microsoft Windows 2008 R2, see the following section.

See Verifying the Microsoft .NET Framework Installation on Microsoft Windows 2008 R2.

---

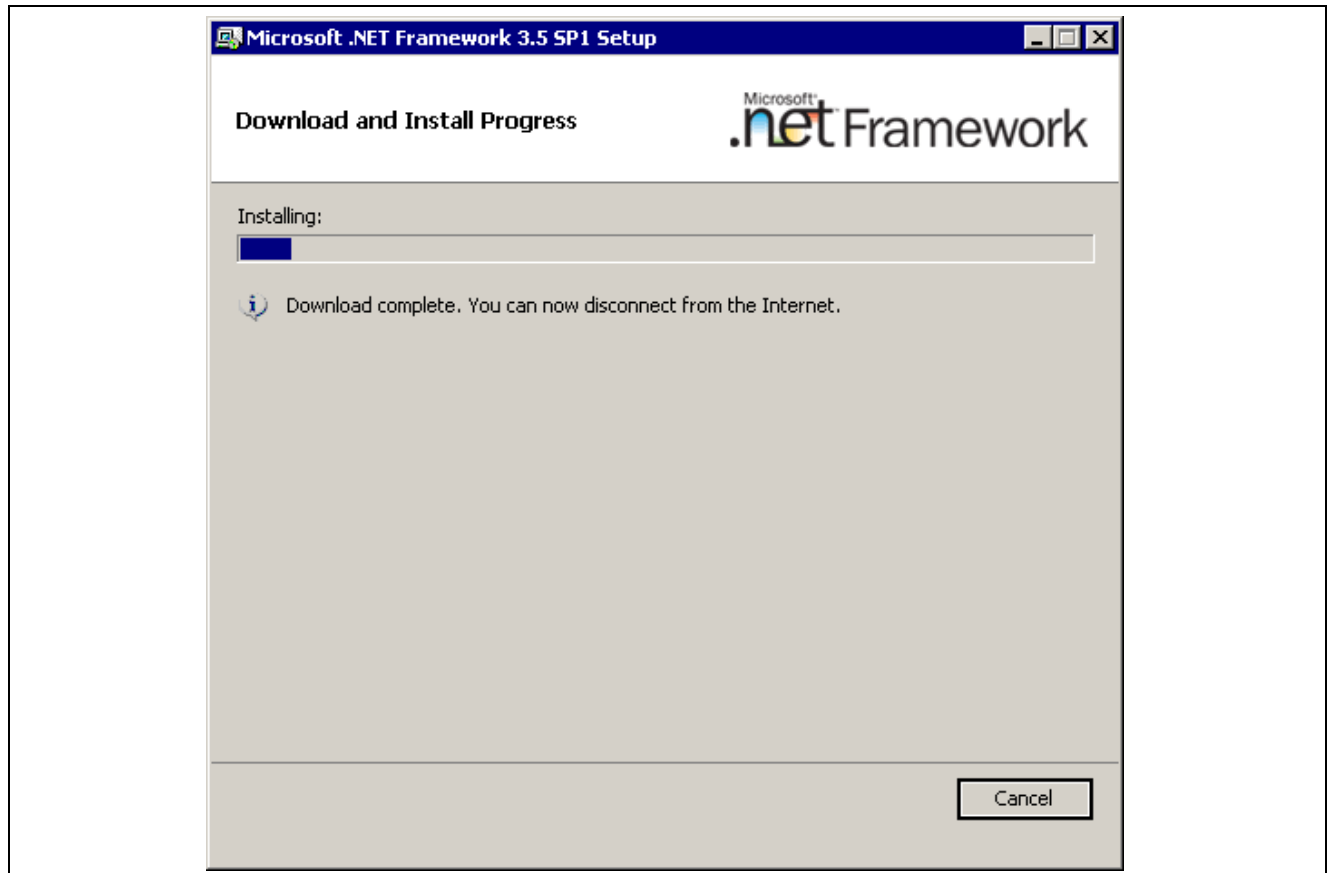
To install Microsoft .NET Framework 3.5 SP1:

1. If there are any versions of Microsoft .NET Framework installed on your computer:
  - a. Select Start, Programs, Control Panel, Add/Remove Programs
  - b. Locate the existing Microsoft .NET Framework installations and remove them.
2. Go to *PS\_HOME*\setup\dotnetredist.
3. Run the dotnetfx35.exe file.
4. Review the license agreement, select the option I have read and ACCEPT the terms of the License Agreement, and then click Install.



Microsoft .NET Framework 3.5 SP1 Setup Welcome to Setup window

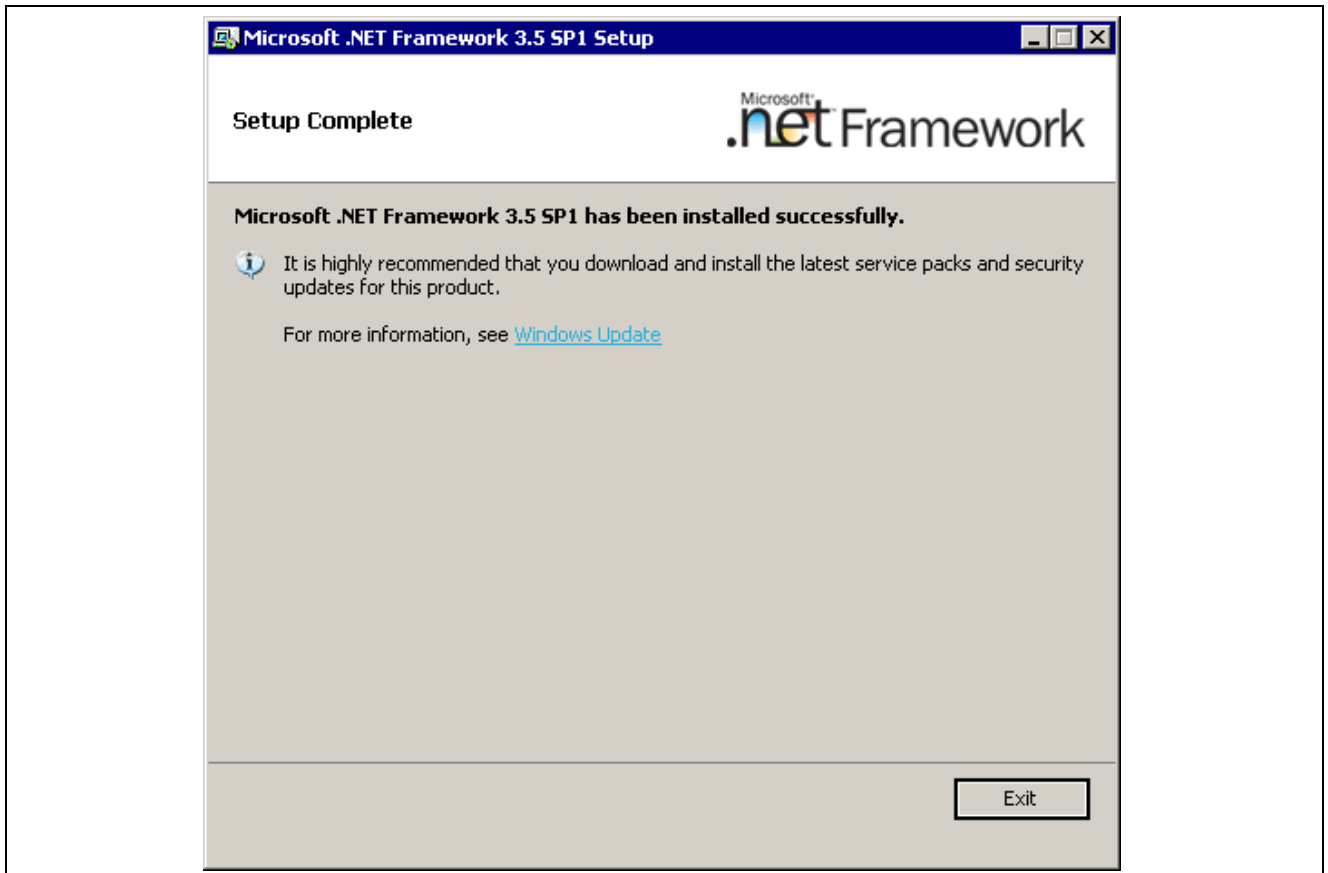
A progress window appears. Do *not* close the installer window when you see this message: “Download complete. You can now disconnect from the Internet,” as the installation continues after this point.



Microsoft .NET Framework 3.5 SP1 Setup Download and Install window

5. Click Exit when the installation is complete.

The Setup Complete window includes the message “Microsoft .NET Framework 3.5 SP1 has been installed successfully.”



Microsoft .NET Framework 3.5 SP1 Setup Complete window

## Verifying the Microsoft .NET Framework Installation on Microsoft Windows 2008 R2

If your operating system is Microsoft Windows 2008 R2, Microsoft .NET Framework 3.5 SP1 is included as a feature. To verify that Microsoft .NET Framework 3.5 SP1 is installed and enabled:

1. Open Server Manager.

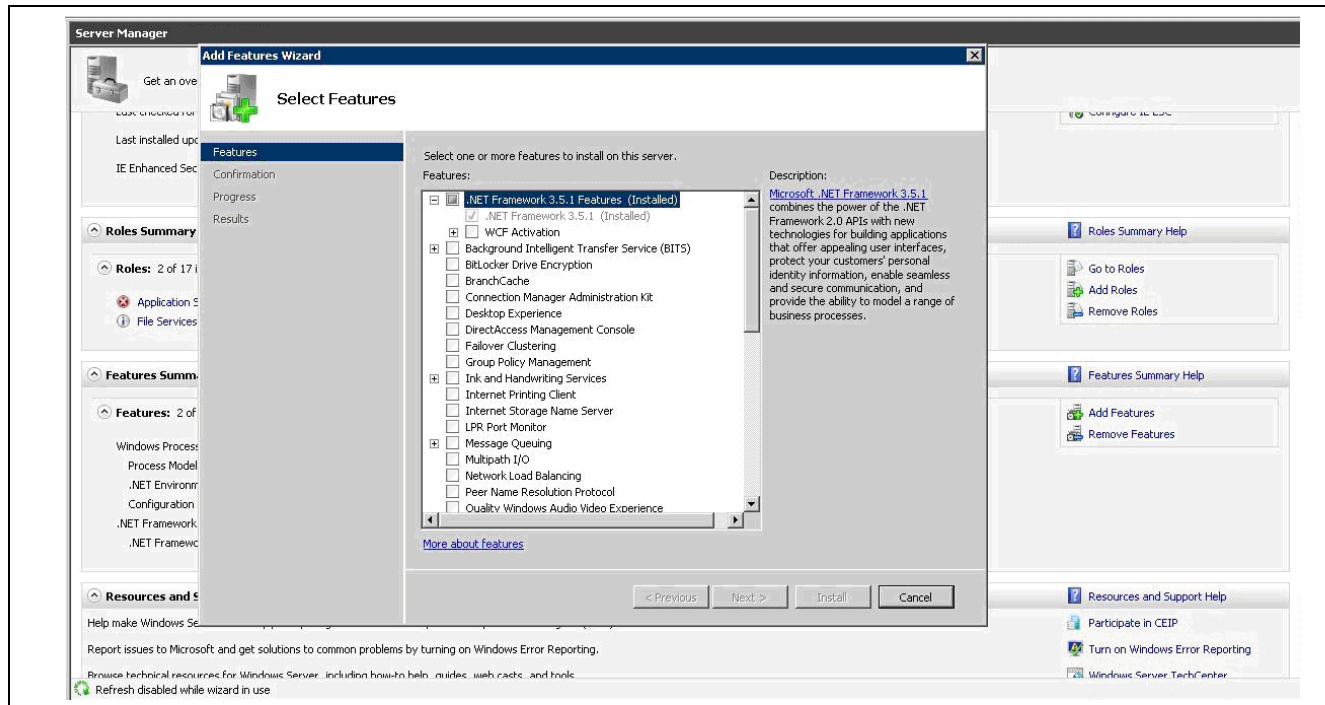
---

**Note.** Server Manager is found under Administrative Tools.

---

2. Verify if Microsoft .NET Framework 3.5 SP1 is listed as a feature in the Feature Summary section.  
If yes, then Microsoft .NET Framework 3.5 SP1 is already installed on this computer and it is enabled.
3. If Microsoft .NET Framework 3.5 SP1 is not listed in the feature summary, then click Add Features to open the Add Feature wizard.

In this example, Microsoft .NET Framework 3.5 SP1 is listed as .NET Framework 3.5.1 (Installed).



Add Features Wizard dialog box

4. If Microsoft .NET Framework 3.5 SP1 is listed in the list of features, it means it is installed on this computer, but not enabled.

To enable this feature, select the check box for Microsoft .NET Framework 3.5 SP1 and complete the Add Feature process. Consult the Microsoft Windows documentation for information on completing the process.

5. If Microsoft .NET Framework 3.5 SP1 is not listed in the list of features, then it is *not* installed on this box. Refer to the previous section to install Microsoft .NET Framework 3.5 SP1.

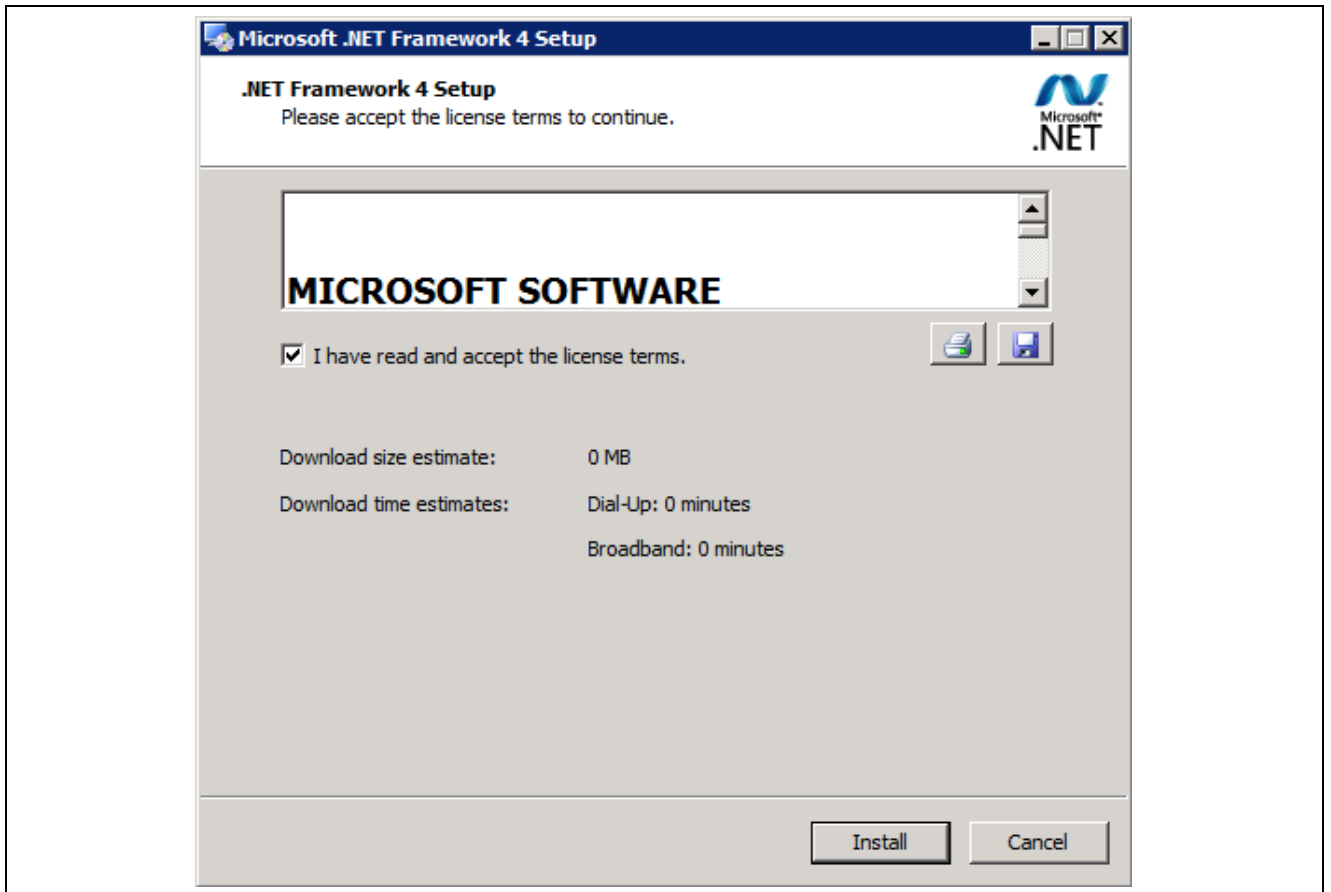
See Installing Microsoft .NET Framework 3.5 SP1.

## Installing Microsoft .NET Framework 4.0

To install Microsoft .NET Framework 4.0:

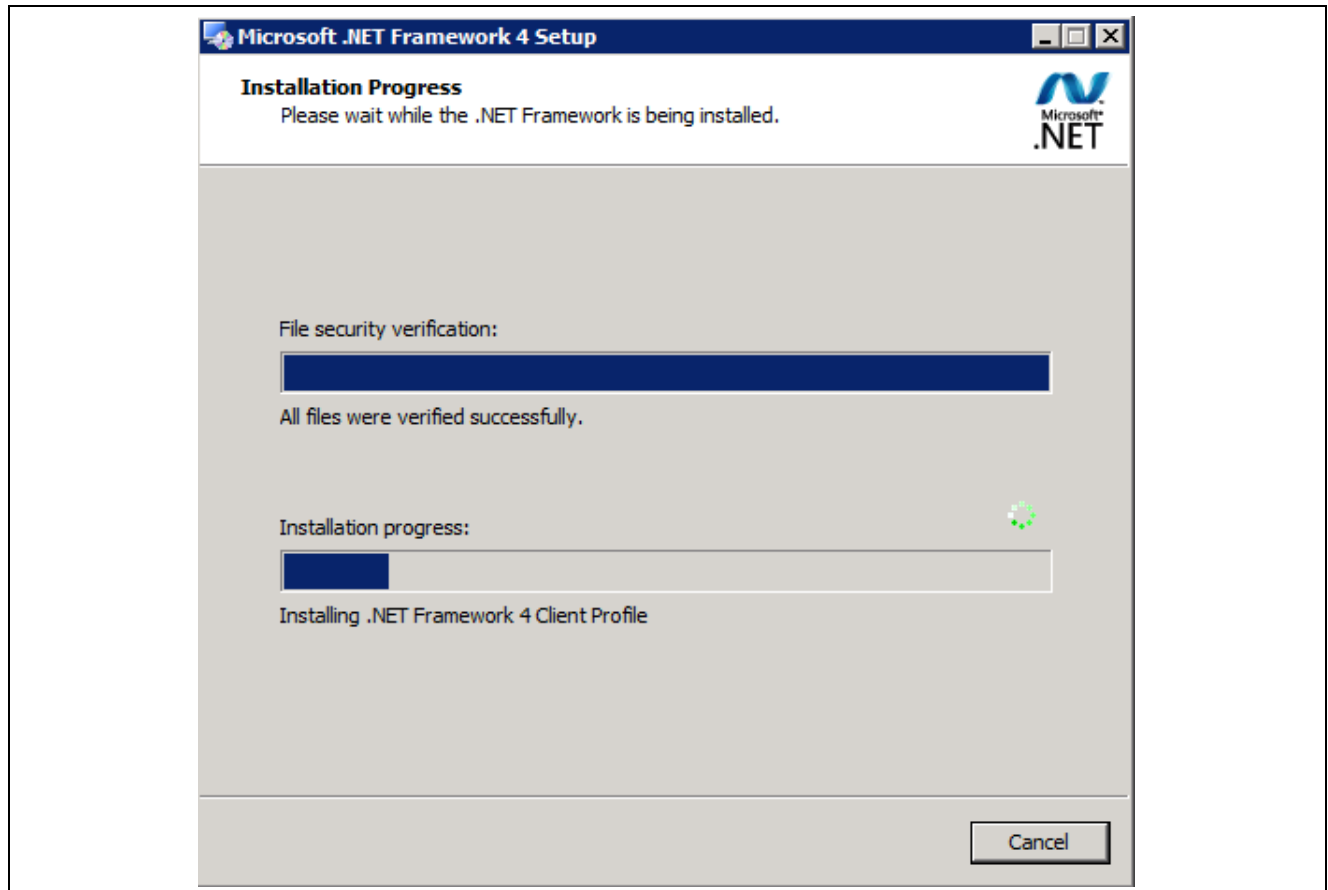
1. If there is an existing installation of Microsoft .NET Framework 4.0 installed on your computer:
  - a. Select Start, Programs, Control Panel, Add/Remove Programs
  - b. Locate the existing Microsoft .NET Framework installation and remove it.
2. Go to `PS_HOME\setup\dotnetredist`.
3. Run the `dotNetFx40_Full_x86_x64.exe` file.
4. Review the license agreement, select the option I have read and accept the license terms, and then click Install.





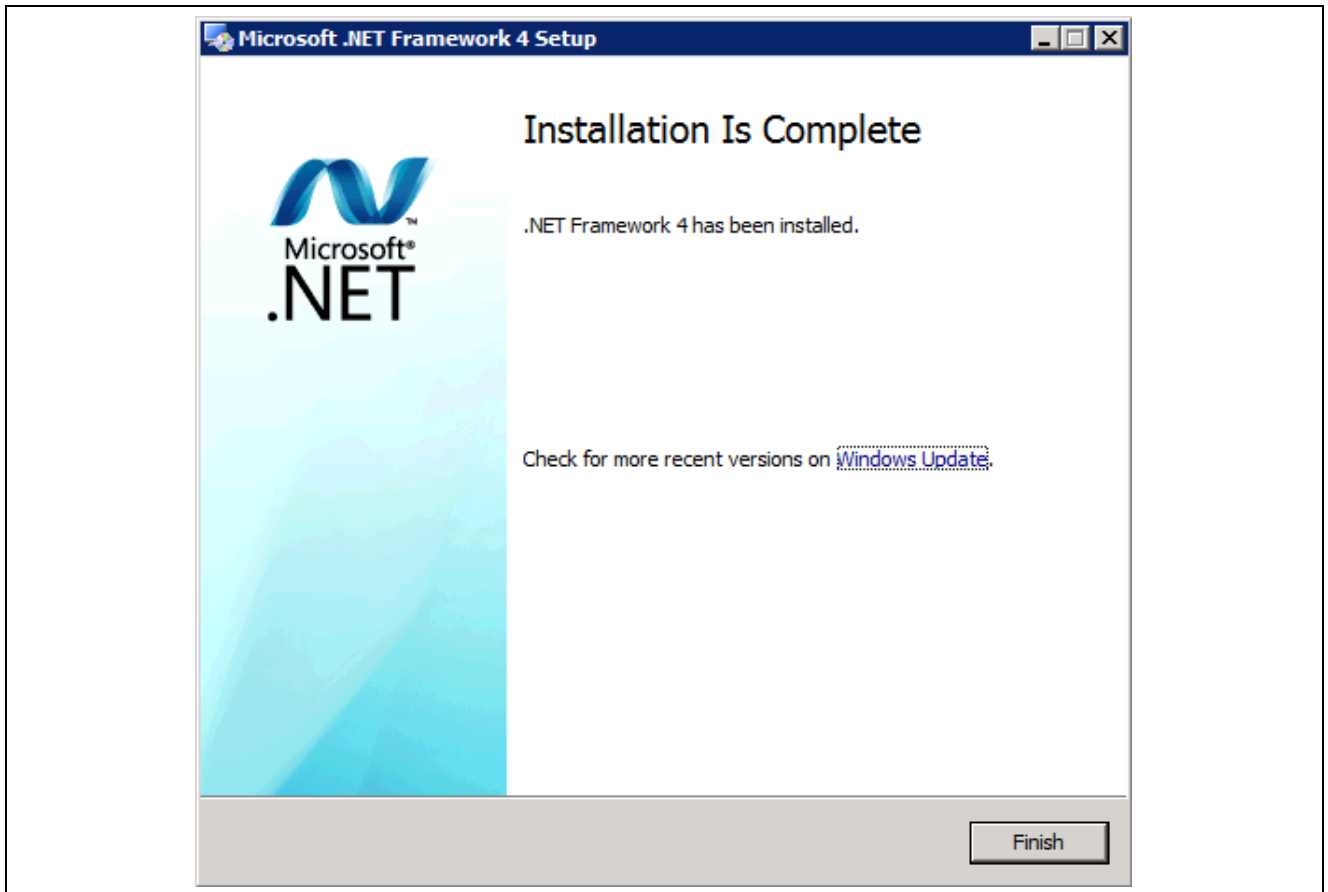
Microsoft .NET Framework 4 Setup window with license agreement

A progress indicator appears



Microsoft .NET Framework 4 Setup progress indicator

5. Click Finish when the installation is complete.



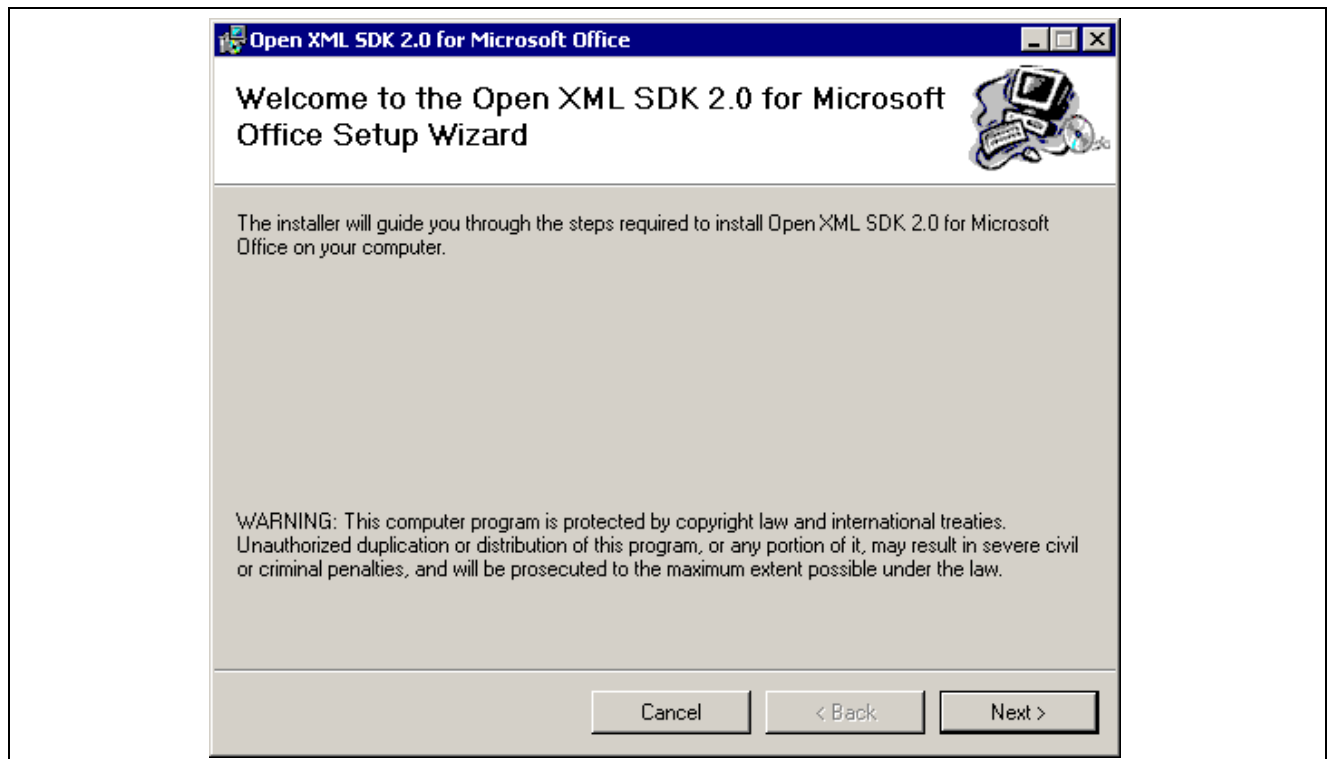
Microsoft .NET Framework 4 Installation Complete window

### Task 10-9-3: Installing Microsoft Open XML SDK for PS/nVision

As described in the previous section, you must have installed Microsoft .NET Framework versions 3.5 and 4.0 before beginning this installation.

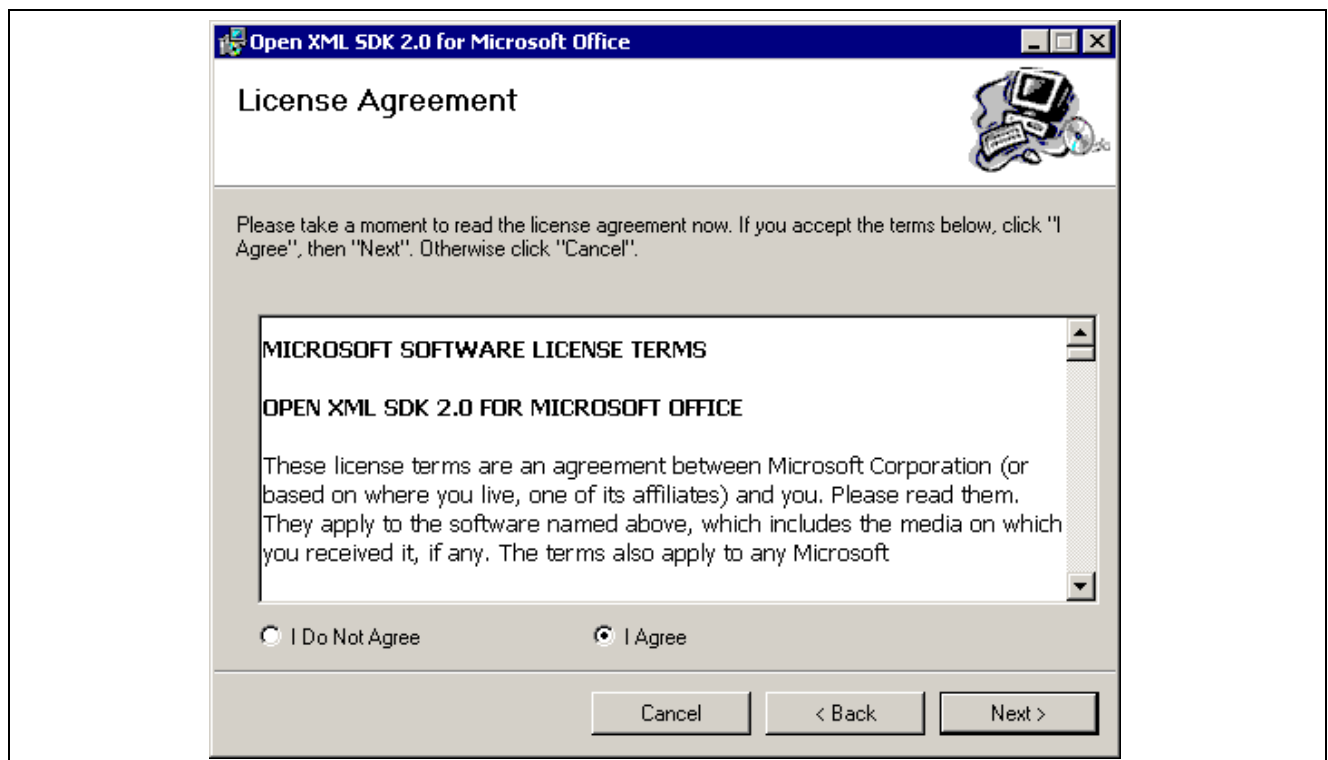
To install Microsoft Open XML SDK V2.0:

1. Go to *PS\_HOME*\setup\OpenXmlSDK.
2. Run the OpenXMLSDKv2.msi file.
3. Click Next on the welcome window.



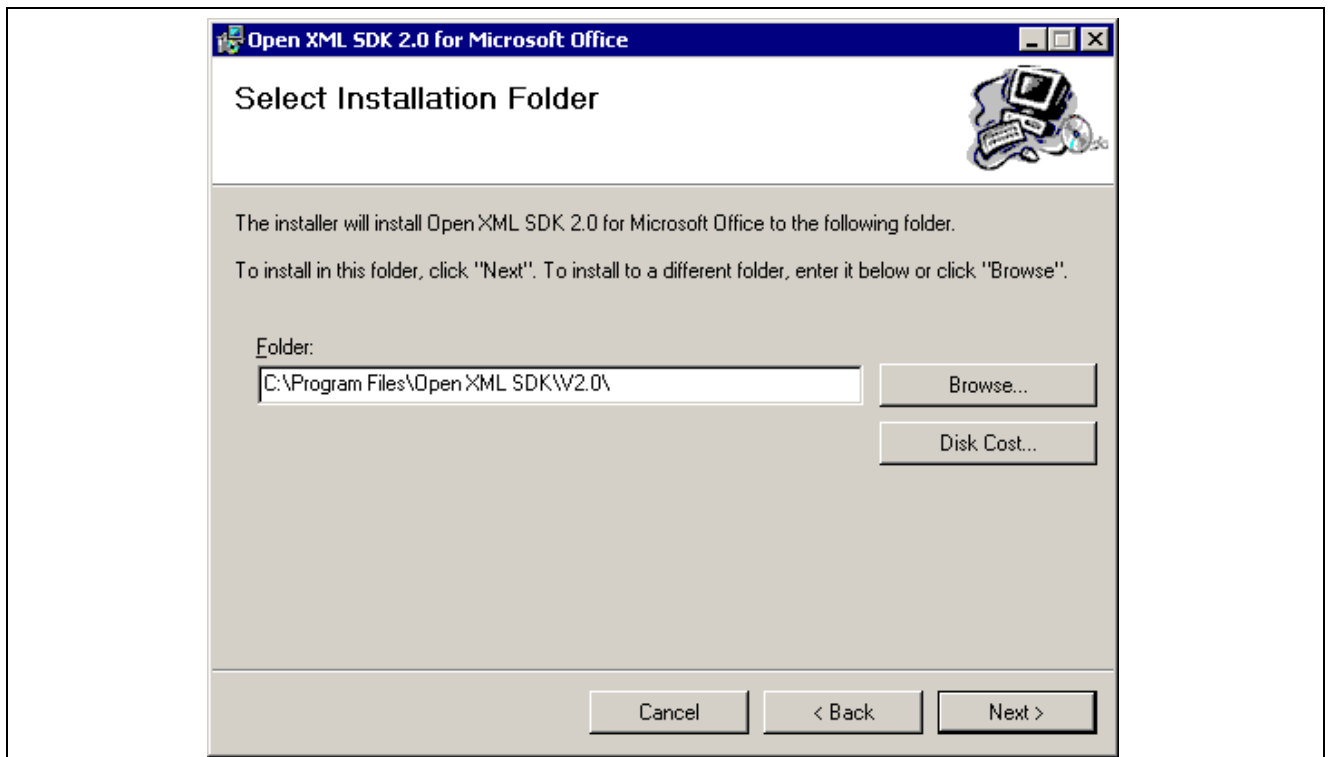
Microsoft Open XML SDK 2.0 welcome window

4. Review the license agreement, select the option I agree, and then click Next.



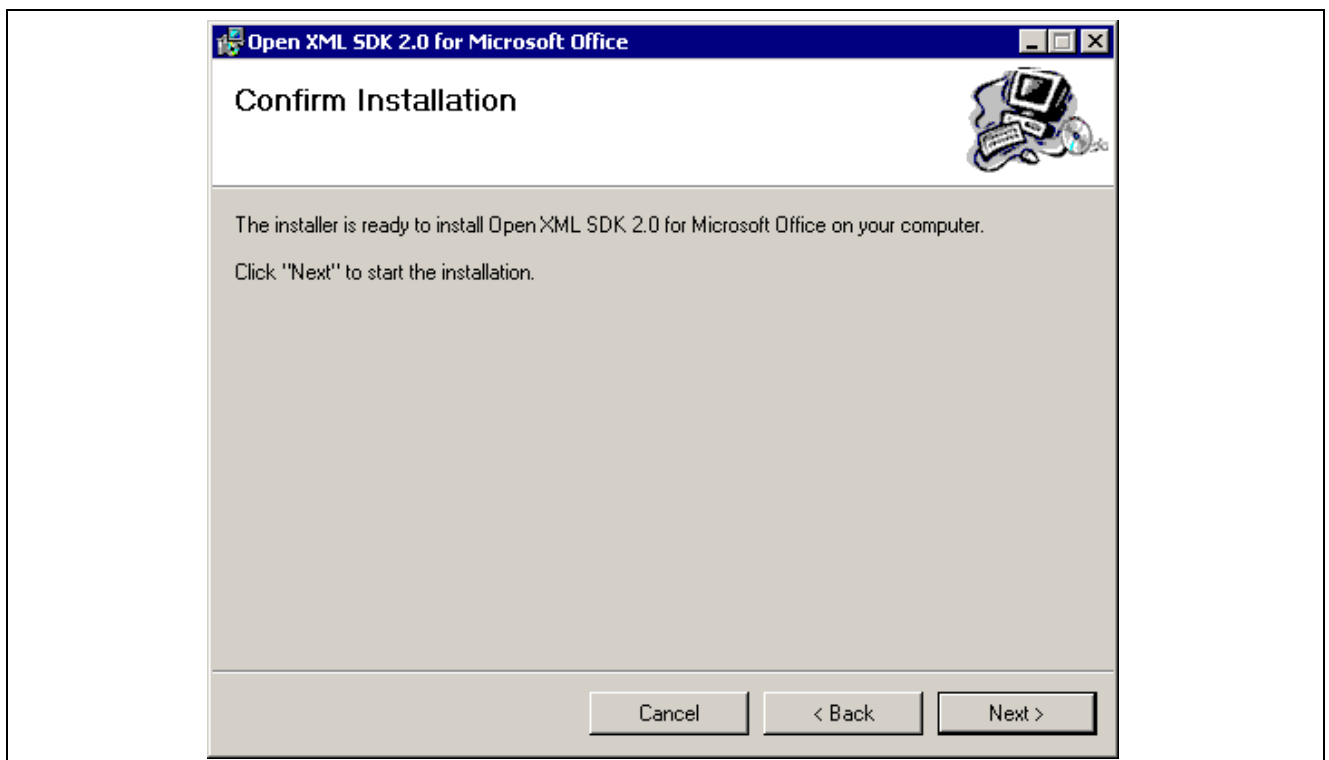
Microsoft Open XML SDK 2.0 License Agreement window

5. Accept the default location for the installation, C:\Program Files\Open XML SDK\V2.0, and then click Next.



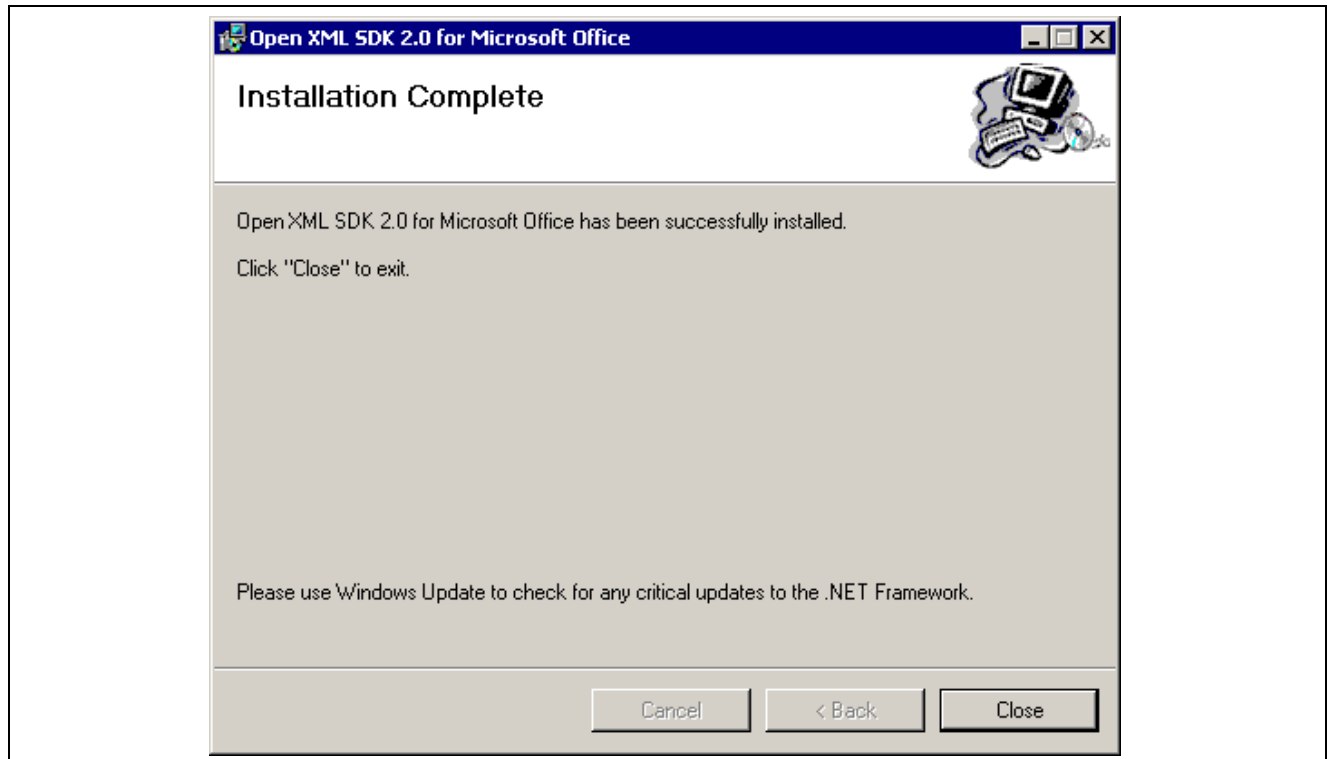
Microsoft Open XML SDK 2.0 Select Installation Folder window

6. Click Next on the Confirm Installation window to begin the installation.



Microsoft Open XML SDK 2.0 Confirm Installation window

7. Click Close when the installation is complete.



Microsoft Open XML SDK 2.0 Installation Complete window

# Part II

---

## Discretionary Installation

The second part of the installation guide includes optional tasks, tasks that are only required by certain environments, and those that you may decide to defer until after the initial installation.





## CHAPTER 11

# Configuring Integration Between PeopleSoft PeopleTools and Oracle SES

This chapter discusses:

- Understanding PeopleSoft PeopleTools and SES Integration
- Setting Up the Search Framework Prerequisites
- Configuring SES for the Search Framework
- Setting Up the PeopleSoft Application Server for the Search Framework
- Setting Up Search Framework User IDs
- Setting Up Integration Broker for the Search Framework
- Defining a Search Instance in the PeopleSoft System
- Verifying PeopleSoft PeopleTools and SES Connectivity

---

## Understanding PeopleSoft PeopleTools and SES Integration

The PeopleSoft Search Framework provides a standard, declarative method for creating, deploying, and maintaining search indexes for all of your PeopleSoft applications. Oracle Secure Enterprise Search (SES) is the search engine on which the PeopleSoft Search Framework relies.

Before you can set up integration between PeopleSoft PeopleTools and Oracle Secure Enterprise Search, you must first have SES installed and running successfully. Then you need to ensure that various elements on the PeopleSoft Application Server and PeopleSoft Integration Broker are set appropriately. Integration Broker is the vital link between PeopleSoft PeopleTools and SES. As such, it is essential to make sure that the gateway, domains, nodes, services, and WSDL elements are activated and configured properly.

### See Also

*PeopleTools: PeopleSoft Search Technology*

---

## Task 11-1: Setting Up the Search Framework Prerequisites

Prior to implementing the PeopleSoft Search Framework, the following items need to be installed, configured, and functional.

- Oracle Secure Enterprise Search (SES)

- PeopleSoft PeopleTools

You need to have installed PeopleSoft PeopleTools and have at least the following items configured, as described in the previous chapters of this installation documentation:

- PeopleSoft database
- Application server
- Process Scheduler server
- Integration Broker

See *PeopleTools: Integration Broker Administration*.

- PeopleSoft Application

Because the searching feature is intended primarily for your end users, having your PeopleSoft Application database installed and available is recommended. This will allow you to define realistic search objects for your testing and production environments.

See your PeopleSoft Application installation documentation.

When all of these items are in place, make sure to record the following information as it will be required when configuring integration between SES and PeopleSoft:

- SES server host name, and the port on which SES is listening.  
For example: sesserver.mycompany.com:7779
- SES administrator user ID and password, as in the credentials you use to sign on to the SES administration console.
- PeopleSoft Pure Internet Architecture signon URL.  
For example: http://orapia08.mycompany.com:80/ps/signon.html

### See Also

*Oracle® Secure Enterprise Search Installation and Upgrade Guide 11g Release 1 (11.1.2.0.0) for <your operating system>*

---

## Task 11-2: Configuring SES for the Search Framework

This section discusses:

- Understanding SES Configuration
- Creating a Federated Trusted Entity
- Activating the Identity Plug-in
- Configuring SES Authentication Timeout Settings
- Enabling Character Set Detection

## Understanding SES Configuration

After you have SES installed and running, you need to carry out the post-installation procedures in this section to prepare the SES instance for integration with a PeopleSoft application system.

To complete these steps you will need access to the SES administration console, using the following URL syntax:

`http://<host>:<port>/search/admin/index.jsp`

### Task 11-2-1: Creating a Federated Trusted Entity

To create a federated trusted entity:

1. Sign on to the SES administration console.
2. Select the Global Settings tab.
3. In the Search list, select the Federation Trusted Entities link.
4. In the Entity Name edit box, enter the entity you want to create.
5. For Entity Password enter a password to associate with the trusted entity.

---

**Note.** Make note of the entity name and password, as you will be required to submit these credentials when defining the SES instance in the PeopleSoft Search Framework administration interface.

---

---

**Note.** The Identity Plug-in check box does not need to be selected, nor does the Authentication Attribute edit box have to be populated.

---

6. (Recommended) In the Description edit box, add text to distinguish this entity.
7. Click Add.

### Task 11-2-2: Activating the Identity Plug-in

To activate the identity plug-in:

1. Sign on to the SES administration console.
2. Select the Global Settings tab.
3. Under System, select the Identity Management Setup link.
4. Select PeopleSoft source type from Available Identity Plug-ins list and click the Activate button.
5. On the Identity Management Setup page, select the radio button for Peoplesoft Search framework Identity plug-in in the Available Identity Plug-ins grid, and click Activate.

- HTTP endpoint for authentication: Enter the URL to your PeopleSoft listening connector using the following syntax: `http://<host>:<port>/PSIGW/PeopleSoftServiceListeningConnector`.

---

**Note.** If you need to specify an end point on a node other than the default node, then specify that node name in the URL. For example, for node name PS\_HR:  
`http://sesserver12:7779/PSIGW/PeopleSoftServiceListeningConnector/PS_HR`

---

- User ID: Enter the user ID that is the Search Framework administrator on the PeopleSoft side. That is, specify the user with Search Framework permission lists associated with it.

- Password: Enter the password associated with your Search Framework administrator user ID.
- ToolsRelease: Enter the PeopleSoft PeopleTools version number, for example 8.53.

### See Also

*PeopleTools: Security Administration*

Setting Up Search Framework User IDs

## Task 11-2-3: Configuring SES Authentication Timeout Settings

The default SES timeout settings may not be suitable for contacting the PeopleSoft system and retrieving authentication and authorization data. To ensure that the two systems interact successfully, it is recommended that you modify these settings to avoid authentication or authorization timeout scenarios. In general, the timeout setting should be high enough to allow for the SES instance to contact the PeopleSoft web service operation endpoint to retrieve the authentication data.

To configure SES authentication timeout settings:

1. Sign on to the SES administration console.
2. Select the Global Settings tab, and click the Query Configuration link under Search.
3. In the General area, set Maximum Number of Results to 999999.
4. Scroll down to the Query-time Authorization Configuration section and set the Timeout Threshold setting to at least 120000 milliseconds.
5. In the Secure Search Configuration section under the Security Filter Configuration subsection, set these similar to the following:
  - Security Filter Lifespan: 60
  - Authentication Timeout: 1200000
  - Authorization Timeout: 180000
6. Click Apply.

## Task 11-2-4: Enabling Character Set Detection

The character set detection feature enables the crawler to automatically detect character set information for HTML, plain text, and XML files. Character set detection allows the crawler to properly cache files during crawls, index text, and display files for queries. This is important when crawling multibyte files (such as files in Japanese or Chinese).

This feature is currently not accessible from the SES Administration console, and by default, it is turned off. Enable automatic character set detection by adding a line in the crawler configuration file:

`ORACLE_HOME/search/data/config/crawler.dat`

For example, add the following as a new line:

```
AUTO_CHARSET_DETECTION
```

You can check whether this is turned on or off in the crawler log under the Crawling Settings section.

---

## Task 11-3: Setting Up the PeopleSoft Application Server for the Search Framework

Your application server domain may be set up as per your site's typical specifications, however, make sure your domain meets these Search Framework requirements:

- At least two PSAPPSRV server processes are set to start in the domain.
- The Pub\Sub Servers (Publish\Subscribe) feature is enabled for the domain.

See *PeopleTools: System and Server Administration*.

---

## Task 11-4: Setting Up Search Framework User IDs

Depending on the user, you will need to set up different permissions for Search Framework tasks. PeopleSoft PeopleTools provides the permission lists described in the following table. To enable Search Framework tasks for a user, your PeopleSoft Security Administrator should verify that these roles exist. If not, the Security Administrator should add the roles as follows:

1. Select PeopleTools, Security, User Profiles, User Profiles.
2. On the User Profiles page, select the Roles tab.
3. Add the roles, as listed in the following table.

| Permission List | Role                 | Description                                                                                                                    |
|-----------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| PTPT3100        | Search Administrator | Provides access to the Search Framework development pages used for managing searchable objects within the PeopleSoft database. |

| Permission List | Role             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PTPT3200        | Search Developer | Provides access to the Search Framework administrative pages used for managing searchable objects on the search engine.<br><br><b>Note.</b> In addition, set up security such that the Search Administrator has access to the records on which the queries are built. For more information, see your PeopleSoft Application installation documentation.                                                                                                   |
| PTPT3300        | Search Server    | Used by the search engine for accessing the Search Framework web services on the PeopleSoft system.<br><br>This permission list would be passed as the “call-back ID” specified on the Search Instance administration page.<br><br><b>Note.</b> In addition, set up security such that the Search Server user has access to the records on which the queries are built. For more information, see your PeopleSoft Application installation documentation. |

**See Also**

*PeopleTools: Security Administration*

---

## Task 11-5: Setting Up Integration Broker for the Search Framework

This section discusses:

- Understanding the PeopleSoft Integration Broker Configuration for SES
- Specifying the Integration Gateway
- Setting Up the Node
- Verifying the Service Configuration

### Task 11-5-1: Understanding the PeopleSoft Integration Broker Configuration for SES

In order for the Search Framework to interact with the SES server, various elements of the PeopleSoft Integration Broker architecture need to be configured for your search environment. This section assumes you have a working knowledge of the PeopleSoft Integration Broker architecture and the associated administrative tasks.

See *PeopleTools: PeopleSoft Integration Broker*.

See *PeopleTools: PeopleSoft Integration Broker Administration*.

## Task 11-5-2: Specifying the Integration Gateway

To set up the PeopleSoft Integration Broker for the Search Framework:

1. Select PeopleTools, Integration Broker, Service Operations Monitor, Administration, Domain Status and make sure your domain is active in the Domains grid.
2. Select PeopleTools, Integration Broker, Configuration, Gateways, and specify the Integration Gateway URL using the following syntax:

`http://<machine_name>:<port>/PSIGW/PeopleSoftListeningConnector`

3. Click Ping Gateway to make sure the gateway is active and available.

See *PeopleTools: Integration Broker Administration*, "Administering Integration Gateways."

4. Click Save.
5. If prompted to load connectors, click Yes.

## Task 11-5-3: Setting Up the Node

To set up the node:

1. Select PeopleTools, Integration Broker, Integration Setup, Nodes.  
Open the local node, and click the Connectors tab.
2. On the Connectors tab make sure Gateway ID = Local and Connector ID = PSFTTARGET.
3. Click the Gateways Setup Properties link.
4. On the PeopleSoft Node Configuration page, set the Gateway Default App. Server values and the PeopleSoft Nodes values for your local node.
5. Click the Advanced Properties Page, and in the Gateway Properties box, make sure that the secureFileKeystorePasswd value is encrypted. For example:

`secureFileKeystorePasswd={V1.1}7m4OtVwXFNyLc1j6pZG69Q==`

6. Click OK.
7. On the PeopleSoft Node Configuration dialog box, click Ping Node to confirm the node is accessible and active.
8. Click Save and OK.
9. Select the Portal tab, and make sure the following items are specified:
  - Default Portal
  - Tools Release
  - Application Release
  - Content URI Text
  - Portal URI Text
10. Click Save.

## See Also

*PeopleTools: PeopleSoft Integration Broker Administration*, "Configuring Nodes"

## Task 11-5-4: Verifying the Service Configuration

Verify these key elements of the service configuration:

- The Service Operation should be set to the correct target location (end point URL).
- The Oracle SES search engine exposes administration and search APIs as web service operations. To make use of those web services you need to verify the appropriate counterpart PeopleSoft services exist on your system.

To verify the service configuration:

1. Select PeopleTools, Integration Broker, Configuration, Service Configuration.
2. On the Service Configuration tab, update the Target Location by clicking Setup Target Locations.
3. In the Web Services Target Location, update the Target Location setting to reflect your environment.
4. Click Save.
5. Select PeopleTools, Integration Broker, Integration Setup, Service Operations.
6. On the Service Operations - Search page, verify that the these Services exist:
  - ADMINSERVICE
  - ORACLESEARCHSERVICE

---

## Task 11-6: Defining a Search Instance in the PeopleSoft System

To define a search instance:

1. Select PeopleTools, Search Framework, Administration, Search Instance.  
Click Add new value to define a search instance.
2. On the Search Instance Properties page, provide search engine details.  
The search engine values enable connectivity between the PeopleSoft system and SES.

**Search Instance Properties**

**Search Engine Details** ?

\*SSL Option

\*Host Name

\*Port

Search Engine Details area of Search Instance Properties page



- SSL Option

Select one of these options for SES:

*DISABLE.* Select if you do not have SSL configured between SES and your PeopleSoft system, as shown in the example.

*ENABLE.* Select if you do have SSL configured between SES and your PeopleSoft system.

- Host Name

Enter the server name of the host where SES is running, including the domain. For example, server1.mycompany.com. To specify the host, you may use the host name or an IP address.

- Port

Enter the port on which SES listens for request, for example, 7777.

- Ping

After you enter information in the required fields on the Search Instance Properties page, and save the page, the Ping button, as shown in the example, appears. Click the Ping button to verify access to the SES system. If the test is successful, you see a message displaying the current version of the SES administrative service.

3. Specify the following SES administrative credentials so that your PeopleSoft system has the appropriate access to connect to the SES server and perform various administrative tasks, such as deploying search objects, building indexes, scheduling crawling, and so on.

Admin Service Credentials area of Search Instance Properties page

- User Name

Enter the user name for logging into the Secure Enterprise Search Administration GUI. The administrative user name is eqsys, as shown in the example.

- Password/Confirm Password

Enter and confirm the password associated with the administrative user name.

- Test Login

After you enter information in the required fields on the Search Instance Properties page, and save the page, the Test Login button, as shown in the example, appears. Click this button to confirm that the PeopleSoft system can access the SES server. You should see a login success message.

4. Enter the following values in the Query Service Credentials area:

Query Service Credentials area of Search Instance Properties page

- Proxy Name

Enter a trusted entity, people in this example, from the list on the Federation Trusted Entities page in the SES Administration interface. (Global Settings, Federation Trusted Entities)

- Password/Confirm Password

Enter and confirm the password associated with the trusted entity.

- Proxy Login

Click this button to verify whether:

The Identity plug-in has been configured on Oracle SES

The Proxy Name user (also know as Federation Trusted Entities) has been configured on Oracle SES

5. Enter the following values in the Call Back Properties area.

At times, SES will need to call back to the PeopleSoft system to access services, such as authentication services, so you need to provide the URL and password for access.

Call Back Properties area of Search Instance Properties page

- URL

Enter the URL for the PeopleSoft system listening connector, using the following syntax:  
http://<server>:<port>/PSIGW/PeopleSoftServiceListeningConnector/<node>

- User Name

Enter the PeopleSoft user name, QEDMO in this example.

- Password/Confirm Password

Enter and confirm the password associated with the PeopleSoft user name.

- Validate

Click this button to verify the Call Back Properties entries, as follows:

The call-back URL matches the Integration Broker target URL

The call-back user exists.

The call-back user has the role of Search Server assigned.

- Update deployed definitions

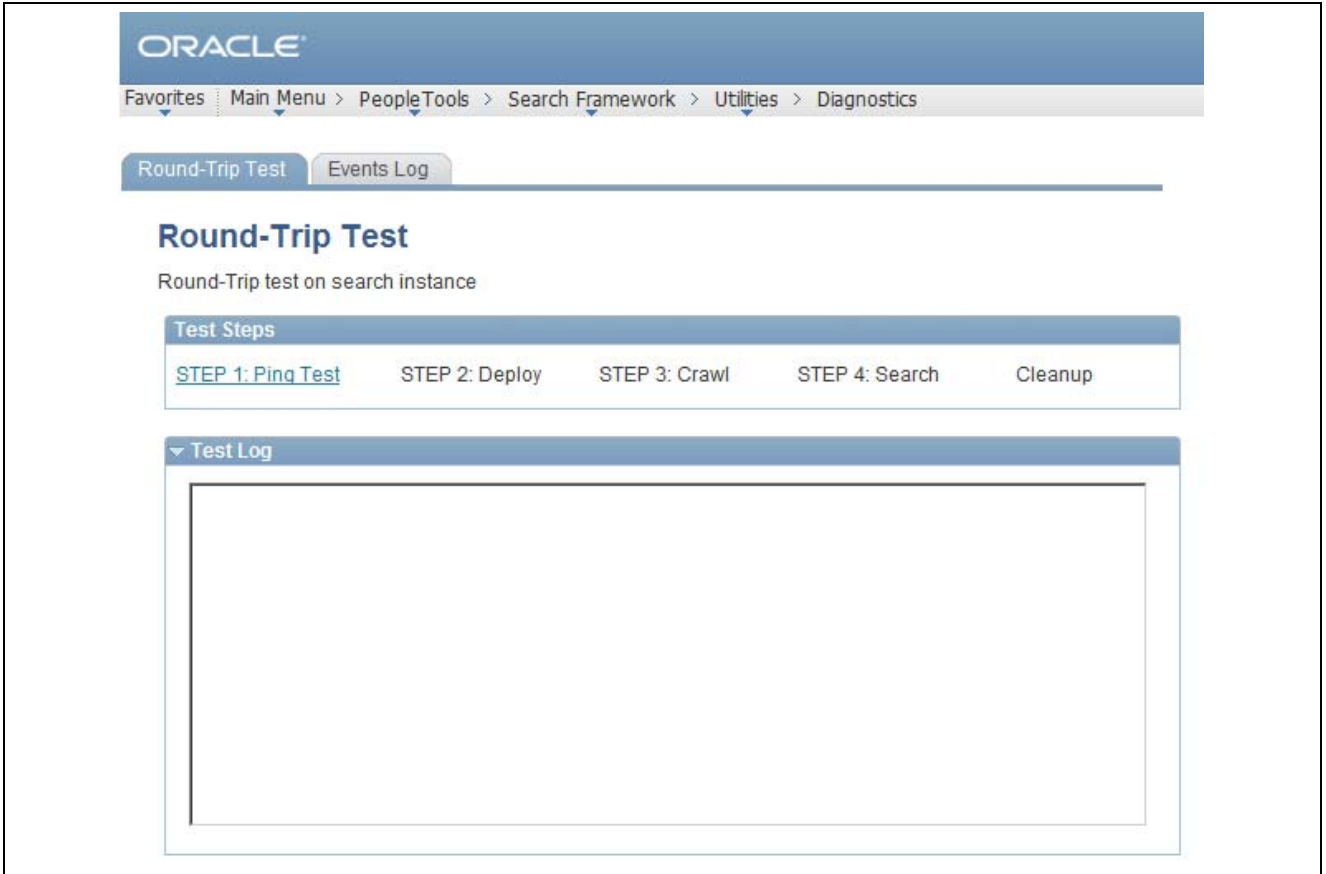
Select this link to use the information entered on this page to update the deployed definitions.

## Task 11-7: Verifying PeopleSoft PeopleTools and SES Connectivity

To verify that the required elements are set up correctly on the PeopleTools side and that the PeopleTools system can connect to the SES instance, run a ping test against the SES server.

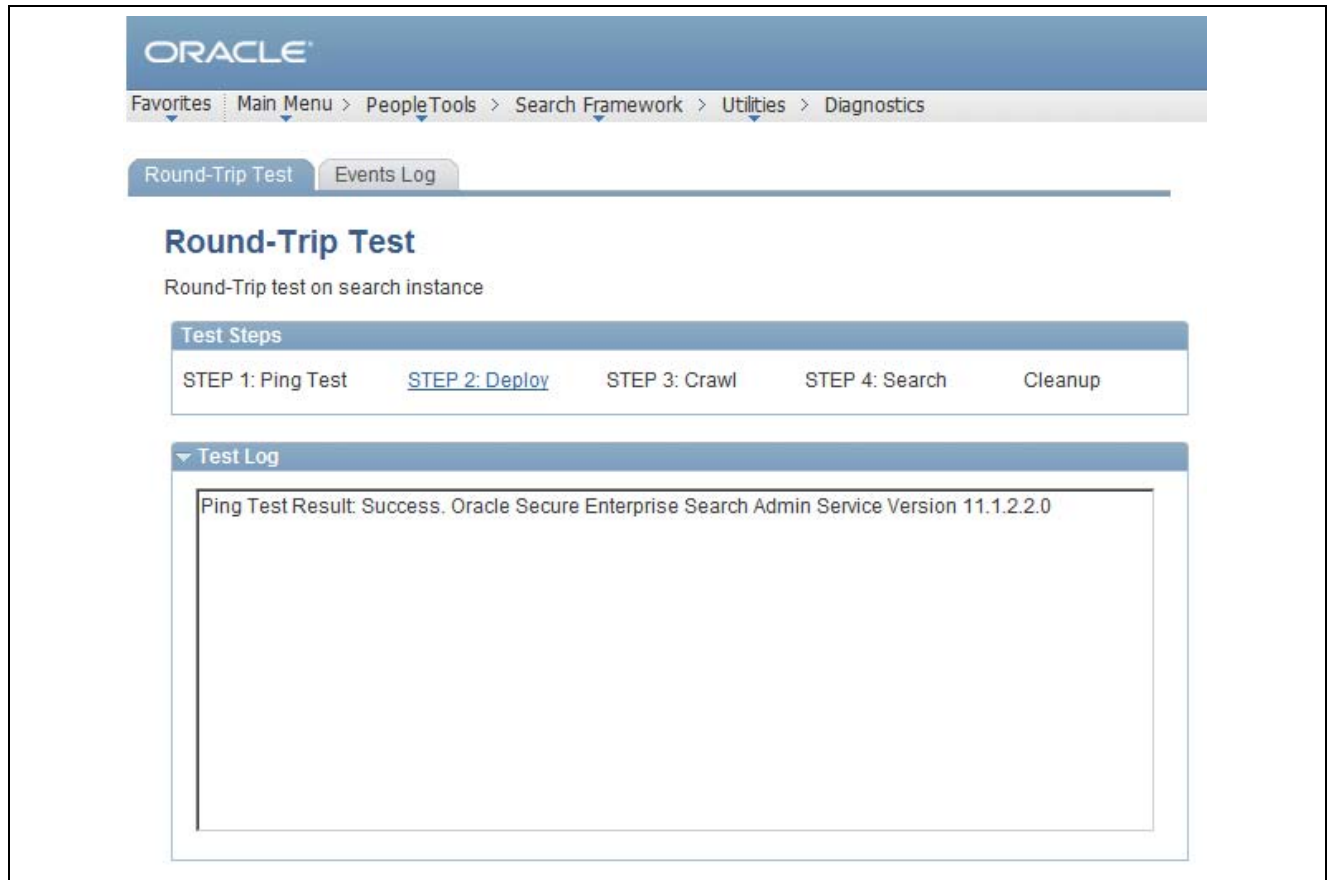
To run a ping test:

1. Select PeopleTools, Search Framework, Utilities, Diagnostics.



Round-Trip Test page

2. On the Round-Trip Test page, select STEP 1: Ping Test.
3. Ensure that the message received displays the current version of the SES admin service.  
In this example, the version is Oracle Secure Enterprise Search Admin Service Version 11.1.2.2.0.



Round-Trip Test page showing successful ping test result

## CHAPTER 12

# Creating a Database Manually

This chapter discusses:

- Understanding Database Creation
- Creating a Database
- Configuring an ODBC Data Source
- Running ADDOBJ.SQL
- Setting Up the CONNECTID
- Creating the ACCESSID
- Creating Data Mover Import Scripts
- Running Data Mover Import Scripts
- Checking the Log Files and Troubleshooting
- Changing the Base Language

---

## Understanding Database Creation

This section describes the tasks required to create a PeopleSoft product database. During a standard PeopleSoft installation you will execute these tasks to create two distinct types of databases.

- *System:* The System (SYS) database has no company specific data, and can be used to load your data and begin development of your production database.
- *Demo:* The Demo (DMO) database contains data for a sample company, and can be used immediately for demonstration, for testing, and as a development reference.

The requirements for these databases vary, so not all of this section's tasks apply to each database. The instructions will note any distinctions between creating a Demo and a System database.

Remember, you need to have the PeopleTools Development Environment set up to create your database.

---

**Important!** Do not forget that application-specific installation steps are provided in a separate document specific to the application. For instance, if you are performing PeopleSoft CRM installation, you need both this PeopleSoft PeopleTools installation guide and any additional instructions provided by CRM. Search in My Oracle Support for the installation documentation specific to your application.

---

---

**Important!** For Microsoft SQL Server 2008 and above use the installation scripts with the following naming convention: <script name>\_2005.sql. Use these scripts when installing with Microsoft SQL Server 2008 or newer versions of Microsoft SQL Server.

---

After you complete the tasks in this chapter, read the chapter “Completing the Database Setup.” Depending upon your environment, you may not need to carry out every task in that chapter. However it is important that you evaluate the requirements and perform the necessary tasks.

## See Also

"Preparing for Installation" Planning Database Creation

---

## Task 12-1: Creating a Database

You can use Microsoft's SQL Enterprise Manager or the delivered SQL script, *PS\_HOME*\scripts\createdb\_2005.sql, to create your database. If you decide to use Enterprise Manager to create your database you still need to review the script provided by Oracle to create the database to make sure all the necessary options are selected. Regardless of the method you use, keep the following in mind:

- The name of the database must be in UPPERCASE, must not exceed eight characters, and must not start with a number.
- For performance reasons, we recommend placing the database data files and log files on separate physical drives (spindles) and using separate disk controllers.
- If you are creating the database remotely, confirm that you have installed client connectivity on the workstation.
- You will need a user with DB creation permissions to create your PeopleSoft database. This is a major difference from previous PeopleSoft PeopleTools releases, because this user will not be your ACCESSID anymore.
- You will need to create an ACCESSID user. Oracle provides the necessary scripts for this purpose as explained later in this chapter.
- Your ACCESSID and its password must be eight characters or less.

Please carefully review the createdb\_2005.sql script before running it. The script includes instructions, as well as several default statements that you can customize for your environment.

### *Collation and sort order*

This script will create your database with the following collation:

```
COLLATE Latin1_General_BIN
```

The default collation for PeopleSoft databases is Latin1\_General\_BIN. If you want to use a collation other than Latin1\_General\_BIN, you will need to modify createdb\_2005.sql in the *PS\_HOME*\scripts directory and replace Latin1\_General\_BIN with the desired collation before running the script. For further information on selecting a collation refer to the first chapter in this guide.

See "Preparing for Installation."

If you modify the collation for the database you may also have to modify the option in PeopleSoft PeopleTools that controls the sort order after you set up PIA. A modification in the collation usually impacts the sort order of the database.

See "Setting Up the PeopleSoft Pure Internet Architecture."

To set the appropriate sort order:

Some components of PeopleSoft PeopleTools cannot rely on the database to sort data and must do so in memory. The sort order option on the PeopleTools Options page enables you to select which sort order should be used by PeopleSoft PeopleTools when sorting data in memory.

See the information on sort order in the *PeopleTools: Global Technology* product documentation.

You should set this option soon after you have completed the installation of the database and your PIA environment (in the chapter "Setting Up the PeopleSoft Pure Internet Architecture"). Choose the option that most closely approximates the sort order that you selected when creating the database.

1. Select PeopleTools, Utilities, Administration, PeopleTools Options.
2. Select an option from the Sort Order Option drop-down list box.
3. Click Save.

#### *Database options*

The script will turn on several database options with the following commands:

```
ALTER DATABASE <DBNAME>
SET ARITHABORT ON
go
ALTER DATABASE <DBNAME>
SET QUOTED_IDENTIFIER ON
go
```

where <DBNAME> is your database name. The option QUOTED\_IDENTIFIER can be changed at the connection properties section under the ODBC Administrator and as an option in SQL Server Management Studio. Make sure this option is enabled for any client connecting to your PeopleSoft database that will execute SQL.

---

**Note.** If you create your database through the Enterprise Manager be sure to turn ON both options in this section manually. You may run the previous commands through SQL Server Management Studio after creating the database.

---

See "Preparing for Installation," Installing Client Connectivity.

#### *Maximum file size*

Set the maximum file size for data files and transaction log to unrestricted file growth. Once your data is imported, file growth can be restricted as needed.

If you are using the createdb\_2005.sql script you can change the growth option for your database device files by modifying the portion of the script similar to that below. Remove the comment characters (" - ") and edit the statements to fit your environment:

```
-- ALTER DATABASE <DBNAME> MODIFY FILE (NAME = <DATANAME>, MAXSIZE = UNLIMITED)
-- go

-- ALTER DATABASE <DBNAME> MODIFY FILE (NAME = <LOGDATANAME>, MAXSIZE = UNLIMITED)
```

```
-- go
```

If you are using Enterprise Manager to create a PeopleSoft database, specify unrestricted file growth, but do not turn on any special options—unless you are using *Truncate Log on Checkpoint* for data import. You will set some database options by running the script ADDOBJ\_2005.SQL in a subsequent task.

---

## Task 12-2: Configuring an ODBC Data Source

Now that you have established your database name and location, you can set up an ODBC data source on the database client.

---

**Note.** With Microsoft SQL Server 2005 and above a new connectivity driver was delivered for Microsoft SQL Server databases named “Sql Native Client” or SNAC. Ensure that you use this driver during installation.

---

If you are running on a 64-bit machine, confirm that you are using the correct connectivity drivers. Beginning with the PeopleSoft PeopleTools 8.53 release, executables are both 32-bit and 64-bit. If you are running on a 64-bit operating system you need both the 32-bit and 64-bit connectivity drivers for PeopleSoft PeopleTools.

You need to create the ODBC Data Source under System DSN for both 32-bit and 64-bit applications. The ODBC Data Administrator resides in the following two locations on a 64-bit Microsoft Windows machine:

- *The 32-bit version odbcad32.exe is found in C:\windows\syswow64:* This is for 32-bit utilities running on a 64-bit operating system. This is the correct version for PeopleSoft PeopleTools utilities such as Application Designer (pside.exe) and Data Mover (psdmt.exe).
- *The 64-bit version odbcad32.exe is found in C:\windows\system32:* This is for 64-bit PeopleSoft PeopleTools servers such as Application Server and Process Scheduler servers.

When you run odbcad32 on a 64-bit Microsoft Windows machine (Start, Programs, Control Panel, Administrative Tools, ODBC Data Administrator), the 64-bit version of odbcad32.exe (C:\windows\system32) is used by default. In order to run both 32-bit and 64-bit PeopleSoft PeopleTools, be sure to include a System DSN entry for both the 32-bit version odbcad32.exe (C:\windows\syswow64) and the 64-bit version odbcad32 (C:\windows\system32).

---

**Note.** You will need to configure a separate ODBC data source for each additional database that you create.

---

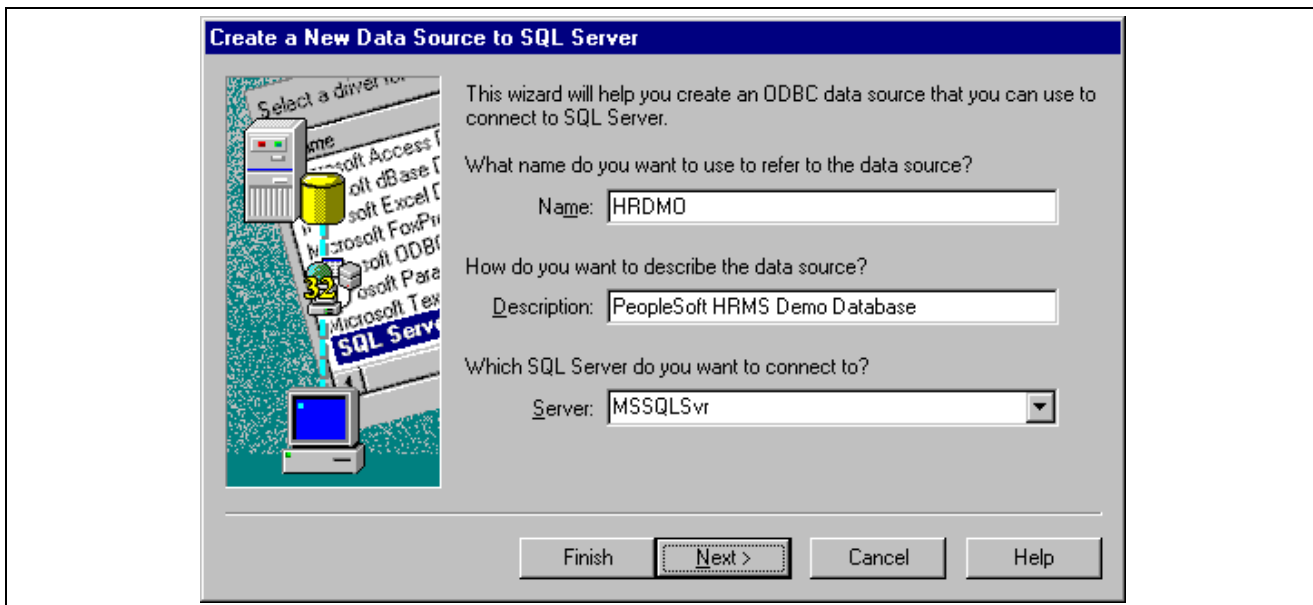
The following procedure shows how to set up a Data Source.

To configure an ODBC data source using ODBC Administrator:

1. In the Create a New Data Source to SQL Server dialog box, enter the database name in the Name text box and the server name in the Server text box.

You must enter the data source name in uppercase. Filling in the Description text box is optional. Click Next.

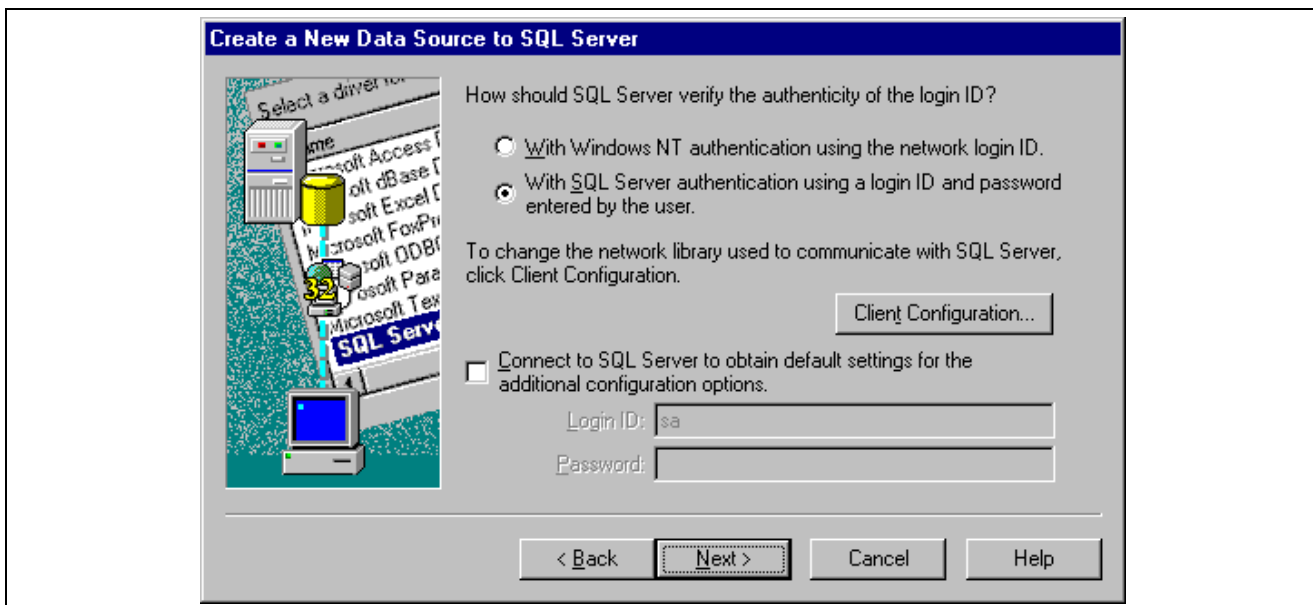




Entering the Name, Description, and Server in the Create a New Data Source to SQL Server dialog box

2. Use SQL Server Authentication to verify the authenticity of the login ID and select the option Connect to SQL Server to obtain default settings for the additional configuration options.

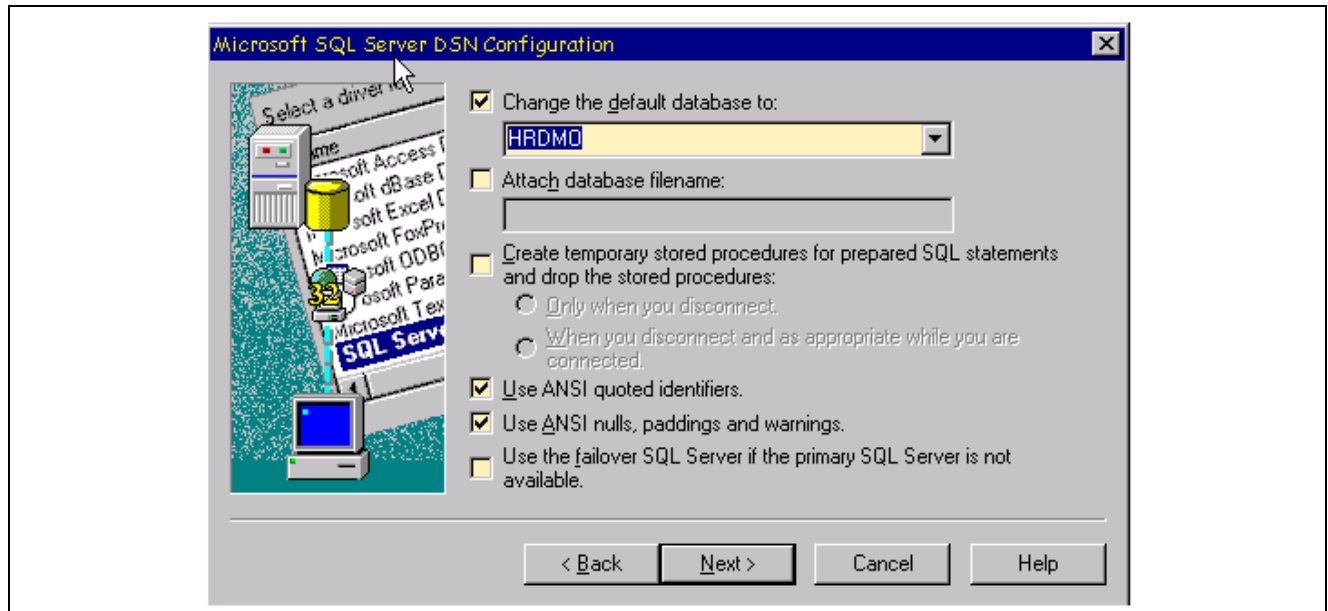
Click Next. For information on using different Client Configuration options consult the *PeopleTools: Data Management* product documentation.



Selecting the authentication type and configuration options in the Create a New Data Source to SQL Server dialog box

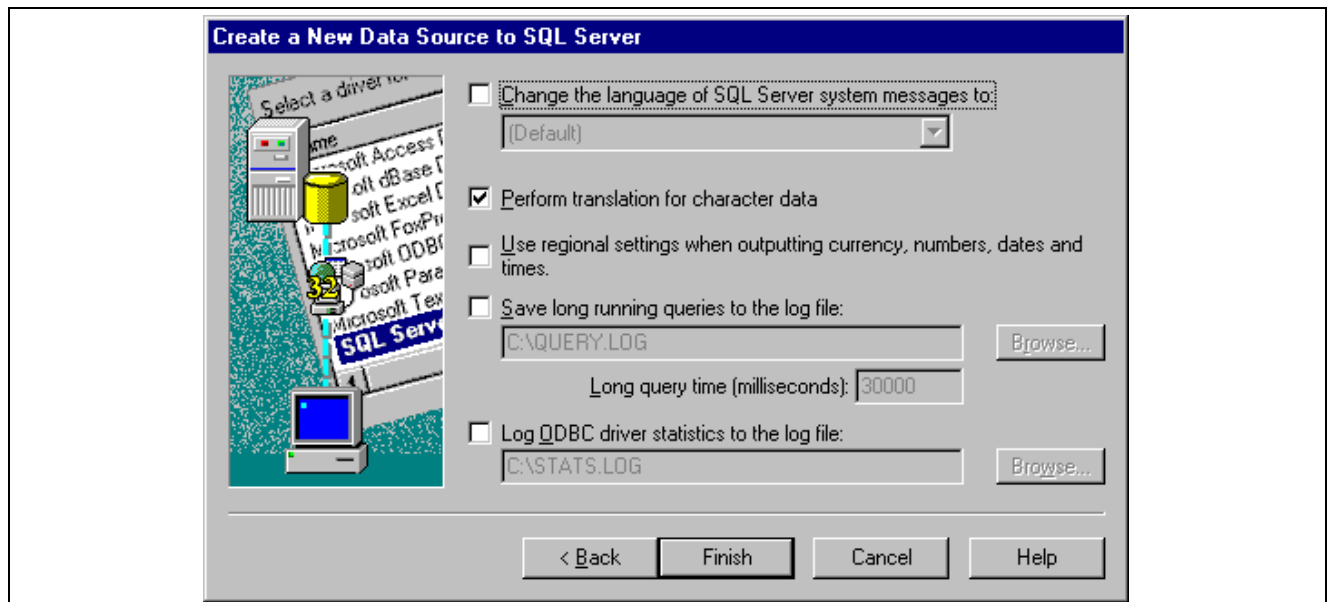
3. Select the option Change the default database to, and enter your database name—be sure to enter your database name in uppercase.

For PeopleSoft, the data source name and the database name must be the same. Leave the options Use ANSI quoted identifiers and Use ANSI nulls, padding and warnings selected. Make sure to deselect (unless it is grayed out) the option Create temporary stored procedure for Prepared SQL Statements and drop the stored procedures. We do not use temporary stored procedures with SQL Server to prepare execution plans. Click Next.



Entering the database name and select your ANSI options in the Create a New Data Source to SQL Server dialog box

4. Click Finish at the next dialog box.



Finalizing the Data Source setup in the Create a New Data Source to SQL Server dialog box

## Task 12-3: Running ADDOBJ.SQL

For this step you will need a SQL Server login with the ability to create new datatypes and views on the PeopleSoft database created in the task “Creating a Database”. You can use the same login utilized to create the database.

Use a query tool such as SQL Server Management Studio or something similar, to run the following SQL script while in the PeopleSoft database:

`PS_HOME\SCRIPTS\ADDOBJ_2005.SQL`

Please read the instructions in the SQL script carefully and review it with your DBA before running it. You will need to edit certain parameters like the database name "<DBNAME>".

This script creates user-defined data types and system catalog views that both Data Mover and PeopleSoft PeopleTools use. It also enables the *ANSI Null Default* option.

---

**Note.** Make sure that you set the context of your session in your PeopleSoft database before you run the script. If this script is accidentally run in the master database, it will yield an error. See the script for more details. Running ADDOBJ\_2005.SQL is a prerequisite to running Data Mover against your database. To check that the *ANSI Null Default* option has been set, run the following T-SQL command with a query tool like the SQL Server Management Studio: `sp_dboption <databasename>`

---

## Task 12-4: Setting Up the CONNECTID

This section discusses:

- Understanding the CONNECTID
- Defining the CONNECTID
- Creating the CONNECTID

### Understanding the CONNECTID

You establish connections to a database by using the CONNECTID, which allows you to associate multiple PeopleSoft operators to the same CONNECTID. The CONNECTID has the minimum privileges required to connect to the database—that is, it has only SELECT privileges on specific PeopleTools tables. After connection, PeopleSoft Security uses the user ID to control access to objects in the database. The PeopleSoft sign-on process validates the CONNECTID on the server, rather than the user ID. CONNECTID simplifies database security maintenance. You don't have to maintain access for all PeopleSoft users, just for the CONNECTID.

The CONNECTID is granted access using the following script:

*Connect\_2005.sql*: To run the script you must use a login with the ability to grant permissions and create users over the PeopleSoft database created in previous steps. You can use the same user utilized to create the database to run this script. Consult with your DBA and review the script to understand it before running it. A system administrator user has the necessary permissions to run this script.

The CONNECTID and connect password must be specified at the client Configuration Manager or the configuration file of any two-tier client accessing the application. *Connect.sql*: Creates a login ID, and access to the PeopleSoft database is then granted to the CONNECTID.

In order to work, the CONNECTID and connect password must be specified at the client configuration manager or the configuration file of any two-tier client accessing the application.

### Task 12-4-1: Defining the CONNECTID

When logging into a PeopleSoft database in two-tier mode, the user enters a Database Name, User ID, and Password in the PeopleSoft Signon dialog box. This table gives the steps and related database operations:

| Log-in Processing Steps                                                                                 | Related Database SQL Operations                                                               |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| The access to SQL Server and the PeopleSoft Database is established with the CONNECTID not the User ID. | Connect=PT84/people/people                                                                    |
| Check PSSTATUS                                                                                          | SELECT OWNERID, TOOLSREL,<br>LASTREFRESHDTM, LASTCHANGEDTM<br>FROM PSSTATUS                   |
| Validate the User ID and Password                                                                       | SELECT VERSION, OPERPSWD, ENCRYPTED,<br>SYMBOLICID, ACCTLOCK FROM PSOPRDEFN<br>WHERE OPRID =1 |
| Get the ACCESSID and Password                                                                           | SELECT ACCESSID, ACCESSPSWD, ENCRYPTED<br>FROM PSACCESSPRFL WHERE SYMBOLICID =1               |
| Disconnect CONNECTID                                                                                    | Disconnect                                                                                    |
| Login using the ACCESSID                                                                                | Connect=PT84/ACCESSID/ACCESSPWD                                                               |

At this point, access is governed by PeopleSoft security, which determines what applications a specific user ID has access to.

## Task 12-4-2: Creating the CONNECTID

To create the CONNECTID:

1. Start a query tool like SQL Server Management Studio and connect to the PeopleSoft database using a System Administrator login or the designated user chosen on the previous step.
2. Open the script *PS\_HOME\scripts\CONNECT\_2005.SQL*.
3. Edit the script to use the desired CONNECTID and Connect Password—for example, people/people.

---

**Note.** The PeopleSoft default for CONNECTID is “people” (with the letter “l”) and for Connect Password it is “people” (with the number 1).

---



---

**Note.** Your CONNECTID must follow the PeopleSoft naming convention—that is, the user name and password can’t be longer than eight characters and do not use special characters. Also remember you may need to comply with the Microsoft Windows server password policies if they are enabled at your site.

---

4. Run the script. (Make sure you are executing the script against the PeopleSoft database, not the master database.)

## Task 12-5: Creating the ACCESSID

The ACCESSID is the database user utilized by the PeopleSoft system to run all the necessary SQL for the system to operate. For PeopleSoft PeopleTools 8.50 and later releases, the ACCESSID user is not required to be a system administrator; hence the ACCESSID will not have the ability to create or drop databases, create or drop databases users, run backups or restore them, grant privileges on the database and other administrator related tasks that are not required to run PeopleSoft applications.

You will need to create a database user and designate it as your ACCESSID utilizing the script `CREATE_ACCESSID.SQL` delivered under `PS_HOME\scripts`. To run this script you will need a user with sufficient security privileges to create the database user and assign it the appropriate rights specified in the script. A system administrator user has more than enough privileges to run this script.

To create the ACCESSID:

1. Start a query tool like SQL Server Management Studio and connect to the PeopleSoft database using a System Administrator login or the designated user chosen on the previous step.
2. Open the script `PS_HOME\scripts\CREATE_ACCESSID.SQL`.
3. Edit the script to use the desired ACCESSID and ACCESSID password.

---

**Note.** For PeopleSoft PeopleTools 8.50 and later releases the ACCESSID is not required to be a system administrator. Your ACCESSID must follow the PeopleSoft naming convention—user name cannot be longer than eight characters and cannot use special characters. Also remember you may need to comply with the Windows server password policies if they are enabled in the site.

---

4. Run the script. (Make sure you are executing the script against the PeopleSoft database, not the master database.)

---

## Task 12-6: Creating Data Mover Import Scripts

This section discusses:

- Understanding Data Mover Import Scripts
- Working with Multilingual Databases
- Running Database Setup to Create Data Mover Import Scripts

### Understanding Data Mover Import Scripts

The Data Mover Import scripts are used to populate the PeopleSoft database with data. You use the Database Setup feature of the PeopleSoft Data Mover utility to create the Data Mover import scripts.

---

**Note.** This task and the next one (Running Data Mover Import Scripts) should be executed from a Windows client machine. Before you can load PeopleSoft data from a Windows client machine, you need to install PeopleSoft PeopleTools and your PeopleSoft Application to the Windows client machine and be sure to select File Server and Database Server.

---

For PeopleSoft PeopleTools 8.53, the user profiles in PeopleTools demo databases are delivered disabled. During the procedure to create Data Mover import scripts you will choose whether to enable the delivered user profiles, and how to assign passwords for the profiles.

See the information on administering user profiles in the *PeopleTools: Security Administration* product documentation.

## Task 12-6-1: Working with Multilingual Databases

All PeopleSoft releases are shipped with English as the database's base language. Therefore when selecting components for the Data Mover Import script, you must select the English components in addition to any other languages you have licensed. After the installation is complete, you can change the database's base language to the language that you plan to use most frequently, or leave the base language as English.

Read the section Planning Multilingual Strategy for information on installing multiple languages and changing your base language.

See "Preparing for Installation," Planning Multilingual Strategy.

If you are creating a database and want to load Oracle-provided translations for non-English languages, you must load English (ENG) in addition to the foreign language components.

If you are creating a non-Unicode database, you must ensure that the languages you select are all supported by the character set you used to create your database.

---

**Note.** During the database setup process, you have the option to select the database's base language. Select the language that you plan to use most frequently. If the database's base language is different than that set in this database setup process, generate the SWAP\_BASE\_LANGUAGE command in the Data Mover Import script to swap the language.

See *PeopleTools: Global Technology*.

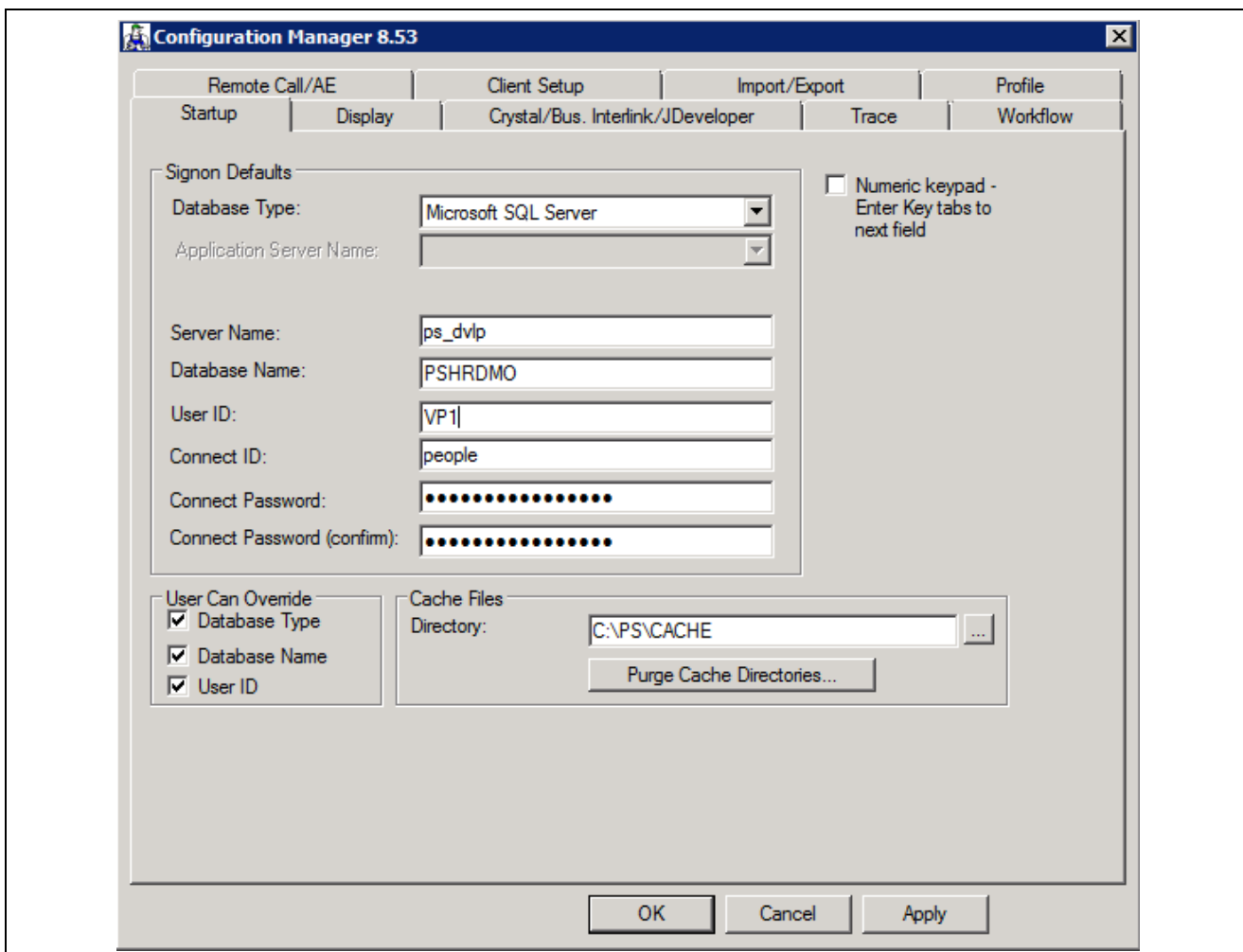
---

## Task 12-6-2: Running Database Setup to Create Data Mover Import Scripts

To create the import scripts using Data Mover:

See *PeopleTools: Data Management*.

1. Run Configuration Manager by selecting Start, Programs, PeopleTools 8.53, Configuration Manager, or by running `PS_HOME\bin\client\winx86\pscfg.exe`.
2. Verify in the Signon Defaults on the Startup page that the Database Type of Microsoft SQL Server is selected, as shown in the example.



Startup tab on the Configuration Manager dialog box

3. Verify that the connect ID is correct.

If you accepted all defaults, the connect ID is people. Enter and confirm a value for the connect ID password.

4. If the *PS\_APP\_HOME* location is not the same as *PS\_HOME*, make sure it is set in Configuration Manager, as follows:
  - a. In Configuration Manager, select Profile.
  - b. Highlight the Default Profile and select Edit.
  - c. On the Edit Profile dialog box, select the Process Scheduler tab.
  - d. Verify that the *PS\_APP\_HOME* value is correct.

See "Setting Up the Install Workstation," Editing the Default Profile.

5. Run Data Mover by selecting Start, Programs, PeopleTools 8.53, Data Mover, or by running *PS\_HOME\bin\client\winx86\psdmt.exe*.
6. Log on using the ACCESSID as the user id to start Data Mover in bootstrap mode; this should be the user that creates the database.

See Checking the Log Files and Troubleshooting, Running Data Mover.

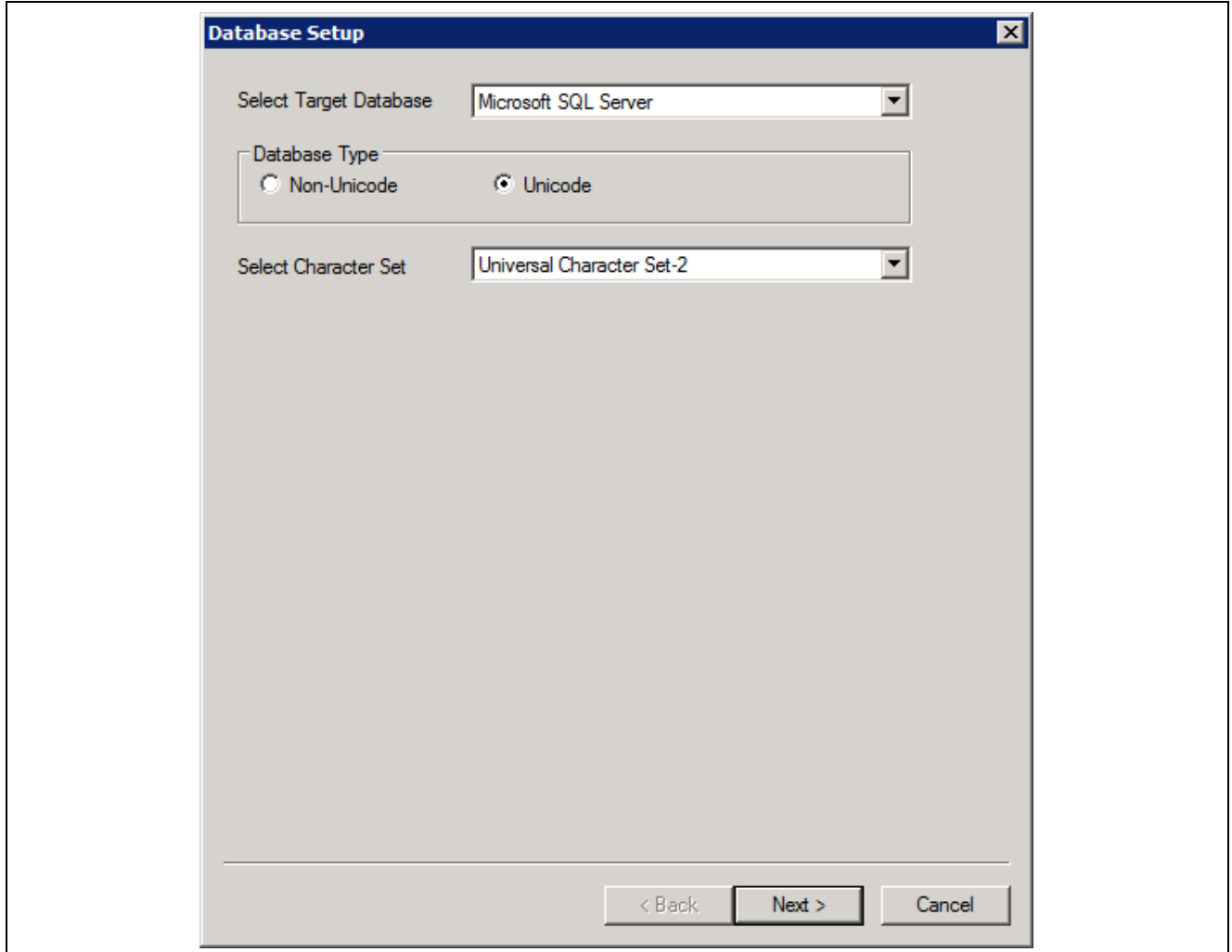
---

**Note.** You must limit the ACCESSID and password to eight characters or less.

---

7. Select File, Database Setup.

The Database Setup dialog box appears, as shown in this example:



Selecting target database and character set on the Database Setup dialog box

8. Select your database platform from the Select Target Database drop-down list.
9. Select your database type, Unicode or non-Unicode, and character set.

Choose the Database Type—Unicode or Non-Unicode—that you selected in the section on multilingual strategy. If you choose Non-Unicode, select the character set that you decided upon in that section from the drop-down list.

---

**Note.** When you select a non-Unicode character set, only the characters within that character set can be stored in your database. If you require characters from multiple character sets or scripts to be stored in a single database, Oracle recommends that you create your database using Unicode.

---

See "Preparing for Installation," Planning Multilingual Strategy.

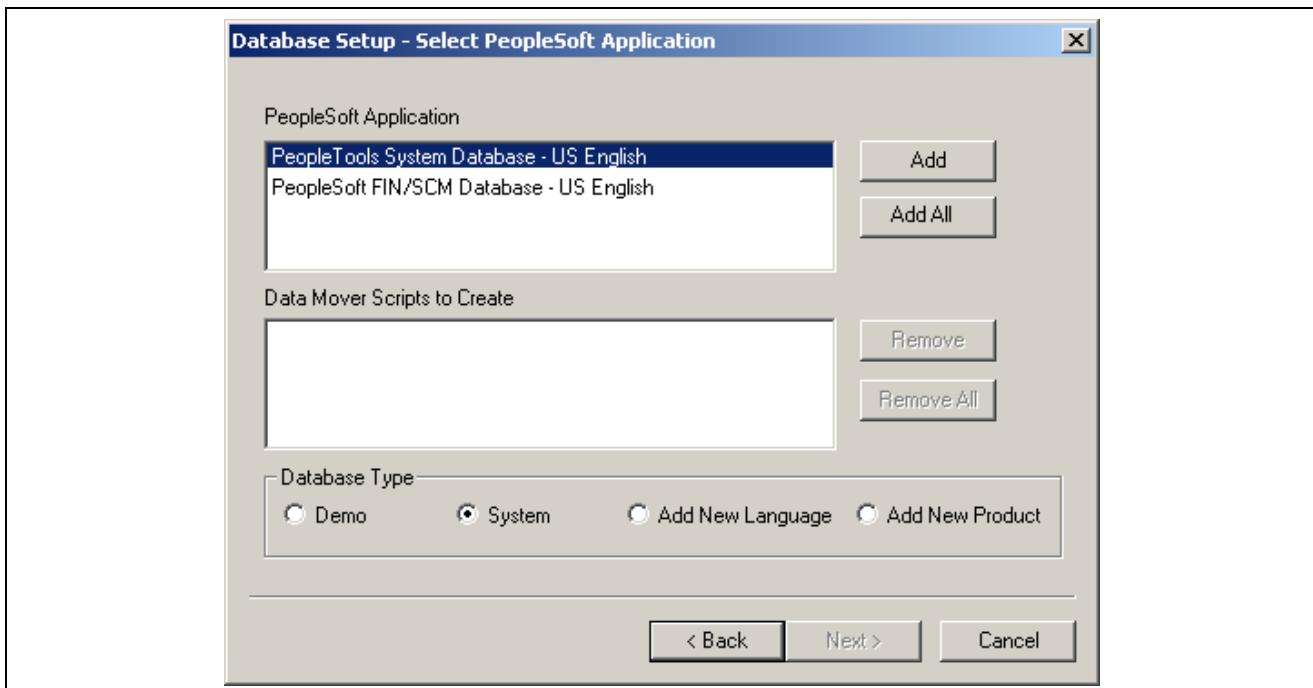


---

**Note.** The database setup does not actually modify the character set of your database. That is done by the DBA during database creation. The database setup process only creates customized scripts based on your selection.

---

10. Select the Demo or System radio button, depending on which type of PeopleSoft database you are installing.



Selecting a PeopleSoft application in the Database Setup dialog box

11. Select the Products for which you want to create a Data Mover script from the PeopleSoft Application list box, and move the items you have selected into the Data Mover Scripts to Create list box by clicking on the Add or Add All button.

If you installed the Multilanguage software, each application will be listed several times, once for each language. If you are installing languages other than English, make sure to select the appropriate language data files for each application you select in English. This will load the translated database objects.

See "Preparing for Installation," Planning Multilingual Strategy.

If you are installing an application in any language other than English, you must also select the English component of the application. For example, if you select PeopleSoft Fin/SCM - French, you must also select PeopleSoft Fin/SCM Database - US English. This ensures that you install the necessary base-language components.

12. Set the database parameters described below and then click Finish.

**Database Setup - Database Parameters**

Database Parameters

Database Name: PSHRDMO

Symbolic ID: sa1

Access ID: sa

Access Password:

Connect ID: people

Application Server ID:

Application Server Password:

Web Server ID: PTWEBSEVER

Web Server Password:

☒ Enable All Profiles ☒ Set Global Password

Global Password:

< Back Finish Cancel

Specifying Database Parameters on the Database Setup dialog box

- *Database Name:* Specify the database name that users will enter on the PeopleSoft signon screen. This corresponds to the owner ID. It can be up to eight characters long and must be entered in uppercase. This name must be the same as that of the ODBC data source.
- *Symbolic ID:* This is used as the key to retrieve ACCESSID and ACCESSPSWD from PSACCESSPRFL. For initial installation set it equal to the Database Name. The symbolic ID cannot be longer than eight characters.
- *Access ID:* This is the ACCESSID user created with the CREATE\_ACCESSID.SQL. (Note that this user is not a SQL Server system administrator.) This value is case sensitive. You will use the access ID every time you want to sign on to Data Mover in bootstrap mode. Limit this to eight characters or less.

---

**Note.** You must limit ACCESSID and CONNECTID to eight characters or less.

---

- *Access Password:* This is the PeopleSoft ACCESSID password defined in the chapter “Preparing for Installation.”
- *Connect ID:* This is the CONNECTID that is used for the initial connection to SQL Server. The standard PeopleSoft configuration delivers people as the connect ID.

- *Application Server ID*: The Application Server ID has privileges to administer the Application Server, for example when booting or shutting down with psadmin.
- *Application Server Password*: Specify a password for the Application Server ID.
- *Web Server Password*: Specify a password for the Web server ID.

The default Web Server ID, as displayed in the example, is PTWEBSERVER. The Web Server ID has privileges to administer the Web server.

- *Enable All Profiles*: Select this option to leave the User profiles (other than the Application Server profile and the Web Server User profiles) unchanged.

If you do not select this option, all of the User profiles in the database, with the exception of the Application Server profile and Web Server User profiles, remain disabled as delivered.

- *Set Global Password*: If you enabled all profiles, you can choose to set the same password for all of the profiles.

---

**Note.** This option is enabled when the Enable All Profiles option is selected, as shown in the example.

---

- *Global Password*: Enter the password to be used for all user profiles.

---

**Note.** This option is enabled when the Set Global Password option is selected, as shown in the example.

---

### 13. Select your database's base language.

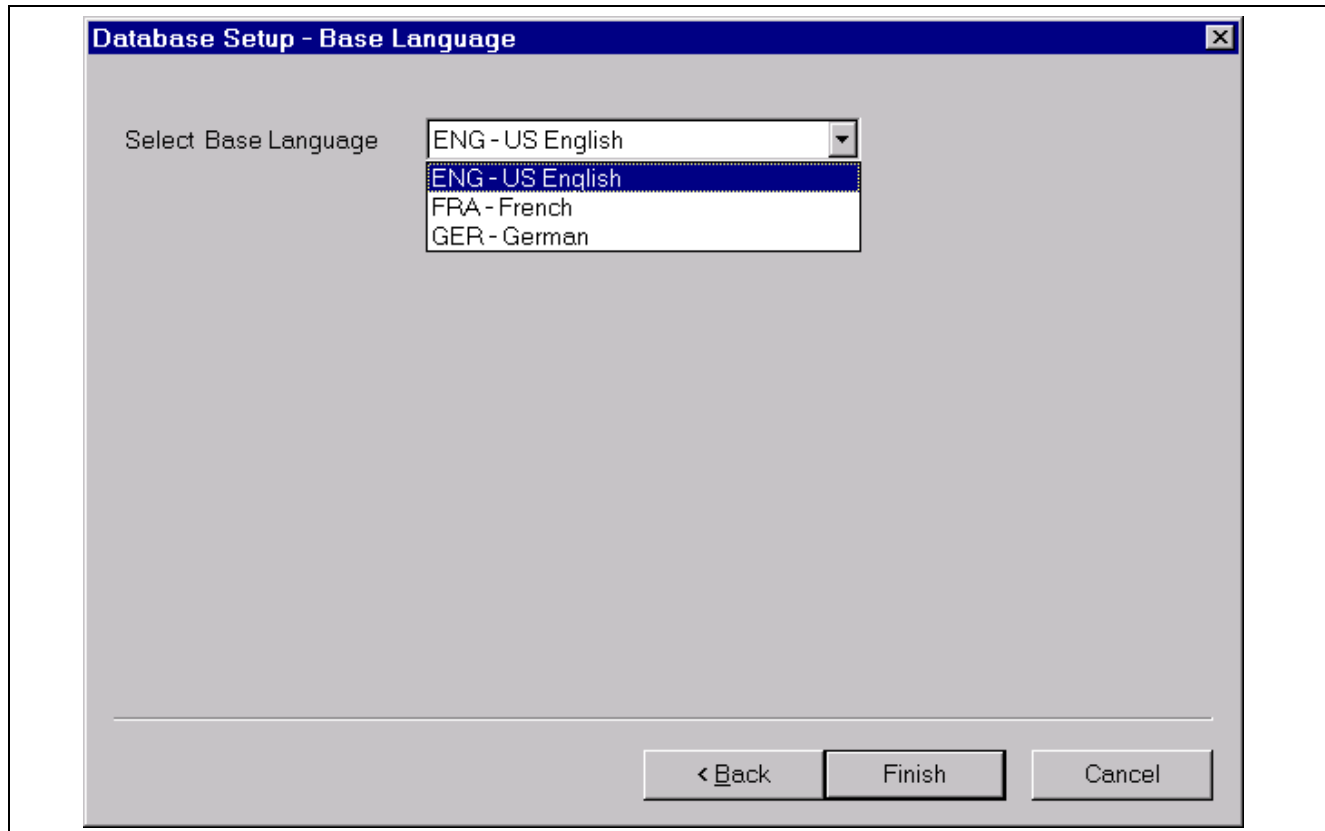
---

**Note.** This window appears only if you selected a database for a language other than English. If you see this window it is critical to select the correct base language. When you select a base language other than ENG, DBSETUP generates the Data Mover import script with the SWAP\_BASE\_LANGUAGE command to swap the base language.

---

See "Preparing for Installation," Planning Multilingual Strategy.

See Working with Multilingual Databases.



Selecting a base language in the Database Setup dialog box

Use the following information in making your selection:

- If you have not already done so, read the first chapter before determining whether to install multiple languages and whether to change your base language.
- If you are creating a database and want to load Oracle-provided translations for non-English languages, you must load English (ENG) in addition to the foreign language components.
- All PeopleSoft releases are shipped with English as the database's base language. Therefore when selecting components for the Data Mover Import script, you must select the English components in addition to any other languages you have licensed. During the Database Setup wizard, you need to select the database's base language that you plan to use most frequently. If your database's base language is different than the Database Setup wizard generate the SWAP\_BASE\_LANGUAGE command in the Data Mover Import script to swap the language.
- If you are creating a non-Unicode database, you must ensure that the languages you select are all supported by the character set you used to create your database.

14. Click Finish.

---

**Note.** If the Database Setup - Base Language window does not appear, click Finish after supplying the parameters on the Database Setup - Database Parameters window.

---

At this point you are in Data Mover, with the DMS script you just created ready to run.

## See Also

*PeopleTools: Data Management*

---

## Task 12-7: Running Data Mover Import Scripts

This section discusses:

- Understanding Data Mover Import Scripts
- Populating Tables in the PeopleSoft Database

### Understanding Data Mover Import Scripts

Now you will run the Data Mover scripts (DMS) that you created in the preceding task to import the data for your PeopleSoft database. The Data Mover script creates either a system (SYS) or a demo (DMO) database.

When you initially logged onto Data Mover to create the DMS scripts, you logged in with the ACCESSID and password, using bootstrap mode. You need to use bootstrap mode to run the Data Mover import script, because there are not yet any PeopleSoft security tables in the database.

When you start Data Mover in bootstrap mode, the word “BootStrap” appears in the Data Mover status bar.

See *PeopleTools: Data Management*.

### See Also

Checking the Log Files and Troubleshooting, Running Data Mover

### Task 12-7-1: Populating Tables in the PeopleSoft Database

To populate tables in the PeopleSoft database:

1. The DMS import script for your application will contain hard-coded file names for log files and data files.  
Modify the DMS script if you have moved any files from the delivered directories or want to write log files to another location than that specified in the script.
2. Select File, Run to execute the script.

When you run the script, Data Mover typically does the following:

- **IMPORT \***  
Create all the PeopleTools and application tables with their indexes.
- **ENCRYPT\_PASSWORD \***  
Encrypt security information for the database.
- **CREATE\_TRIGGER \***  
Create application required triggers.
- **REPLACE\_VIEW \***  
Create PeopleSoft views.
- **CREATE\_TEMP\_TABLE \***  
Create PeopleSoft temporary tables.

---

**Note.** When installing an application database, Data Mover may fail when creating the view PTLT\_SCOMP\_VW1 if the database was delivered on a PeopleSoft PeopleTools release prior to 8.48. This error may be ignored. The view will be created correctly in a later step.

---

---

## Task 12-8: Checking the Log Files and Troubleshooting

This section discusses:

- Checking the Log Files
- Running Data Mover
- Troubleshooting
- Improving Performance

### Task 12-8-1: Checking the Log Files

After running each Data Mover script, examine the .LOG files to make sure that all the commands were executed successfully. The log files are located in the directory you specified in the Data Mover script.

See "Setting Up the Install Workstation," Editing the Default Profile.

### Task 12-8-2: Running Data Mover

Use one of these methods to run Data Mover:

- Select Start, Programs, PeopleTools 8.53, Data Mover.
- Go to *PS\_HOME\bin\client\winx86* and run *psdmt.exe*.
- Run the Data Mover executable, *psdmtx*, on the command line.

---

**Note.** This method is normally used on UNIX operating systems.

---

If you use the access ID that you specified during the database configuration to log on, you log on in "bootstrap mode." When you start Data Mover in bootstrap mode, the word "BootStrap" appears in the Data Mover status bar.

If you use a valid PeopleSoft Operator ID, such as PS for Human Capital Management or VP1 for Financials/Supply Chain Management, you log on in "user mode." In this mode, no designation appears in the Data Mover status bar.

### See Also

*PeopleTools: Data Management*

### Task 12-8-3: Troubleshooting

If the DMS script has stopped midway (this can happen for a number of reasons) you need to edit the script and start again.

To edit and restart the DMS script:

1. Determine the record that was being imported (that is, which IMPORT command was running) when the script stopped, and use the following guidelines to edit and rerun the DMS scripts.

When building a DMO database or a multilingual database, adding the SET START statement can be tricky because the Data Mover script used to load the database will include more than one IMPORT statement. The key is to view the log files and determine which IMPORT section of the script Data Mover failed on.

- If the failure occurred during the first IMPORT statement, add the SET START statement before the first IMPORT \*; statement.
- If the failure occurred during a subsequent IMPORT statement, comment out all statements preceding the IMPORT \*; statement where the failure occurred and add the SET START statement before the IMPORT \*; statement of the section in which the failure occurred.
- *This is very important:* If you see any “unique index constraint” error messages in the “Building required indexes” section, your IMPORT script failed during a subsequent IMPORT but the SET START statement was added to the first IMPORT. In this situation, you can run the Data Mover script in its originally generated form, with only one modification. In the first IMPORT section, change the statement “IMPORT \*;” to “REPLACE\_DATA \*;”. This will delete all the data in the tables, and re-import it. This process will take some time to run, and you will need to separately create each of the indexes that failed.

2. Run Data Mover by selecting Start, Programs, PeopleTools 8.53, Data Mover (or going to *PS\_HOME*\bin\client\winx86 and running psdmt.exe).

The PeopleSoft Logon window appears.

3. Log on using the ACCESSID to start Data Mover in *bootstrap mode*.

Use the Access ID you specified when you created the Data Mover scripts with the Database Setup utility.

The input window should display the DMS import script for the database. The script has the format <dbname>mss.dms.

4. If necessary, select File, Open, and browse to the *PS\_HOME*/scripts directory to find the appropriate DMS script.
5. Add the following line before the offending IMPORT command (the one being executed when the failure occurred):

```
SET START <RECORD NAME>;
```

<RECORD NAME> is the name of the record that failed. Make sure to review the Data Mover log file to see where the script failed and locate the last record that imported successfully. The SET START command will begin the Data Mover import at the specified record name.

---

**Note.** It is a good idea to change the name of the log file in the script before each attempt at running it. This ensures that you have a separate log file for each attempt, if you run the import more than once.

---

For example, if the script stops and the table is partially inserted with a message similar to this one:

```
Importing PSPNLFIELD
Rows inserted into PSPNLFIELD
3000
```

First drop the partially inserted table (for example, record) by using the DROP TABLE command, and then restart Data Mover at the record that failed using the SET START command and continue the Data Mover import. This can be done in a single pass.

Add the following lines before the offending IMPORT \*; command (the one being executed when the failure occurred):

```
SET START <RECORD NAME>;
```

```
DROP TABLE <RECORD NAME>;
```

where <RECORD NAME> is the name of the record that failed. The SET START statement will begin the Data Mover import at the specified <RECORD NAME>.

*Example of the original script:*

```
REM - PeopleTools System Database - US English
/
SET LOG ptengs.log;
SET INPUT ptengs.db;
SET COMMIT 30000;
SET NO VIEW;
SET NO SPACE;
SET NO TRACE;
SET UNICODE OFF;
IMPORT *;
```

*Example of script after modification, with changes in bold font:*

```
REM - PeopleTools System Database - US English
/
SET LOG ptengs2.log;
SET INPUT ptengs.db;
SET COMMIT 30000;
SET NO VIEW;
SET NO SPACE;
SET NO TRACE;
SET UNICODE OFF;
SET START PSPNLFIELD;
DROP TABLE PSPNLFIELD;
IMPORT *;
```

For the DROP statement, for records with a recname without a leading PS, add PS\_ to the beginning of the recname; otherwise the table will not be found. For example, PS\_<RECNAME>.

6. Restart the script (File, Run Script).

## Task 12-8-4: Improving Performance

The following tips can help you save time when running the Data Mover scripts:

- Run Data Mover on the database server.
- Run only a single instance of Data Mover, and do not have any other applications running during the import.
- In the PeopleSoft Configuration Manager, turn off all trace options.  
Tracing during a DMS load will add considerable time to the process.
- Run Data Mover on the database server with the .db or .dat file located locally.



---

## Task 12-9: Changing the Base Language

The information in the earlier task Planning Multilingual Strategy will help you determine whether you should change your base language, and lists the currently supported languages.

See "Preparing for Installation," Planning Multilingual Strategy.

See "PeopleSoft Enterprise PeopleTools Supported Languages," My Oracle Support (search for article name).

This task applies only if your users will be operating PeopleSoft applications *primarily* in one particular language other than English. It gives a performance boost to the language you designate as the base language, but requires more administrative overhead than leaving English as the base language. The details are spelled out in the *PeopleTools: Global Technology* product documentation.



## CHAPTER 13

# Installing and Compiling COBOL on Windows

This chapter discusses:

- Understanding COBOL
- Prerequisites
- Installing Micro Focus Net Express for Windows
- Using the Micro Focus COBOL Compiler on Microsoft Windows
- Installing IBM COBOL for Microsoft Windows
- Using the IBM COBOL Compiler on Microsoft Windows

---

## Understanding COBOL

This chapter describes how to compile and link PeopleSoft COBOL batch programs, if necessary.

COBOL is not needed for PeopleSoft PeopleTools because the Process Scheduler is written in C++. In addition, COBOL is not required for applications that contain no COBOL programs. See My Oracle Support for the details on whether your application requires COBOL.

The chapter includes instructions for both Micro Focus Net Express COBOL compilers, referred to here as “Micro Focus COBOL”, and IBM Rational Developer for System z, referred to here as “IBM COBOL”.

### See Also

"Preparing for Installation," Installing Supporting Applications

"PeopleSoft Enterprise Frequently Asked Questions About PeopleSoft and COBOL Compilers," My Oracle Support, (search for the article name)

"PeopleSoft Enterprise Frequently Asked Questions About PeopleSoft and the IBM COBOL Compiler," My Oracle Support, (search for the article name)

"COBOL: Installation, Versions, and Fixpacks" My Oracle Support, (search for the article name)

*PeopleTools: Global Technology*, "Running COBOL in a Unicode Environment"

---

## Prerequisites

Before you attempt to run COBOL from the command line you should do the following:

- Make sure the variable PS\_SERVER\_CFG points to a valid pspres.cfg file.
- Make sure %PS\_HOME%\bin\server\winx86 is in your path. It should appear before %PS\_HOME%\bin\client\winx86 if that also appears in the path.

---

## Task 13-1: Installing Micro Focus Net Express for Windows

This section discusses:

- Prerequisites
- Obtaining Installation Files for Micro Focus Net Express from Oracle Software Delivery Cloud
- Installing Micro Focus Net Express

### Prerequisites

Micro Focus® Net Express™ 5.1 Wrap Pack 6 is the supported COBOL compiler on Microsoft Windows for PeopleSoft PeopleTools 8.53.

Check the certification information on My Oracle Support for the supported version for Microsoft Windows operating systems.

The installation available from Oracle Software Delivery Cloud includes a 30-day license. Contact your Micro Focus vendor to obtain a permanent license for the COBOL compiler.

### See Also

Using the Micro Focus COBOL Compiler on Microsoft Windows

### Task 13-1-1: Obtaining Installation Files for Micro Focus Net Express from Oracle Software Delivery Cloud

The Micro Focus Net Express installation files are available on Oracle Software Delivery Cloud. At this point you may have already downloaded the necessary files. This section includes additional information on finding and using the files for Micro Focus Net Express if necessary.

See "Preparing for Installation," Using Oracle Software Delivery Cloud to Obtain Installation Files.

To obtain the files for the Micro Focus Net Express installation:

1. After logging in to Oracle Software Delivery Cloud, on the Media Search Pack page, select *PeopleSoft Enterprise* from the Select a Product Pack drop-down list.  
Select the operating system you are running on from the Platform drop-down list, and click Go.
2. Select the radio button for Third Party - Micro Focus 5.1 for PeopleSoft Enterprise Media Pack and click Continue.
3. Download the software and documentation files for the compiler Micro Focus Net Express 5.1 Wrap Pack 6, and save the zip files to a temporary directory on your local system.

The directory where you save the zip file is referred to in this documentation as *NE\_INSTALL*. You must extract (unzip) the file on the platform for which it is intended. For example, if you download the zip file for Microsoft Windows, you must unzip it on Microsoft Windows to avoid problems.

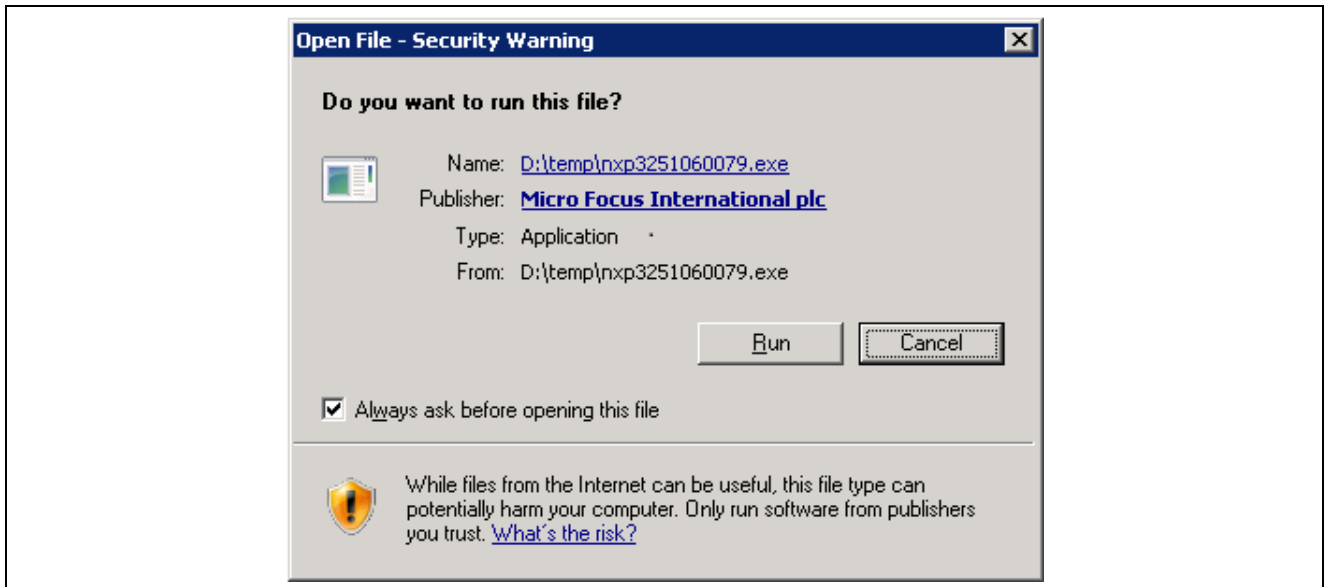
## Task 13-1-2: Installing Micro Focus Net Express

The following procedure assumes that you saved the installation files from Oracle Software Delivery Cloud in the directory *NE\_INSTALL*.

To install Micro Focus Net Express:

1. Double-click *NE\_INSTALL/nxp3251060079.exe*.

If a security screen appears, click Run to launch the installer.

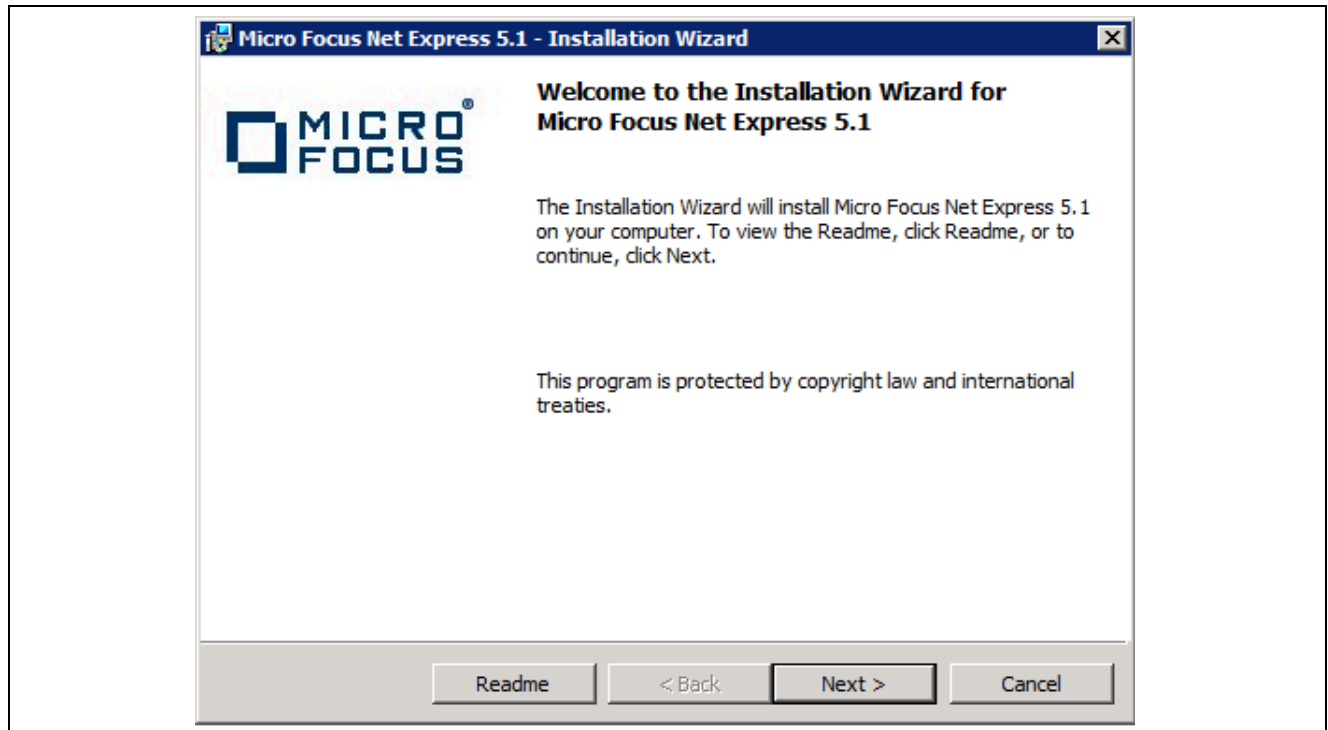


Open File - Security Warning for the Micro Focus installation executable

The Install Shield Wizard starts extracting files. This may take a few minutes until the files are extracted, and then the Installation Wizard dialog box appears.

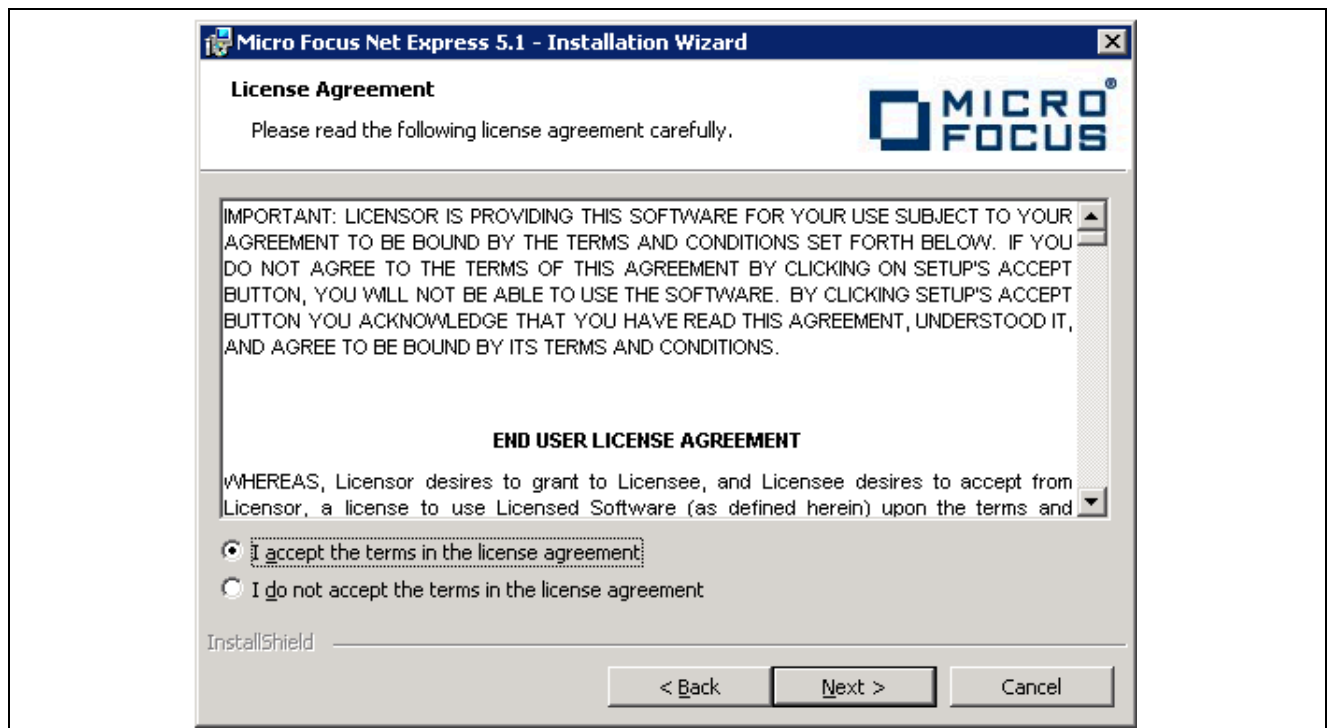
2. Click Next on the welcome screen.

The screen includes a button to open a Readme file.



Micro Focus Net Express Installation Wizard Welcome window

3. Read the terms of the License Agreement, select the option to accept the terms, and click Next.



License Agreement window for Micro Focus Express

4. Complete the Customer Information window:
  - a. Enter your name in the User Name field, and enter your Company Name.

In the example shown below, the user name is USER NAME, and the Company Name is ORACLE.

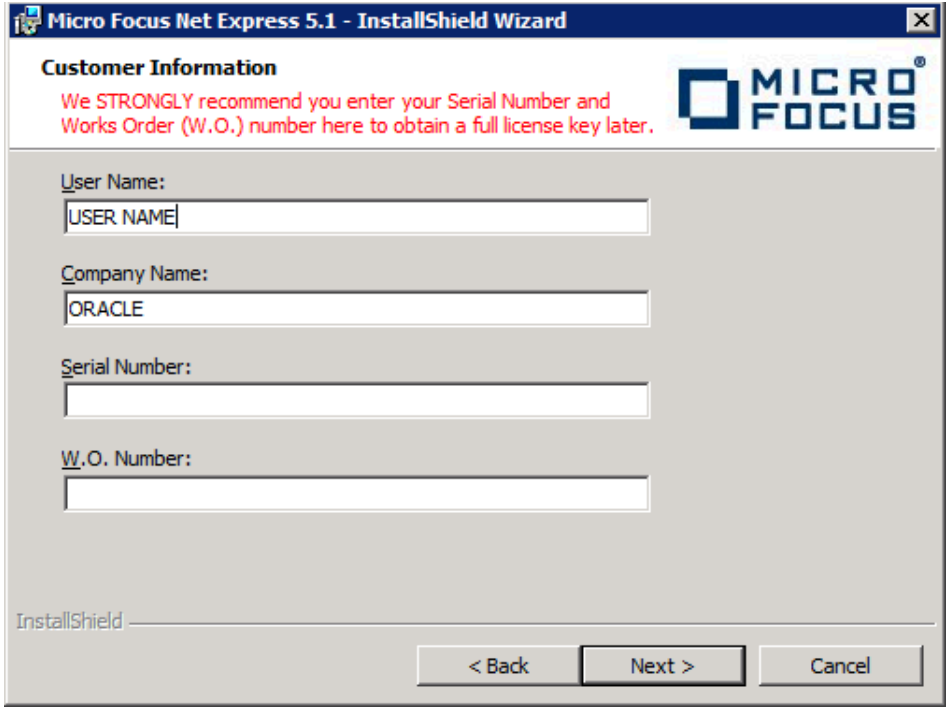
- b. Leave the Serial Number and W.O. Number fields blank. Oracle does not provide these numbers to you and they are not required.

---

**Note.** The message at the top of the window reads “We STRONGLY recommend you enter your Serial Number and Works Order (W.O.) number here. You will need them later to obtain a full license key.” The example here leaves these fields blank.

---

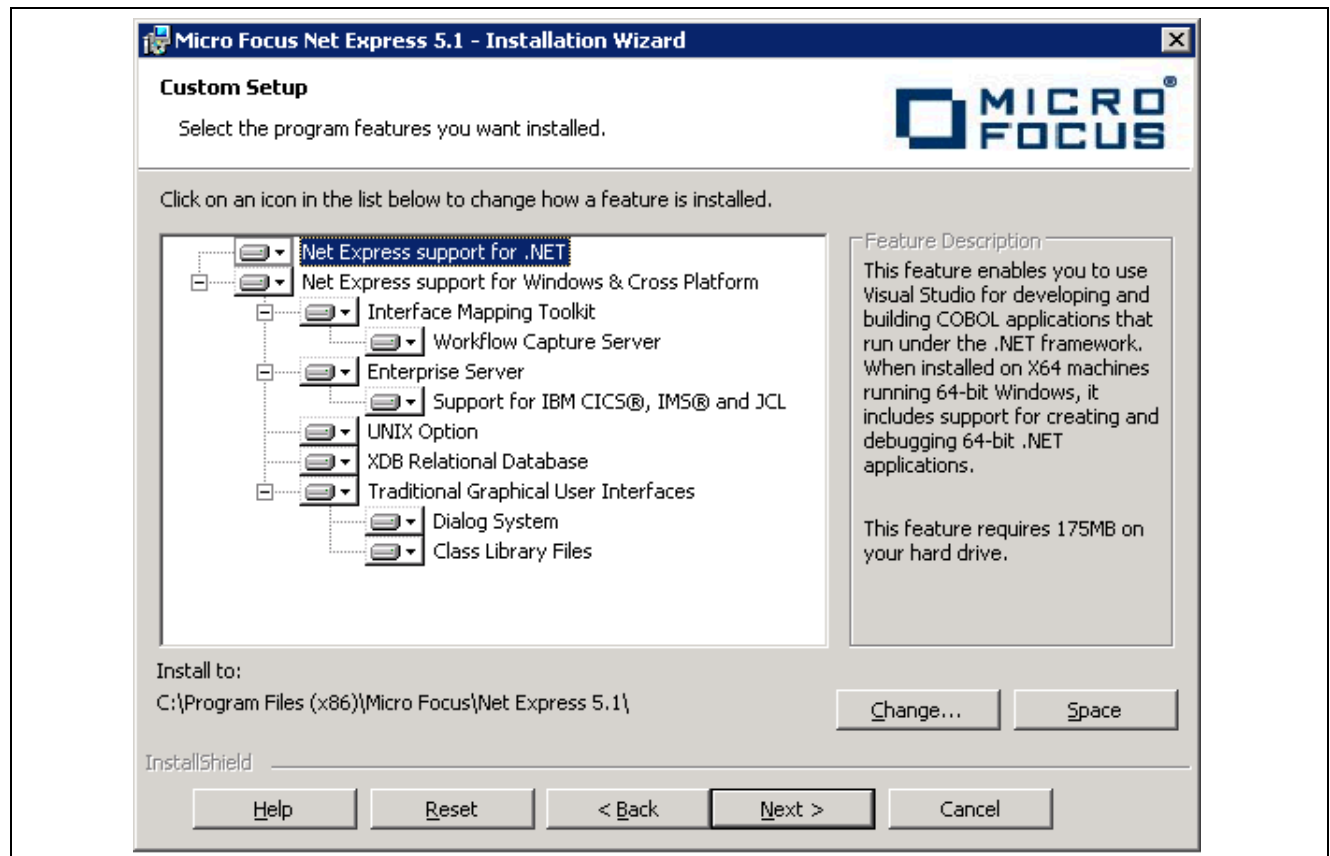
- c. Click Next.



The screenshot shows a Windows-style dialog box titled "Micro Focus Net Express 5.1 - InstallShield Wizard". The main heading is "Customer Information". Below this, a red message states: "We STRONGLY recommend you enter your Serial Number and Works Order (W.O.) number here to obtain a full license key later." The Micro Focus logo is in the top right corner. There are four text input fields: "User Name:" with "USER NAME" entered, "Company Name:" with "ORACLE" entered, "Serial Number:" which is empty, and "W.O. Number:" which is empty. At the bottom left, it says "InstallShield". At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel".

Customer Information window

5. The Custom Setup window appears as in this example, with all of the options selected initially:

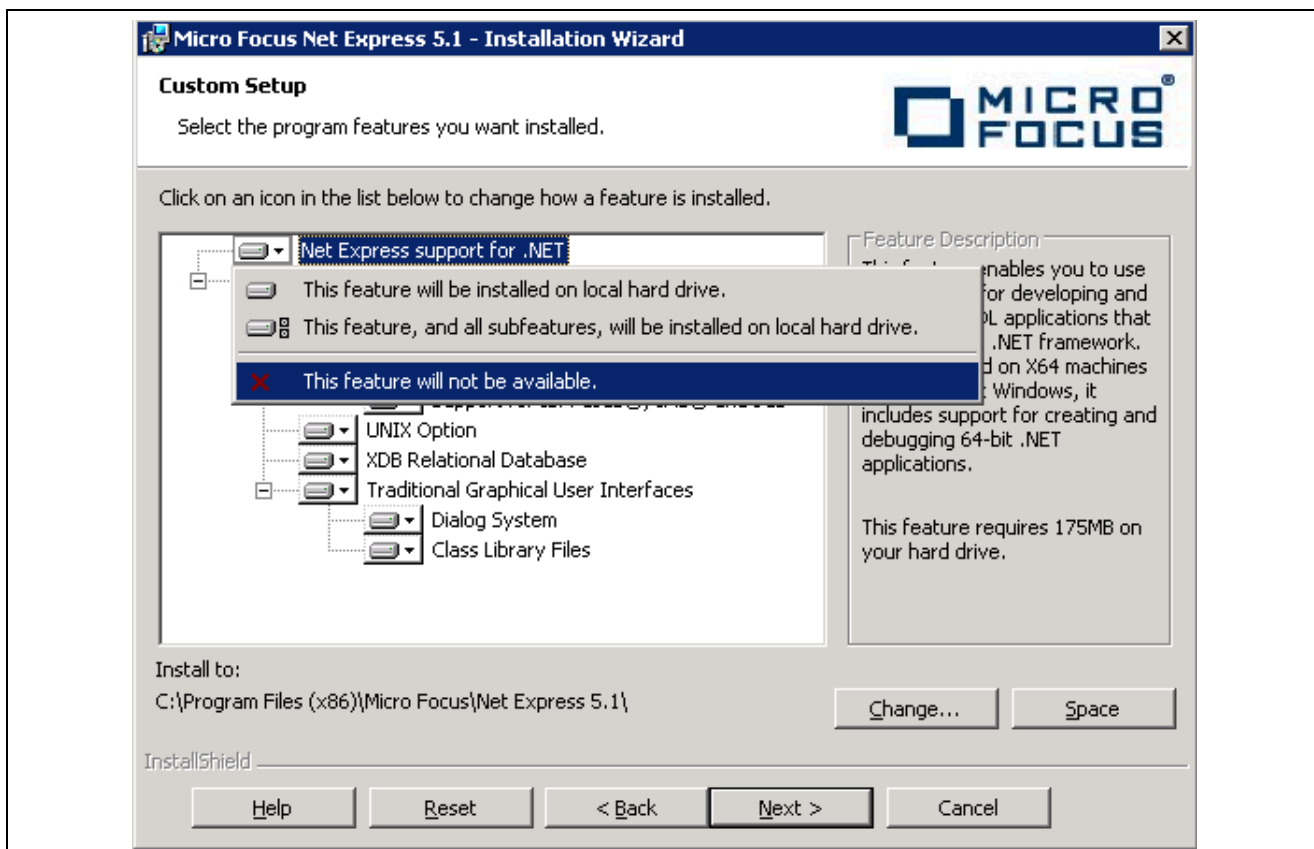


Custom Setup window before selecting features

6. You must clear several features on the Custom Setup window before proceeding.

You can turn off a feature by clicking on the drop-down button beside the feature and selecting the option “X This feature will not be available,” as shown in this example:





Custom Setup window displaying selection and deselection options

The Traditional Graphical User Interfaces feature is the only feature required for the PeopleSoft installation. (The Traditional Graphical User Interfaces feature also includes Dialog System and Class Library Files.) Clear the following features:

- Net Express support for .NET

---

**Note.** Microsoft .NET framework is not required for compiling and running COBOL applications in PeopleSoft architecture. Neither is .NET required for successful installation of MicroFocus Net Express 5.1.

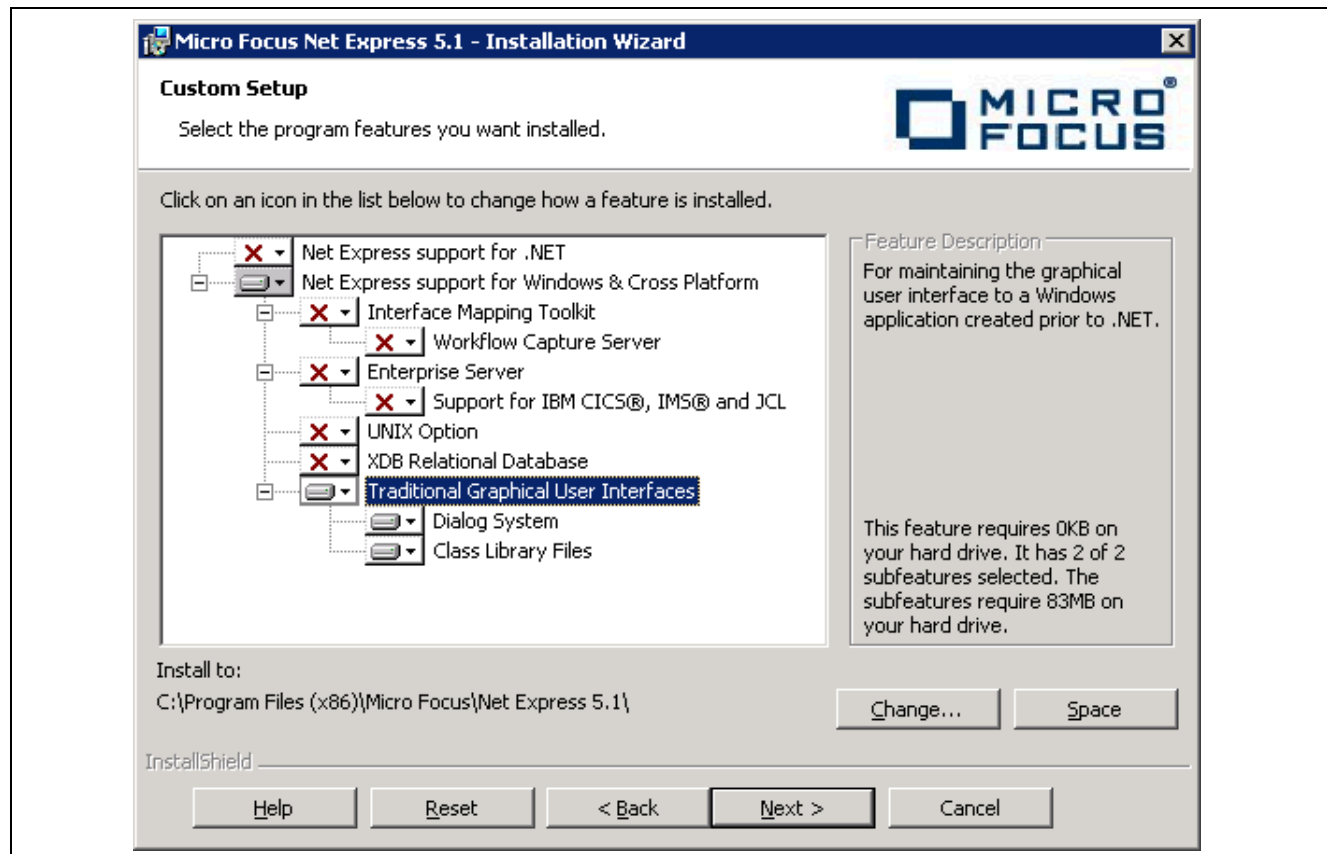
---

- Interface Mapping Toolkit

When you clear this feature, the Workflow Capture Server option is automatically cleared also.

- Enterprise Server
- UNIX Option
- XDB Relational Database

7. Verify that your final selection matches this example, with only Traditional Graphical User Interfaces, Dialog System, and Class Library Files, selected:



Custom Setup window with options selected for PeopleSoft applications

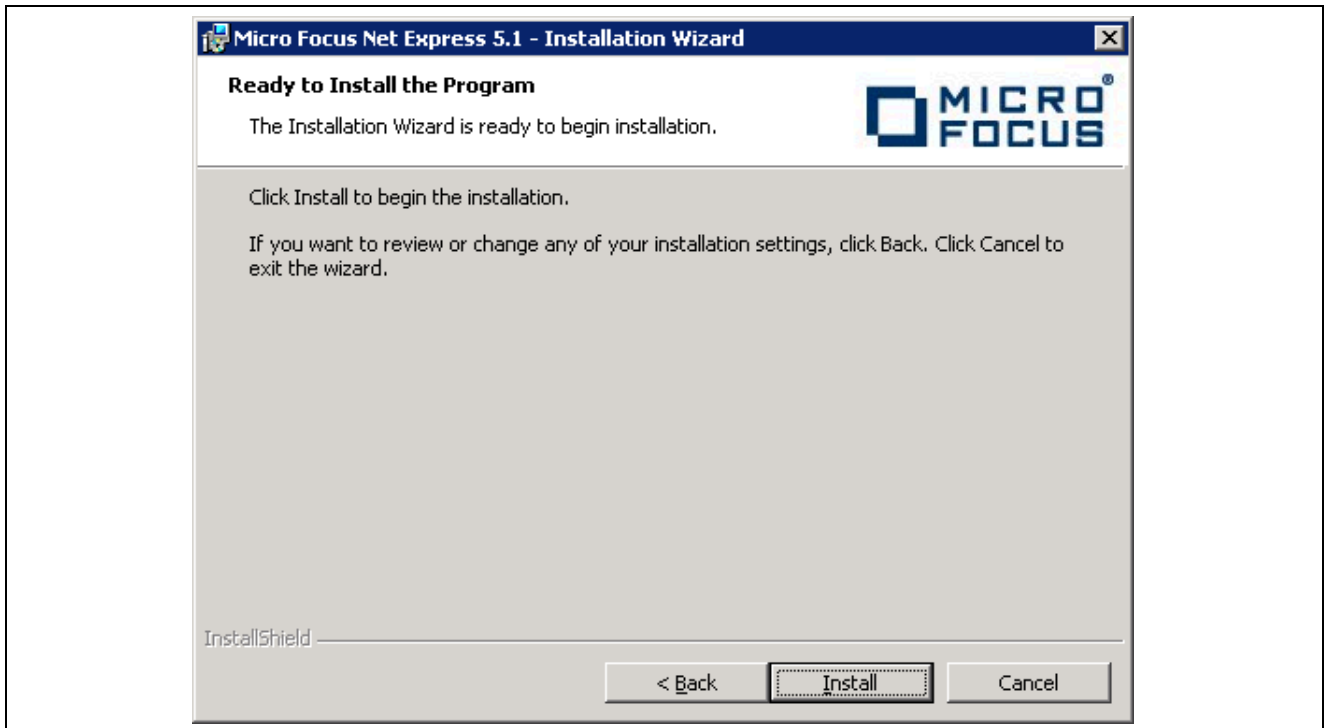
8. Highlight Traditional Graphical User Interfaces.

The default installation directory is displayed below the feature list. If you want to install to another location, click Change. If not, click Next.

The Micro Focus Net Express 5.1 default installation directory is:

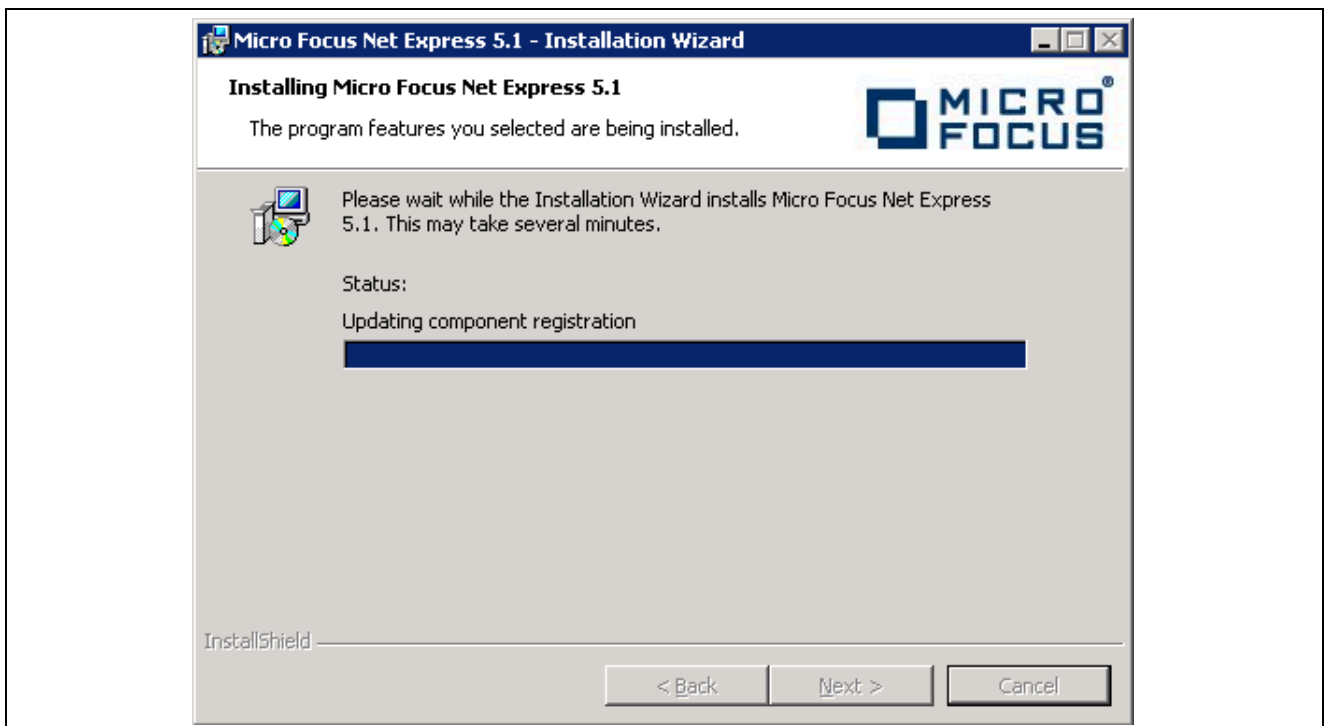
- For 32-bit systems:  
C:\Program Files\Micro Focus\Net Express 5.1
- For 64-bit systems:  
C:\Program Files (x86)\Micro Focus\Net Express 5.1

9. Click Install.



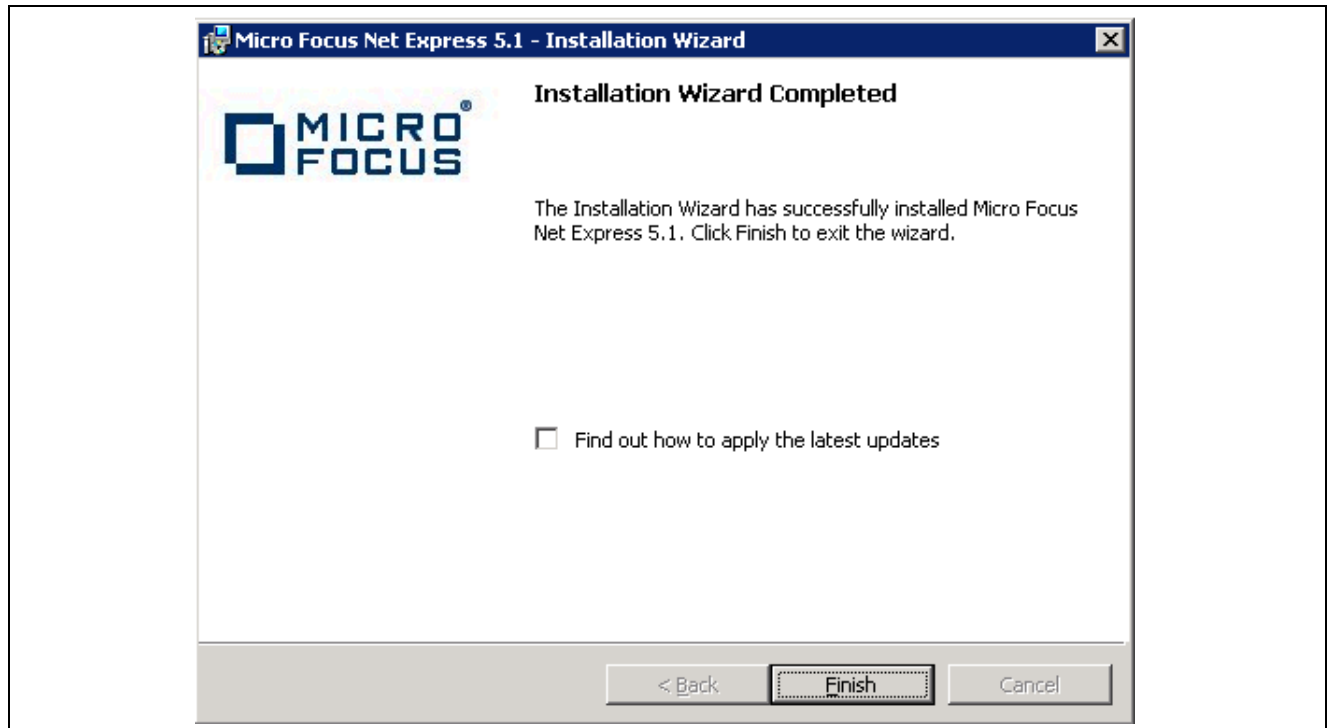
Micro Focus Net Express Installation window: Ready to Install the Program

The installation status window appears, tracking the installation progress.



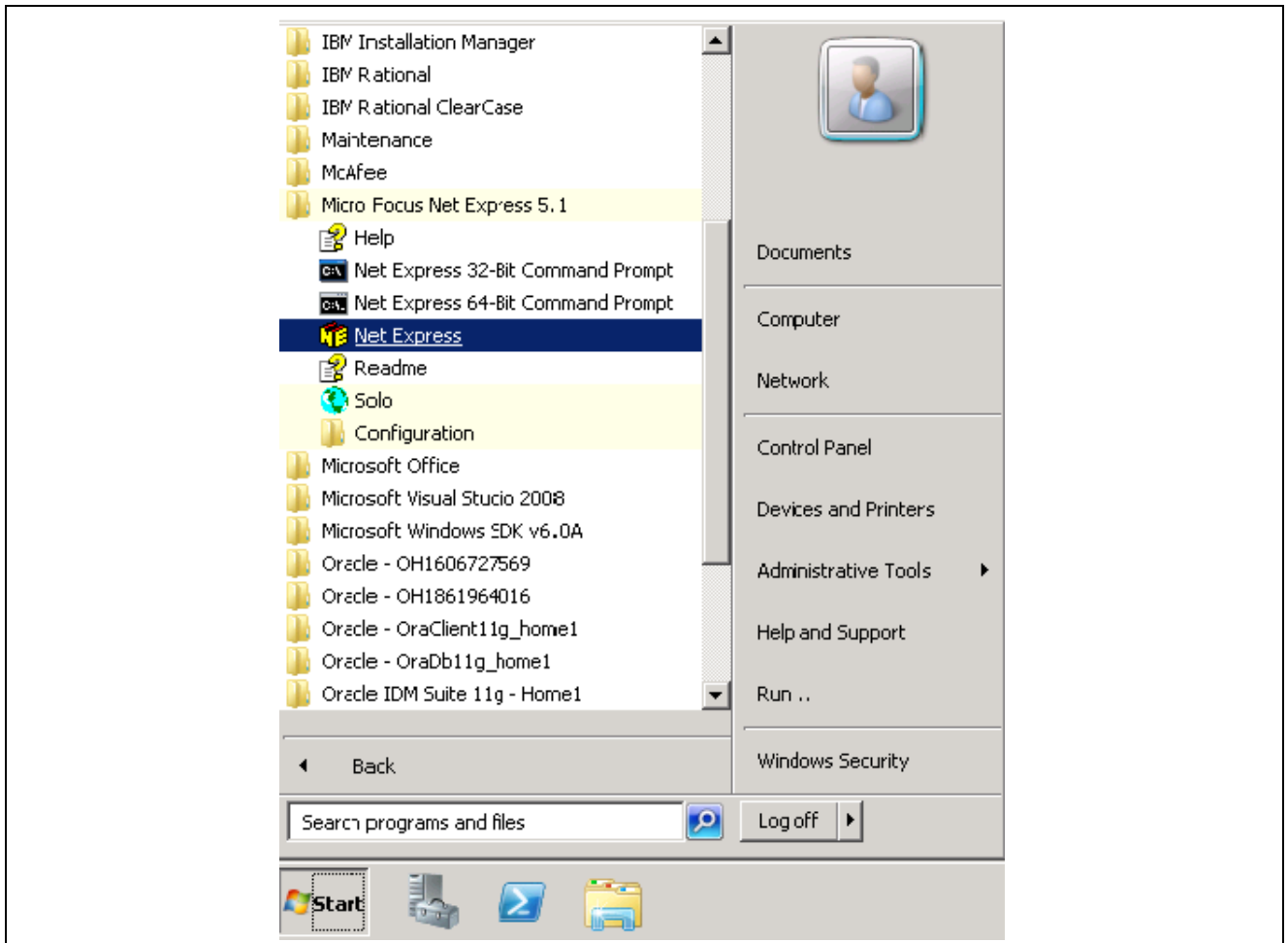
Installation status for the Micro Focus Net Express Installation

10. Click Finish.



Installation Wizard Completed window

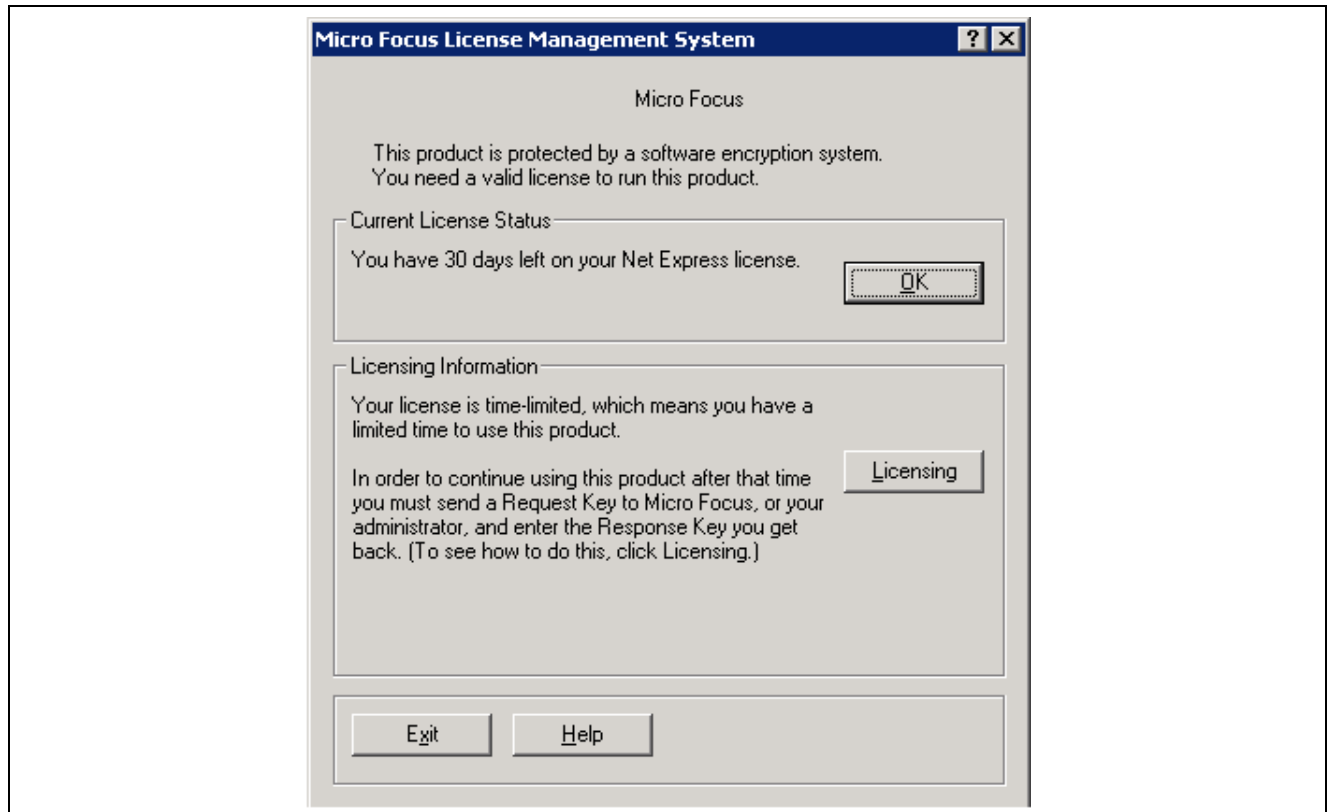
11. To confirm the installation, select Start, All Programs, Micro Focus Net Express 5.1, Net Express.



Selecting Micro Focus Net Express from the Microsoft Windows Start menu

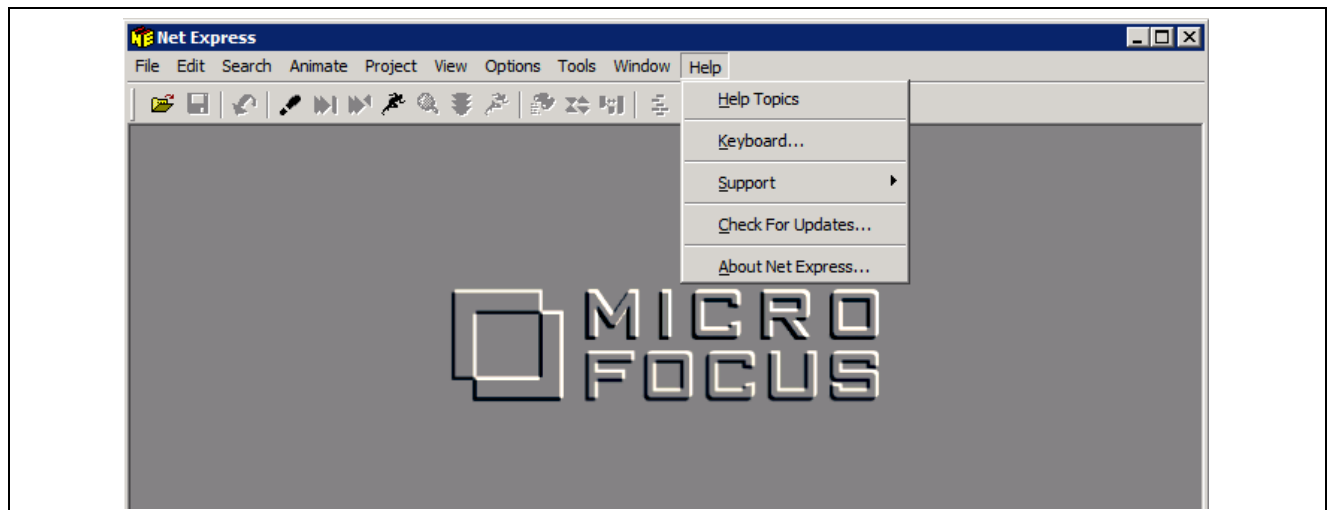
The Net Express Integrated Development Environment (IDE) appears.

12. On the Micro Focus Management System dialog box, read the information under Current License Status, indicating that there is a 30-day license for the compiler that you installed.



Micro Focus License Management System dialog box

13. Click Help, About Net Express.

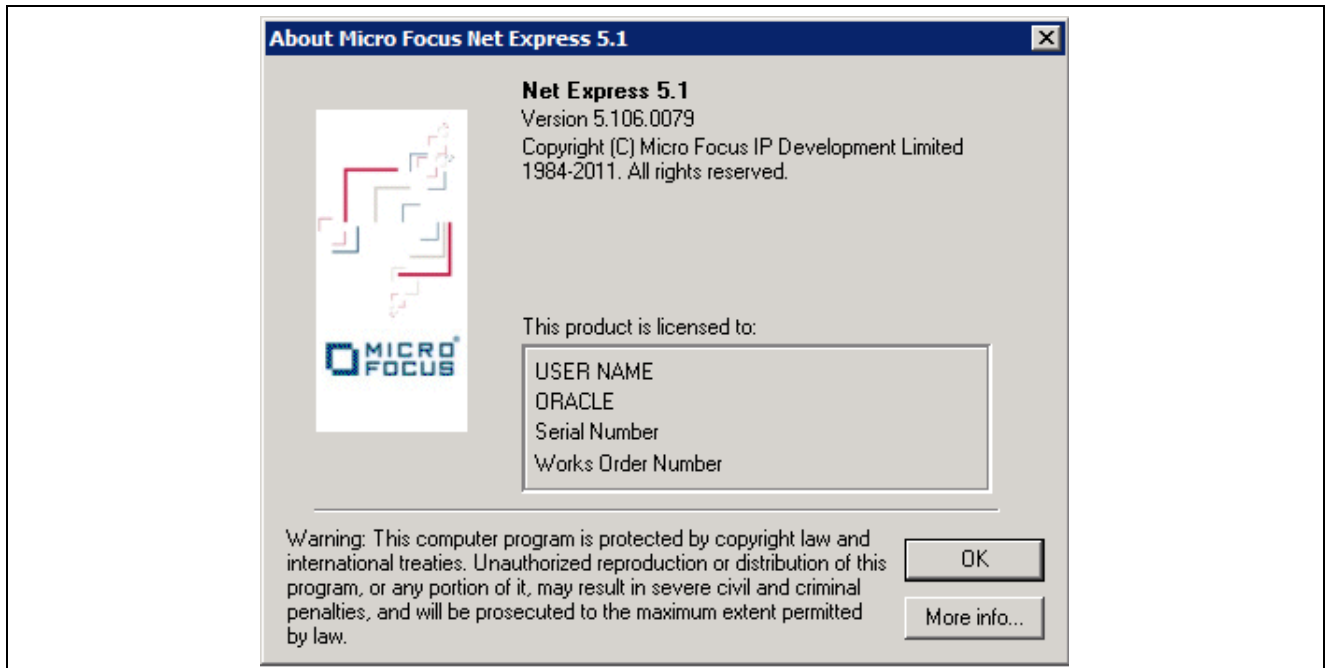


Micro Focus Net Express Integrated Development Environment Help menu

14. Verify that the following information is included on the window that appears:

Net Express 5.1

Version: 5.106.0079



About Micro Focus Net Express window with version number

Now you are ready to use Micro Focus Net Express 5.1 Wrap pack 6 COBOL Compiler.

---

## Task 13-2: Using the Micro Focus COBOL Compiler on Microsoft Windows

This section discusses:

- Understanding COBOL Compilation
- Compiling with a PS\_HOME Setup
- Compiling with a PS\_APP\_HOME Setup
- Compiling with a PS\_CUST\_HOME Setup
- Defining the GNT and INT Files
- Distributing COBOL Binaries

### Understanding COBOL Compilation

With PeopleSoft PeopleTools 8.50 and higher, your COBOL always needs to be compiled on Microsoft Windows. (This is a change from previous versions of PeopleSoft PeopleTools, which delivered compiled COBOL for Microsoft Windows.) This chapter assumes that you are carrying out the compile process from your file server. (The COBOL compiler itself doesn't need to be on the file server, as long as the user can write to the file server and can link to the src and bin directories.) The recommended approach for the PeopleSoft installation is to use CBLBLD.BAT to compile all your COBOL source files at once. Another alternative is CBLMAKE.BAT, which you can use to compile selected COBOL files.

The way that you set up your installation environment determines how you compile COBOL. This section includes different procedures for the different installation environments, as follows:

- *PS\_HOME Setup*

If you installed the PeopleSoft Application software to a *PS\_APP\_HOME* location that is the same as the *PS\_HOME* location where you installed PeopleSoft PeopleTools 8.53, follow the instructions in these sections:

- Compiling with a *PS\_HOME* Setup
- Defining the GNT and INT Files

- *PS\_APP\_HOME Setup*

As described earlier, for PeopleSoft PeopleTools 8.52 and later, you have the option to install the PeopleSoft Application software to a location outside *PS\_HOME*. If the *PS\_APP\_HOME* environment variable is defined and is different from *PS\_HOME*, the COBOL build scripts behave differently under certain build options. There are also some new build options under certain environments which would be recognized if *PS\_APP\_HOME* is defined.

If you installed the PeopleSoft Application software to a *PS\_APP\_HOME* location that is different from the *PS\_HOME* location where you installed PeopleSoft PeopleTools 8.53, follow the instructions in these sections:

- Compiling with a *PS\_APP\_HOME* Setup
- Defining the GNT and INT Files

- *PS\_CUST\_HOME Setup*

For PeopleSoft PeopleTools 8.53 and later, you have the option to place customized COBOL baseline sources into a location referenced by the environment variable *PS\_CUST\_HOME*.

The *PS\_CUST\_HOME* directory structure must replicate that of *PS\_HOME* or *PS\_APP\_HOME*; that is, any COBOL source file that is customized should be placed in the same relative path as was present in the original location.

If your environment includes customized files in a *PS\_CUST\_HOME* directory, follow the instructions in these sections:

- Compiling with a *PS\_CUST\_HOME* Setup
- Defining the GNT and INT Files

Make certain to check whether you need to apply any late-breaking patches.

See My Oracle Support, Patches & Updates.

## See Also

"Preparing for Installation," Defining Installation Locations.

## Task 13-2-1: Compiling with a PS\_HOME Setup

This section discusses:

- Prerequisites
- Compiling with CBLBLD.BAT with a *PS\_HOME* Setup
- Compiling with CBLMAKE.BAT with a *PS\_HOME* Setup



## Prerequisites

This section assumes that you installed both PeopleSoft PeopleTools and PeopleSoft Application software to *PS\_HOME*, and that you have not set *PS\_CUST\_HOME*.

## Compiling with CBLBLD.BAT with a PS\_HOME Setup

To compile COBOL with CBLBLD.BAT:

1. Set up two environment variables, %PS\_HOME% and %COBROOT%, on the machine from which you'll compile COBOL. (This should be either your file server or a machine that has access to your file server.)

You can do this from a command prompt window. This table gives the environment variables and their purposes.

| Environment Variable | Purpose                                                                                                                                      |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| PS_HOME              | PeopleSoft home directory—that is, the drive letter and high-level PeopleSoft directory where you installed PeopleTools and the application. |
| COBROOT              | Drive letter and root directory of the COBOL compiler.                                                                                       |

For example, you could enter the following at the DOS command prompt:

```
set PS_HOME=C:\hr840
set COBROOT="C:\Program Files\Micro Focus\Net Express 5.1\base"
```

2. Open a command prompt window if you do not have one open already, and change directories to *PS\_HOME\setup*.
3. Execute CBLBLD.BAT as follows:

```
cblbld <compile drive> <compile directory>
```

In this command, *<compile drive>* is the drive where the compile takes place, and *<compile directory>* is the temp directory where the compile takes place

The CBLBLD.BAT file will create the compile directory for you if it does not already exist.

---

**Note.** Make sure to include a space between the *<compile drive>* and *<compile directory>* parameters; they are treated as two different parameters within the CBLBLD.BAT batch program. Also ensure that you have write permission to *<compile drive>* and *<compile directory>* as the compile process will take place there.

---

For example, the following command will take the COBOL source from *PS\_HOME\src\cbl* and do the compile process under *c:\temp\compile*:

```
cblbld c: \temp\compile
```

Make note of the information that is displayed on the screen while the process is running; it provides the locations of important files that you will need to examine.

4. After you have successfully compiled your source code, all of the executables should have been placed in your *<PS\_HOME>\CBLBIN<X>* directory (this directory will be named CBLBINA or CBLBINU, depending on whether you are using ANSI or Unicode). Make sure that all of the files were copied correctly to this directory.
5. If the files were copied correctly, you can delete the entire temporary compile directory to free space on your disk drive.

---

**Note.** You may want to keep the files in the compile directory for testing purposes. Make sure that you have enough space on the drive where *<compile directory>* is located. Estimate about three times the amount in the *<PS\_HOME>\CBLBIN<X>* directory.

---



---

**Note.** If you chose the Unicode option while running the PeopleSoft Installer, the file UNICODE.CFG was created in the setup directory. UNICODE.CFG automatically triggers the batch file CBL2UNI.BAT when you run CBLBLD.BAT. Another batch file, CBLRTCPY.BAT, copies four DLLs (CBLINTS.DLL, CBLRTSS.DLL, CBLVIOS.DLL, COB32API.DLL) from the Microfocus compiler directory (identified by %COBROOT% setting) into the appropriate CBLBIN directory (CBLBINA or CBLBINU) when you run CBLBLD. These files are needed for COBOL to run; they can reside anywhere as long as they are in the path. You can run either of these BAT files independently from the command line (they reside in *PS\_HOME\setup*). For CBLRTCPY.BAT you need to specify a target directory.

---

### Compiling with CBLMAKE.BAT with a PS\_HOME Setup

CBLBLD.BAT compiles all your COBOL source files at once, which can take a lot of time. CBLMAKE.BAT, in contrast, lets you employ one or more parameters to compile a specific COBOL source file or a selected group of COBOL source files. Unlike CBLBLD.BAT, however, CBLMAKE.BAT does not automatically trigger the batch file CBL2UNI.BAT or CBLRTCPY.BAT.

Here is the basic syntax for CBLMAKE.BAT:

```
CBLMAKE.BAT [] [ALL] [wildcard filename[ALL]] [wildcard filename | wildcard⇒
filename without extension[INT | GNT | EXE]] [LIST]
```

---

**Note.** The switches are well documented in the CBLMAKE.BAT file in the form of comments.

---



---

**Note.** If the change in the COBOL source is a copy member, you must compile all of the COBOL programs using CBLBLD.BAT. You know it is a copy member when the third letter in the file name is a C, as in PTCSQLRT.CBL.

---

The following table describes the various options for CBLMAKE.BAT.

| Option                    | Purpose                                                     |
|---------------------------|-------------------------------------------------------------|
| Cblmake                   | Compiles all source                                         |
| Cblmake all               | Compiles all source                                         |
| Cblmake PT*               | Compiles all source files that start with PT                |
| Cblmake PT* ALL           | Compiles all source files that start with PT                |
| Cblmake PT* INT           | Generates INT files for all source files that start with PT |
| Cblmake PT* GNT           | Generates GNT files for all source files that start with PT |
| Cblmake PT* EXE           | Generates EXE files for all source files that start with PT |
| Cblmake PTPDBTST INT      | Generates PTPDBTST.INT file                                 |
| Cblmake PTPDBTST INT LIST | Generates PTPDBTST.INT and source listing file              |
| Cblmake PTPDBTST GNT      | Generates PTPDBTST.GNT file                                 |
| Cblmake PTPDBTST EXE      | Generates PTPDBTST.EXE file                                 |

The LIST option creates a source listing file under *<compile directory>\<filename>.lis*. The LIST option is useful when the compile fails during the debugging phase. The source listing files show exactly where an error occurred. This option is not recommended when the program compiles successfully because the .LIS files can grow to be quite large.

---

**Note.** By default, when the program fails to compile, the system will generate a .LIS file.

---

To compile with CBLMAKE.BAT:

1. Verify that the %PS\_HOME% and %COBROOT% environment variables are set up correctly.
2. Open a command prompt window.
3. Make sure the compile directory exists; it may already exist if you've run CBLBLD.BAT. If it does exist, remove any files residing there—just as a safeguard. If it does not exist, you need to create it.

---

**Note.** Make sure you have write permission to *<compile directory>* as the compile process will take place there.

---

4. Change to the *PS\_HOME\setup* directory.
5. If the installation is Unicode, run CBL2UNI (with no parameters).
6. Execute the following command to copy all the COBOL source files from the *PS\_HOME* directory to the compile directory:

```
cblsrc <source directory> <compile directory>
```

where *<source directory>* is the drive and directory where the source resides (it should be the same as *PS\_HOME*), and *<compile directory>* is the drive and directory to which the source files will be copied.

For example, the following command will take the COBOL source from *PS\_HOME* and copy all the necessary files to the location where the compile process will take place.

```
cblsrc PS_HOME c:\temp\compile
```

If the COBOL source that will be compiled is different from the one under *PS\_HOME*, copy that COBOL source to *<compile directory>*.

---

**Note.** The compile in the next step will generate a GNT file unless the exception file, CBLINT.XX already exists (the XX represents the Product ID). CBLINT.XX contains the list of files that need to be compiled to the INT file. Make sure the intended CBLINT.XX is located under *<compile directory>* before executing CBLMAKE.

---

7. After CBLSRC completes, change directories to the compile directory, and run CBLMAKE.BAT, using the basic syntax as well as the CBLMAKE table shown earlier as your guide.
8. After CBLMAKE.BAT completes, copy the EXE, GNT, or INT files to the appropriate *PS\_HOME\CBLBINX* directory (CBLBINA or CBLBINU).

```
copy *.exe PS_HOME\cblbina
copy *.gnt PS_HOME\cblbina
copy *.int PS_HOME\cblbina
```

---

**Note.** You have to copy these files to the appropriate cblbin directory manually when you use CBLMAKE; they are not copied automatically, as when you use CBLBLD.

---

## Task 13-2-2: Compiling with a PS\_APP\_HOME Setup

This section discusses:

- Prerequisites
- Compiling with CBLBLD.BAT with a PS\_APP\_HOME Setup
- Compiling with CBLMAKE.BAT with a PS\_APP\_HOME Setup

### Prerequisites

This section assumes that you installed PeopleSoft application software to a *PS\_APP\_HOME* directory that is different from the *PS\_HOME* directory where you installed PeopleSoft PeopleTools. It also assumes that there is no separate *PS\_CUST\_HOME* directory with customized COBOL source files.

### Compiling with CBLBLD.BAT with a PS\_APP\_HOME Setup

The usage for running CBLBLD.BAT is:

```
cblbld <compile drive> <compile directory> [BUILD_option] [BUILD_home]
```

Substitute the appropriate values as follows:

- <compile drive>  
Enter the drive letter for the drive containing the directory where the compile takes place.
- <compile directory>  
Enter the directory where the compile takes place. Be sure to include a space between <compile drive> and <compile directory>.
- BUILD\_option  
The allowed values are nothing (blank), ASCII or Unicode.  
BUILD\_option refers to the encoding scheme of your PeopleSoft installation. This parameter is optional.
- BUILD\_home  
The allowed values are nothing (blank), PS\_HOME or PS\_APP\_HOME.

---

**Note.** The values PS\_HOME and PS\_APP\_HOME are case-insensitive.

---

BUILD\_home refers to the directory from which the COBOL source files will be compiled.

This parameter is optional.

- If the option is PS\_HOME, the COBOL source files placed under %PS\_HOME%\src\cbl will be compiled.
- If the option is PS\_APP\_HOME, the COBOL source files placed under %PS\_APP\_HOME%\src\cbl will be compiled.
- If the option is blank, the COBOL source files under %PS\_HOME%\src\cbl and COBOL source files under %PS\_APP\_HOME%\src\cbl will be compiled one after the other.

To compile COBOL sources on Microsoft Windows:

1. In a command prompt, set the environment variables described in this table:

| Environment Variable | Purpose                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| PS_HOME              | PeopleSoft PeopleTools home directory—that is, the drive letter and high-level directory where you installed PeopleSoft PeopleTools.              |
| COBROOT              | Drive letter and root directory of the COBOL compiler.                                                                                            |
| PS_APP_HOME          | PeopleSoft Application home directory—that is, the drive letter and high-level directory where you installed the PeopleSoft Application software. |

For example:

```
set PS_HOME=C:\PTcompile
set COBROOT="C:\Program Files\Micro Focus\Net Express 5.1\base"
set PS_APP_HOME=C:\HRcompile
```

2. Change directory to *PS\_HOME*\setup:

```
cd %PS_HOME%\setup
```

3. Run CBLBLD.BAT, using one of these methods:

- To compile all the COBOL source files under your PeopleSoft application, that is, all PeopleSoft PeopleTools source files and all PeopleSoft Application source files, run this command:

```
cblbld <compile drive> <compile directory>
```

For example:

```
cblbld c: \temp\PTcompile
```

- To compile only PeopleSoft PeopleTools COBOL source files, run this command:

```
cblbld <compile drive> <compile directory> PS_HOME
```

For example:

```
cblbld c: \temp\PTcompile PS_HOME
```

- To compile only PeopleSoft Application COBOL source files, run this command:

```
cblbld <compile drive> <compile directory> PS_APP_HOME
```

For example:

```
cblbld c: \temp\HRcompile PS_APP_HOME
```

PeopleSoft PeopleTools COBOL compiled executables will be placed under the *<PS\_HOME>\CBLBIN<X>* directory. PeopleSoft Application COBOL compiled executables will be placed under the *<PS\_APP\_HOME>\CBLBIN<X>* directory. CBLBIN<X> will be one of the following:

- CBLBINA if you are using ANSI encoding scheme
- CBLBINU if you are using Unicode encoding scheme

### Compiling with CBLMAKE.BAT with a PS\_APP\_HOME Setup

CBLBLD.BAT compiles all your COBOL source files at once, which can take a lot of time. CBLMAKE.BAT, in contrast, lets you employ one or more parameters to compile a specific COBOL source file or a selected group of COBOL source files. The procedure is slightly different depending upon whether the file that you want to compile is a PeopleSoft Application or PeopleSoft PeopleTools COBOL file. Both procedures are covered in this section.

---

**Note.** The options for CBLMAKE.BAT are defined in a table in the previous section Compiling with CBLMAKE.BAT with a *PS\_HOME* Setup.

---

To compile a PeopleSoft Application COBOL file with CBLMAKE.BAT:

1. Open a command prompt window.
2. Verify that the *PS\_HOME*, *COBROOT*, and *PS\_APP\_HOME* environment variables are set, as previously defined.

See Compiling with CBLBLD.BAT with a *PS\_APP\_HOME* Setup.

3. Verify that the environment variable *PS\_compile\_apps* is set, as follows:

```
set PS_compile_apps=Y
```

---

**Important!** This variable setting is required for individual file compilation with CBLMAKE.BAT.

---

4. Make sure the compile directory, *<compile directory>*, exists, and that you have write permission to it. This directory may already exist if you have run CBLBLD.BAT before. If it does exist, remove any files residing there—just as a safeguard. If it does not exist, you need to create it.
5. Change to the *PS\_HOME\setup* directory.
6. If the installation is Unicode, run CBL2UNI (with no parameters).
7. Execute the following command to copy all the COBOL source files from the *PS\_APP\_HOME* directory to the compile directory:

```
cblsrc <source directory> <compile directory>
```

Here *<source directory>* is the drive and directory where the source resides (it should be the same as *PS\_APP\_HOME*), and *<compile directory>* is the drive and directory to which the source files will be copied.

For example, the following command will take the COBOL source from *PS\_APP\_HOME* and copy all the necessary files to the location where the compile process will take place, *c:\temp\HRcompile* in this example:

```
cblsrc %PS_APP_HOME% c:\temp\HRcompile
```

---

**Note.** The compile in the next step will generate a GNT file unless the exception file, *CBLINT.XX* already exists (the *XX* represents the Product ID). *CBLINT.XX* contains the list of files that need to be compiled to the INT file. Make sure the intended *CBLINT.XX* is located under *<compile directory>* before executing CBLMAKE.

---

8. After CBLSRC completes, change directories to the compile directory, and run CBLMAKE.BAT, using the basic syntax as well as the CBLMAKE table shown earlier as your guide.

For example, to compile a file named *GPPDPRUN*, run this command:

```
cblmake GPPDPRUN
```

9. After CBLMAKE.BAT completes, copy the EXE, GNT, or INT files to the appropriate *<PS\_APP\_HOME>\CBLBIN<X>* directory (*CBLBINA* for ANSI or *CBLBINU* for Unicode).

These examples use the ANSI encoding:

```
copy *.exe %PS_APP_HOME%\cblbina
```

```
copy *.gnt %PS_APP_HOME%\cblbina
copy *.int %PS_APP_HOME%\cblbina
```

---

**Note.** You have to copy these files to the appropriate cblbin directory manually when you use CBLMAKE; they are not copied automatically, as when you use CBLBLD.

---

10. Verify that the compiler runtime files (CBLINTS.DLL, CBLRTSM.DLL, CBLRTSS.DLL, CBLVIOM.DLL, CBLVIOS.DLL, COB32API.dll, MFLANGDF.lbr) are present in the `<PS_APP_HOME>\CBLBIN<X>` directory.

If they are not present, then you will have to run `%PS_HOME%\setup\cblrtcpy.bat` as follows:

```
cblrtcpy %PS_APP_HOME%\cblbina
```

The procedure to compile a PeopleSoft PeopleTools COBOL file with CBLMAKE.BAT is similar, but the environment variable `PS_compile_apps` must *not* be set.

1. Open a command prompt window.
2. Verify that the `PS_HOME`, `COBROOT`, and `PS_APP_HOME` environment variables are set, as previously defined.

See Compiling with CBLBLD.BAT with a `PS_APP_HOME` Setup.

3. Verify that the environment variable `PS_compile_apps` is *not* set, as follows:

```
set PS_compile_apps=
```

---

**Important!** Unsetting this environment variable is required for individual file compilation with CBLMAKE.BAT for PeopleSoft PeopleTools files.

---

4. Make sure the compile directory, `<compile directory>`, exists, and that you have write permission to it.  
This directory may already exist if you have run CBLBLD.BAT before. If it does exist, remove any files residing there—just as a safeguard. If it does not exist, you need to create it.
5. Change to the `PS_HOME\setup` directory.
6. If the installation is Unicode, run CBL2UNI (with no parameters).
7. Execute the following command to copy all the COBOL source files from the `PS_HOME` directory to the compile directory:

```
cblsrc <source directory> <compile directory>
```

where `<source directory>` is the drive and directory where the source resides (it should be the same as `PS_HOME`), and `<compile directory>` is the drive and directory to which the source files will be copied.

For example, the following command will take the COBOL source from `PS_HOME` and copy all the necessary files to the location where the compile process will take place, `c:\temp\PTcompile` in this example:

```
cblsrc %PS_HOME% c:\temp\PTcompile
```

8. After CBLSRC completes, change directories to the compile directory, and run CBLMAKE.BAT, using the basic syntax as well as the CBLMAKE table shown earlier as your guide.

For example, to compile a file named PTPDBTST, run this command:

```
cblmake PTPDBTST
```

9. After CBLMAKE.BAT completes, copy the EXE, GNT, or INT files to the appropriate <PS\_HOME>\CBLBIN<X> directory (CBLBINA for ANSI or CBLBINU for Unicode).

These examples use the ANSI encoding:

```
copy *.exe %PS_HOME%\cblbina
copy *.gnt %PS_HOME%\cblbina
copy *.int %PS_HOME%\cblbina
```

---

**Note.** You have to copy these files to the appropriate cblbin directory manually when you use CBLMAKE; they are not copied automatically, as when you use CBLBLD.

---

10. Verify that the compiler runtime files (CBLINTS.DLL, CBLRTSM.DLL, CBLRTSS.DLL, CBLVIOM.DLL, CBLVIOS.DLL, COB32API.dll, MFLANGDF.lbr) are present in the <PS\_HOME>\CBLBIN<X> directory.

If they are not present, then you will have to run %PS\_HOME%\setup\cblrtcpy.bat as follows:

```
cblrtcpy %PS_HOME%\cblbina
```

---

**Note.** If you plan to use cblmake.bat to compile a single (or a set) of PeopleSoft PeopleTools or PeopleSoft Application COBOL program at the same time, it would be a good idea to use two different command prompts and two different compile directories—one for PeopleSoft PeopleTools COBOL programs and the other for the PeopleSoft Application COBOL programs. This avoids setting and unsetting the PS\_compile\_apps environment variable.

---

## Task 13-2-3: Compiling with a PS\_CUST\_HOME Setup

This section discusses:

- Prerequisites
- Compiling with CBLBLD.BAT with a PS\_CUST\_HOME Setup
- Compiling with CBLMAKE.BAT with a PS\_CUST\_HOME Setup

### Prerequisites

This section assumes that you installed PeopleSoft application software to a *PS\_APP\_HOME* directory that is different from the *PS\_HOME* directory where you installed PeopleSoft PeopleTools. It also assumes that you have set up a PS\_CUST\_HOME environment variable for customized COBOL source files.

### Compiling with CBLBLD.BAT with a PS\_CUST\_HOME Setup

The usage for running CBLBLD.BAT is:

```
cblbld <compile drive> <compile directory> [BUILD_option] [BUILD_home]
```

Substitute the appropriate values as follows:

- <compile drive>  
Enter the drive letter for the drive containing the directory where the compile takes place.
- <compile directory>  
Enter the directory where the compile takes place. Be sure to include a space between <compile drive> and <compile directory>.



- **BUILD\_option**

The allowed values are nothing (blank), ASCII or Unicode.

BUILD\_option refers to the encoding scheme of your PeopleSoft installation. This parameter is optional.

- **BUILD\_home**

The allowed values are nothing (blank), PS\_HOME, PS\_APP\_HOME, or PS\_CUST\_HOME.

---

**Note.** The values PS\_HOME, PS\_APP\_HOME, and PS\_CUST\_HOME are case-insensitive.

---

BUILD\_home refers to the directory from which the COBOL source files will be compiled.

This parameter is optional.

- If the option is PS\_HOME, the COBOL source files placed under %PS\_HOME%\src\cbl will be compiled.
- If the option is PS\_APP\_HOME, the COBOL source files placed under %PS\_APP\_HOME%\src\cbl will be compiled.
- If the option is PS\_CUST\_HOME, the COBOL source files placed under %PS\_CUST\_HOME%\src\cbl will be compiled.
- If the option is blank, the COBOL source files under %PS\_HOME%\src\cbl, under %PS\_APP\_HOME%\src\cbl (if PS\_APP\_HOME is different from PS\_HOME), and under %PS\_CUST\_HOME%\src\cbl will be compiled one after the other.

To compile COBOL sources on Microsoft Windows:

1. In a command prompt, set the environment variables described in this table:

| Environment Variable                    | Purpose                                                                                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| PS_HOME                                 | PeopleSoft PeopleTools home directory—that is, the drive letter and high-level directory where you installed PeopleSoft PeopleTools.                      |
| PS_APP_HOME (if different from PS_HOME) | PeopleSoft Application home directory—that is, the drive letter and high-level directory where you installed the PeopleSoft Application software.         |
| PS_CUST_HOME                            | PeopleSoft Application customized home directory—that is, the drive letter and high-level directory containing your customized PeopleSoft COBOL programs. |
| COBROOT                                 | Drive letter and root directory of the COBOL compiler.                                                                                                    |

For example:

```
set PS_HOME=C:\PTcompile
set PS_APP_HOME=C:\HRcompile
set COBROOT="C:\Program Files\Micro Focus\Net Express 5.1\base"
set PS_CUST_HOME=C:\CUSTcompile
```

2. Change directory to *PS\_HOME\setup*:

```
cd %PS_HOME%\setup
```

3. Run CBLBLD.BAT, using one of these methods:

- To compile all the COBOL source files under your PeopleSoft application, that is, all PeopleSoft PeopleTools source files, all PeopleSoft Application source files, and all customized PeopleSoft source files, run this command:

```
cblbld <compile drive> <compile directory>
```

For example:

```
cblbld c: \temp\PTcompile
```

- To compile only PeopleSoft PeopleTools and PeopleSoft Application COBOL source files, run this command:

```
cblbld <compile drive> <compile directory> PS_HOME
```

For example:

```
cblbld c: \temp\PTcompile PS_HOME
```

- To compile only customized PeopleSoft Application or PeopleSoft PeopleTools COBOL source files, run this command:

```
cblbld <compile drive> <compile directory> PS_CUST_HOME
```

For example:

```
cblbld c: \temp\CUSTcompile PS_APP_HOME
```

Delivered (that is, non-customized) PeopleSoft PeopleTools and PeopleSoft Application COBOL compiled executables will be placed under the `<PS_HOME>\CBLBIN<X>` directory. Customized PeopleSoft Application or PeopleSoft PeopleTools COBOL compiled executables will be placed under the `<PS_CUST_HOME>\CBLBIN<X>` directory. CBLBIN<X> will be one of the following:

- CBLBINA if you are using ANSI encoding scheme
- CBLBINU if you are using Unicode encoding scheme

### Compiling with CBLMAKE.BAT with a PS\_CUST\_HOME Setup

CBLBLD.BAT compiles all your COBOL source files at once, which can take a lot of time. CBLMAKE.BAT, in contrast, lets you employ one or more parameters to compile a specific COBOL source file or a selected group of COBOL files. The procedure is slightly different depending upon whether the file that you want to compile is a PeopleSoft Application, PeopleSoft PeopleTools, or customized COBOL source file. Both procedures are covered in this section.

---

**Note.** The options for CBLMAKE.BAT are defined in a table in the previous section Compiling with CBLMAKE.BAT with a *PS\_HOME* Setup.

---

To compile a customized COBOL file with CBLMAKE.BAT:

1. Open a command prompt window.
2. Verify that the PS\_HOME, COBROOT, PS\_APP\_HOME (if not the same as PS\_HOME), and PS\_CUST\_HOME environment variables are set, as previously defined.

See Compiling with CBLBLD.BAT with a PS\_CUST\_HOME Setup.

3. Verify that the environment variable PS\_compile\_cust is set, as follows:

```
set PS_compile_cust=Y
```

---

**Important!** This variable setting is required for individual file compilation with CBLMAKE.BAT.

---

4. Ensure that the compile directory, *<compile directory>*, exists, and that you have write permission to it. This directory may already exist if you have run CBLBLD.BAT before. If it does exist, remove any files residing there—just as a safeguard. If it does not exist, you need to create it.
5. Change to the *PS\_HOME\setup* directory.
6. If the installation is Unicode, run CBL2UNI (with no parameters).
7. Execute the following command to copy all the COBOL source files from the *PS\_CUST\_HOME* directory to the compile directory:

```
cblsrc <source directory> <compile directory>
```

Here *<source directory>* is the drive and directory where the source resides (it should be the same as *PS\_CUST\_HOME*), and *<compile directory>* is the drive and directory to which the source files will be copied.

For example, the following command will take the COBOL source files from *PS\_CUST\_HOME* and copy all the necessary files to the location where the compile process will take place, *c:\temp\CUSTcompile* in this example:

```
cblsrc %PS_CUST_HOME% c:\temp\CUSTcompile
```

---

**Note.** The compile in the next step will generate a GNT file unless the exception file, CBLINT.XX already exists (the XX represents the Product ID). CBLINT.XX contains the list of files that need to be compiled to the INT file. Make sure the intended CBLINT.XX is located under *<compile directory>* before executing CBLMAKE.

---

8. After CBLSRC completes, change directories to the compile directory, and run CBLMAKE.BAT, using the basic syntax as well as the CBLMAKE table shown earlier as your guide.

For example, to compile a file named GPPDPRUN, run this command:

```
cblmake GPPDPRUN
```

9. After CBLMAKE.BAT completes, copy the EXE, GNT, or INT files to the appropriate *<PS\_CUST\_HOME>\CBLBIN<X>* directory (CBLBINA for ANSI or CBLBINU for Unicode).

These examples use the ANSI encoding:

```
copy *.exe %PS_CUST_HOME%\cblbina
copy *.gnt %PS_CUST_HOME%\cblbina
copy *.int %PS_CUST_HOME%\cblbina
```

---

**Note.** You have to copy these files to the appropriate cblbin directory manually when you use CBLMAKE; they are not copied automatically, as when you use CBLBLD.

---

10. Verify that the compiler runtime files (CBLINTS.DLL, CBLRTSM.DLL, CBLRTSS.DLL, CBLVIOM.DLL, CBLVIOS.DLL, COB32API.dll, MFLANGDF.lbr) are present in the *<PS\_CUST\_HOME>\CBLBIN<X>* directory.

If they are not present, then you will have to run *%PS\_HOME%\setup\cblrtcpy.bat* as follows:

```
cblrtcpy %PS_CUST_HOME%\cblbina
```

The procedure to compile a PeopleSoft PeopleTools COBOL file with CBLMAKE.BAT is similar, but the environment variable *PS\_compile\_cust* must *not* be set.

1. Open a command prompt window.
2. Verify that the PS\_HOME, COBROOT, and PS\_APP\_HOME environment variables are set, as previously defined.

See Compiling with CBLBLD.BAT with a PS\_APP\_HOME Setup.

3. Verify that the environment variable PS\_compile\_cust is *not* set, as follows:

```
set PS_compile_cust=
```

---

**Important!** Unsetting this environment variable is required for individual file compilation with CBLMAKE.BAT for PeopleSoft PeopleTools files.

---

4. Make sure the compile directory, *<compile directory>*, exists, and that you have write permission to it.  
This directory may already exist if you have run CBLBLD.BAT before. If it does exist, remove any files residing there—just as a safeguard. If it does not exist, you need to create it.
5. Change to the PS\_HOME\setup directory.
6. If the installation is Unicode, run CBL2UNI (with no parameters).
7. Execute the following command to copy all the COBOL source files from the PS\_HOME directory to the compile directory:

```
cblsrc <source directory> <compile directory>
```

Here *<source directory>* is the drive and directory where the source resides (it should be the same as PS\_HOME), and *<compile directory>* is the drive and directory to which the source files will be copied.

For example, the following command will take the COBOL source from PS\_HOME and copy all the necessary files to the location where the compile process will take place, c:\temp\PTcompile in this example:

```
cblsrc %PS_HOME% c:\temp\PTcompile
```

8. After CBLSRC completes, change directories to the compile directory, and run CBLMAKE.BAT, using the basic syntax as well as the CBLMAKE table shown earlier as your guide.

For example, to compile a file named PTPDBTST, run this command:

```
cblmake PTPDBTST
```

9. After CBLMAKE.BAT completes, copy the EXE, GNT, or INT files to the appropriate *<PS\_HOME>\CBLBIN<X>* directory (CBLBINA for ANSI or CBLBINU for Unicode).

These examples use the ANSI encoding:

```
copy *.exe %PS_HOME%\cblbina
copy *.gnt %PS_HOME%\cblbina
copy *.int %PS_HOME%\cblbina
```

---

**Note.** You have to copy these files to the appropriate cblbin directory manually when you use CBLMAKE; they are not copied automatically, as when you use CBLBLD.

---

10. Verify that the compiler runtime files (CBLINTS.DLL, CBLRTSM.DLL, CBLRTSS.DLL, CBLVIOM.DLL, CBLVIOS.DLL, COB32API.dll, MFLANGDF.lbr) are present in the *<PS\_HOME>\CBLBIN<X>* directory.

If they are not present, then you will have to run %PS\_HOME%\setup\cblrtcpy.bat as follows:

```
cblrtcpy %PS_HOME%\cblbina
```

---

**Note.** If you plan to use cblmake.bat to compile a single (or a set) of PeopleSoft PeopleTools or PeopleSoft Application COBOL program at the same time, it would be a good idea to use two different command prompts and two different compile directories—one for PeopleSoft PeopleTools COBOL programs and the other for the PeopleSoft Application COBOL programs. This avoids setting and unsetting the PS\_compile\_cust environment variable.

---

## Task 13-2-4: Defining the GNT and INT Files

By default, the compile generates a GNT file unless the exception file, CBLINT.XX already exists. CBLINT.XX contains the list of files that need to be compiled to the INT file.

---

**Note.** The INT exception file is sometimes needed to overcome Micro Focus execution error with GNT files.

---

For example, the exception file, CBLINT.PT, where *PT* represents PeopleTools, would contain the following information:

```
Call cblcrint <file name without file extension>
```

or:

```
Call cblcprint PTPDBTST
```

## Task 13-2-5: Distributing COBOL Binaries

After you have compiled your COBOL, you must transfer it to the needed locations. The required action depends upon how you set up *PS\_HOME*, *PS\_APP\_HOME*, and *PS\_CUST\_HOME*.

- *PS\_HOME* Setup

If the *PS\_APP\_HOME* location is the same as the *PS\_HOME* location:

Copy the contents of <*PS\_HOME*>\CBLBIN<*X*> (CBLBINA or CBLBINU) directory into <*PS\_HOME*>\CBLBIN<*X*> (CBLBINA or CBLBINU) on your batch and application server machines.

- *PS\_APP\_HOME* Setup

If the *PS\_APP\_HOME* location is different than the *PS\_HOME* location:

- Copy the contents of <*PS\_HOME*>\CBLBIN<*X*> (CBLBINA or CBLBINU) directory into <*PS\_HOME*>\CBLBIN<*X*> (CBLBINA or CBLBINU) on your batch and application server machines.
- Copy the contents of <*PS\_APP\_HOME*>\CBLBIN<*X*> (CBLBINA or CBLBINU) directory into <*PS\_APP\_HOME*>\CBLBIN<*X*> (CBLBINA or CBLBINU) on your batch and application server machines.

- *PS\_CUST\_HOME* Setup

If you have customized files in *PS\_CUST\_HOME*:

- Copy the contents of <*PS\_HOME*>\CBLBIN<*X*> (CBLBINA or CBLBINU) directory into <*PS\_HOME*>\CBLBIN<*X*> (CBLBINA or CBLBINU) on your batch and application server machines.

- b. If *PS\_APP\_HOME* is different from *PS\_HOME*, copy the contents of *<PS\_APP\_HOME>\CBLBIN<X>* (CBLBINA or CBLBINU) directory into *<PS\_APP\_HOME>\CBLBIN<X>* (CBLBINA or CBLBINU) on your batch and application server machines.
- c. Copy the contents of *<PS\_CUST\_HOME>\CBLBIN<X>* (CBLBINA or CBLBINU) directory into *<PS\_CUST\_HOME>\CBLBIN<X>* (CBLBINA or CBLBINU) on your batch and application server machines.

---

## Task 13-3: Installing IBM COBOL for Microsoft Windows

This section discusses:

- Understanding the IBM Rational Developer for System Z Installation
- Prerequisites
- Installing IBM Rational Developer for System z on Microsoft Windows

### Understanding the IBM Rational Developer for System Z Installation

Beginning with PeopleSoft PeopleTools 8.51, you can use IBM® Rational® Developer for System z, in addition to Micro Focus Net Express, as a COBOL compiler on Microsoft Windows for PeopleSoft PeopleTools. The Prerequisites section includes information on obtaining IBM Rational Developer for System z.

---

**Note.** This section sometimes refers to IBM Rational Developer for System z simply as the “IBM compiler.”

---

The PeopleSoft COBOL sources have had minor changes to accommodate compiler requirements but are largely the same whether you are using the compiler from Micro Focus or IBM. The current Micro Focus processes have not been altered. If you have modified your COBOL sources, you can use a simple “diff” process to compare the Micro Focus version from previous releases with the new version. You will find that the changes are very slight, and do not affect functionality, but are more along the lines of compliance with initialization of variables and other minor details. Updating modified COBOL sources should be relatively straightforward.

The key area where the Micro Focus and IBM compilers differ is in how they manage the source objects. The IBM compiler behaves much more like a C compiler, and the use of the *nmake* system that comes with the IBM compiler is utilized. IBM Rational Developer for System z does require the linking of referenced objects, so objects are accounted for in the software development kit (SDK) make system Oracle provides for your PeopleSoft installation. The first thing that you will notice is that you will not be executing scripts in the compilation of the product. Instead, you will be using the SDK that we have provided. However, the sources being used will still be located in *PS\_HOME\src\cbl* as before. The sources are common to both the Micro Focus and IBM compilers. Where there are differences, the alternative version is located in *PS\_HOME\src\cbl\ibm*, and our SDK make process will copy in the required alternate objects at compile time.

The runtime behavior is the same between the two COBOL products. However, the IBM product runtime does not require licensing. The runtime component for the IBM product can also be obtained from the compiler. The SDK make system will copy the IBM runtime components in *COBSHIP.zip* from the compiler to your compiled output directory, to ensure that you are using the latest version of the runtime. The compiler does not need to be present on the target runtime server; it is only used to compile the COBOL programs.

See Using the IBM COBOL Compiler on Microsoft Windows, Distributing the Compiled Files.

You can compile with both IBM Rational Developer for System z and Micro Focus Net Express compilers within the same installation, and they can co-exist and be used against the same database instance. To do this you would need to set up different application server domains, setting up discrete environment variables and configuration files, as the two compilers cannot be invoked within the same domain.

See Using the IBM COBOL Compiler on Microsoft Windows, Setting Up the Environment for COBOL Runtime.

## Prerequisites

To install and use IBM Rational Developer for System z, you must have the following:

- PeopleSoft PeopleTools 8.51 or later release

We recommend that you take the latest available PeopleSoft PeopleTools patch level. You should install PeopleSoft PeopleTools and your PeopleSoft application software before you compile the IBM Rational Developer for System z COBOL source files.

- The runtime configuration assumes that your Oracle Tuxedo inter process communication (IPC) service was set up to run with a System account.
- IBM Rational Developer for System z version 7.6.0 or later.

You must obtain IBM Rational Developer for System z compiler from your IBM vendor. Obtain the installation documentation and review the information on installation methods. The following installation instructions assume that you have the IBM installation files and installation documentation. Review the information on planning your installation, but use the instructions in this document to carry out the installation. Contact your IBM representative to obtain the software.

See <http://www-01.ibm.com/software/rational/products/developer/systemz/#>

See <http://www.elink.ibm.link.ibm.com/publications/servlet/pbi.wss?CTY=US&FNC=SRX&PBL=GI11-8297-02>

- Perl

Perl is used to perform conversions required on source files for the IBM COBOL compiler. For Microsoft Windows either Strawberry Perl or ActiveState's Active Perl can be used:

- Strawberry Perl can be downloaded from the following web site: <http://strawberryperl.com>.
- Active Perl can be downloaded from the following web site: <http://www.activestate.com/activeperl/downloads/>

- Zip utility

A zip utility is required to extract IBM Runtime Library components. You can use one of the following utilities:

- Corel Corporation's WinZip® can be downloaded from the following web site: <http://www.winzip.com/index.htm>
- PKWARE®'s PKZip can be downloaded from the following web site: <http://www.pkware.com>
- 7-Zip can be downloaded from the following web site: <http://www.7-zip.org>

## Task 13-3-1: Installing IBM Rational Developer for System z on Microsoft Windows

This procedure explains how to install IBM Rational Developer for System z in order to use it with your PeopleSoft PeopleTools installation. This procedure assumes that the installation media is available in a local drive called *RD\_INSTALL*.

---

**Note.** There are two parts to this procedure. Be sure to continue after you see the first installation successful message.

---

To install IBM Rational Developer for System z:

1. Double-click *RD\_INSTALL/launchpad.exe*
2. Select Install Rational Developer for System Z on the left.
3. Select the Service Developer link as the type of installation.

---

**Note.** Do not select System z Traditional Developer.

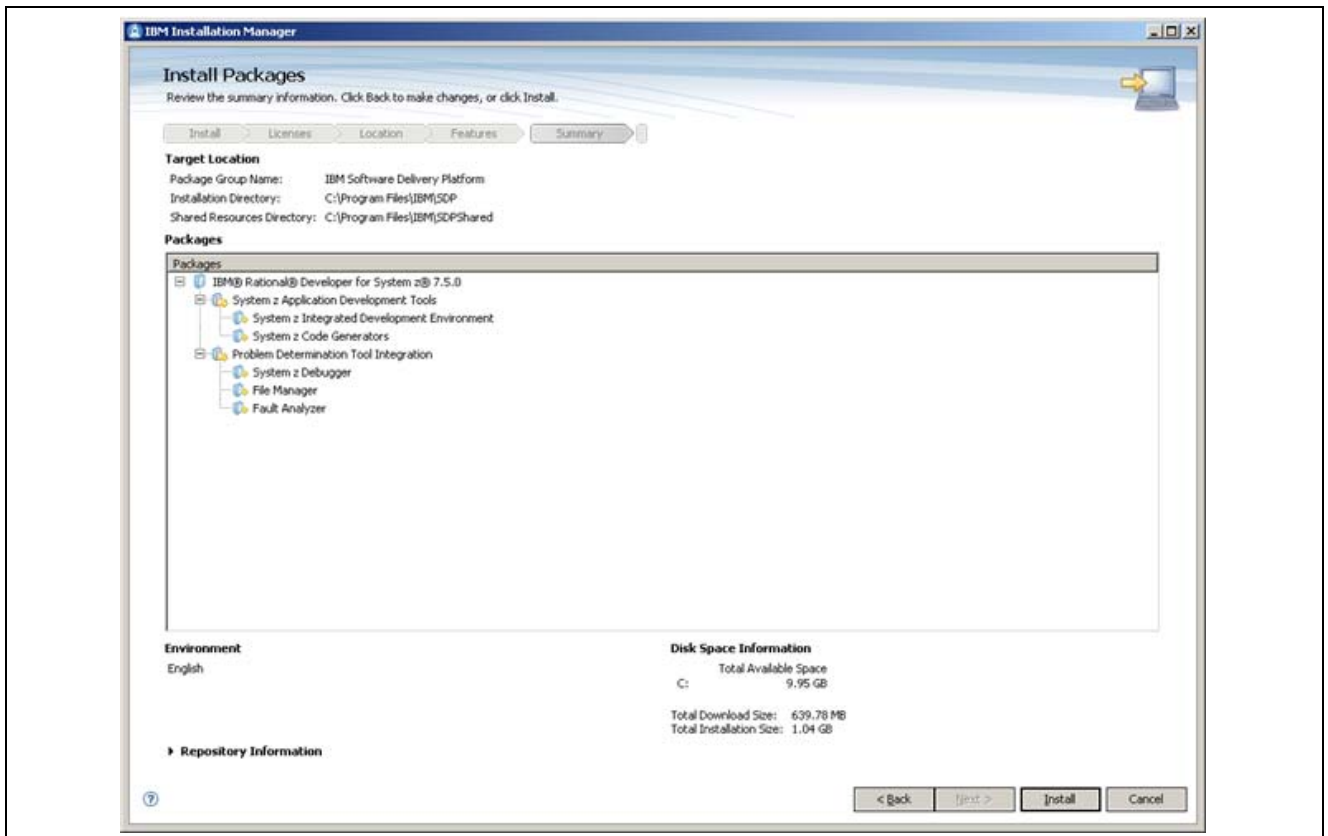
---

The IBM Installation Manager opens.

4. Click Next on the Install Packages window.
5. On the Install Packages window, verify that the check boxes for IBM Installation Manager, IBM® Rational® Developer for System z®, and Version 7.X.0 are selected (X represents the point release you are installing) and click Next.
6. Accept the license agreement and click Next.
7. Accept the default value for the Shared Resource Directory and click Next.
8. Accept the option to Create a new package group, accept the default installation directory, and then click Next.
9. On the "...extend an existing version of Eclipse" window, do not select the Extend an existing Eclipse check box.  
Click Next.
10. On the languages selection window, accept the default of English and click Next.
11. On the features selection window, all the check boxes are initially selected. Clear all of the options *except* for the following:
  - System z Application Development Tools
  - System z Integrated Development Environment
  - System z Code Generators
  - Problem Determination Tool Integration
  - System z Debugger
  - File Manager
  - Fault Analyzer
12. Click Next.
13. Verify your selections on the Review the summary information window and click Install.



In this example, the summary includes such information as the components to be installed, the installation directory, and the shared resources directory.



Summary information on the IBM Installation Manager window

14. Click Finish on the window with the message "Success! The installation was successful".

## Task 13-4: Using the IBM COBOL Compiler on Microsoft Windows

This section discusses:

- Using the Make System to Compile the COBOL Sources
- Understanding COBOL Compilation with PeopleSoft Installation Locations
- Compiling COBOL with a PS\_HOME Setup
- Compiling COBOL with a PS\_APP\_HOME Setup
- Compiling COBOL with a PS\_CUST\_HOME Setup
- Cleaning the Build System with a PS\_HOME Setup
- Cleaning the Build System with a PS\_APP\_HOME Setup
- Cleaning the Build System with a PS\_CUST\_HOME Setup
- Troubleshooting COBOL Compiler Issues

- Distributing the Compiled Files
- Setting Up the Environment for COBOL Runtimes

## Using the Make System to Compile the COBOL Sources

As mentioned, the PeopleSoft installation includes an SDK that you use to compile the IBM Rational Developer for System z COBOL sources. This section is only required for those who need to compile the COBOL sources, not for those who only need to run the compiled COBOL.

This section includes different procedures depending upon how you set up your installation environment.

See "Preparing for Installation," Defining Installation Locations.

To compile the IBM Rational Developer for System z COBOL sources, you invoke the `nmake` utility on the command line. The general syntax for `nmake` command line invocation is:

```
nmake [options] [macros] [targets]
```

The `nmake` command line arguments are as follows:

- Options

Currently the only option you can use with the PeopleSoft installation is the `/E` (slash E). The `/E` option instructs the `nmake` utility to override make file variables with environment variables.

- Macros

Macro definitions (commonly referred to as Macros) are a mechanism for passing variables and their values into a make file. Macros are simply specified as name/value pairs on the command line.

For example, to pass the variable `DATA_BASE_TYPE` with a value of "Oracle" into a make file the following macro would be specified:

```
nmake DATA_BASE_TYPE=Oracle
```

Use the following macros to compile IBM Rational Developer for System z COBOL for the PeopleSoft installation:

- `PS_HOME`: The location where you have installed the PeopleSoft installation. You can either enter the `PS_HOME` location in full, or you can use the switch `"/E"`, which will obtain the variable from the environment setting that you specify before beginning the compilation. (See the procedures for compiling COBOL later in this section.)
- `ENCODING`: Select the character encoding type that your installation uses, ANSI or Unicode. If no encoding type is specified on the `nmake` command line, the default is Unicode. For ANSI you will need to override the encoding setting by using the argument `encoding=_ansi`. This table lists the available encoding macro definitions:

| Encoding macro specifications | Description                                                    |
|-------------------------------|----------------------------------------------------------------|
| <code>encoding=</code>        | Unicode encoding (default)                                     |
| <code>encoding=_ansi</code>   | ANSI encoding. Note the initial <code>"_"</code> (underscore). |

- **DBTYPE:** Select the RDBMS platform that you are installing on. If you do not supply a database macro specification, the make utility by default sets “db=ora”. But you can also set it explicitly. The supported RDBMS platforms are listed in this table:

| RDBMS Platform                   | DBTYPE Parameter |
|----------------------------------|------------------|
| DB2 for Linux, UNIX, and Windows | db2              |
| DB2 for z/OS                     | db2              |
| Informix                         | inf              |
| Microsoft SQL Server             | mss              |
| Oracle                           | ora (default)    |
| Sybase                           | syb              |

- **Targets**

A target name (or target) is associated with a makefile rule and instructs the nmake utility to compile and link COBOL programs specified by the target and its sub-targets.

There are nine targets defined for the make system, corresponding to PeopleSoft product families, as shown in this table. The fscm target compiles both the fin and scm targets. The hcm target compiles gp, hr, and py targets. For PeopleSoft PeopleTools 8.53 and later releases, there is an additional target, cust, for customized COBOL sources.

See Understanding COBOL Compilation with PeopleSoft Installation Locations.

| Target | Product Family                         |
|--------|----------------------------------------|
| campus | Campus Solutions                       |
| cust   | Customized COBOL sources               |
| fin    | Financials                             |
| fscm   | Financials and Supply Chain Management |
| gp     | Global Payroll                         |
| hcm    | Human Capital Management               |
| hr     | Human Resources                        |
| py     | Payroll                                |
| scm    | Supply Chain Management                |
| pt     | PeopleSoft PeopleTools                 |

Here are examples of nmake invocations:

- `nmake /E hcm`
  - The /E switch indicates that PS\_HOME will come from the environment variable.
  - The encoding option is the default value (Unicode).
  - The database option is the default value (Oracle).
  - Human Capital Management COBOL programs will be compiled.
- `nmake PS_HOME=%PS_HOME% encoding= hcm`
  - The PS\_HOME macro is used to specify the PS\_HOME value. Note that this specification means that the make file variable PS\_HOME is being assigned the value of the PS\_HOME environment variable.

- The encoding is specified as Unicode, and the option is declared explicitly.
- The database option is the default value (Oracle).
- Human Capital Management COBOL programs will be compiled.
- `nmake PS_HOME=C:\PTcompile encoding=_ansi db=ora hcm`
  - The `PS_HOME` macro is used to specify the *PS\_HOME* value directly.
  - The encoding is specified as ANSI, and the option is declared explicitly.
  - The database is specified as Oracle, and the option is declared explicitly.
  - Human Capital Management COBOL programs will be compiled.

## Understanding COBOL Compilation with PeopleSoft Installation Locations

The way that you set up your installation environment determines how you compile COBOL. This section includes different procedures for the different installation environments, as follows:

- *PS\_HOME Setup*

If you installed the PeopleSoft Application software to a *PS\_APP\_HOME* location that is the same as the *PS\_HOME* location where you installed PeopleSoft PeopleTools 8.53, follow the instructions in these sections:

- Compiling COBOL with a *PS\_HOME* Setup
- Cleaning the Build System with a *PS\_HOME* Setup

- *PS\_APP\_HOME Setup*

As described earlier, for PeopleSoft PeopleTools 8.52 and later, you have the option to install the PeopleSoft Application software to a location outside *PS\_HOME*. If the *PS\_APP\_HOME* environment variable is defined and is different from *PS\_HOME*, compiling a PeopleSoft product family does not compile PeopleSoft PeopleTools (target pt) COBOL programs automatically. You will need to invoke `nmake` separately to compile PeopleSoft Application COBOL programs and PeopleSoft PeopleTools COBOL programs.

If you installed the PeopleSoft Application software to a *PS\_APP\_HOME* location that is different from the *PS\_HOME* location where you installed PeopleSoft PeopleTools 8.53, follow the instructions in these sections:

- Compiling COBOL with a *PS\_APP\_HOME* Setup
- Cleaning the Build System with a *PS\_APP\_HOME* Setup

- *PS\_CUST\_HOME Setup*

For PeopleSoft PeopleTools 8.53 and later, you have the option to place customized COBOL baseline sources into a location referenced by the environment variable *PS\_CUST\_HOME*.

The *PS\_CUST\_HOME* directory structure must replicate that of *PS\_HOME* or *PS\_APP\_HOME*; that is, any COBOL source file that is customized should be placed in the same relative path as was present in the original location.

There is one additional target, `cust`, defined to build customized COBOL sources. If you set up a *PS\_CUST\_HOME* directory for your customized COBOL source files, follow the instructions in these sections:

- Compiling COBOL with a *PS\_CUST\_HOME* Setup

- Cleaning the Build System with a PS\_CUST\_HOME Setup

## Task 13-4-1: Compiling COBOL with a PS\_HOME Setup

If you have installed the PeopleSoft Application software in the same directory (*PS\_APP\_HOME*) where you installed your PeopleSoft PeopleTools software installation directory (*PS\_HOME*), follow these steps to do the COBOL compilation. These instructions assume that you have not set up a *PS\_CUST\_HOME* location.

To compile the COBOL sources:

1. Select Start, Programs, IBM Software Delivery Platform, IBM Rational Developer for System z, Command Environment for Local Compilers.

A command prompt opens.

2. Set the environment variable for *PS\_HOME*, the directory where you installed the PeopleSoft software; for example:

```
set PS_HOME = C:\PTcompile
```

3. Change the directory to *PS\_HOME\sdk\cobol*; for example:

```
cd %PS_HOME%\sdk\cobol
```

4. Run the nmake command; for example:

```
nmake /E hcm
```

or

```
nmake PS_HOME=%PS_HOME% hcm encoding=_ansi db=ora
```

If you encounter any problems with the compilation, see the section Troubleshooting COBOL Compiler Issues.

## Task 13-4-2: Compiling COBOL with a PS\_APP\_HOME Setup

If you have installed the PeopleSoft Application software in a directory (*PS\_APP\_HOME*) that is different than the PeopleSoft PeopleTools software installation directory (*PS\_HOME*), follow these steps to do the COBOL compilation. These instructions assume that you have not set up a *PS\_CUST\_HOME* location.

To compile the COBOL sources:

1. Ensure that *sdk\cobol\pschl<apps>* is present under *PS\_APP\_HOME* for the application you are trying to compile.

For example if the PeopleSoft Application is Human Capital Management (that is, *<apps> = hcm*), then the following directory structure should be present and the user must have write access to it:

```
sdk\cobol\pschlhcm
```

2. Select Start, Programs, IBM Software Delivery Platform, IBM Rational Developer for System z, Command Environment for Local Compilers.

A command prompt opens.

3. Set the environment variable for *PS\_HOME*, the directory where you installed the PeopleSoft software; for example:

```
set PS_HOME = C:\PTcompile
```

4. Set the environment variable for *PS\_APP\_HOME*, the directory where you installed the PeopleSoft Application software, such as Human Capital Management or Financials/Supply Chain Management; for example:

```
set PS_APP_HOME = C:\HRcompile
```

5. Change the directory to *PS\_HOME\sdk\cobol*; for example:

```
cd %PS_HOME%\sdk\cobol
```

6. Run the *nmake* command; for example:

```
nmake /E hcm
```

or

```
nmake PS_HOME=%PS_HOME% PS_APP_HOME=%PS_APP_HOME% hcm encoding=_ansi db=ora
```

If you encounter any problems with the compilation, see the section *Troubleshooting COBOL Compiler Issues*.

### Task 13-4-3: Compiling COBOL with a *PS\_CUST\_HOME* Setup

This section assumes that you have set up a *PS\_CUST\_HOME* location containing your customized COBOL source files.

To compile the COBOL sources:

1. Select Start, Programs, IBM Software Delivery Platform, IBM Rational Developer for System z, Command Environment for Local Compilers.

A command prompt opens.

2. Set the environment variable for *PS\_HOME*, the directory where you installed the PeopleSoft software; for example:

```
set PS_HOME = C:\PTcompile
```

3. If *PS\_APP\_HOME* is not the same as *PS\_HOME*, set the environment variable for *PS\_APP\_HOME*, the directory where you installed the PeopleSoft Application software, such as Human Capital Management or Financials/Supply Chain Management; for example:

```
set PS_APP_HOME = C:\HRcompile
```

4. Set the environment variable for *PS\_CUST\_HOME*, the directory containing your customized COBOL source files; for example:

```
set PS_CUST_HOME = C:\CUSTcompile
```

5. Change the directory to *PS\_HOME\sdk\cobol*; for example:

```
cd %PS_HOME%\sdk\cobol
```

6. Run the *nmake* command; for example:

```
nmake /E cust
```

or

```
nmake PS_HOME=%PS_HOME% PS_CUST_HOME=%PS_CUST_HOME% cust encoding=_ansi db=ora
```

If you encounter any problems with the compilation, see the section *Troubleshooting COBOL Compiler Issues*.

## Task 13-4-4: Cleaning the Build System with a PS\_HOME Setup

If you encounter a failure when compiling, the first recommendation is to clean the directories and files, and rerun the build.

The first time a COBOL compilation build is run, for example with a product family target HCM, the following directories are created and populated:

- *PS\_HOME*\sdk\cobol\pscbhlhcm\bin
- *PS\_HOME*\sdk\cobol\pscbhlhcm\lib
- *PS\_HOME*\sdk\cobol\pscbhlhcm\src
- *PS\_HOME*\sdk\cobol\pscbhlhcm\psgp.win
- *PS\_HOME*\sdk\cobol\pscbhlhcm\pshr.win
- *PS\_HOME*\sdk\cobol\pscbhlhcm\pspy.win
- *<PS\_HOME>*\CBLBIN\_IBM<X>, where X is U for Unicode and A for ANSI character encoding types.

Similarly the target fscm compiles both fin and scm targets. The *PS\_HOME*\sdk\cobol\pscbfscm\bin, *PS\_HOME*\sdk\cobol\pscbfscm\lib, and *PS\_HOME*\sdk\cobol\pscbfscm\src directories are shared for fin and scm. So if you initially compiled the fin target (nmake /E fin) and then compiled the scm target (nmake /E scm), the source COBOL programs for both targets would reside in the *PS\_HOME*\sdk\cobol\pscbfscm\src directory and the resulting executables would reside in *PS\_HOME*\sdk\cobol\pscbfscm\bin and in the *<PS\_HOME>*\CBLBIN\_IBM<X> directories. There are two versions of the .win directories—*PS\_HOME*\sdk\cobol\pscbfscm\psfin.win and *PS\_HOME*\sdk\cobol\psdblfscm\psscm.win.

Cleaning the directories simply deletes all the files from the directories. And subsequently, when the build is rerun, fresh copies of the files are copied from *PS\_HOME*\src\cbl\base and *PS\_HOME*\src\cbl\ibm to the *PS\_HOME*\sdk\cobol\pscbfscm\src directory.

To use the nmake utility to clean the build directories, use the options listed in this table:

| Option           | Compilation Directories Cleaned        |
|------------------|----------------------------------------|
| cleanpt          | PeopleSoft PeopleTools                 |
| cleanhcm         | Human Capital Management               |
| cleanfscm        | Financials and Supply Chain Management |
| cleancblbin_ibmu | <i>PS_HOME</i> \CBLBIN_IBMU            |
| cleancblbin_ibma | <i>PS_HOME</i> \CBLBIN_IBMA            |

**Note.** Since these directories are shared across all product families, cleaning them will require recompiling for all of the product families that are installed on your system. You should clean the *<PS\_HOME>*\CBLBIN\_IBM<X> directories only in cases where COBOL programs are failing and it is suspected that an incorrect or outdated version of the executable is the cause. Or, in the case where you want to recompile the COBOL for all of your product families and ensure all the old versions of the programs are deleted prior to recompiling.

For example, if you want to clean FSCM directories, assuming the PS\_HOME environment variable is set in your environment, use this command:

```
nmake /E cleanfscm
```

If you want to clean the CBLBIN\_IBMU directory, use this command:

```
nmake /E cleancblbin_ibmu
```

## Task 13-4-5: Cleaning the Build System with a PS\_APP\_HOME Setup

If you encounter a failure when compiling, the first recommendation is to clean the directories and rerun the build. The previous section lists the directories that are created when a COBOL build is compiled.

To use the nmake utility to clean the build directories, use the options listed in this table:

| Option              | Compilation Directories Cleaned        |
|---------------------|----------------------------------------|
| cleanpt             | PeopleSoft PeopleTools                 |
| cleanhcm            | Human Capital Management               |
| cleanfscm           | Financials and Supply Chain Management |
| cleancblbin_ibmu    | <i>PS_HOME</i> \CBLBIN_IBMU            |
| cleancblbin_ibma    | <i>PS_HOME</i> \CBLBIN_IBMA            |
| cleanappcblbin_ibmu | <i>PS_APP_HOME</i> \CBLBIN_IBMU        |
| cleanappcblbin_ibma | <i>PS_APP_HOME</i> \CBLBIN_IBMA        |

For example, if you want to clean FSCM directories, assuming the PS\_APP\_HOME environment variable is set in your environment, use this command:

```
nmake /E cleanfscm
```

If you want to clean the PeopleSoft PeopleTools CBLBIN\_IBMU directory, use this command:

```
nmake /E cleancblbin_ibmu
```

If you want to clean the PeopleSoft Application CBLBIN\_IBMU directory, use this command:

```
nmake /E cleanappcblbin_ibmu
```

## Task 13-4-6: Cleaning the Build System with a PS\_CUST\_HOME Setup

If you encounter a failure when compiling, the first recommendation is to clean the directories and rerun the build. The previous section lists the directories that are created when a COBOL build is compiled.

To use the nmake utility to clean the build directories, use the options listed in this table:

| Option           | Compilation Directories Cleaned             |
|------------------|---------------------------------------------|
| cleanpt          | PeopleSoft PeopleTools                      |
| cleancust        | <i>PS_CUST_HOME</i> compilation directories |
| cleancblbin_ibmu | <i>PS_HOME</i> \CBLBIN_IBMU                 |
| cleancblbin_ibma | <i>PS_HOME</i> \CBLBIN_IBMA                 |
| cleancustcblbin  | <i>PS_CUST_HOME</i> COBOL binaries          |

For example, if you want to clean the directories containing the customized COBOL binaries, assuming the PS\_CUST\_HOME environment variable is set in your environment, use this command:

```
nmake /E cleancust
```



If you want to clean the PeopleSoft PeopleTools CBLBIN\_IBMU directory, use this command:

```
nmake /E cleancblbin_ibmu
```

## Task 13-4-7: Troubleshooting COBOL Compiler Issues

After running the compilation of the COBOL sources, examine the build targets for the presence of any issues during compilation or linking steps.

You can find the error and list files discussed in this section in the following locations, depending upon your compilation setup:

- If *PS\_APP\_HOME* is the same as *PS\_HOME*, all error and list files mentioned here are placed in directories under *PS\_HOME*.
- If *PS\_APP\_HOME* is different from *PS\_HOME*, and you compile PeopleSoft PeopleTools COBOL source files, the error and list files mentioned here are placed in directories under *PS\_HOME*.
- If *PS\_APP\_HOME* is different from *PS\_HOME*, and you compile PeopleSoft Application COBOL source files, the error and list files mentioned here are placed in directories under *PS\_APP\_HOME*.
- If the *PS\_CUST\_HOME* environment variable is defined, and you compile customized PeopleSoft PeopleTools source files, the error and list files mentioned here are placed in directories under *PS\_CUST\_HOME*.
- If the *PS\_CUST\_HOME* environment variable is defined, *PS\_APP\_HOME* is the same as *PS\_HOME*, and you compile customized PeopleSoft Application source files, the error and list files mentioned here are placed in directories under *PS\_HOME*.
- If the *PS\_CUST\_HOME* environment variable is defined, *PS\_APP\_HOME* is different from *PS\_HOME*, and you compile customized PeopleSoft Application source files, the error and list files mentioned here are placed in directories under *PS\_APP\_HOME*.

In the event of an error, the *<PS\_HOME>\CBLBIN\_IBM<X>* directory will not be populated with the binary files (\*.exe, \*.dll). If you decide that the failing compiled modules are *not* relevant to your project mission, you must manually copy the compiled binaries to your runtime target location. For example:

```
Copy <PS_HOME>\sdk\cobol\psclhcm\bin*. * <PS_HOME>\CBLBIN_IBM<X>
```

To review the cause of the errors, and perhaps fix the compile or linker issues, look in the *PS\_HOME\sdk\cobol\psclhcm\src* folder for the file LISTOUT.LIS. This file contains the report of the compiled objects and the status of the linker steps.

This table includes some common errors that you may see, and the action you should take to correct the error:

| Error Location     | Error Description                                                       | Corrective Action                                                                              |
|--------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| LISTOUT.LIS report | Compiled sources with "Return code" > 4                                 | Use the LineID and IGYxxxxx-E to correct the error in the code and recompile the module.       |
| LISTOUT.LIS report | Linker issues such as error LNK2029: " _PTPNETRT" : unresolved external | Add to the link statement for the module the missing external reference, such as PTPNETRT.lib. |

| Error Location                                                                                                                                                           | Error Description                                                                                                                                                                  | Corrective Action                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Command prompt                                                                                                                                                           | An error condition such as NMAKE : fatal error U1077: 'perl' : return code '1' Stop." 'perl' is not recognized as an internal or external command, operable program or batch file. | Read the requirement for Perl in the Prerequisites section of this chapter. Install the Perl to your machine, and recompile the COBOL sources.         |
| <PS_HOME>\sdk\cobol<br>\pscb\<apps>\src\*.lst<br><br>(<app> is the designation for the PeopleSoft Application product family, such as hcm for Human Capital Management.) | <COBOL_PROGRAM>.lst                                                                                                                                                                | Use the *.lst files to examine individual program errors and Line number diagnostic information, and use the information to correct the errors listed. |

## Task 13-4-8: Distributing the Compiled Files

For the IBM Rational Developer for System z compiler, the default location for the compiled files is <PS\_HOME>\CBLBIN\_IBM<X>.

---

**Note.** The location for files compiled with Micro Focus COBOL is different.

---

This directory includes the following types of files:

- \*.dll
- \*.exe
- cobship\_redistribution.readme
- COBSHIP.zip

We recommend that you replace the COBSHIP.zip file with the one that came with your compiler to ensure you are using the latest runtime executables.

You will need to unzip the COBSHIP.zip file directly into the directory where your COBOL binaries reside (<PS\_HOME>\CBLBIN\_IBM<X>).

This directory is a complete package that can either be executed directly or rebundled (zipped) and distributed for execution on another system. You can either point to the output directly, or you can copy this directory and send it to other systems to use. You do not need IBM COBOL runtime licensing to run COBOL after compiling.

## Task 13-4-9: Setting Up the Environment for COBOL Runtimes

This section discusses:

- Understanding the Runtime Setup for IBM COBOL
- Setting the Runtime Environment Variables
- Setting Environment Variables in a PS\_APP\_HOME or PS\_CUST\_HOME Setup
- Configuring the Application Server
- Configuring the Process Scheduler
- Running the Compiled COBOL from the Command Line

## Understanding the Runtime Setup for IBM COBOL

To configure the COBOL runtime environment you must set several system environment variables and configure the PeopleSoft application server and Process Scheduler to use COBOL. You can set these environment variables from the command line, as System variables in the Microsoft Windows System Properties dialog box, or in a .cmd file.

Configure these environment variables after compiling the IBM Rational Developer for System z COBOL source files. If you distribute the compiled files for use on other systems as mentioned above, you must complete this environment setup on those systems before configuring the PeopleSoft application server and Process Scheduler.

## Setting the Runtime Environment Variables

After you complete the IBM Rational Developer for System z installation, set the following system environment variables. You can set the environment variables in an MS-DOS command window, or using the Microsoft Windows System Properties dialog box. The steps for using the Microsoft Windows System Properties dialog box are given below the list of environment variables.

---

**Note.** These instructions assume that the directory CBLBIN\_IBMU or CBLBIN\_IBMA is installed in *PS\_HOME*.

---

- PS\_HOME

```
set PS_HOME=<drive><PeopleSoft install location>
```

For example:

```
set PS_HOME=C:\PTcompile
```

- There is no space between <drive> and <PeopleSoft install location>.
- If your <PeopleSoft install location> is on a network drive, ensure that TM\_TUXIPC\_MAPDRIVER is set appropriately.

See *PeopleTools: System and Server Administration*, "Managing a Secure PS\_HOME on Windows."

- Even though psadmin sets PS\_HOME for you, you must set it explicitly before running psadmin in order for the variables to resolve correctly and for the IBM Rational Developer for System z COBOLs to run properly.

- NLSPATH

```
set NLSPATH=%TUXDIR%\locale\C;%PS_HOME%\CBLBIN_IBMX\messages\%L\%N;%PS_HOME%\CBLBIN_IBMX\messages\en_US\%N
```

---

**Note.** The symbols %L and %N are IBM invocation constructs for Locale and National depictions. If you are setting these variables in a .cmd file and using the .cmd file to set these variables in your environment, you must use %%L and %%N in the NLSPATH definition rather than %L and %N. See the Oracle Tuxedo documentation for more information.

---

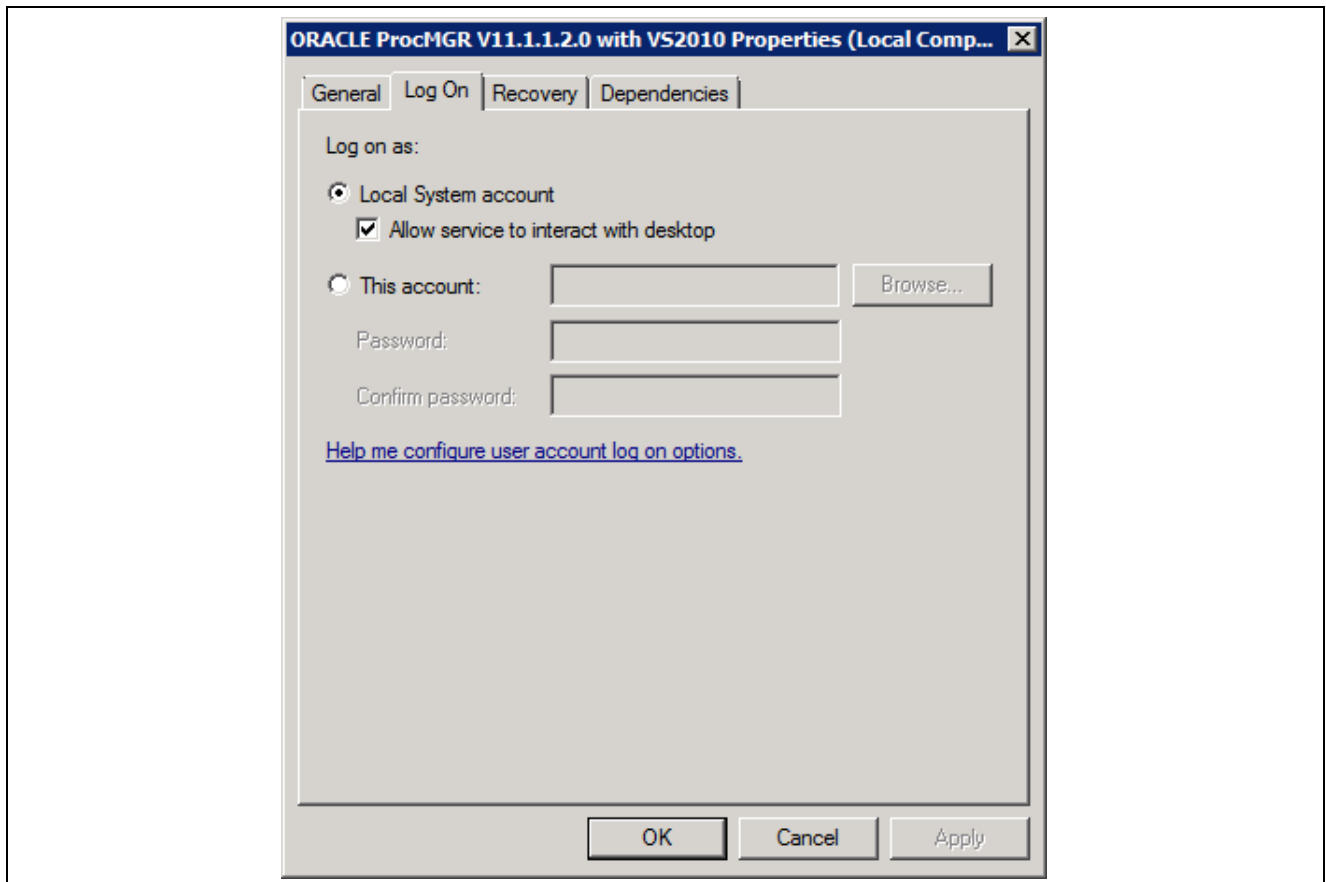
To set a new environment variable from the Microsoft Windows control panel:

1. Select Start, Control Panel, System.
2. Select the Advanced tab, and click Environment Variables.
3. In the System variables area of the Environment Variables dialog box, click New.
4. Enter the new variable name and variable value.

5. Click New and OK.

To set up the Tuxedo account:

1. Select Start, Settings, Control Panel, Administrative Tools.
2. Select Services.
3. Select Oracle ProcMGR V11gR1 VS2010 from the services list.
4. Select the Log On tab.
5. Confirm that the option for Local System account and the check box for Allow service to interact with desktop are selected, as shown in this example:



Oracle ProcMGR V11.1.1.2.0 with VS2010 Properties (Local Computer) dialog box

---

**Note.** To set up ORACLE ProcMGR V11gR1 with VS2010 for an installation environment where PS\_HOME and PS\_CFG\_HOME are different, see the information on securing PS\_HOME and PS\_CFG\_HOME and working with the Oracle ProcMGR Windows Service in the *PeopleTools: System and Server Administration* product documentation.

---

## Setting Environment Variables in a PS\_APP\_HOME or PS\_CUST\_HOME Setup

This section applies to those installations in which:

- You have several Application Server or Process Scheduler domains.
- All of those domains are going to be associated with a particular PS\_APP\_HOME or PS\_CUST\_HOME installation directory.

In this case it is a good idea to define *PS\_APP\_HOME* or *PS\_CUST\_HOME* in the same CMD prompt that you use to start your application server or process scheduler server.

You can also define these variables as system environment variables. If you do this you do not need to add the *PS\_APP\_HOME* or *PS\_CUST\_HOME* environment variable with the “Edit environment variable” option in the Application Server and Process Scheduler administration menus in PSADMIN each time you create a new domain.

## Configuring the Application Server

After setting the system environment variables as described above, use this section to set up the compiled IBM Rational Developer for System z COBOL to use with your PeopleSoft application server.

See "Configuring the Application Server on Windows."

Before running psadmin, check your psadmin environment with the following command:

```
psadmin -env
```

Make sure all your variables are resolved. If not, go back and recheck your work and make any necessary changes. You do not want to see *%VARIABLE%* at this point as it will not be resolved by psadmin. If your NLSPATH is corrupted, you may need to ensure that you are running at a minimum release PeopleSoft PeopleTools 8.52.

You may either make these changes directly to the psappsrv.cfg file or make the changes while configuring the domain using psadmin. If you make the changes directly to psappsrv.cfg, you must still configure the domain using psadmin and make sure your variables are set appropriately as specified above. This is so that your changes to psappsrv.cfg are recognized by Oracle Tuxedo.

See *PeopleTools: System and Server Administration*.

---

**Note.** You must create a new domain to configure the environment for running IBM COBOLs. You will not be able to reuse an existing domain for the same.

---

To modify psappsrv.cfg to create and configure:

1. Go to the *PS\_HOME/appserv* directory and run psadmin.
2. When the menu appears, specify *1* for Application Server and press ENTER.
3. Enter *2* for Create a Domain and press ENTER.
4. Specify the domain name. For example:

```
Please enter name of domain to create : HCM92
```

---

**Note.** Domain names are case-sensitive and must be eight characters or less.

---



---

**Note.** If you have already set the environment variables *PS\_APP\_HOME* and/or *PS\_CUST\_HOME*, as explained in the section Setting Environment Variables in a *PS\_APP\_HOME* or *PS\_CUST\_HOME* Setup, you can skip the steps 5 through 10.

---

5. On the Quick-configure menu, select *15*, Edit environment settings.
6. If your *PS\_APP\_HOME* is different from *PS\_HOME*, carry out the following two steps:

---

**Note.** If *PS\_APP\_HOME* is the same as *PS\_HOME*, skip these two steps and continue with step 7.

---

- a. On the PeopleSoft Domain Environment Settings, select 2 to add environment variable.
- b. Enter *PS\_APP\_HOME* as the name of the environment variable, and the installation directory where you installed the PeopleSoft Application software as the value of the environment variable.

For example:

```
Enter name of environment variable: PS_APP_HOME
Enter value: C:\HCM92
```

7. If your *PS\_CUST\_HOME* is defined and is different from *PS\_HOME*, carry out the following two steps:

---

**Note.** If *PS\_CUST\_HOME* is the same as *PS\_HOME*, skip these two steps and continue with step 8.

---

- a. On the PeopleSoft Domain Environment Settings, select 2 to add environment variable.
- b. Enter *PS\_CUST\_HOME* as the name of the environment variable, and the installation directory where you installed the customized COBOL files as the value of the environment variable.

For example:

```
Enter name of environment variable: PS_CUST_HOME
Enter value: C:\CUSTHome
```

You will see an asterisk in front of the *PS\_APP\_HOME* and *PS\_CUST\_HOME* environment variables, indicating that these variables have not been saved.

8. Select 6 to save the environment variables.
9. Press ENTER to continue at the following message:

```
Your changes have been saved.
Please be aware these changes will not take effect until you complete the⇒
domain configuration process.
Press Enter to continue...
```

10. Enter *q* for Return to previous menu.
11. On the Quick-configure menu, enter *14*, for Custom configuration.
12. Answer *n* (no) when asked if you want to change the values, until you see the section Remote Call.

```
Values for config section - RemoteCall
COBOL Platform=
RCCBL Redirect=0
RCCBL PRDBIN=%PS_HOME%\cblbin%PS_COBOLTYPE%
```

Do you want to change any values (y/n/q)? [n]:

Enter y (yes) to make a change.

13. Enter *IBM* as the COBOL Platform and ignore the remaining options

```
COBOL Platform []:IBM
```

14. Answer *n* (no) when asked if you want to change any of the remaining sections.

15. Enter *1* to boot the domain.
16. Enter *1* for Boot (Serial Boot), *2* for Parallel Boot.

## Configuring the Process Scheduler

After setting the system environment variables as described above, use this section to set up the compiled IBM Rational Developer for System z COBOL to use with your PeopleSoft Process Scheduler.

See "Setting Up Process Scheduler on Windows."

Before running psadmin, check your psadmin environment as with the following command:

```
psadmin -env
```

Make sure all your variables are resolved. If not, go back and recheck your work and make any necessary changes. You do not want to see `%VARIABLE%` at this point as it will not be resolved by psadmin. If your NLSPATH is corrupted, you may need to ensure that you are running at a minimum release PeopleSoft PeopleTools 8.52.

You may either make these changes directly to the psprcs.cfg file or make the changes while configuring the domain using psadmin. If you make the changes directly to psprcs.cfg, you must still configure the domain using psadmin and make sure your variables are set appropriately as specified above. This is so that your changes to psprcs.cfg are recognized by Oracle Tuxedo.

See *PeopleTools: System and Server Administration*.

---

**Note.** You must create a new domain to configure the environment for running IBM COBOLs. You will not be able to reuse an existing domain for the same.

---

To modify psprcs.cfg to create and configure a new domain:

1. Go to the *PS\_HOME/appserv* directory and run psadmin.
2. When the menu appears, specify *2* for Process Scheduler and press ENTER.
3. Enter *2* for Create a Domain.
4. Specify the domain name. For example:

```
Please enter the name of domain to create : HCM92
```

---

**Note.** Domain names are case-sensitive and must be eight characters or less.

---



---

**Note.** If you have already set the environment variables *PS\_APP\_HOME* and/or *PS\_CUST\_HOME*, as explained in the section Setting Environment Variables in a *PS\_APP\_HOME* or *PS\_CUST\_HOME* Setup, you can skip the steps 5 through 10.

---

5. On the Quick-configure menu, select *5*, Edit environment settings.
6. If your *PS\_APP\_HOME* is different from *PS\_HOME*, carry out the following two steps:

---

**Note.** If *PS\_APP\_HOME* is the same as *PS\_HOME*, skip these two steps and continue with step 7.

---

- a. On the PeopleSoft Domain Environment Settings, select *2* to add an environment variable.

- b. Enter `PS_APP_HOME` as the name of the environment variable, and the installation directory where you installed your PeopleSoft Application software as the value of the environment variable.

For example:

```
Enter name of environment variable: PS_APP_HOME
```

```
Enter value: C:\HCM92
```

7. If your `PS_CUST_HOME` is different from `PS_HOME`, carry out the following two steps:

---

**Note.** If `PS_CUST_HOME` is the same as `PS_HOME`, skip these two steps and continue with step 8.

---

- a. On the PeopleSoft Domain Environment Settings, select 2 to add an environment variable.
- b. Enter `PS_CUST_HOME` as the name of the environment variable, and the installation directory where you installed your PeopleSoft Application software as the value of the environment variable.

For example:

```
Enter name of environment variable: PS_CUST_HOME
```

```
Enter value: C:\CUSTHome
```

You will see an asterisk in front of the modified environment variables, because these variables have not been saved.

8. Enter 6 to save the environment variables.
9. Press ENTER to continue at the following message:

```
Your changes have been saved.
```

```
Please be aware these changes will not take effect until you complete the⇒
domain configuration process.
```

```
Press Enter to continue...
```

10. Enter *q* for Return to previous menu.
11. On the Quick-configure menu, enter 4, for Custom configuration.
12. Answer *n* (no) when asked if you want to change the values, until you see the section Remote Call.

```
Values for config section - RemoteCall
```

```
COBOL Platform=
```

```
RCCBL Redirect=0
```

```
RCCBL PRDBIN=%PS_HOME%\cblbin%PS_COBOLTYPE%
```

```
Do you want to change any values (y/n/q)? [n]:
```

Enter y (yes) to make a change.

13. Enter *IBM* as the COBOL Platform and ignore the remaining options

```
COBOL Platform []:IBM
```

14. Answer *n* (no) when asked if you want to change any of the remaining sections.
15. Enter *l* to boot the domain.



## Running the Compiled COBOL from the Command Line

To run the compiled COBOL from the command line, you must first set the following environment variables. In this example, *PS\_APP\_HOME* is different from *PS\_HOME*:

1. Set the environment variables for *PS\_HOME* and *PS\_APP\_HOME*:

```
set PS_HOME=C:\PTcompile
set PS_APP_HOME=C:\HRcompile
```

2. Set the following path environment variables:

```
set PATH=%PATH%;%PS_HOME%\bin\server\winx86;%PS_APP_HOME%\CBLBIN_IBMX;%PS_HOME%\CBLBIN_IBMX;%PS_APP_HOME%\CBLBIN_IBMX\bin
set COBPATH=%PS_APP_HOME%\CBLBIN_IBMX;%PS_HOME%\CBLBIN_IBMX
set NLSPATH=%TUXDIR%\locale\C;%PS_HOME%\CBLBIN_IBMX\messages\%L\%N;%PS_HOME%\CBLBIN_IBMX\messages\en_US\%N
```

3. Set *PS\_SERVER\_CFG*.

*PS\_CFG\_HOME* is the configuration home. By default on Microsoft Windows it points to *%USERPROFILE%\psft\pt\<tools version>*)

See "Preparing for Installation," Planning Your Initial Configuration.

```
set PS_SERVER_CFG=%PS_CFG_HOME%\appserv\prcs\<domain>\psprcs.cfg
```

4. Change to the directory with the compiled files; for example:

```
cd %PS_APP_HOME%\CBLBIN_IBMX
```

5. Use this command to run the program:

```
<COBOL_PROG>.exe <dbtype>/<dbname>/<userid>/<userpasswd>/<runcontrol>/<process_instance>/<sqltrace>/<dbflags>
```

For example:

```
GPPDPRUN.exe ORACLE/Q8529033/QEDMO/QEDMO/1/1/191/0
```



## CHAPTER 14

# Installing PeopleSoft Change Assistant

This chapter discusses:

- Understanding PeopleSoft Change Assistant
- Installing and Configuring PeopleSoft Change Assistant
- Exporting Jobs to XML, HTML, or Microsoft Excel Format
- Validating Change Assistant Settings

---

## Understanding PeopleSoft Change Assistant

Oracle's PeopleSoft Change Assistant is a standalone application that enables you to assemble and organize the steps necessary to apply patches and fixes for maintenance updates. You also use PeopleSoft Change Assistant for software upgrades, that is, the process of moving from one PeopleSoft application release to another PeopleSoft application release. PeopleSoft Change Assistant runs only on Microsoft Windows platforms.

In order to perform reliable and accurate updates, PeopleSoft Change Assistant gathers all the necessary information including the change log from the Environment Management hub. With the environment data available, it is possible to locate the updates that apply to your environment.

You can use CA in concert with PeopleSoft Update Manager to obtain a list of unapplied updates for a given application environment. You can then create a custom change package for these updates.

### See Also

"Using the PeopleSoft Installer," Verifying Necessary Files for Installation on Windows

*PeopleTools: Change Assistant and Update Manager*

*PeopleTools: PeopleSoft Application Designer Lifecycle Management Guide*

---

## Task 14-1: Installing and Configuring PeopleSoft Change Assistant

This section discusses:

- Installing PeopleSoft Change Assistant
- Verifying the Path Variable
- Specifying Options

- Scanning the Workstation

## Task 14-1-1: Installing PeopleSoft Change Assistant

At the end of the installation, you have the option of installing PeopleSoft Change Impact Analyzer. For more information on that installation, see the following chapter.

See "Installing PeopleSoft Change Impact Analyzer."

A Microsoft Windows-based operating system is required to use PeopleSoft Change Assistant.

If you installed PeopleSoft PeopleTools on a UNIX or Linux computer, you can copy setup.exe to a Microsoft Windows machine to install PeopleSoft Change Assistant.

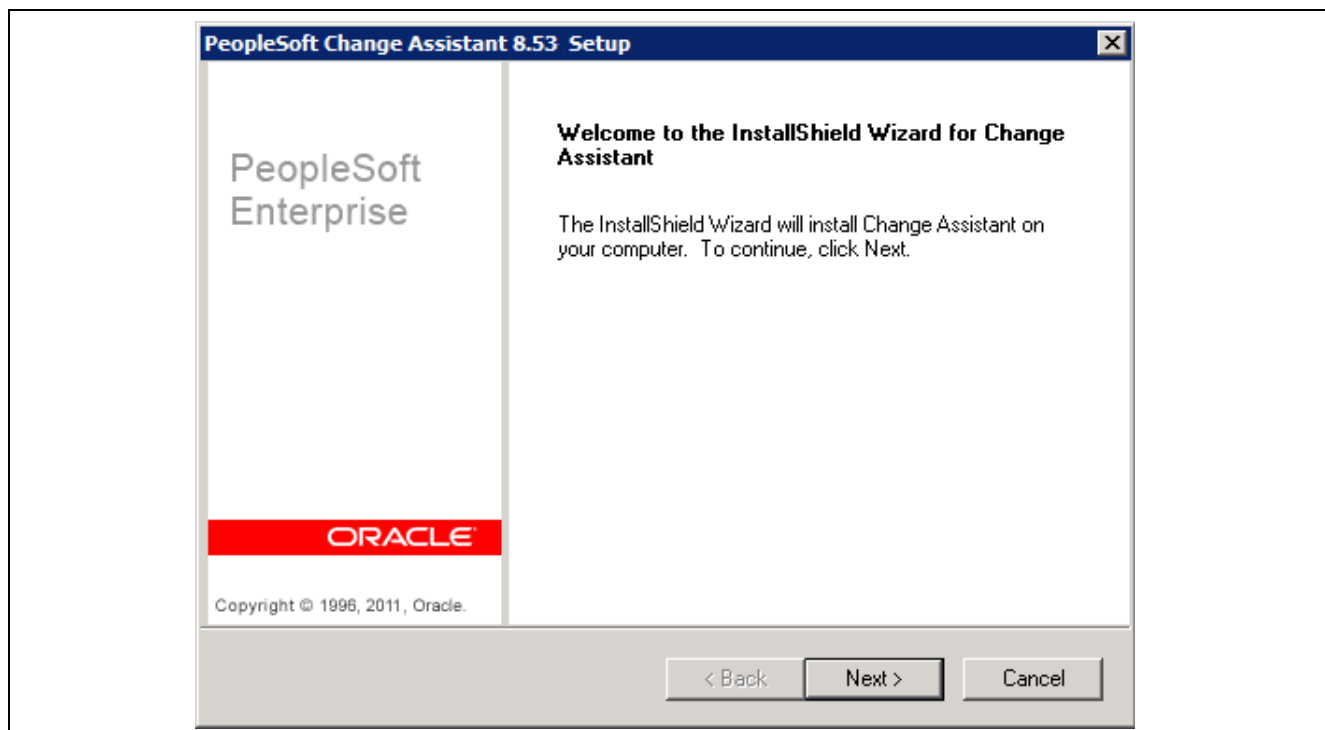
To install PeopleSoft Change Assistant:

1. If there is a pre-8.52 version of PeopleSoft Change Assistant installed on your computer, remove it before beginning the installation. Otherwise, the installation process will terminate.

You can remove the previous version of PeopleSoft Change Assistant by using the Microsoft Windows Add or Remove Programs feature. Alternatively, launch the setup.exe of the previous version and select the option to remove the software.

2. From the *PS\_HOME*\setup\PsCA directory, run *setup.exe*.

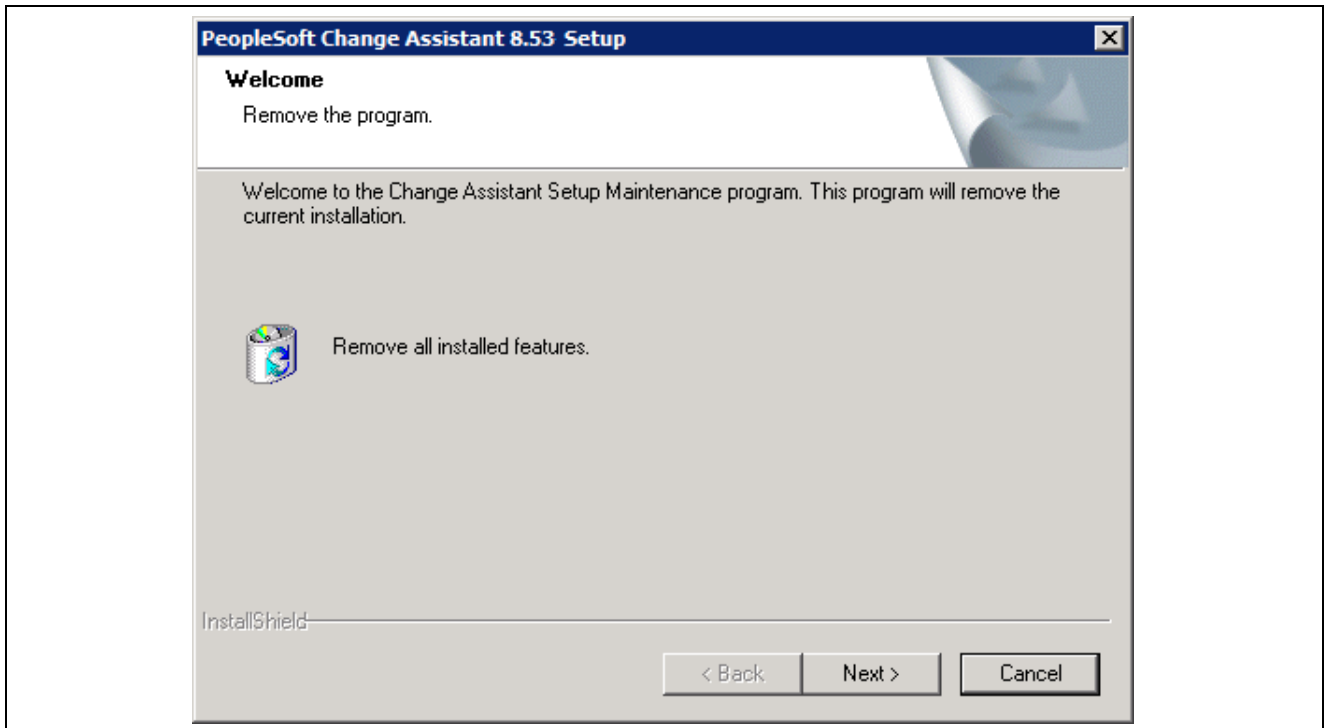
Click Next on the Welcome to the InstallShield Wizard for Change Assistant window.



PeopleSoft Change Assistant Setup Welcome window

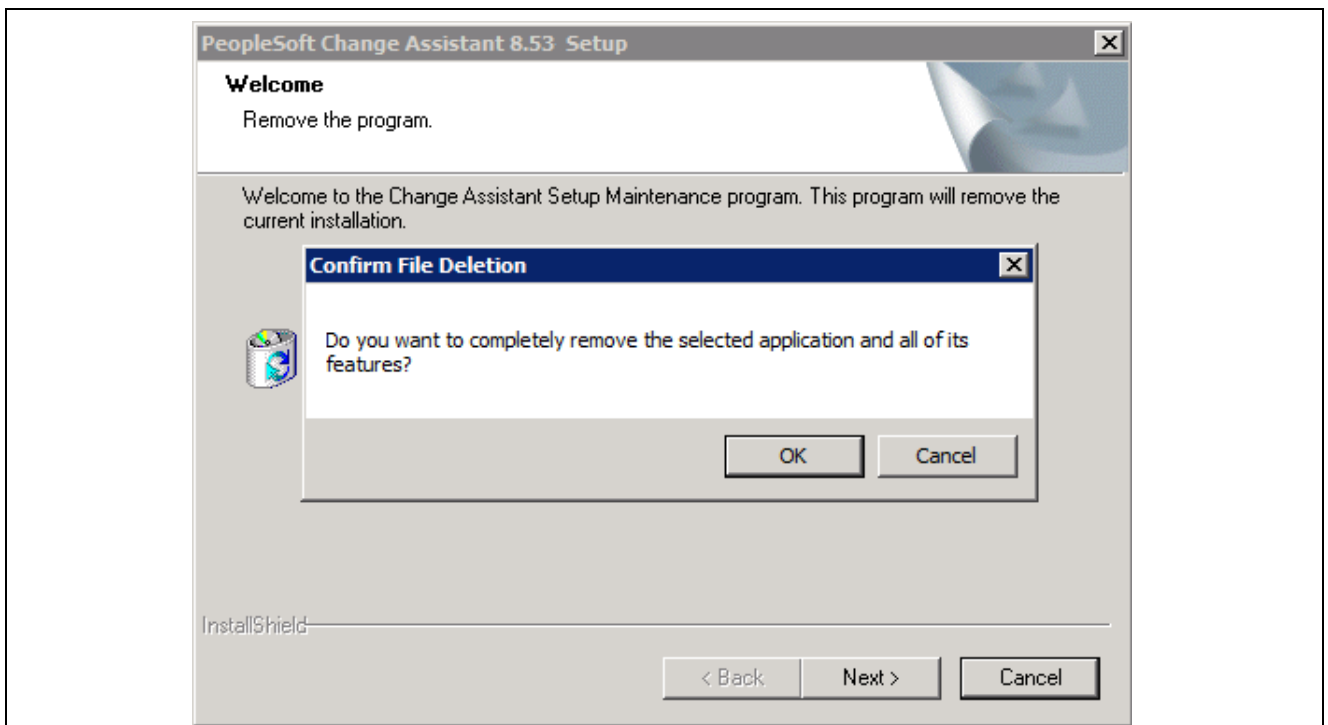
3. If there is an existing installation of PeopleSoft Change Assistant 8.53 a window appears that enables you to remove the existing installation.

Click Next.



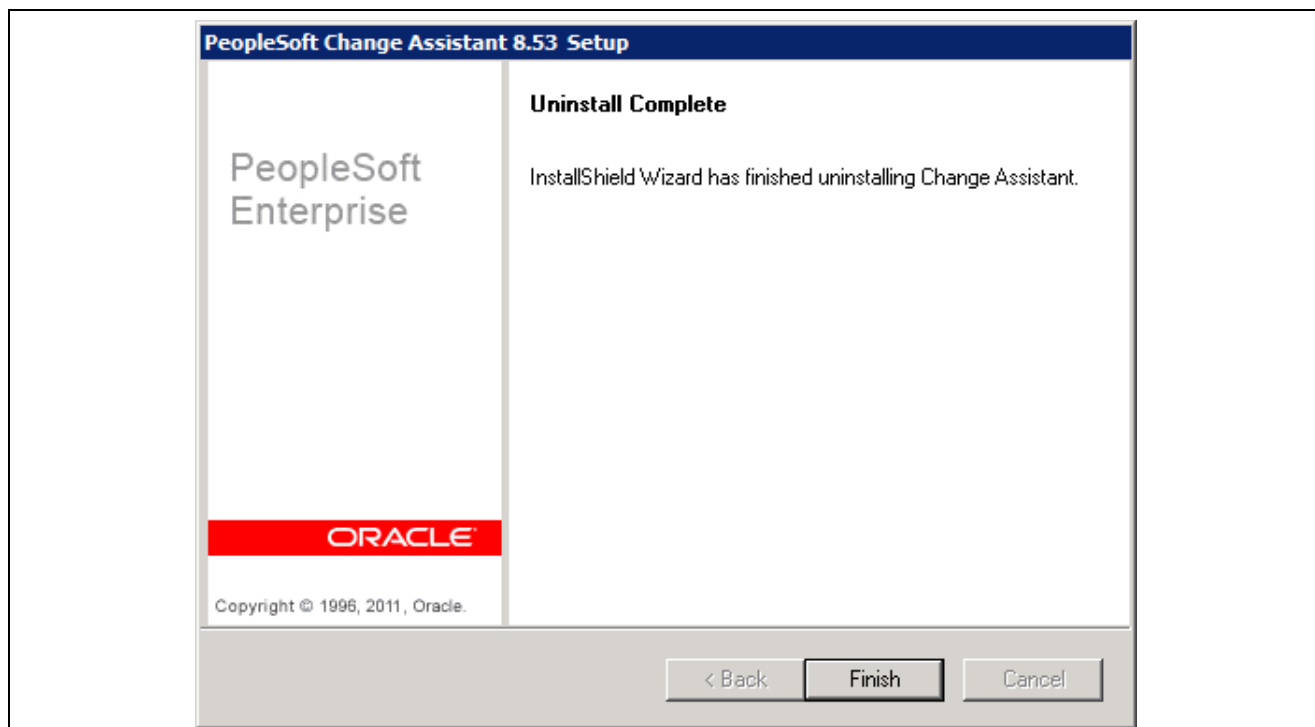
PeopleSoft Change Assistant window for removing the program

4. Click OK when asked to confirm the removal.



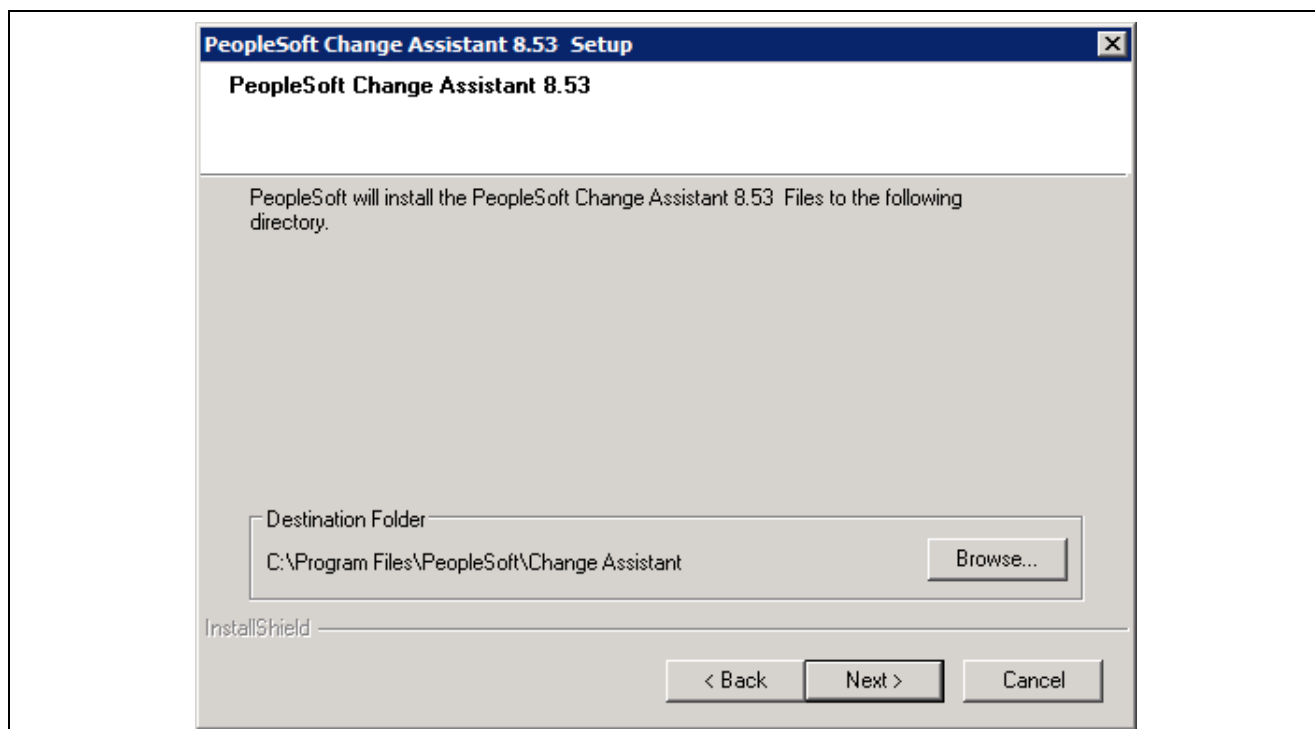
Confirm File Deletion message box for PeopleSoft Change Assistant

5. Click Finish on the window with the text "Uninstall Complete".



PeopleSoft Change Assistant Uninstall Complete window

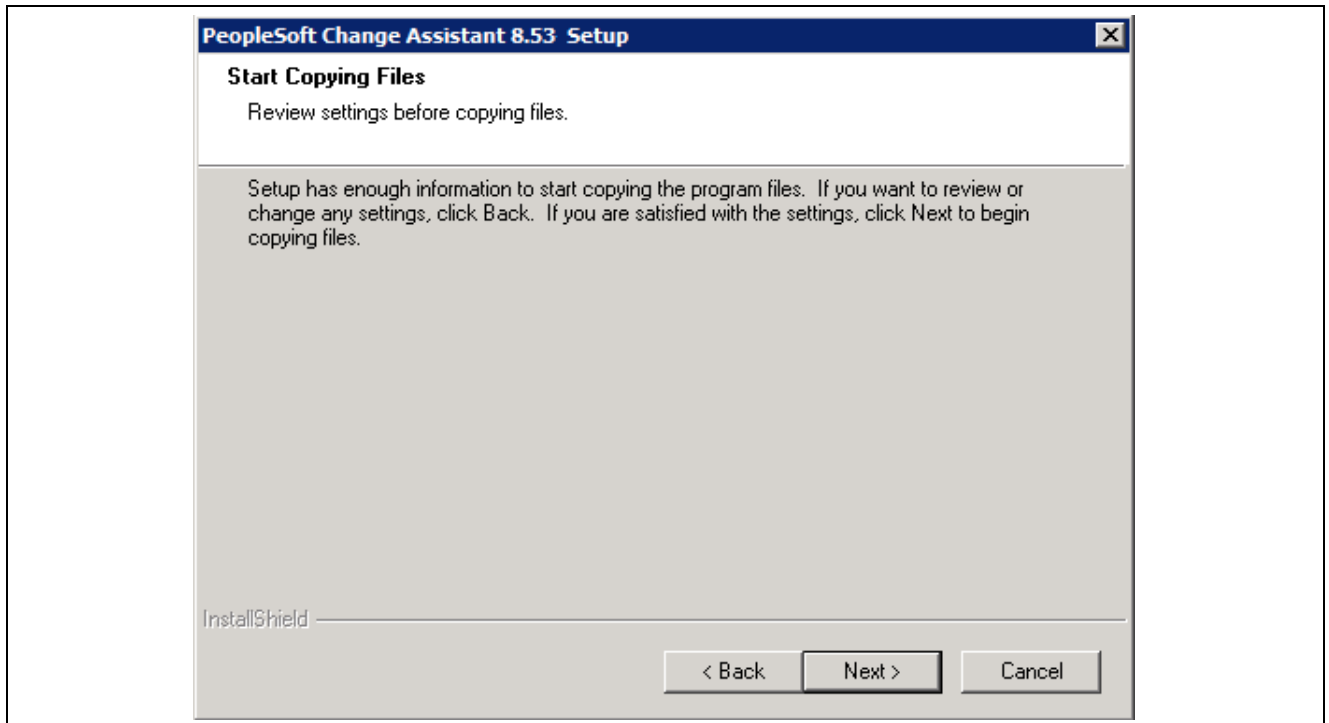
6. Go to *PS\_HOME*\setup\PsCA directory again and run *setup.exe*.  
The Welcome window seen in the first step appears. Click Next.
7. Accept the default Destination Folder or click the Browse button to specify another Destination Folder.  
The default destination folder in this example is C:\Program Files\PeopleSoft\Change Assistant.



PeopleSoft Change Assistant Destination Folder window

8. Select Next.

The Start Copying Files screen appears.



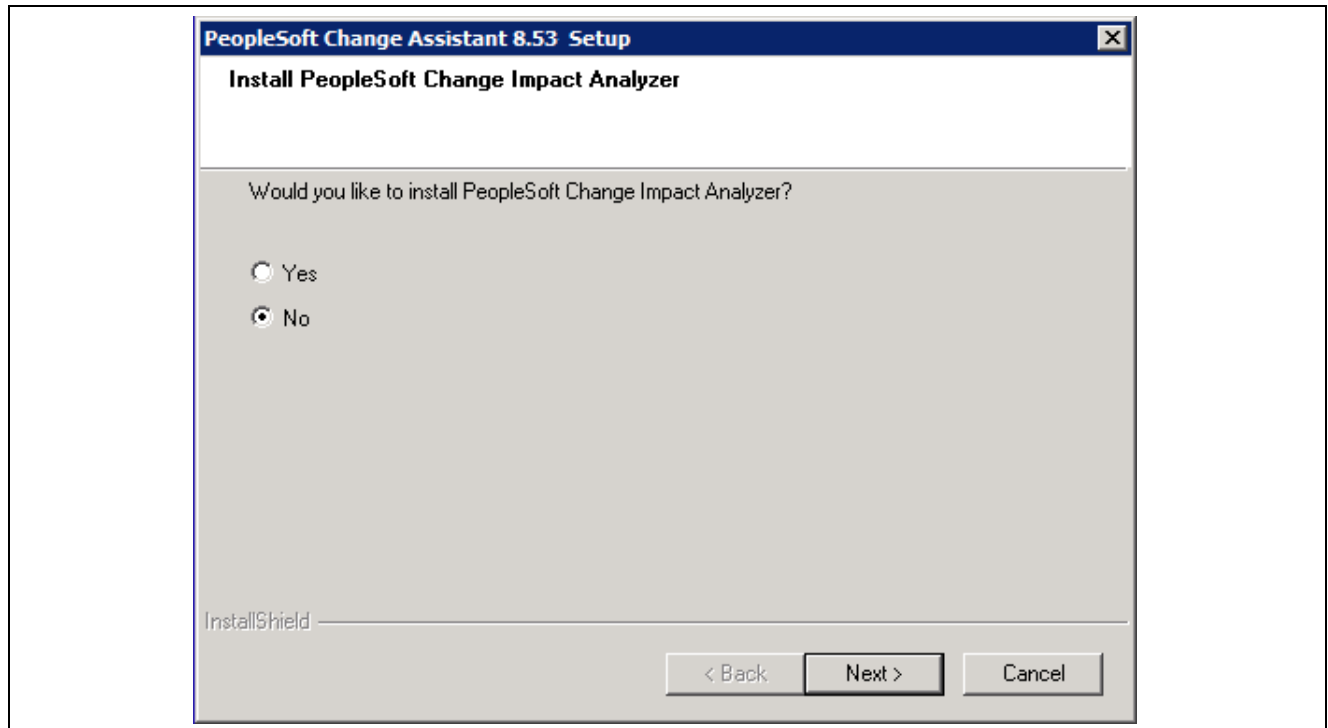
PeopleSoft Change Assistant Start Copying Files window

9. Click Back to review or change any settings.

If you are satisfied with your settings, click Next to begin copying files. PeopleSoft Change Assistant copies files to the designated directory.

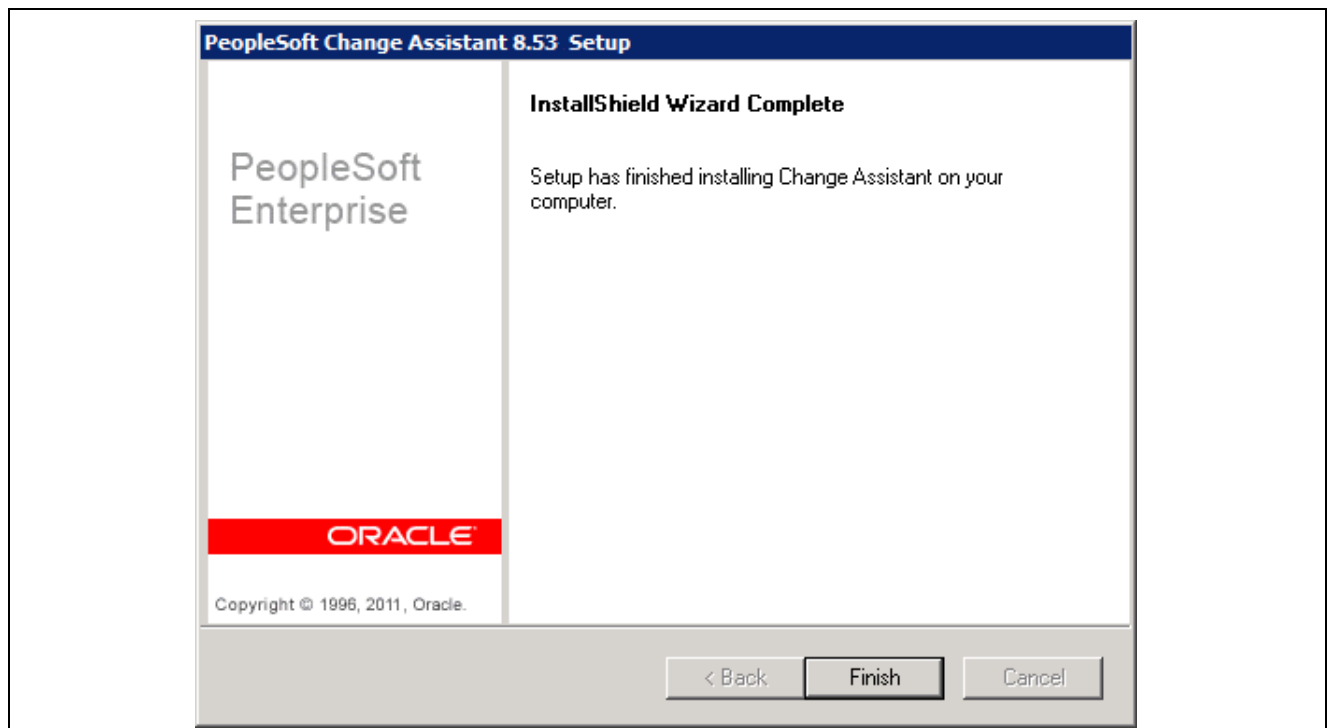
10. On the screen asking whether you want to install Change Impact Analyzer, select No, and click Next.

If you select Yes, the PeopleSoft Change Impact Analyzer installation begins. You will do this installation in the next chapter. Instead, continue with the tasks in this chapter to finish setting up PeopleSoft Change Assistant.



Choosing not to install PeopleSoft Change Impact Analyzer

11. Click Finish to complete the installation process at the window with the text "Setup has finished installing Change Assistant on your computer."



PeopleSoft Change Assistant installation complete window

12. Reboot your machine after the installation process is complete.



13. To start PeopleSoft Change Assistant, select Start, Programs, PeopleSoft Change Assistant 8.53, Change Assistant.

---

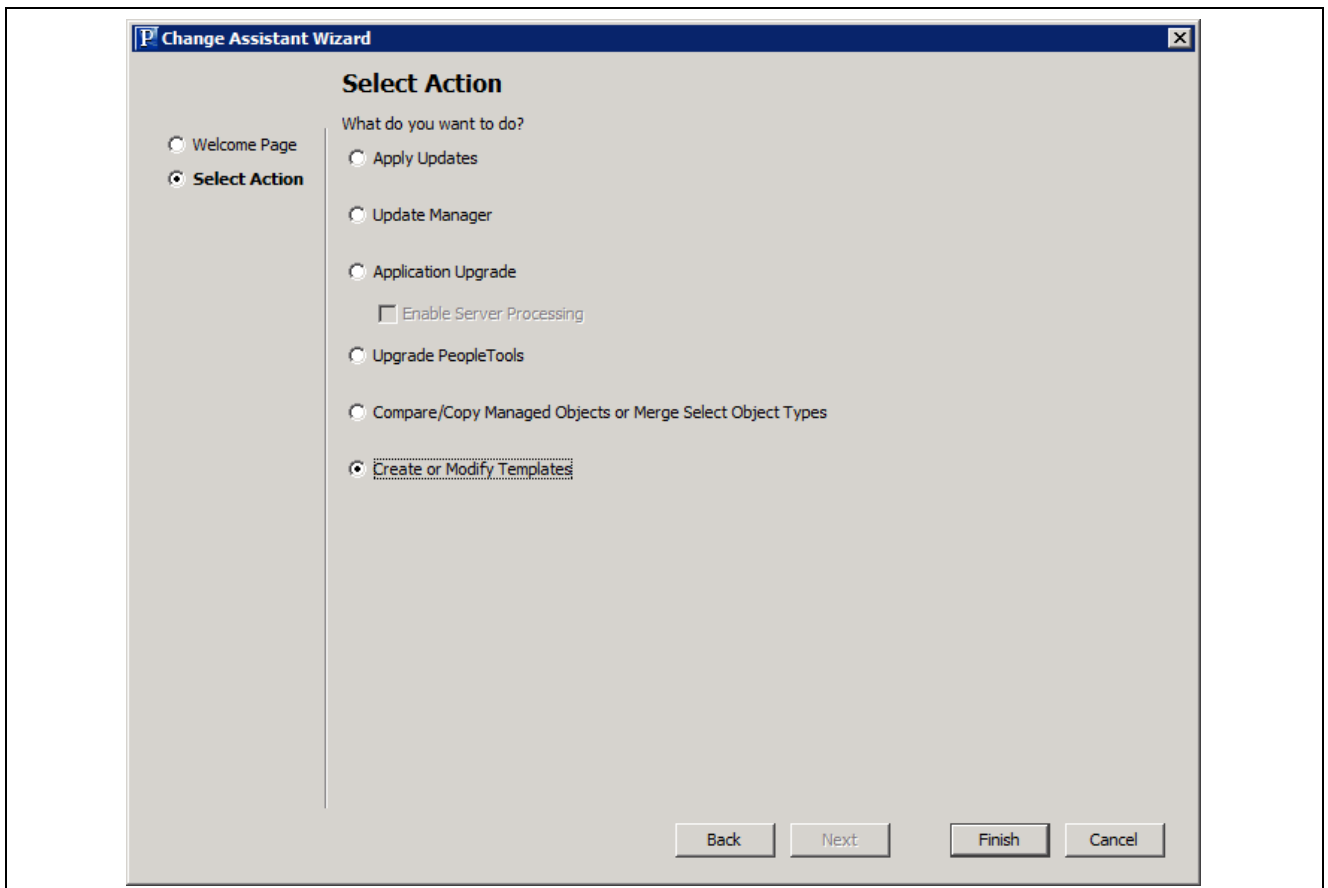
**Note.** If you are running on a Microsoft Windows operating system with User Account Control (UAC), such as Windows Server 2008, you must have administrative privileges to run Change Assistant. Right-click changeassistant.exe and select Run as administrator.

---

When you first start Change Assistant, you see a welcome window. After you click Next, you see the Select Action page.

14. Select one of the following actions and click Next:

See *PeopleTools: Change Assistant and Update Manager*, "Opening Change Assistant the First Time."



PeopleSoft Change Assistant Select Action window

- Apply Updates
- Update Manager
- Application Upgrade
- Upgrade PeopleTools
- Compare/Copy Managed Objects or Merge Select Object Types
- Create or Modify Templates

## Task 14-1-2: Verifying the Path Variable

After installing PeopleSoft Change Assistant, verify that the following values are the first entries in the PATH environment variable:

- `PS_HOME\bin\client\winx86`
- `PS_HOME\jre\bin`

See *PeopleTools: Change Assistant and Update Manager*, "Configuring Change Assistant Introduction."

## Task 14-1-3: Specifying Options

You can configure PeopleSoft Change Assistant modes to carry out updates, upgrades, work with upgrade templates, or access PeopleSoft Update Manager. The mode selection determines which menu options you see when you use PeopleSoft Change Assistant. For information on setting the options, refer to the *PeopleTools: Change Assistant and Update Manager* product documentation.

## Task 14-1-4: Scanning the Workstation

The first time you use PeopleSoft Change Assistant, it automatically scans your workstation for applications that it will use in order to automate the steps. For example, it automatically finds the SQL Query tool and uses it to run SQL commands or scripts.

If you add a new application or update an existing application, PeopleSoft Change Assistant must perform a scan of the system in order to discover the changes. To perform this scan, select Tools, Scan Configuration.

---

## Task 14-2: Exporting Jobs to XML, HTML, or Microsoft Excel Format

Change Assistant allows users to export jobs to XML, HTML, or Microsoft Excel file formats. Do this by selecting File, Export Job in Change Assistant. Then, enter the desired exported filename and select the desired file type format.

---

## Task 14-3: Validating Change Assistant Settings

After you have set up and configured PeopleSoft Change Assistant and the Environment Management components, you should validate your PeopleSoft Change Assistant and environment settings.

PeopleSoft Change Assistant validates settings by:

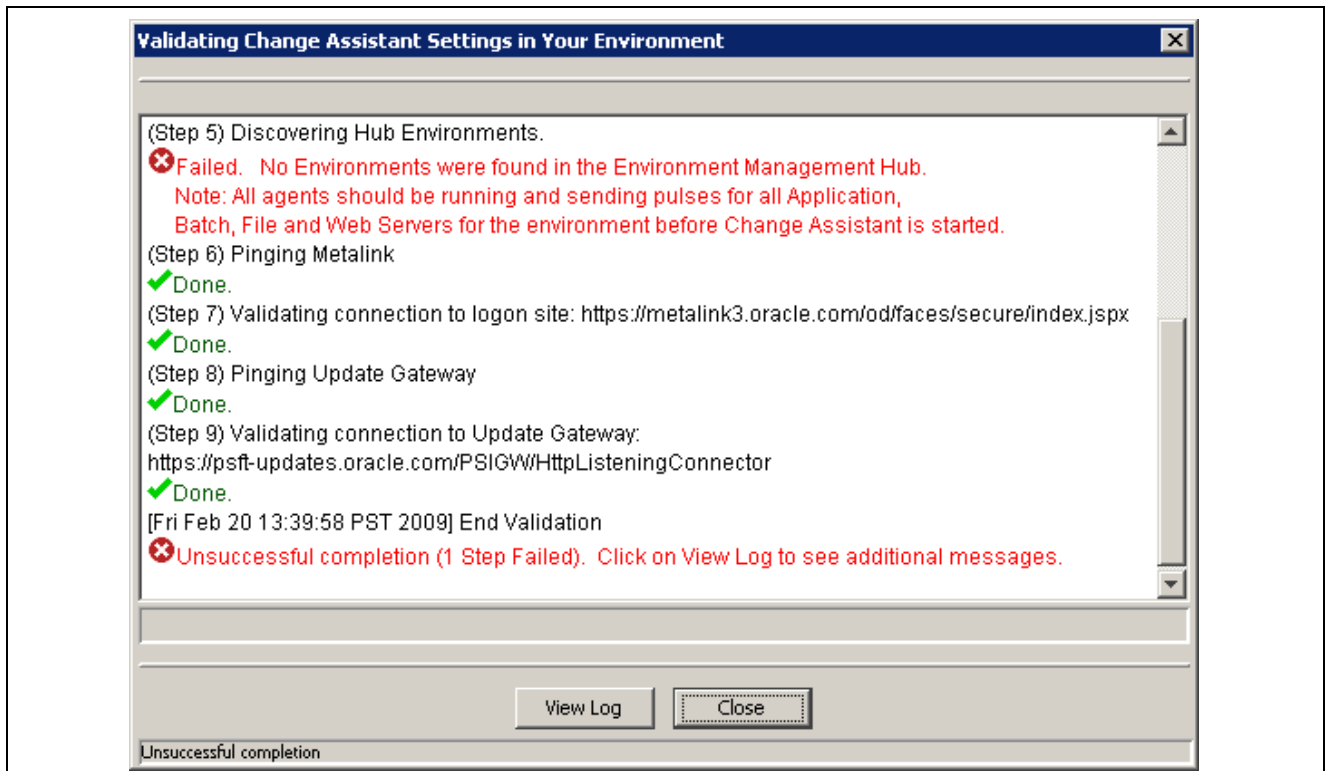
- Locating valid SQL query tools required to run SQL scripts.
- Testing the Environment Management hub and ensuring that PeopleSoft Change Assistant can communicate with it.
- Testing My Oracle Support and ensuring that PeopleSoft Change Assistant can communicate with it.

PeopleSoft Change Assistant sends a ping to My Oracle Support and then tests the connection. In order for the validation to succeed, the machine where you have PeopleSoft Change Assistant installed must have the ping feature enabled.

You can also print a summary of your environment, which can facilitate the diagnosis of problems by OracleSoftware Support.

To validate your environment, select Tools, Options, Validate. Click Start Validation.

If any of the steps were unable to complete successfully, open the log file to determine the cause. This example shows a summary with both successful messages (“Done”) and unsuccessful (“Failed” or “Unsuccessful completion”):



Validating Change Assistant Settings in Your Environment

**Note.** If you use proxy servers, the system will ping those and prompt for proxy server user ID and password. In this case, the validation step numbers would be different from the example.

To review the log file, click the View Log button at the bottom of the screen. This example shows the first several lines of a log file:

```

validate_2009_2_20_13_39.log - Notepad
File Edit Format View Help
[Fri Feb 20 13:39:46 PST 2009] Begin validation
output written to: C:\Program Files\PeopleSoft\Change
Assistant\validate\validate_2009_2_20_13_39.log
(Step 1) Creating a Summary of Your Environment
PS_HOME: C:\pt850\
Output Directory: C:\pt850_output\
Staging Directory: C:\pt850_staging\
Path: C:\Program Files\PeopleSoft\Change
Assistant\jre\bin;.;C:\WINDOWS\Sun\Java\bin;C:\WINDOWS\system32;C:\WINDOWS;C:\pt850
\bin\client\winx86;C:\oracle\product\10.2.0\db_1
\bin;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\system32\wbem;C:\apps\db\oracle102\bin;C:\Program
Files\Microsoft SQL Server\80\Tools\BINN;C:\bea\tuxedo9.1_vs2005_v2\bin
CLASSPATH: C:\Program Files\PeopleSoft\Change Assistant\changeassistant.jar;C:\Program
Files\PeopleSoft\Change Assistant\mx4j-jmx.jar;C:\Program Files\PeopleSoft\Change
Assistant\xercesImpl.jar;C:\Program Files\PeopleSoft\Change Assistant\xml-apis.jar;C:\Program
Files\PeopleSoft\Change Assistant\xalan_2_7_0.jar;C:\Program Files\PeopleSoft\Change
Assistant\serializer.jar;C:\Program Files\PeopleSoft\Change Assistant\commons-logging-
1.0.1.jar;C:\Program Files\PeopleSoft\Change Assistant\commons-httpclient-2.0-rc1.jar;C:\Program
Files\PeopleSoft\Change Assistant\commons-codec-1.1.jar;C:\Program Files\PeopleSoft\Change
Assistant\xml-db-api-20021118.jar;C:\Program Files\PeopleSoft\Change Assistant\xml-db-
common.jar;C:\Program Files\PeopleSoft\Change Assistant\xml-db-xupdate-20040205.jar;C:\Program
Files\PeopleSoft\Change Assistant\xindice-1.1b5-dev.jar;C:\Program Files\PeopleSoft\Change
Assistant\psemf.jar;C:\Program Files\PeopleSoft\Change Assistant\AbsoluteLayout.jar;C:\Program
Files\PeopleSoft\Change Assistant\log4j-1.2.8.jar;C:\Program Files\PeopleSoft\Change
Assistant\jxl.jar;C:\Program Files\PeopleSoft\Change Assistant\j2ee.jar
Current working Directory: C:\Program Files\PeopleSoft\Change Assistant
Done.
(Step 2) validating your SQL Query Tools
Found Microsoft SQL Query Tool at c:\Program Files\Microsoft SQL Server\80\Tools\Binn\OSQL.exe
Found Oracle SQL Query Tool at c:\Apps\db\oracle102\bin\sqlplus.exe
Done. 2 SQL Query Tools found.
(Step 3) Pinging Environment Management Hub
Pinging PLE-INFODEV-11
Done.
(Step 4) Connecting to Hub: http://PLE-INFODEV-11:80/PSEMHUB/hub
Done.
(Step 5) Discovering Hub Environments.
Failed. No Environments were found in the Environment Management Hub.

```

Validation log

## CHAPTER 15

# Installing PeopleSoft Change Impact Analyzer

This chapter discusses:

- Prerequisites
- Installing PeopleSoft Change Impact Analyzer

---

## Prerequisites

Oracle's PeopleSoft Change Impact Analyzer is a tool you can use to evaluate the effect of changes you make on your installation. PeopleSoft Change Impact Analyzer can help you monitor the impact a Change Package has on your system, as well as monitor the impact from other changes such as customizations.

Ensure that your system meets the following requirements before you begin this installation:

- PeopleSoft Change Impact Analyzer runs on Microsoft Windows platforms. For database platforms that do not run on Microsoft Windows, install PeopleSoft Change Impact Analyzer on the Windows client.
- You can install PeopleSoft Change Impact Analyzer from downloaded files as a standalone application, or as a part of your PeopleSoft PeopleTools installation. You can also install PeopleSoft Change Impact Analyzer as a part of the PeopleSoft Change Assistant installation, as mentioned in the previous chapter. These instructions assume you have installed PeopleSoft PeopleTools on the machine on which you want to run PeopleSoft Change Impact Analyzer, and have completed the PeopleSoft Change Assistant installation.
- You must install JDBC drivers for connectivity to your database platform. PeopleSoft Change Impact Analyzer uses Type 4 JDBC drivers by default.

You can normally obtain JDBC drivers from your RDBMS vendor. Search the vendor's web site or contact the vendor for information.

### See Also

*PeopleTools: PeopleSoft Change Impact Analyzer*

---

## Task 15-1: Installing PeopleSoft Change Impact Analyzer

To install PeopleSoft Change Impact Analyzer and Rules Editor:

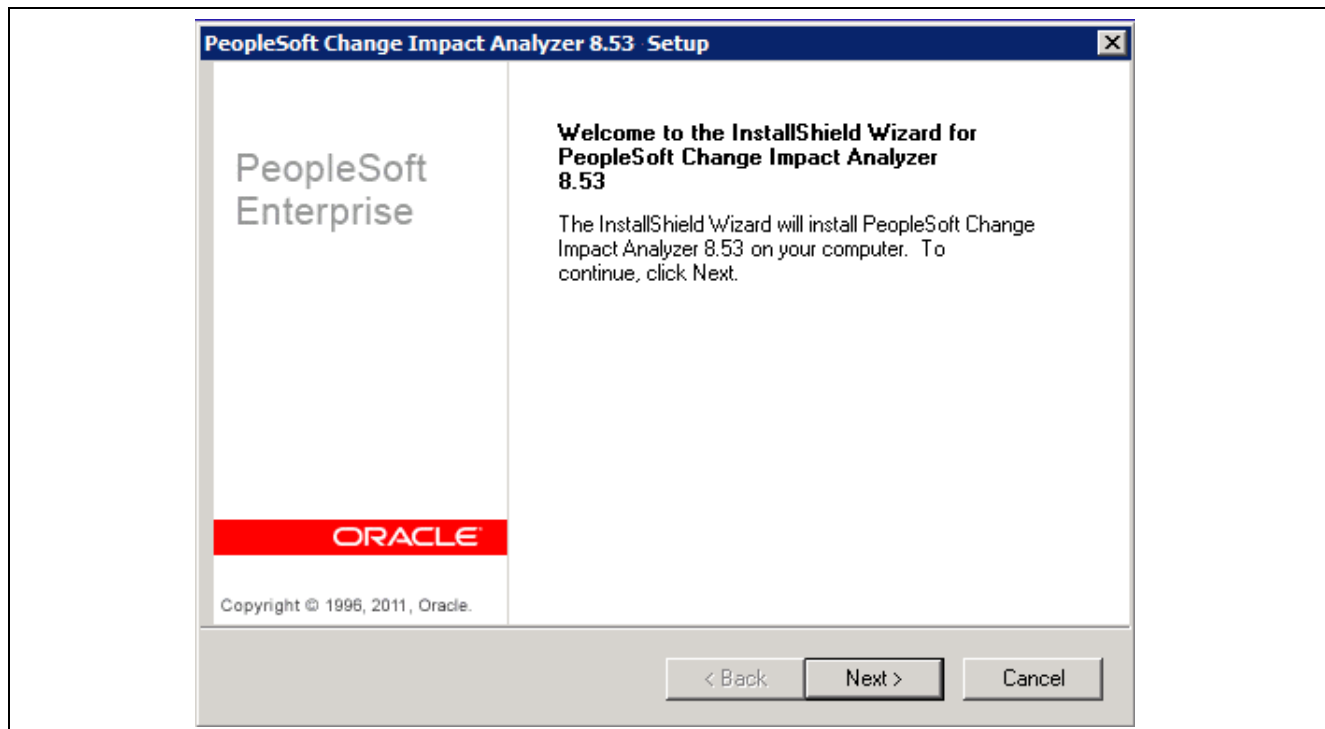
1. From the *PS\_HOME*\setup\PscIA directory, run *setup.exe*.

---

**Note.** If you installed PeopleSoft PeopleTools on a UNIX or Linux computer, you can copy *setup.exe* to a Microsoft Windows machine to install.

---

A Welcome to the InstallShield Wizard for PeopleSoft Change Impact Analyzer 8.53 window appears.



PeopleSoft Change Impact Analyzer Welcome window

2. If there is an existing installation of PeopleSoft Change Impact Analyzer on your machine, a message appears telling you to remove it.

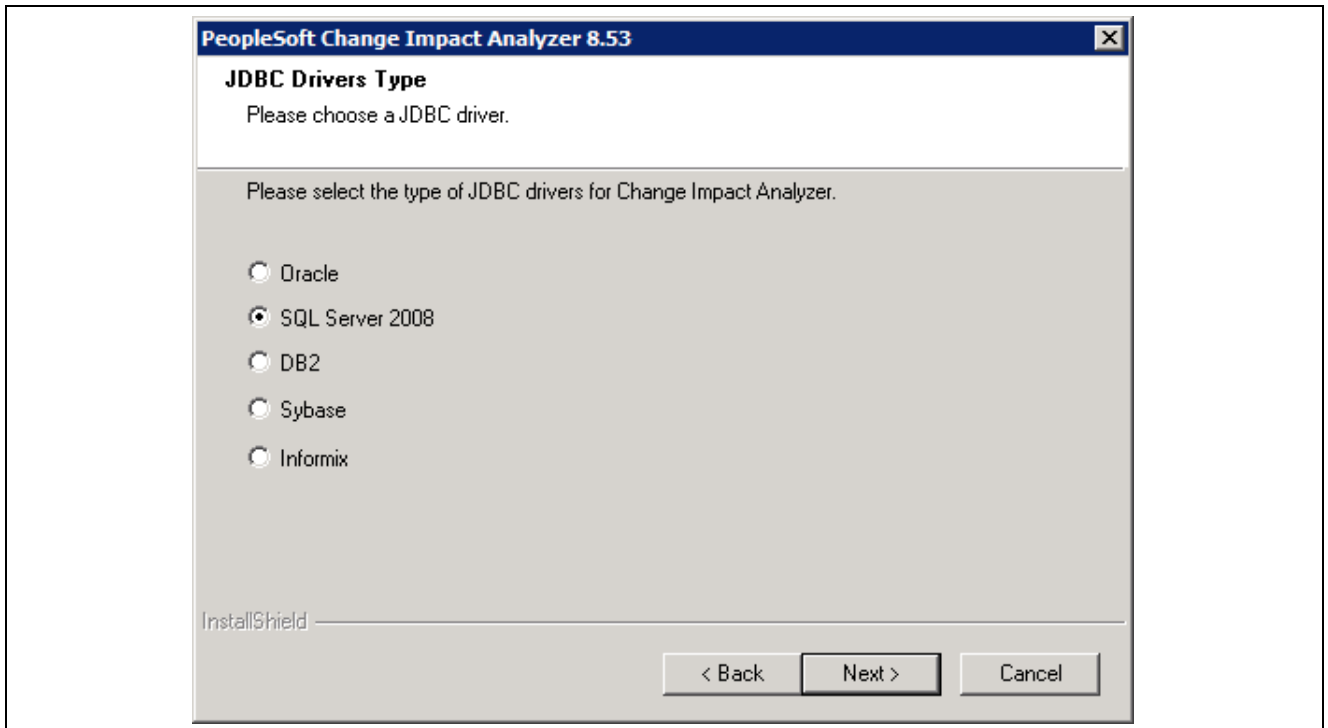
Use Microsoft Windows Add/Remove Programs to remove the previous installation of PeopleSoft Change Impact Analyzer.

3. After removing the previous installation, run *PS\_HOME\setup\PscIA\setup.exe* again.

The Welcome window shown in step 1 appears.

4. Click Next on the Welcome window.
5. Select the type of JDBC drivers for your database platform.

In this example the option for SQL Server 2008 is selected.



PeopleSoft Change Impact Analyzer JDBC Drivers Type window with SQL Server 2008 selected

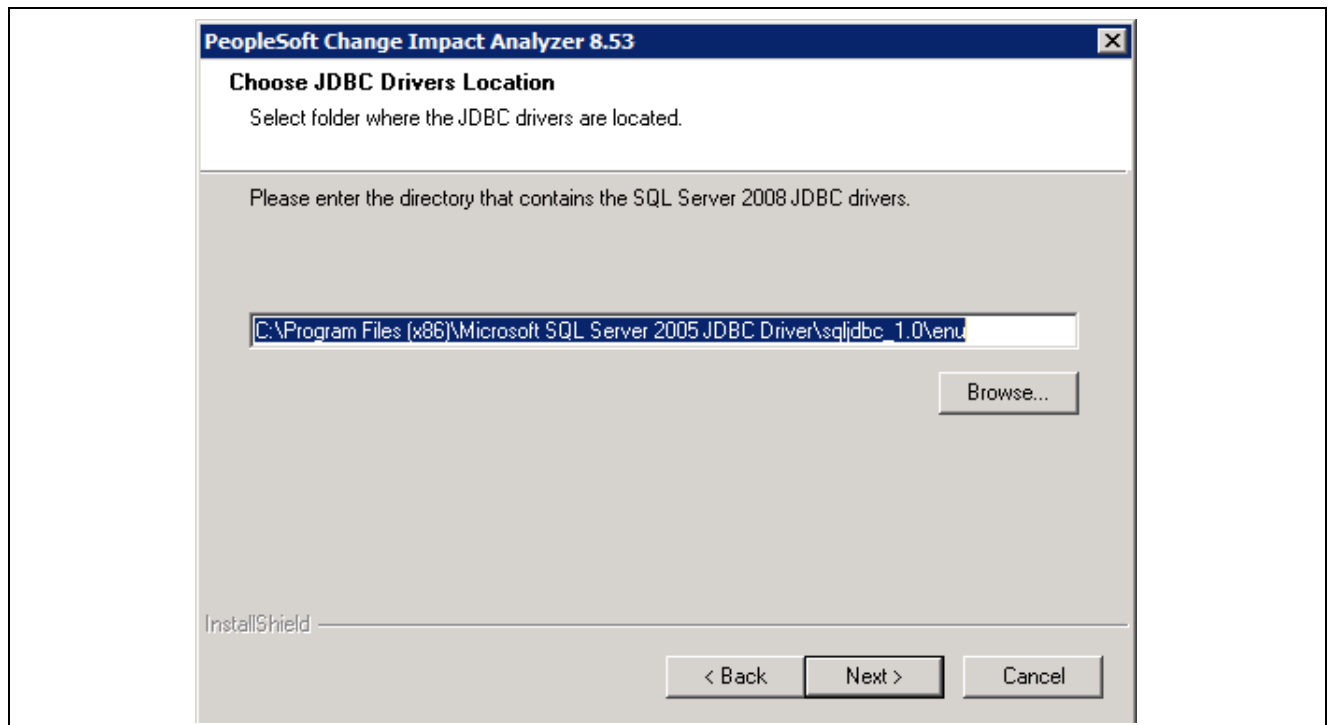
6. Browse to select the directory where the JDBC drivers are installed, or accept the default location.

---

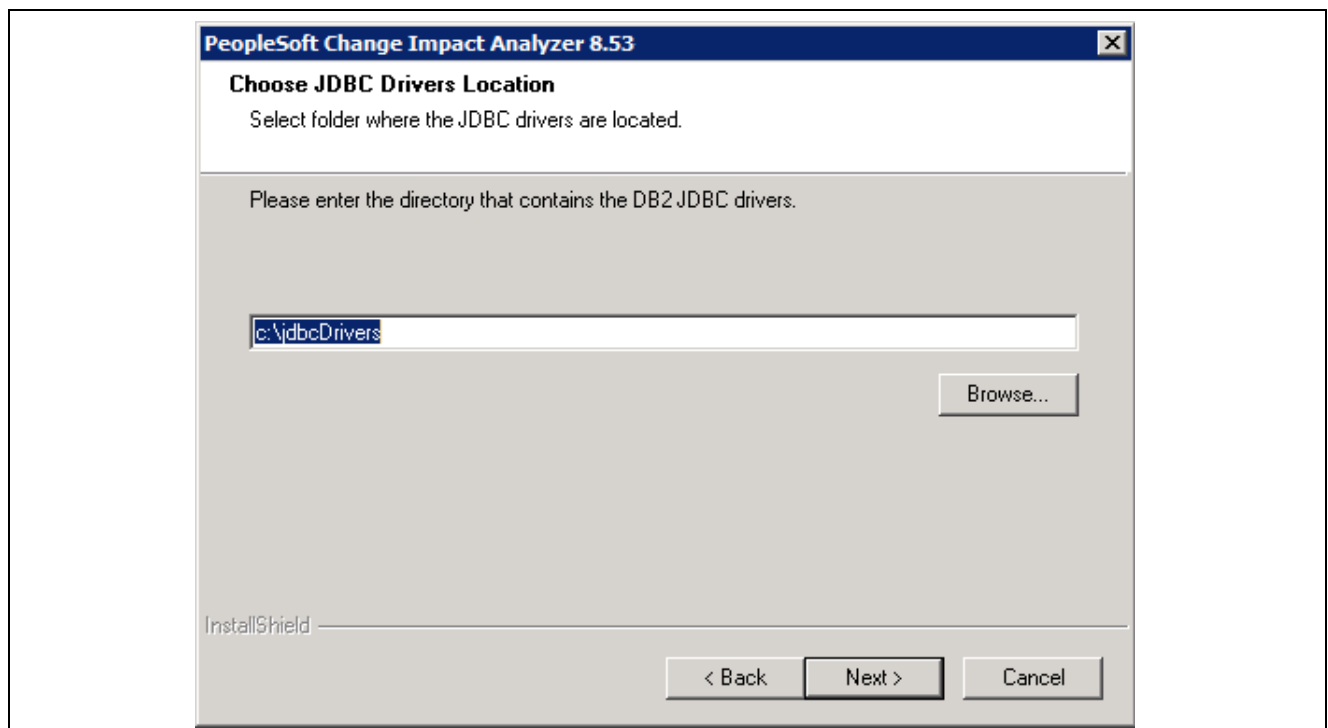
**Note.** If the installation program cannot find the correct JDBC drivers, you will see a warning message after you click Next on the Choose JDBC Drivers Location window.

---

The following example shows the location where the JDBC drivers are installed by default, C:\Program Files (x86)\Microsoft SQL Server 2005 JDBC Driver\SQLjdbc\_1.0\enu.



PeopleSoft Change Impact Analyzer Choose JDBC Drivers Location window for SQL Server 2008

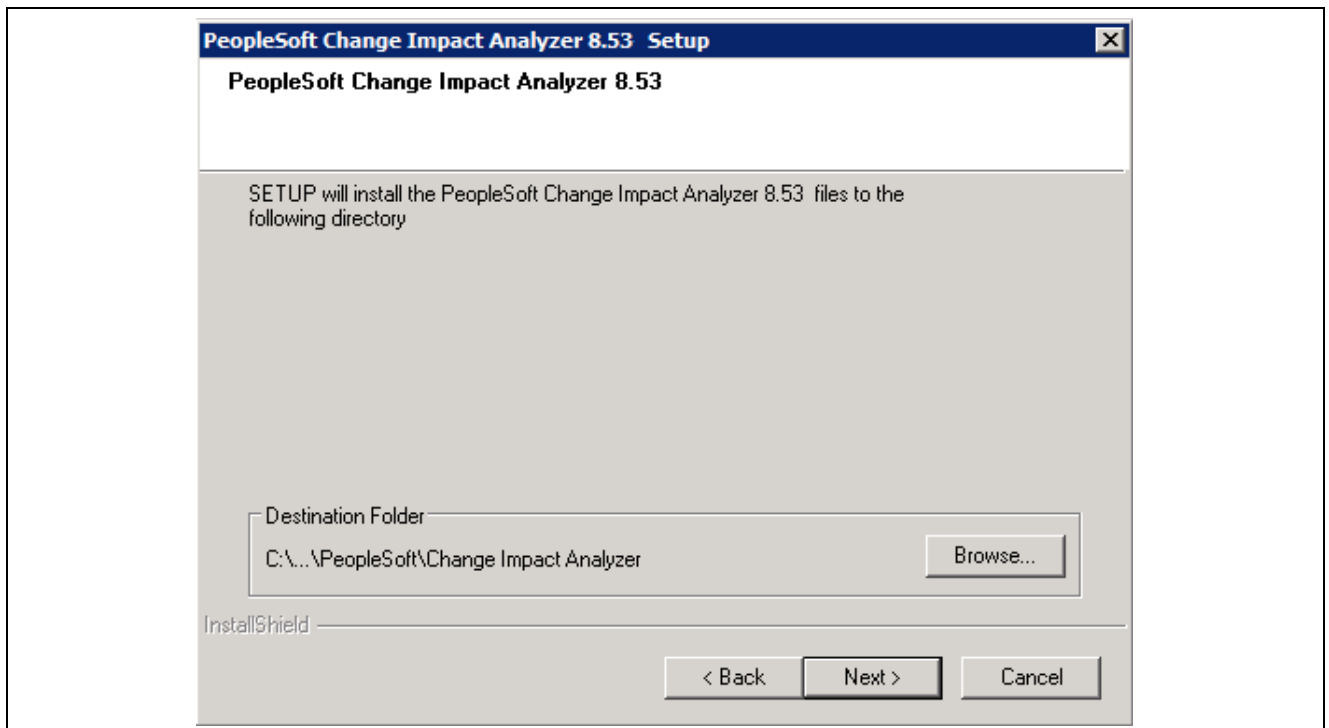


PeopleSoft Change Impact Analyzer Setup Choose JDBC Drivers Location window for DB2

7. Browse to select the directory where PeopleSoft Change Impact Analyzer will be installed, or accept the default directory.

The default directory, which is truncated in this example, is C:\Program Files\PeopleSoft\Change Impact Analyzer.

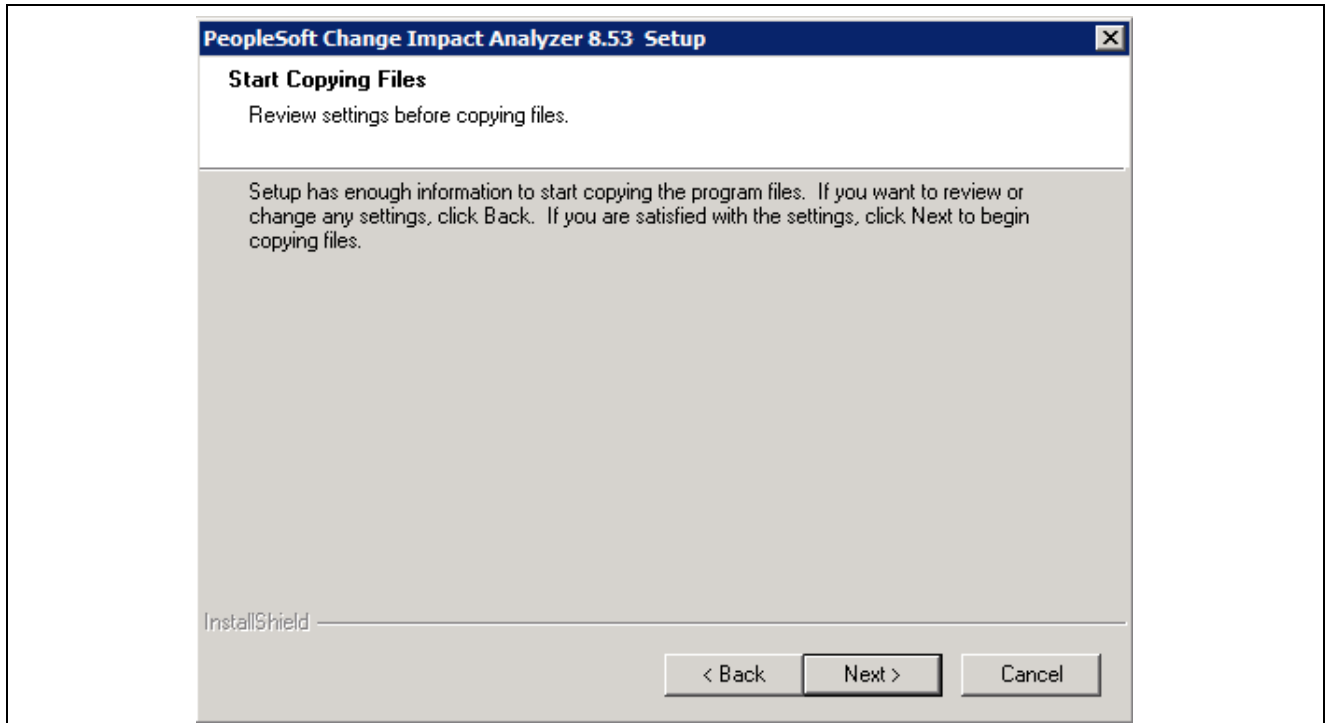




PeopleSoft Change Impact Analyzer Setup window with default destination folder

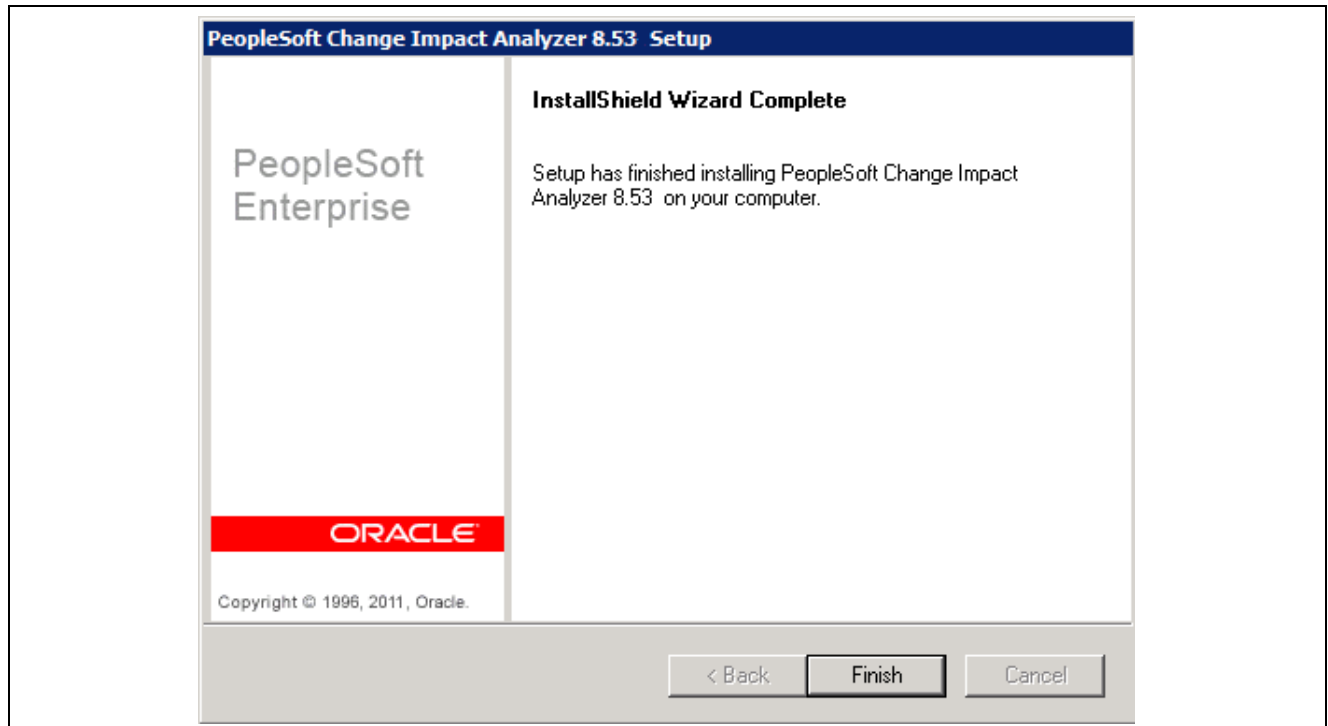
8. Click Back to review or change any settings.

If you are satisfied with your settings, click Next to begin copying files to the designated directory.



PeopleSoft Change Impact Analyzer Start Copying Files window

9. Click Finish to exit when the installation is complete, on the InstallShield Wizard Complete window.



PeopleSoft Change Impact Analyzer Setup Complete window

10. To start PeopleSoft Change Impact Analyzer, select Start, Programs, PeopleSoft 8.53, Change Impact Analyzer.

## CHAPTER 16

# Installing and Configuring Software for Crystal Reports

This chapter discusses:

- Understanding Crystal Reports Software Installation and Configuration
- Determining the Crystal Reports Runtime Environment
- Obtaining SAP BusinessObjects Enterprise and Crystal Reports Software
- Installing SAP Crystal Reports
- Installing SAP BusinessObjects Enterprise XI 3.1
- Migrating your SAP BusinessObjects Enterprise XI 3.1 Installation to a New Version of PeopleTools
- Administering and Using SAP BusinessObjects Enterprise XI 3.1
- Removing the Integrated SAP BusinessObjects Enterprise XI 3.1 Installation
- Converting Crystal Reports

---

## Understanding Crystal Reports Software Installation and Configuration

This chapter addresses the installation and administration of a Crystal Reports environment. Depending on the type of installation that you have, some parts of this chapter may not be relevant to you. The installation of SAP Crystal Reports or BusinessObjects Enterprise XI 3.1 is optional for PeopleSoft PeopleTools 8.52 and later releases.

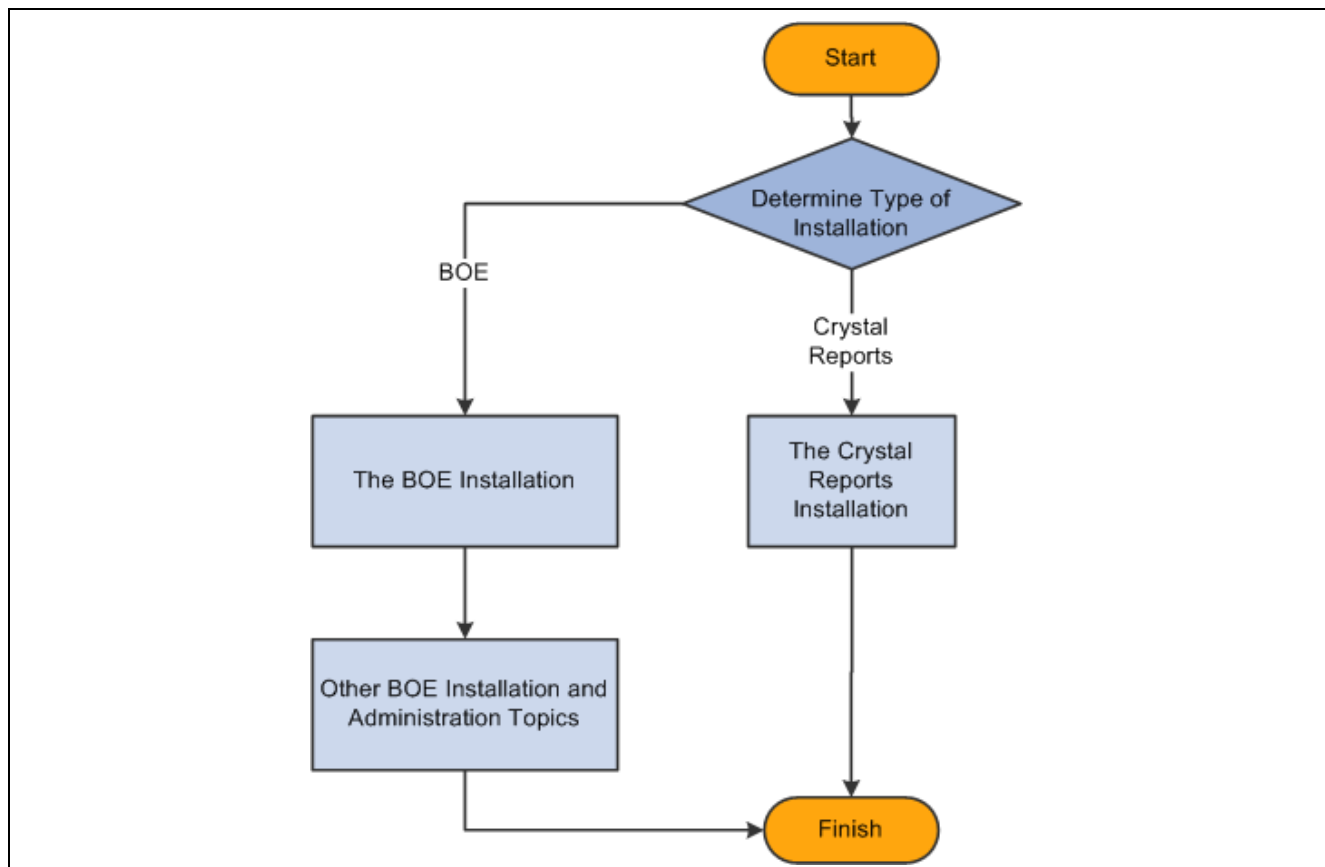
As of July 1, 2011, Oracle no longer sells SAP Crystal Reports or SAP BusinessObjects Enterprise licenses for new customers. Customers who purchased PeopleSoft software prior to July 1, 2011 will retain their license to SAP Crystal Reports and SAP BusinessObjects Enterprise products. For more information, consult an Oracle Software Support customer representative. Crystal Report definition files (.RPT files) will continue to be delivered to new and existing customers.

See "Tech Update - Oracle Modifies Business Objects Enterprise and Crystal Reports Licensing for PeopleSoft," My Oracle Support (search for title).

The chapter is divided into sections. Within each section are parts that provide informative background information or describe installation and administration tasks.

The following flowchart describes how to use the information in this chapter to install and configure the software that you need to run Crystal Reports on your PeopleSoft system:

**Note.** In this flowchart, “BOE” refers to SAP BusinessObjects Enterprise XI 3.1, and “Crystal Reports” refers to SAP Crystal Reports 2008 or Crystal Reports 2011.



Using this chapter to install the software for Crystal Reports

### See Also

*PeopleTools: Crystal Reports for PeopleSoft*

My Oracle Support, Certifications

## Task 16-1: Determining the Crystal Reports Runtime Environment

You can use SAP Crystal Reports 2008 or Crystal Reports 2011 to create and edit report definitions for your PeopleSoft application. As delivered, PeopleSoft applications are configured to work with these SAP Crystal Reports runtime environments. The runtime engine supported for both SAP Crystal Reports versions for PeopleSoft PeopleTools 8.53 is the SAP Crystal Reports runtime engine for .NET Framework 4 (Crystal Reports version for Visual Studio 2010).

**Note.** For the sake of brevity, this section may use “SAP Crystal Reports” to refer to both SAP Crystal Reports 2008 and SAP Crystal Reports 2011.

If you are using PeopleSoft PeopleTools 8.50 or higher *and* are using PeopleSoft applications at Release 9 or higher, you can optionally use the SAP BusinessObjects Enterprise XI 3.1 runtime environment to run and view your reports. You use the SAP Crystal Reports product to create and edit report definitions.

---

**Note.** For the exact version of SAP Crystal Reports and SAP BusinessObjects Enterprise XI 3.1 supported for your environment, see the PeopleSoft Certification information on My Oracle Support.

---

For any particular PeopleSoft application you can use either SAP Crystal Reports or SAP BusinessObjects Enterprise XI 3.1—you cannot run a “mixed” environment where some reports are run using SAP Crystal Reports and some reports are run using SAP BusinessObjects Enterprise XI 3.1.

If you decide to use SAP BusinessObjects Enterprise XI 3.1, you can run a PeopleSoft-supplied conversion program to convert report definitions from Crystal 9 format to the current SAP Crystal Reports.

The advantages of SAP BusinessObjects Enterprise XI 3.1 (compared to SAP Crystal Reports) are:

- Runs on other operating systems (AIX, Linux, Oracle Solaris) besides Microsoft Windows
- Runs on a scalable server platform; that is, you can scale across machines
- Users can view interactive reports over the web (such as search, filter, or table of contents).

The restrictions of the PeopleSoft Integration with SAP BusinessObjects Enterprise XI 3.1 are:

- The PeopleSoft Process Scheduler that you use to run reports on the SAP BusinessObjects Enterprise XI 3.1 server can run only on one of the operating systems that SAP BusinessObjects Enterprise XI 3.1 runs on.
- You need to convert all your reports from Crystal 9 format to Crystal 2008 format to run them using SAP BusinessObjects Enterprise XI 3.1.
- The PeopleSoft Integration does not support some platforms that a standalone SAP BusinessObjects Enterprise XI 3.1 installation supports.

That is, not all platforms that SAP BusinessObjects Enterprise XI 3.1 runs on were tested in the integrated SAP BusinessObjects Enterprise XI 3.1/PeopleSoft solution. For example, while standalone SAP BusinessObjects Enterprise XI 3.1 supports Tomcat as a web server, the integrated SAP BusinessObjects Enterprise XI 3.1/PeopleSoft solution does not.

See "Tools Certifications - BusinessObjects Enterprise," My Oracle Support (search for article name).

The advantages of using the currently supported SAP Crystal Reports with SAP Crystal Reports runtime engine for .NET Framework 4 (Crystal Reports version for Visual Studio 2010) are:

- Works the same as previous releases of PeopleSoft PeopleTools
- Requires little configuration and administration
- Run to SAP Crystal Reports from Windows Query Designer is available
- Does not require a database management system for report management
- Report output is smaller in size compared to SAP BusinessObjects Enterprise XI 3.1, as the latter contains more internal information about the report.

The observed difference in tests indicates that report output generated from SAP BusinessObjects Enterprise XI 3.1 will be 30 to 40% larger. This may vary by report and by the amount of business data in the report.

One restriction on SAP Crystal Reports 2008 and Crystal Reports 2011 is that they run only on Microsoft Windows.

---

## Task 16-2: Obtaining SAP BusinessObjects Enterprise and Crystal Reports Software

This section discusses:

- Understanding the SAP BusinessObjects Enterprise and Crystal Reports Software Distribution
- Obtaining the Software from Oracle Support
- Obtaining the Software from SAP BusinessObjects

### Understanding the SAP BusinessObjects Enterprise and Crystal Reports Software Distribution

Oracle certifies specific versions of SAP Crystal Reports and BusinessObjects Enterprise XI 3.1 to work with specific versions of PeopleSoft PeopleTools. See the Certifications section of My Oracle Support for specific information about the correct releases for your situation.

See My Oracle Support, Certifications.

As mentioned, as of July 2011, Oracle no longer sells SAP Crystal Reports or SAP BusinessObjects Enterprise licenses for new customers. This section provides more information on how this affects new and existing customers.

*Existing customers* are those who licensed PeopleSoft software prior to July 1, 2011.

Existing customers can contact Oracle Support to gain access at no charge to media pack that were previously available from Oracle, which contains the SAP BusinessObjects Enterprise and Crystal Reports software that you need (see the section Obtaining Software from Oracle Support below).

*New customers* are those who license PeopleSoft software after July 1, 2011.

In order to obtain the versions certified by Oracle for a PeopleSoft PeopleTools release you must license and obtain the software directly from SAP/BusinessObjects (see the section Obtaining Software from SAP BusinessObjects below).

### Task 16-2-1: Obtaining the Software from Oracle Support

Oracle Support will make available to you a media pack of zip files that contain the SAP Crystal Reports and BusinessObjects Enterprise XI 3.1 software that you will need, as follows:

- SAP Crystal Reports 2008 SP3
- SAP Crystal Reports 2011 SP4
- SAP Crystal Reports runtime engine for .NET Framework 4
- SAP BusinessObjects Enterprise XI 3.1 SP3
- SAP BusinessObjects Enterprise XI 3.1 SP3 Integration Kit for PeopleSoft
- SAP BusinessObjects Enterprise XI 3.1 SP3 Report Migration Files

The directory where you save these files is referred to in this documentation as *BOE\_INSTALL*.

1. Extract the files into *BOE\_INSTALL*.

2. If it is necessary to transfer the files to a UNIX computer using FTP, you must change the permissions to make them executable (using the `chmod +x` command, for example).

## Task 16-2-2: Obtaining the Software from SAP BusinessObjects

### *Design Software*

In order to create Crystal report definitions (and modify delivered Crystal report definitions) you will need to license SAP Crystal Reports 2008 or SAP Crystal Reports 2011.

Be sure to obtain a Service Pack certified by Oracle for PeopleSoft PeopleTools.

### *Runtime Software*

In order to run Crystal reports with PeopleTools Process Scheduler using the Crystal Print Engine you will need to download the redistributable SAP Crystal Reports Runtime Engine for .NET Framework 4.

Be sure to obtain a Service Pack certified by Oracle for PeopleSoft PeopleTools installations.

In order to run Crystal reports with PeopleTools Process Scheduler using BusinessObjects Enterprise XI 3.1 with PeopleSoft PeopleTools you will need to download:

- SAP BusinessObjects Enterprise XI 3.1
- SAP BusinessObjects Enterprise XI 3.1 Integration Kit for PeopleSoft

Be sure to obtain a Service Pack certified by Oracle for PeopleSoft installations.

In order to proceed with the installation and configuration tasks in this chapter, download the installation files that you get from SAP to a directory on your machine, referred to in this documentation as *BOE\_INSTALL*. Be sure to obtain all the necessary files for your installation.

Use these guidelines to obtain the software from SAP. Be aware that the navigation on the SAP web site may change.

1. Go to the SAP Market Place web site:  
<https://websmp105.sap-ag.de/~SAPIDP/002006825000000234912001E>
2. Select SAP Support Portal\*.
3. Enter the user ID and password for your account.

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**Note.** You may be prompted to enter the credentials more than once.

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4. From the tabs at the top, select Software Downloads, Installation and Upgrades.
5. Select A - Z Index from the links on the left.
6. To download the base software:
  - a. Select “B”.
  - b. Select the links for SBOP BI platform (former SBOP Enterprise), BOBJ EnterpriseXI 3.1, Installation.
7. To download the integration kit:
  - a. Select “I”.
  - b. Select the links for SBOP INTGR. FOR PSFT, BOBJ INTGR. FOR PSFT XI 3.1, Installation.
8. Select the operating system platform on which you are installing.

9. Select the Downloads tab, and then select the options for the appropriate version to download.
10. Download all the required files.
11. Extract the files into *BOE\_INSTALL*.
12. If it is necessary to transfer the files to a UNIX computer using FTP, you must change the permissions to make them executable (using the `chmod +x` command, for example).

---

## Task 16-3: Installing SAP Crystal Reports

This section discusses:

- Understanding the SAP Crystal Reports Installation
- Installing SAP Crystal Reports 2008
- Installing SAP Crystal Reports 2011
- Installing Crystal Reports Runtime Engine for .NET Framework 4

### Understanding the SAP Crystal Reports Installation

If you choose to use Crystal Reports to design reports on a Microsoft Windows-based workstation (also known as the PeopleTools Development Environment), you must install either the SAP Crystal Reports 2008 or Crystal Reports 2011 application. Process Scheduler servers that will be used to run Crystal Reports do not require either SAP Crystal Reports application to be installed, but do require that the SAP Crystal Reports Runtime Engine for .NET Framework 4 be installed for either version of SAP Crystal Reports. Upon configuration of the Process Scheduler domain, the required PeopleSoft/Crystal Runtime integration will be configured in order to support the running of PeopleSoft Crystal Reports processes.

---

**Note.** Although some versions of Crystal Reports include web server applications such as Web Component Server, they are not tested, certified, or supported by Oracle for the PeopleSoft installation. Consult My Oracle Support for the current certification information for SAP Crystal Reports 2008 and Crystal Reports 2011.

---

### See Also

*PeopleTools: Crystal Reports for PeopleSoft*

### Task 16-3-1: Installing SAP Crystal Reports 2008

This section assumes that you downloaded the necessary files to a directory referred to here as *BOE\_INSTALL*. You must log on to the Microsoft Windows machine as a user included in the Administrator group.

See Obtaining SAP BusinessObjects and Crystal Reports Software.

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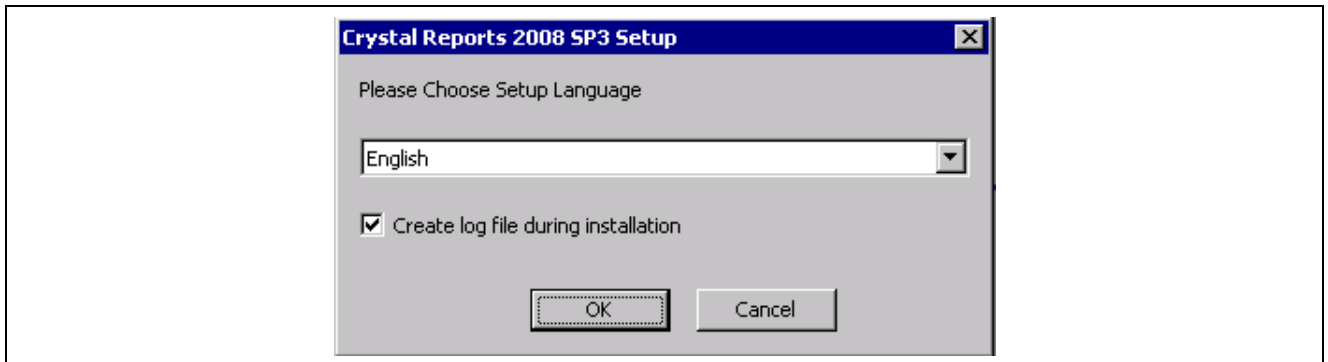
**Note.** For instructions on installing SAP Crystal Reports 2011, see the next section.

---

To install Crystal Reports 2008:

1. Change directory to *BOE\_INSTALL* and run `setup.exe`.
2. Select the setup language.  
Select the option to Create a log file during installation if desired, and then click OK.



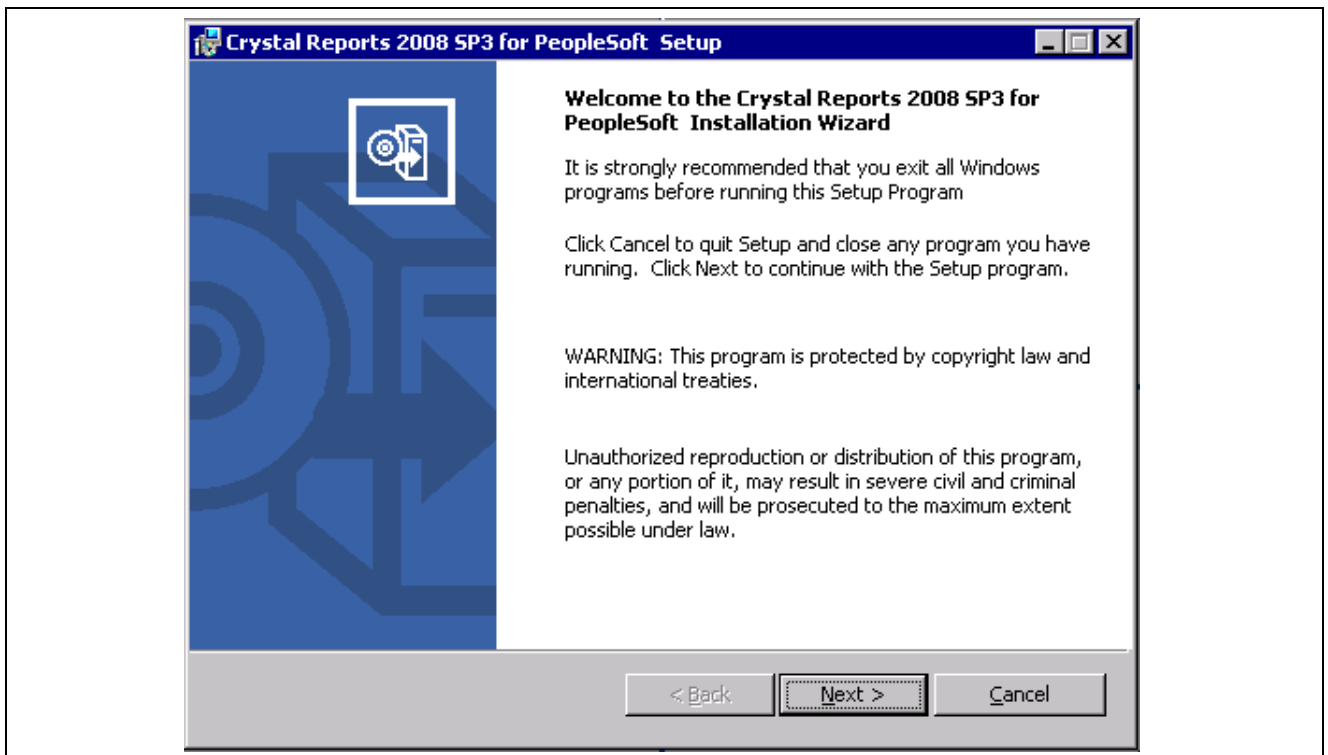


Crystal Reports 2008 Setup dialog box

The Welcome window appears.

3. Click Next.

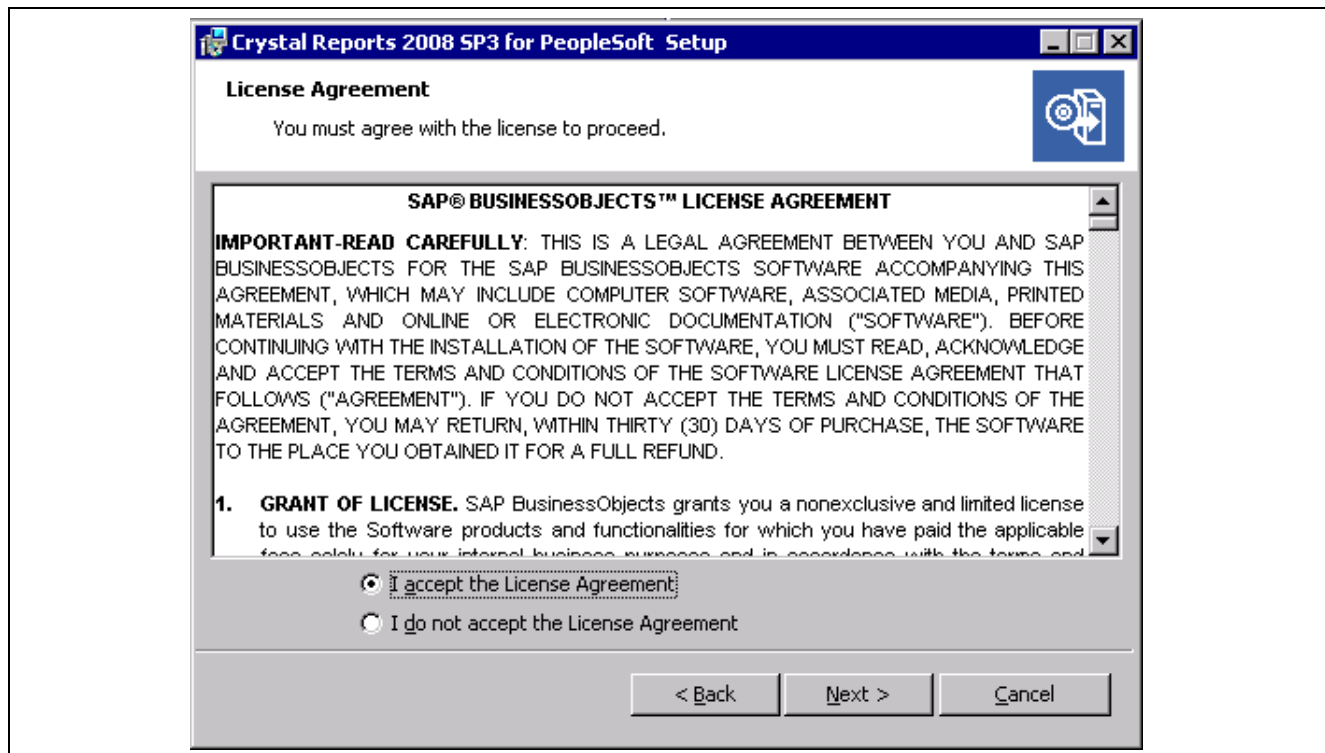
The window includes the recommendation to exit all Windows programs before running the setup.



Crystal Reports 2008 Setup Welcome window

4. Select the I accept the License Agreement radio button and click Next.

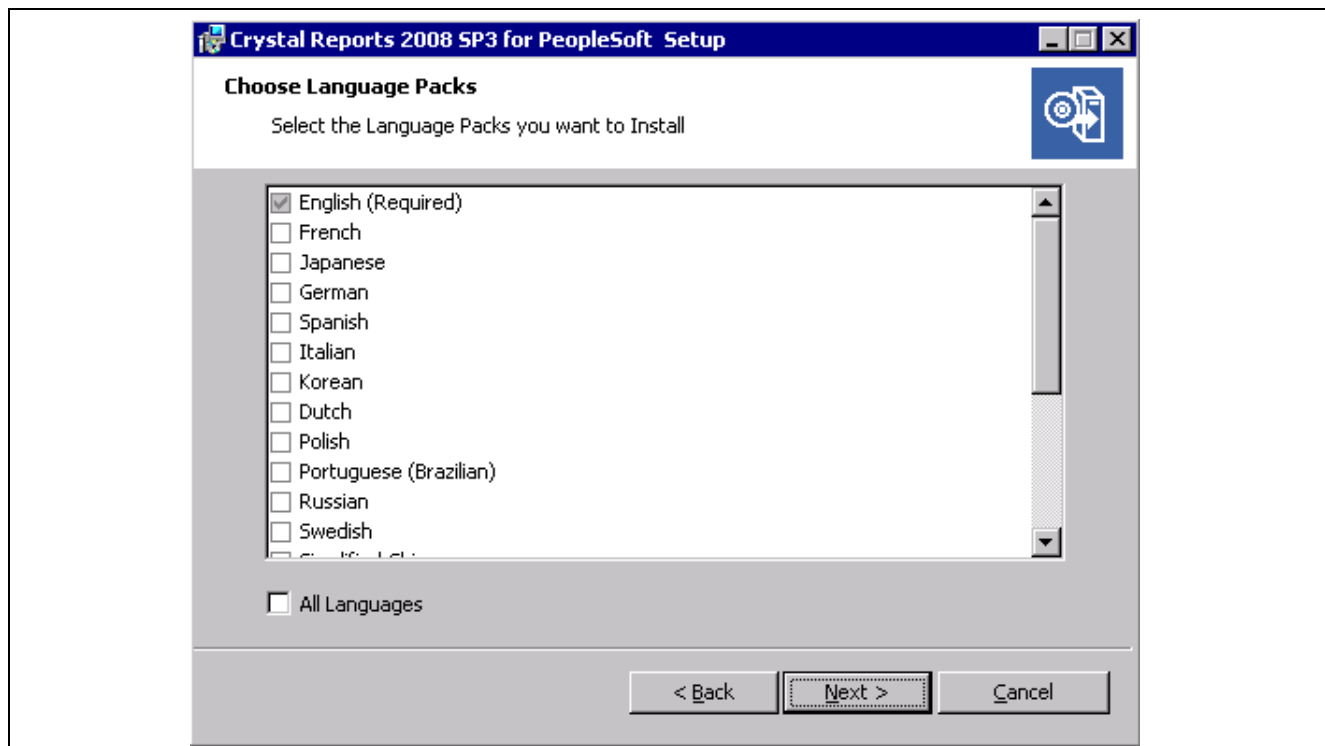
You must agree with the SAP BusinessObjects license agreement to proceed.



Crystal Reports 2008 Setup License Agreement window

5. Select the languages that you want to install and click Next.

English is required.

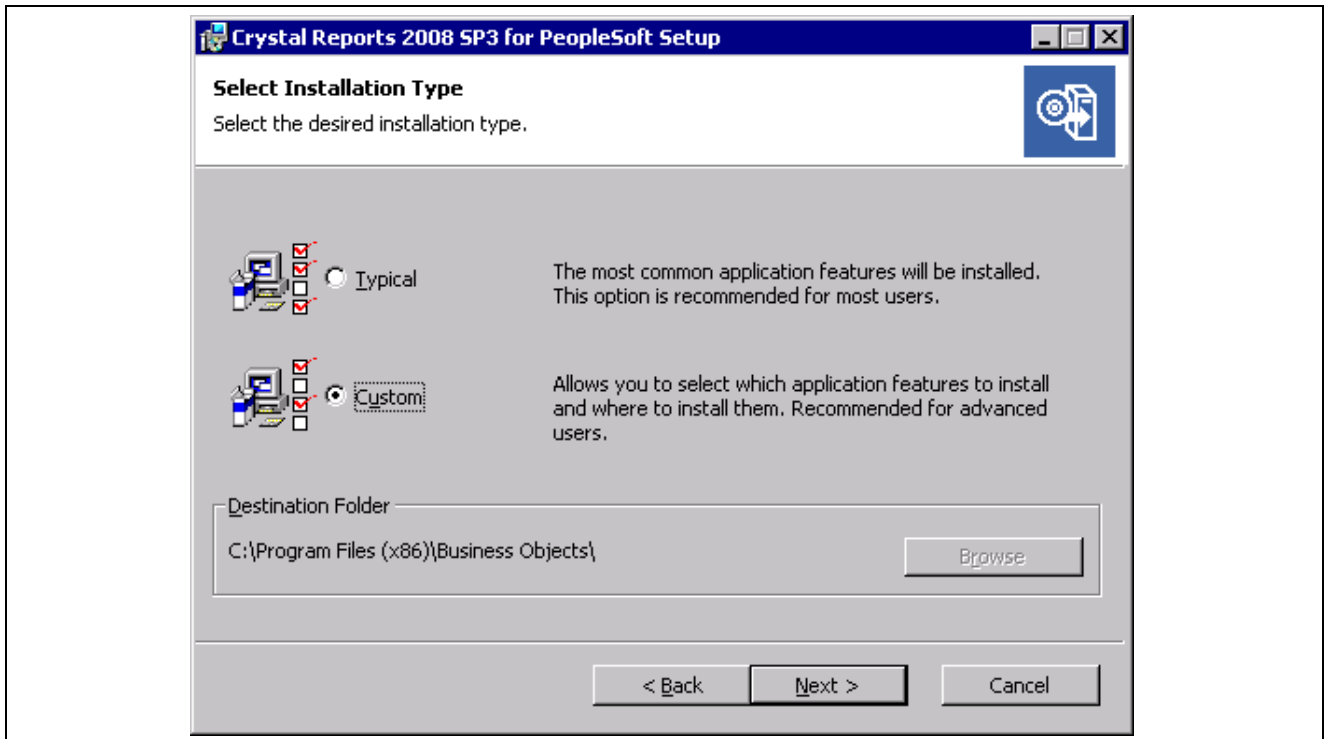


Crystal Reports 2008 Setup Choose Language Packs window

6. Select the Custom option and click Next.

If necessary, use the Browse button to set your destination folder.

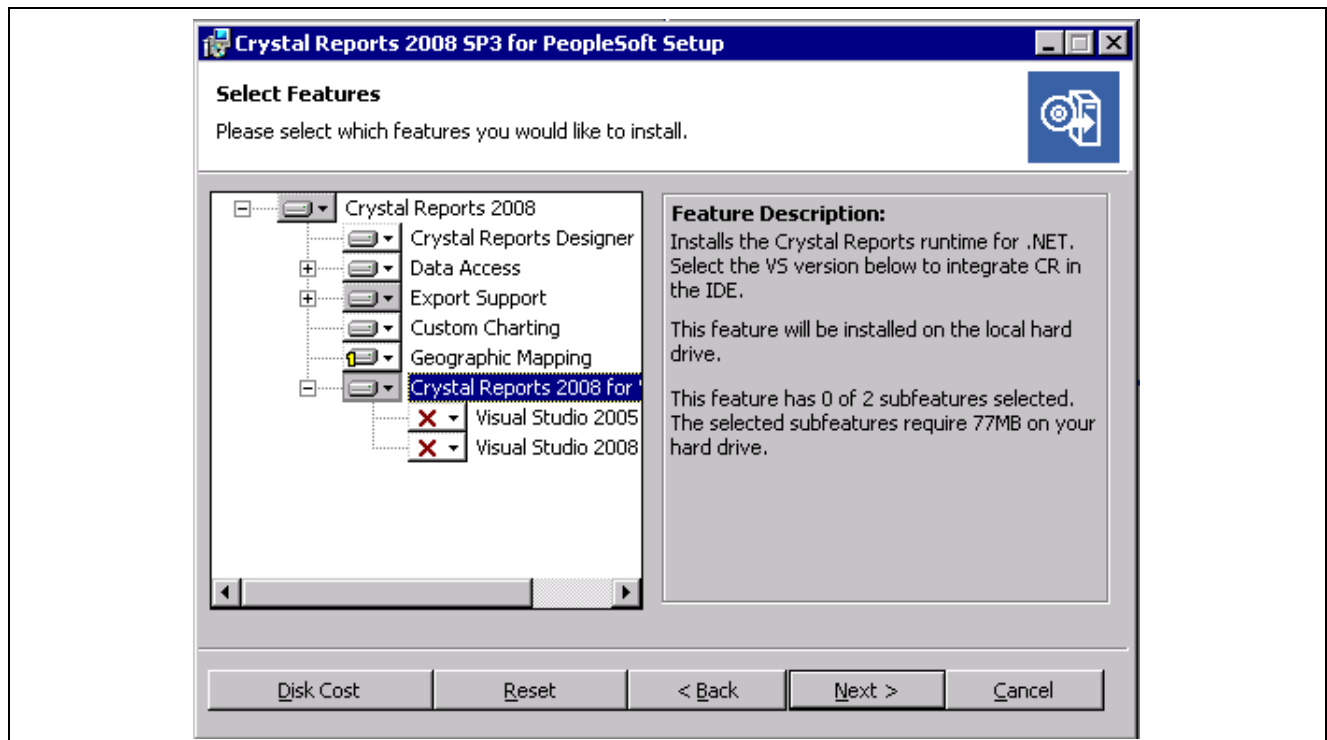
**Note.** If a Business Objects product is already installed, the destination folder will point to that and cannot be changed.



Crystal Reports 2008 Setup Select Installation Type window

7. On the Select Features window, under Crystal Reports 2008 for Visual Studio, clear all subfeatures under it, and then click Next.

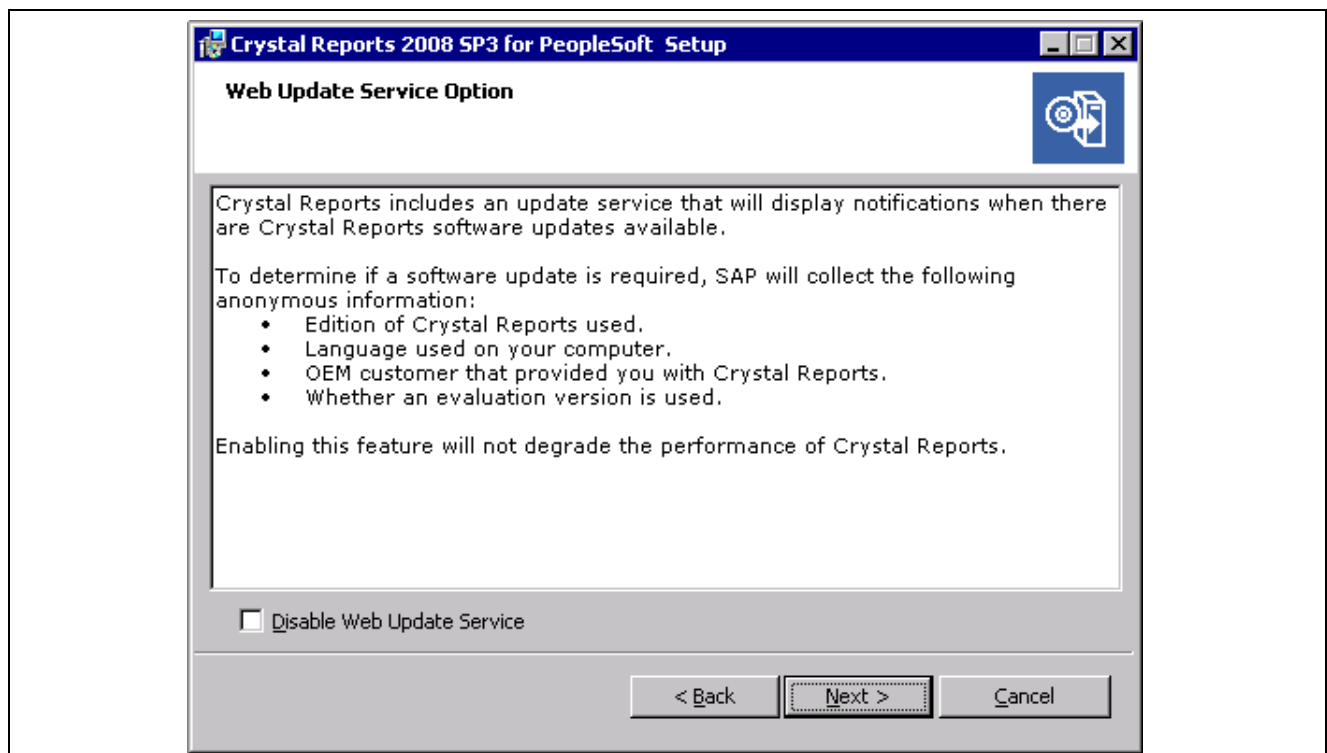
**Note.** Make sure that the feature “Crystal Reports 2008 for Visual Studio” is selected, only deselecting the subfeatures under it, as shown in the example.



Crystal Reports 2008 Setup Select Features window

8. Select the option to disable the Web Update Service if desired on the Web Update Service Option window, and then click Next.

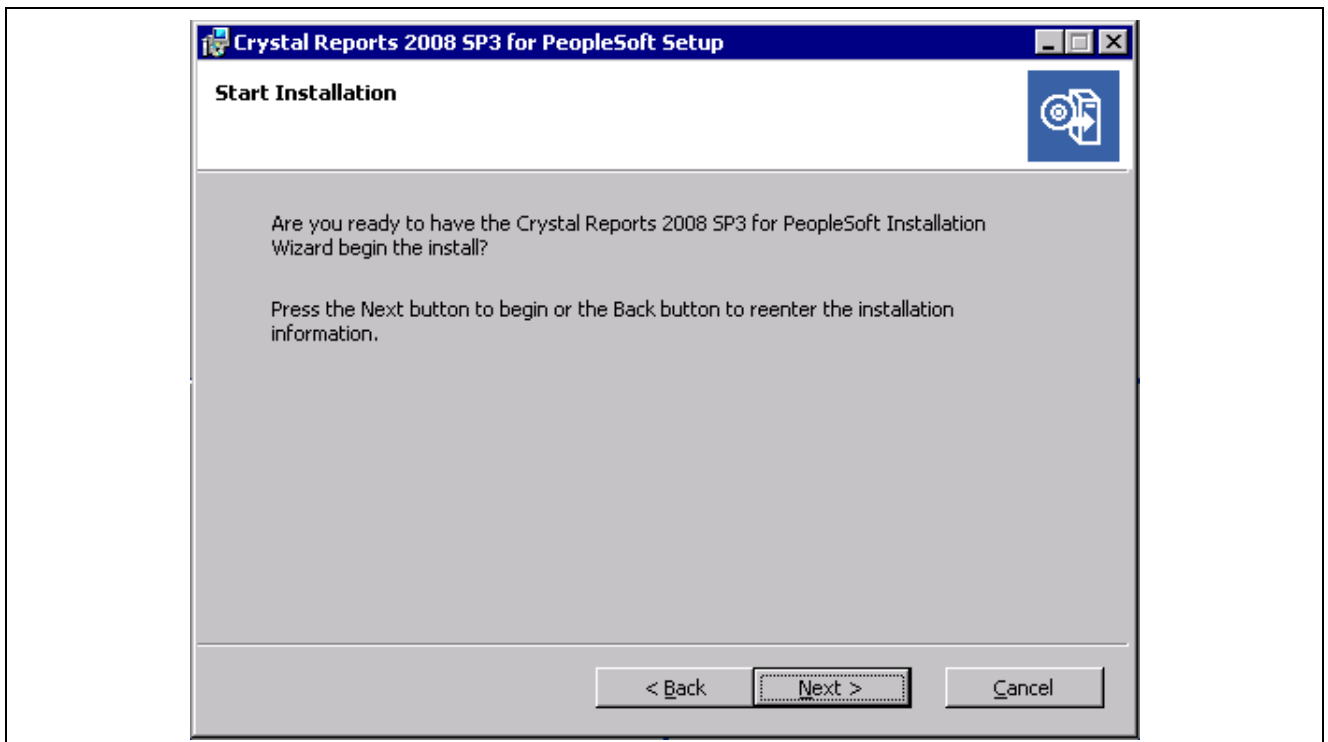
The information in this example explains that the update service offers notification of Crystal Reports software updates, and gives privacy information.



Crystal Reports 2008 Setup Web Update Service Option window

9. Click Next to begin the installation.

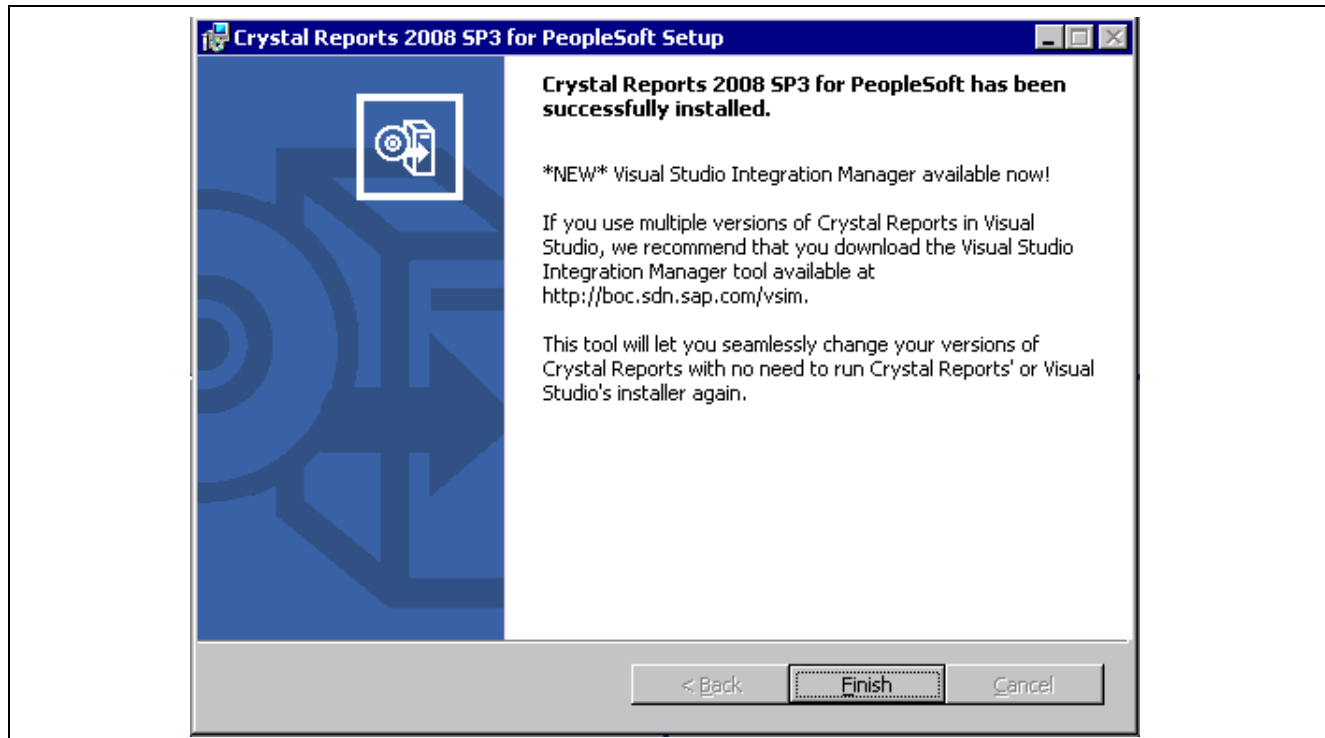
Click Back to go to a previous window to change the installation information.



Crystal Reports 2008 Setup Start Installation window

10. Click Finish to exit the installation window.

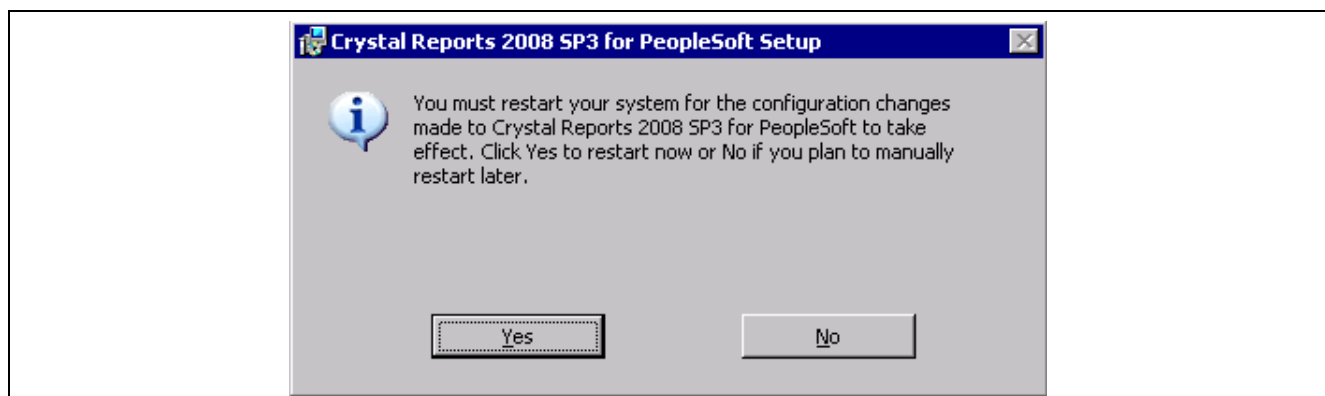
You must reboot your machine to complete the installation.



Crystal Reports 2008 Setup Successful Installation window

11. Click Yes or No when asked whether to restart your machine.

The dialog box includes the information that you may restart now or later.



Crystal Reports 2008 Setup restart message

## Task 16-3-2: Installing SAP Crystal Reports 2011

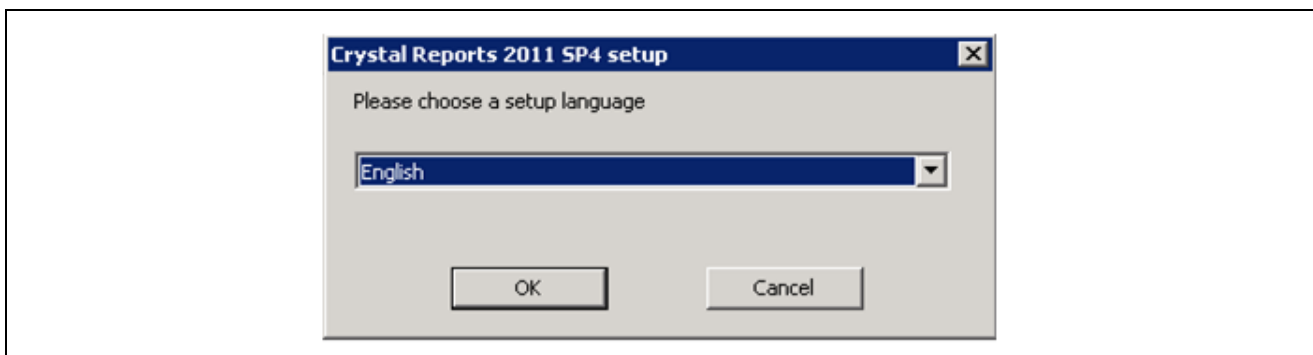
This section assumes that you downloaded and extracted the necessary files to a directory referred to here as *BOE\_INSTALL*. You must log on to the Microsoft Windows machine as a user included in the Administrator group.

See Obtaining SAP BusinessObjects and Crystal Reports Software.

To install Crystal Reports 2011:

1. Change directory to *BOE\_INSTALL\DATA\_UNITS\CrystalReports* and run *setup.exe*.
2. Select the setup language.

Select the option to Create a log file during installation if desired, and then click OK.

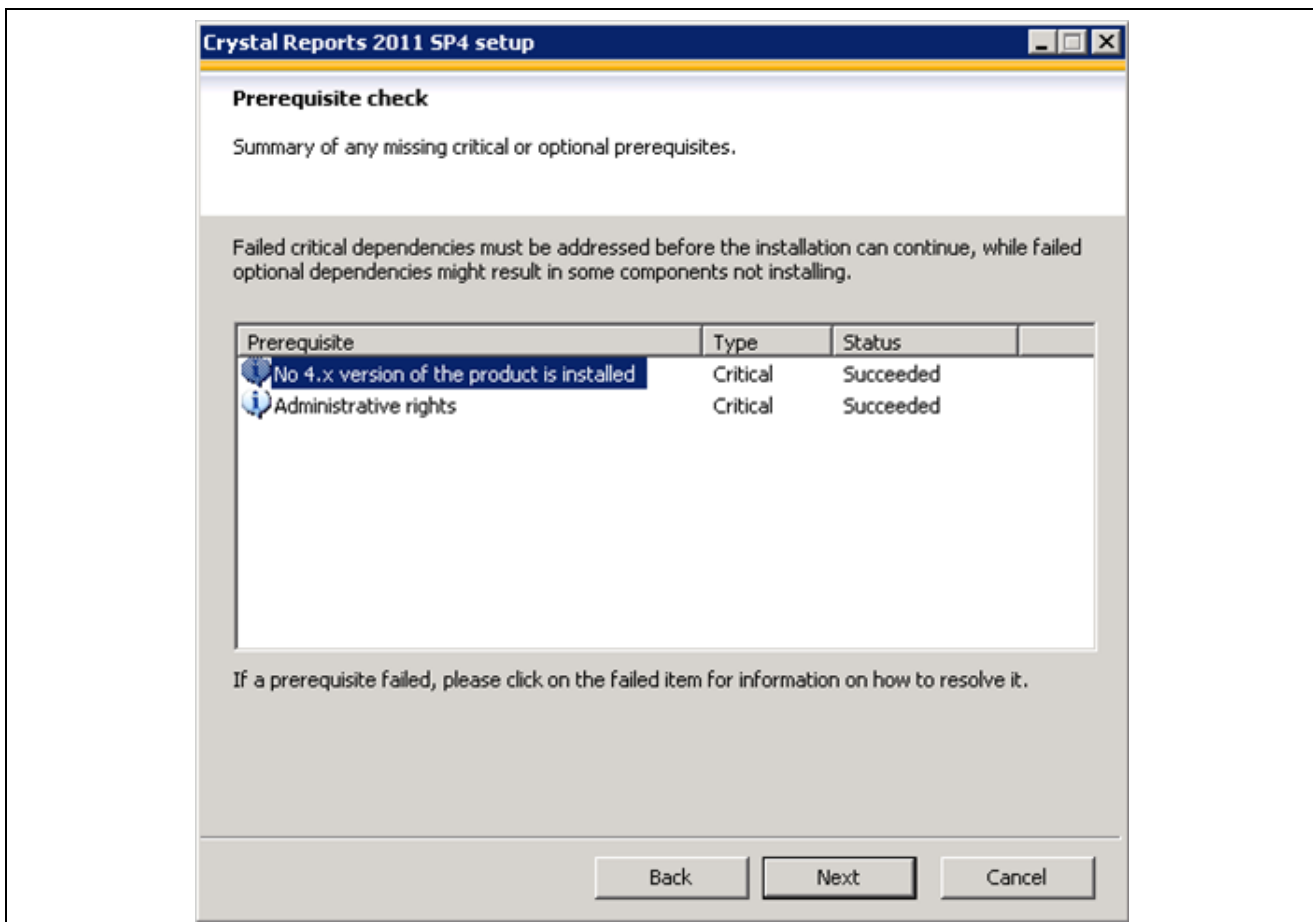


Crystal Reports 2011 SP4 Setup Language dialog box

The Prerequisite check window appears.

3. Review the summary of prerequisites.

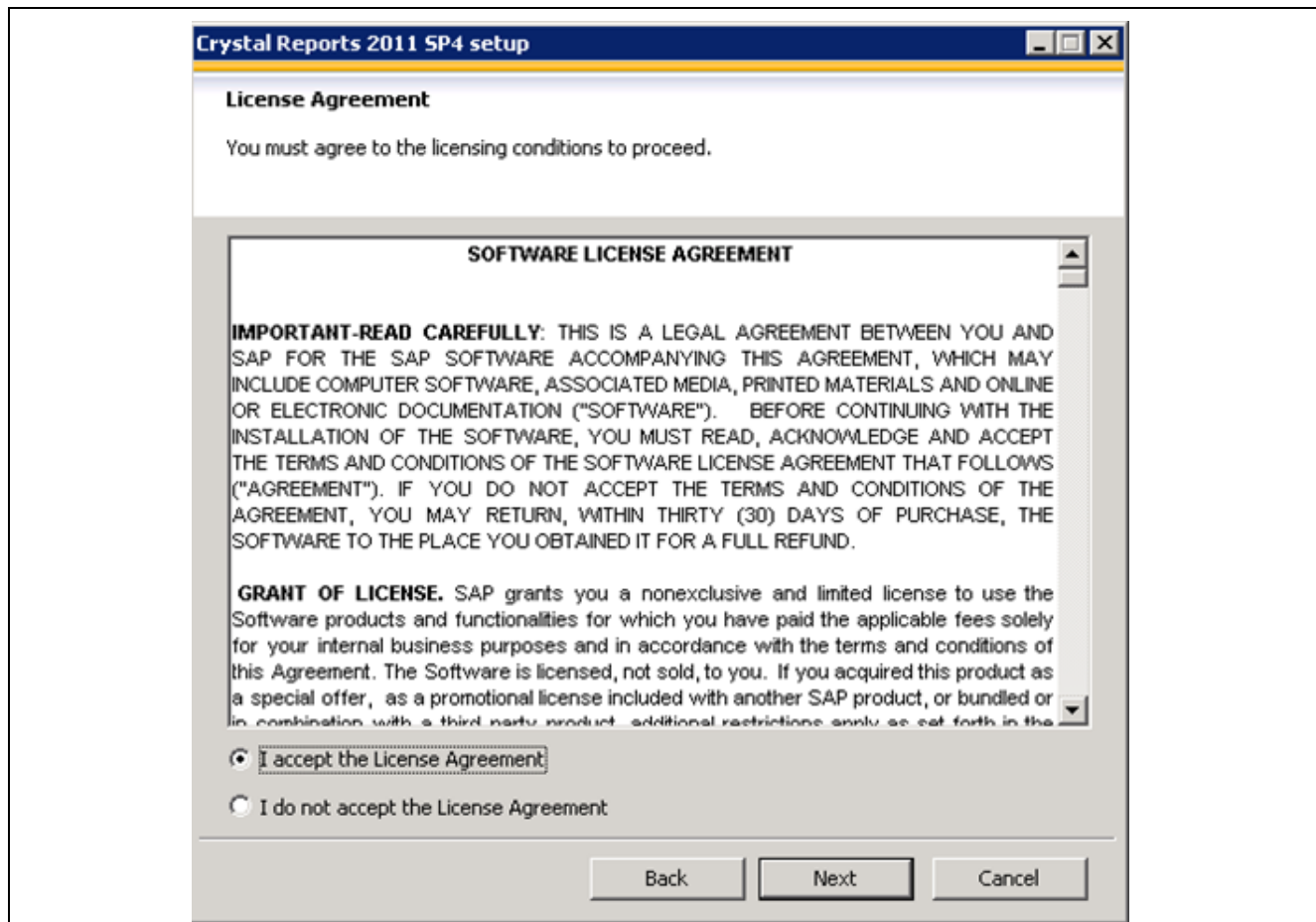
If any prerequisites are missing, you can click on the failed item for information on how to resolve it. In this example, the check was successful. Click Next to proceed.



Crystal Reports 2011 SP4 Setup Prerequisites Check window

4. Select the I accept the License Agreement radio button and click Next.

You must agree with the SAP BusinessObjects license agreement to proceed.

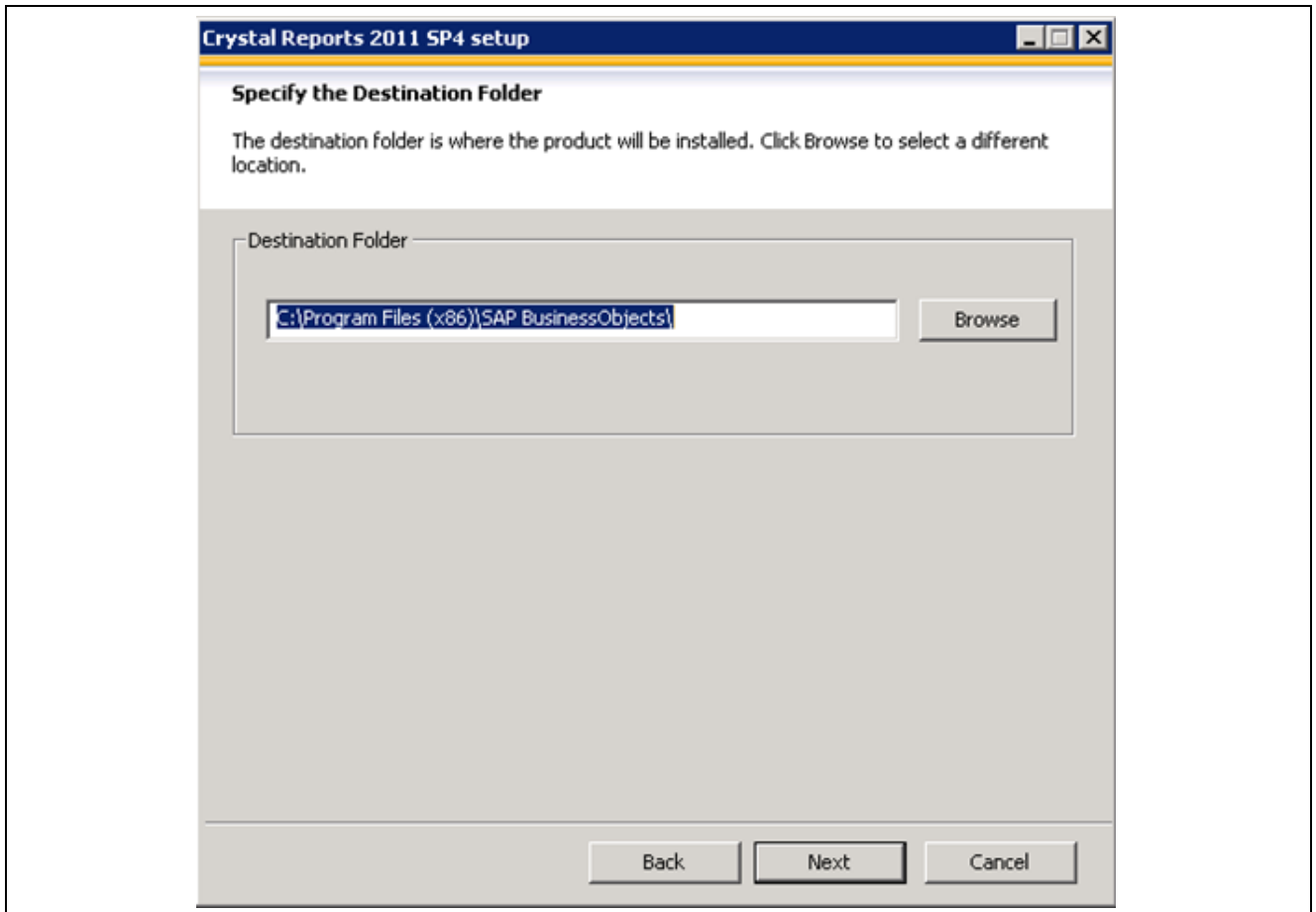


Crystal Reports 2011 SP4 Setup License Agreement window

5. Specify the destination folder for the Crystal Reports 2011 SP4 installation, and click Next.

The default location for the installation, as shown in this example, is C:\Program Files (x86)\SAP BusinessObjects.

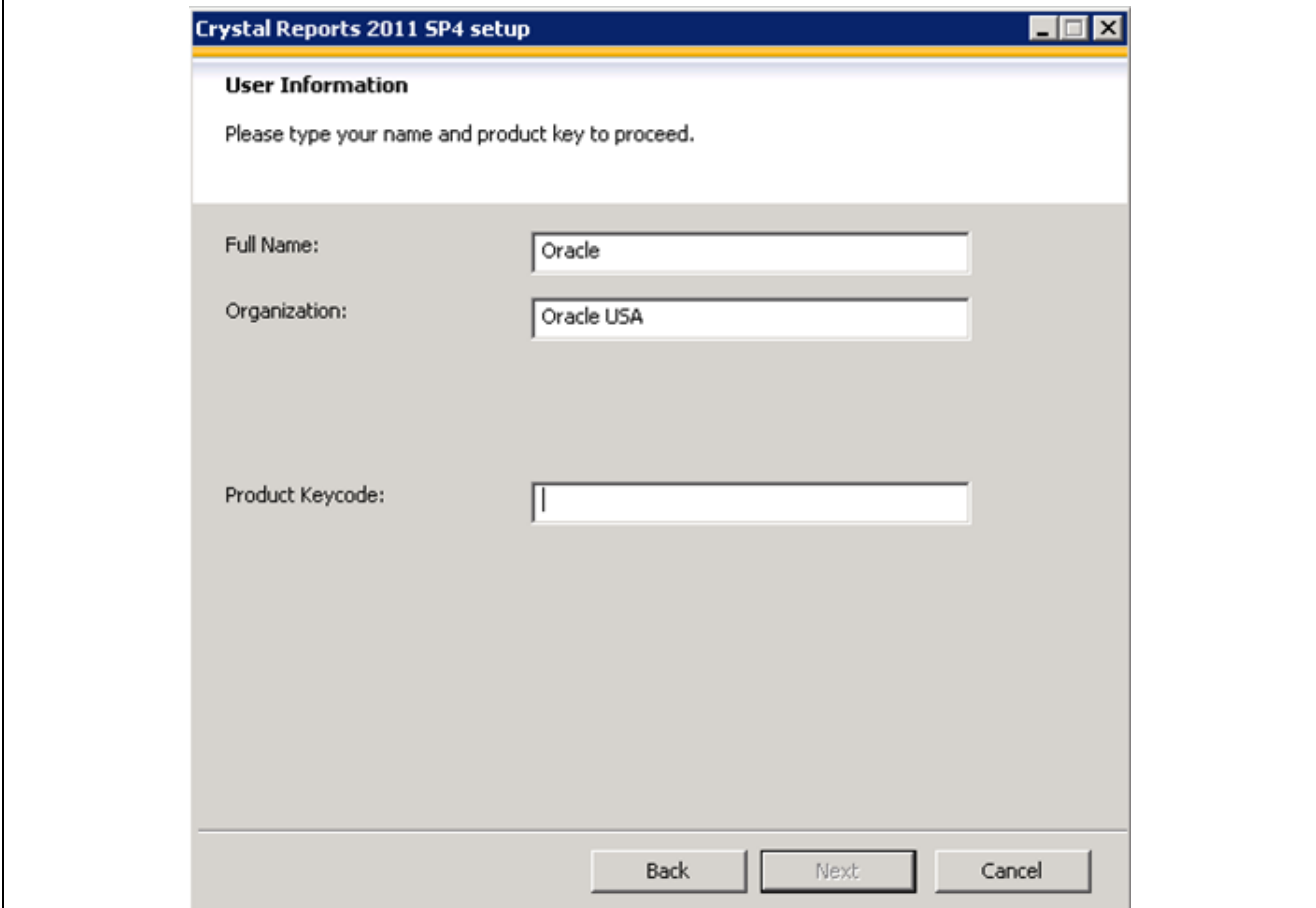




Crystal Reports 2011 SP4 Setup Destination Folder window

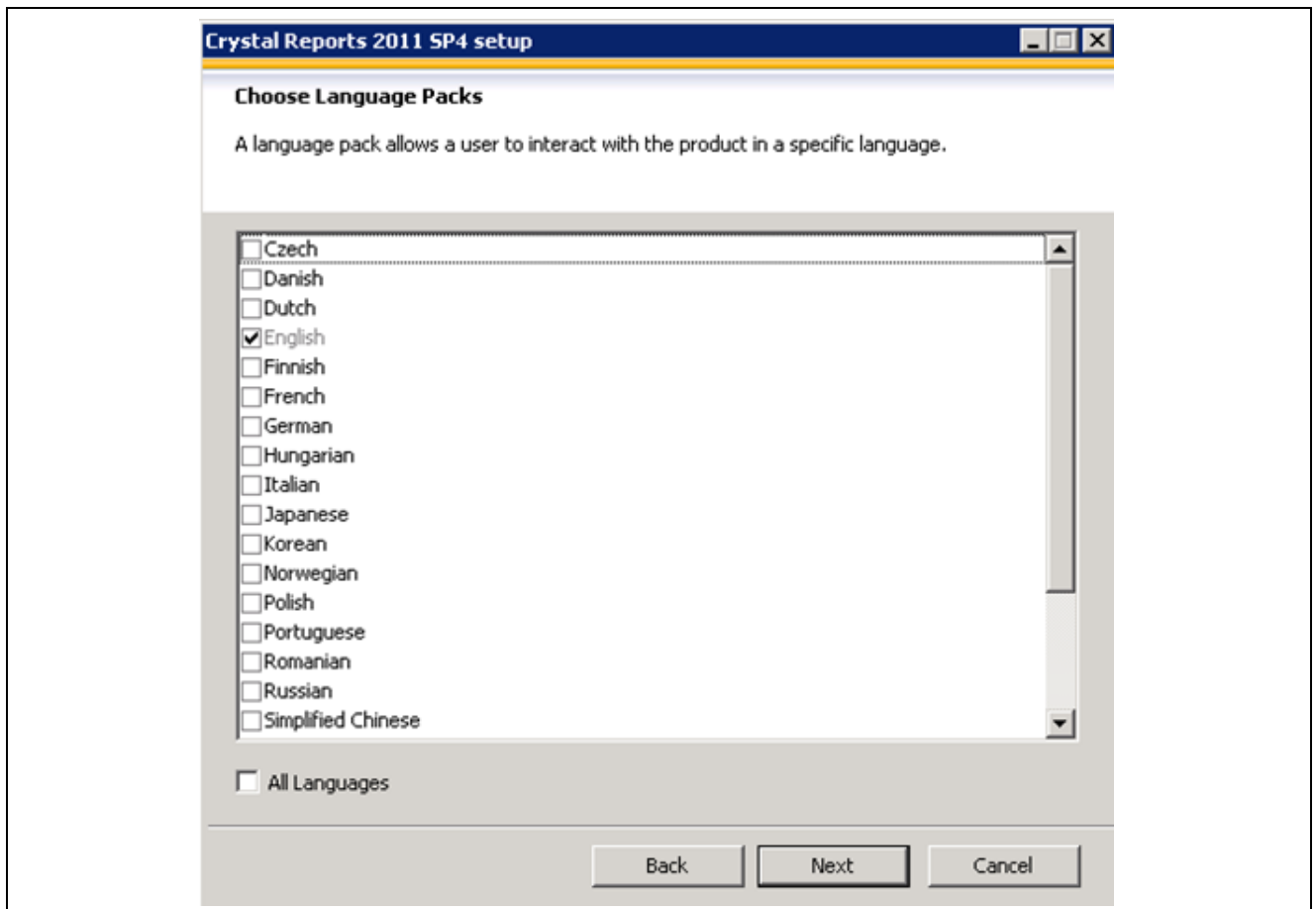
6. Enter a user name, organization name, and the product keycode on the User Information window, and then click Next.

In this example, the user name is Oracle, and the organization name is Oracle USA. The Product Keycode field is blank in the example.

The image shows a Windows-style dialog box titled "Crystal Reports 2011 SP4 setup". The dialog has a blue title bar with standard minimize, maximize, and close buttons. The main content area is white and contains the heading "User Information" in bold. Below the heading is a prompt: "Please type your name and product key to proceed." There are three input fields: "Full Name:" with the text "Oracle", "Organization:" with the text "Oracle USA", and "Product Keycode:" which is currently empty. At the bottom of the dialog, there are three buttons: "Back", "Next", and "Cancel". The "Next" button is highlighted with a darker border, indicating it is the default or active button.

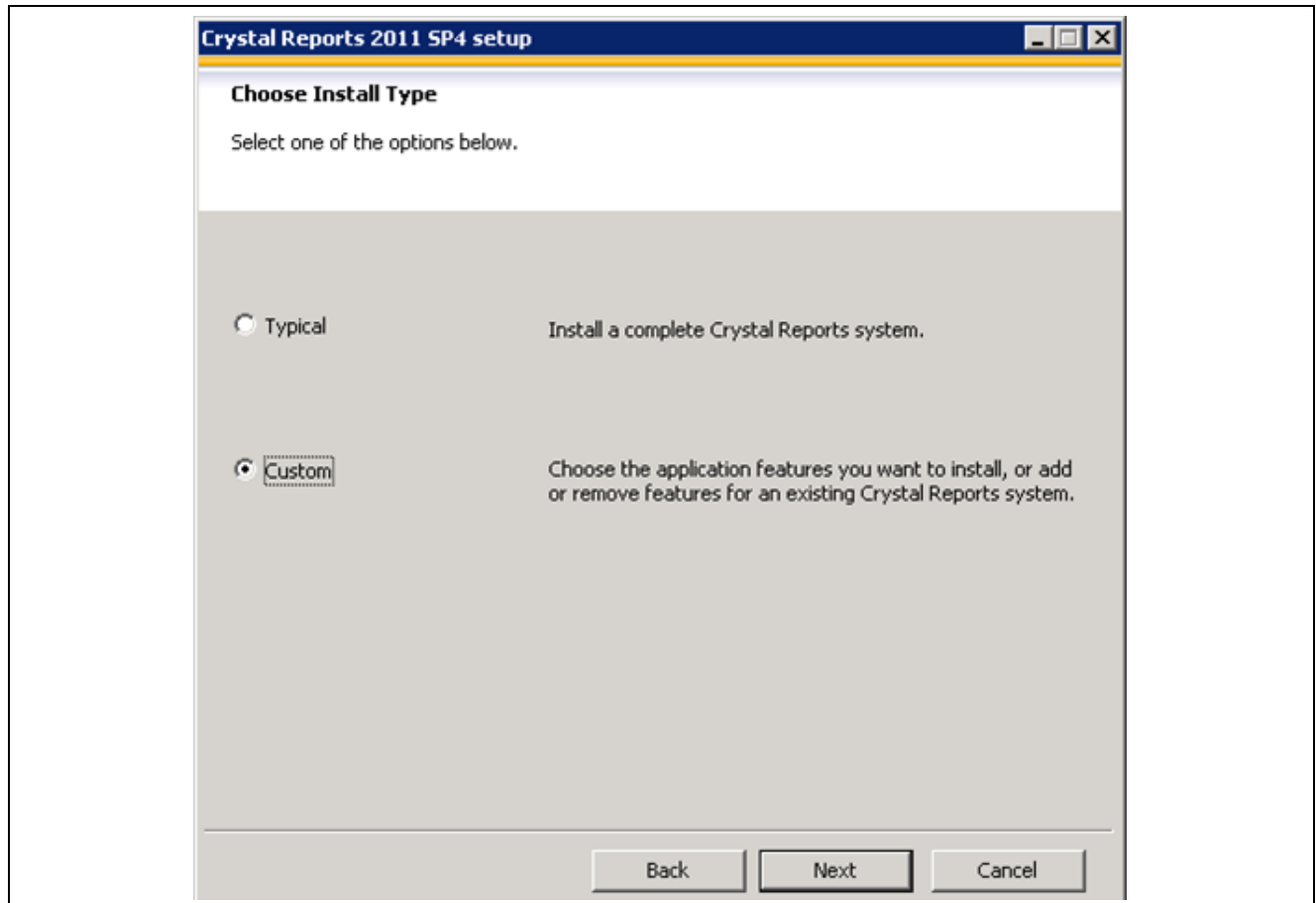
Crystal Reports 2011 SP4 Setup User Information window

7. Select the languages that you want to install and click Next.  
English is required, and is checked by default, as shown in this example.



Crystal Reports 2011 SP4 Setup Choose Language Packs window

8. Select the Custom option on the Choose Install Type window, as shown in this example, and click Next.



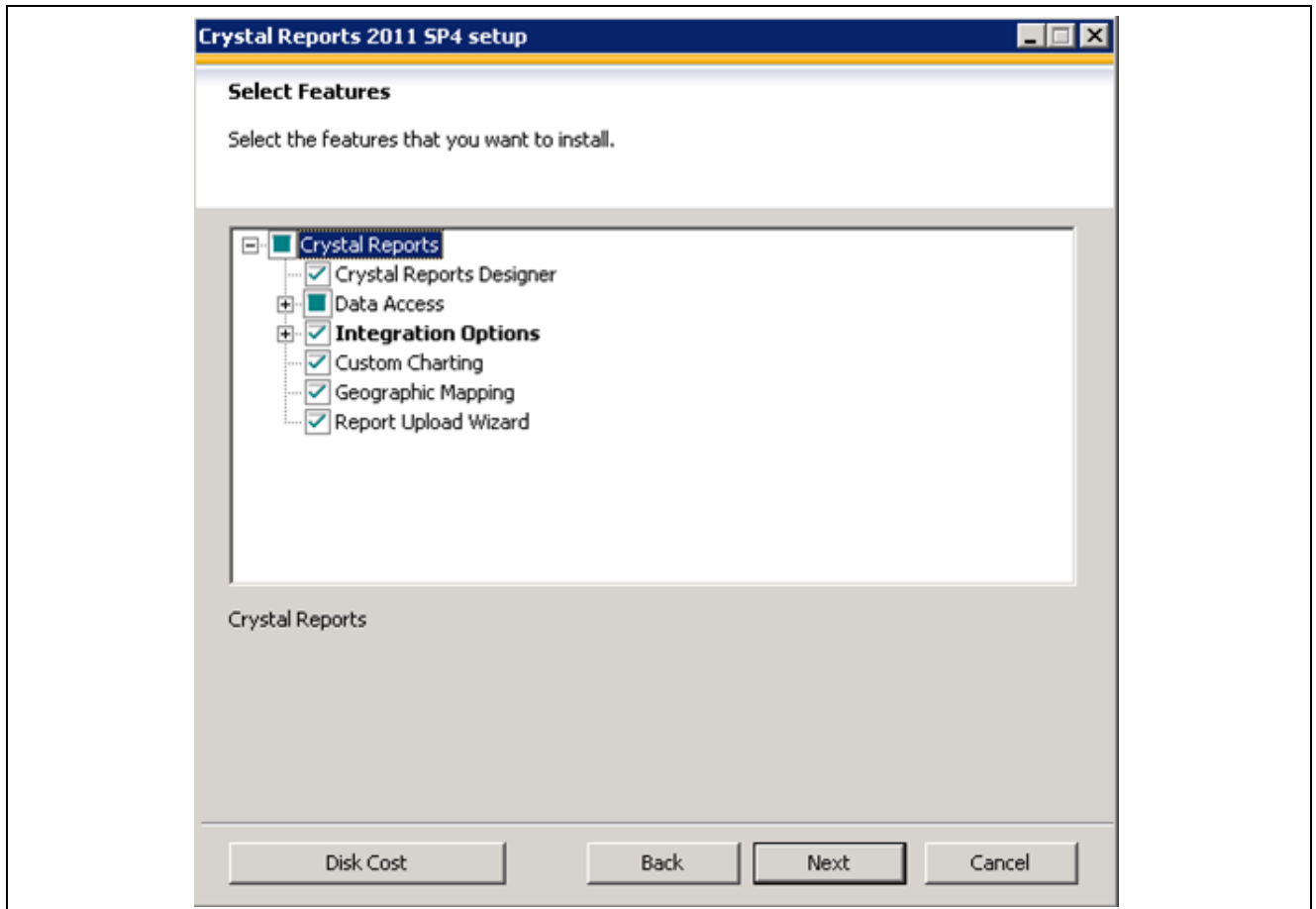
Crystal Reports 2011 SP4 Setup Choose Install Type window

9. On the Select Features window, verify that all features under Crystal Reports are selected, as shown in this example, and then click Next.

---

**Note.** Check boxes with shading indicate that the option and its subfeatures are selected.

---



Crystal Reports 2011 SP4 Select Features window

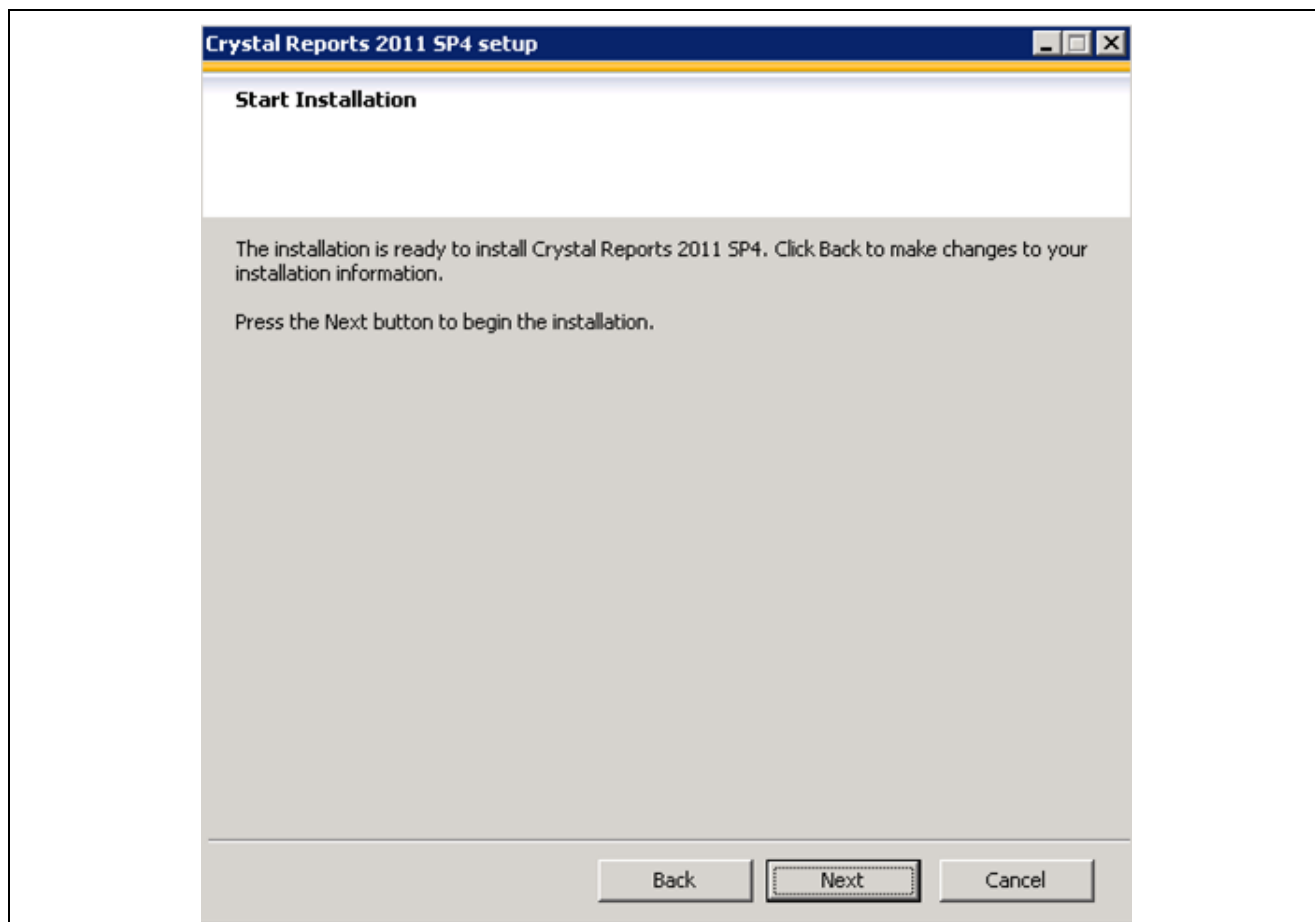
These features and subfeatures are required:

- Crystal Reports
- Crystal Reports Designers
- Data Access
- Integration Options
- Custom Charting
- Geographic Mapping
- Report Upload Wizard

10. Click Next to begin the installation.

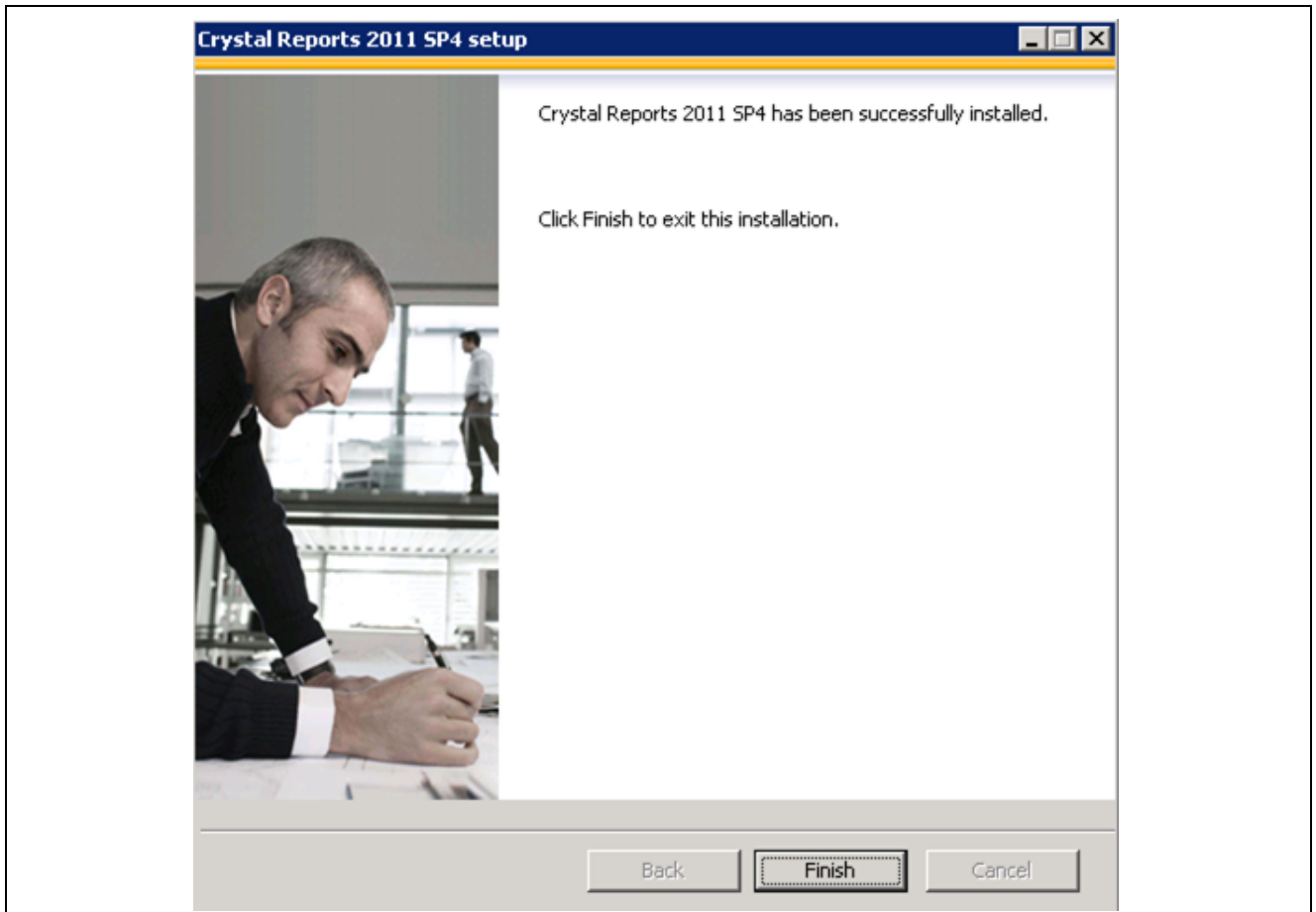
Click Back to go to a previous window to change the installation information.

You will see a progress indicator during the installation process.



Crystal Reports 2011 SP4 Setup Start Installation window

11. When the installation is complete, click Finish to exit the installation window.



Crystal Reports 2011 SP4 Setup Successful Installation window

### Task 16-3-3: Installing Crystal Reports Runtime Engine for .NET Framework 4

Before installing the SAP Crystal Reports runtime engine for .NET Framework 4 (SAP Crystal Reports version for Visual Studio 2010), read this prerequisite information. SAP Crystal Reports runtime engine for .NET Framework 4 requires Microsoft .NET Framework 2.0 and 4.0. Follow the instructions to install the Microsoft .NET Framework versions 3.5 and 4.0 which are included in the task “Installing Products for PS/nVision” if not already installed on the machine. Version 3.5 includes the .NET 2.0 Framework.

See "Setting Up Process Scheduler for Windows," Installing Products for PS/nVision.

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**Note.** The label of the installation wizard windows in this section include “32-bit”. SAP Crystal Reports 2011 is a 32-bit application, but it is supported on 64-bit operating systems.

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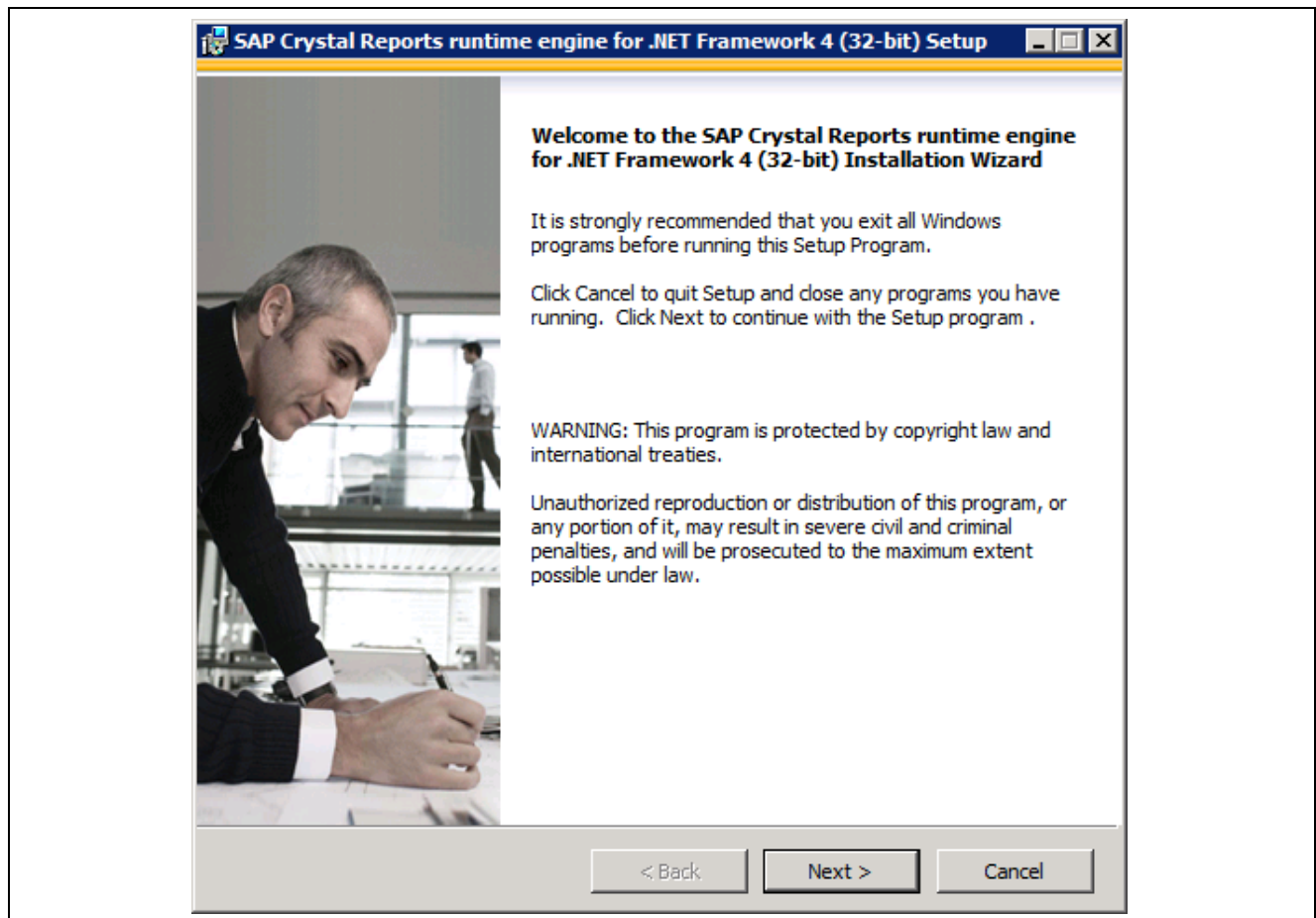
To install the runtime engine:

1. Change directory to *BOE\_INSTALL* and extract the contents of the CRforVS\_redist\_install\_32bit\_13\_0 zip file to this directory.
2. Run the installer file, for example, CRRuntime\_32bit\_13\_0\_1.msi.

The Welcome window appears.

3. Click Next.

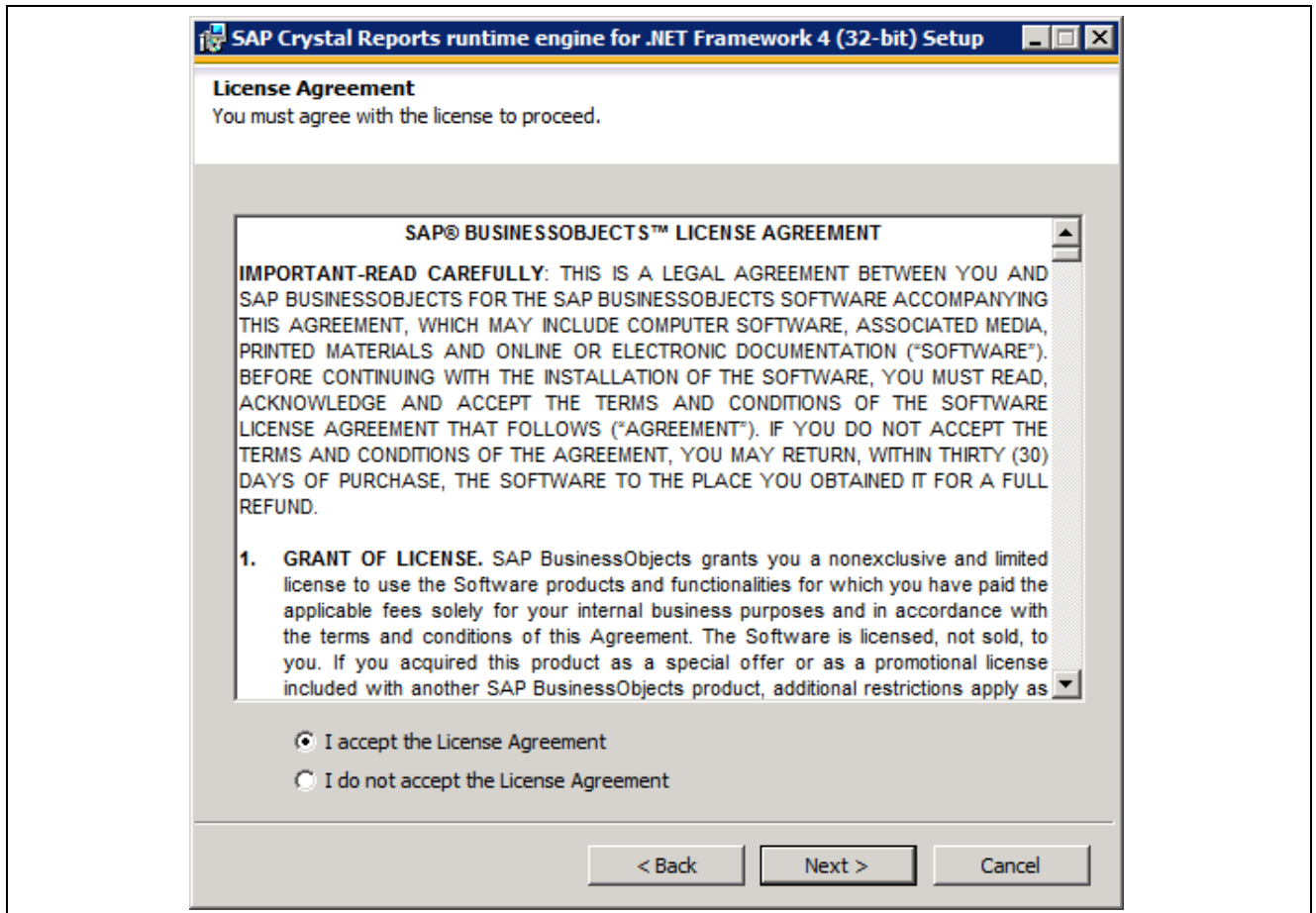
The window includes the recommendation to exit all Windows programs before running the setup program.



SAP Crystal Reports runtime engine for .NET Framework 4 (32-bit) Setup Welcome window

4. Select the I accept the License Agreement option and click Next.  
You must accept the SAP BusinessObject license agreement to proceed.

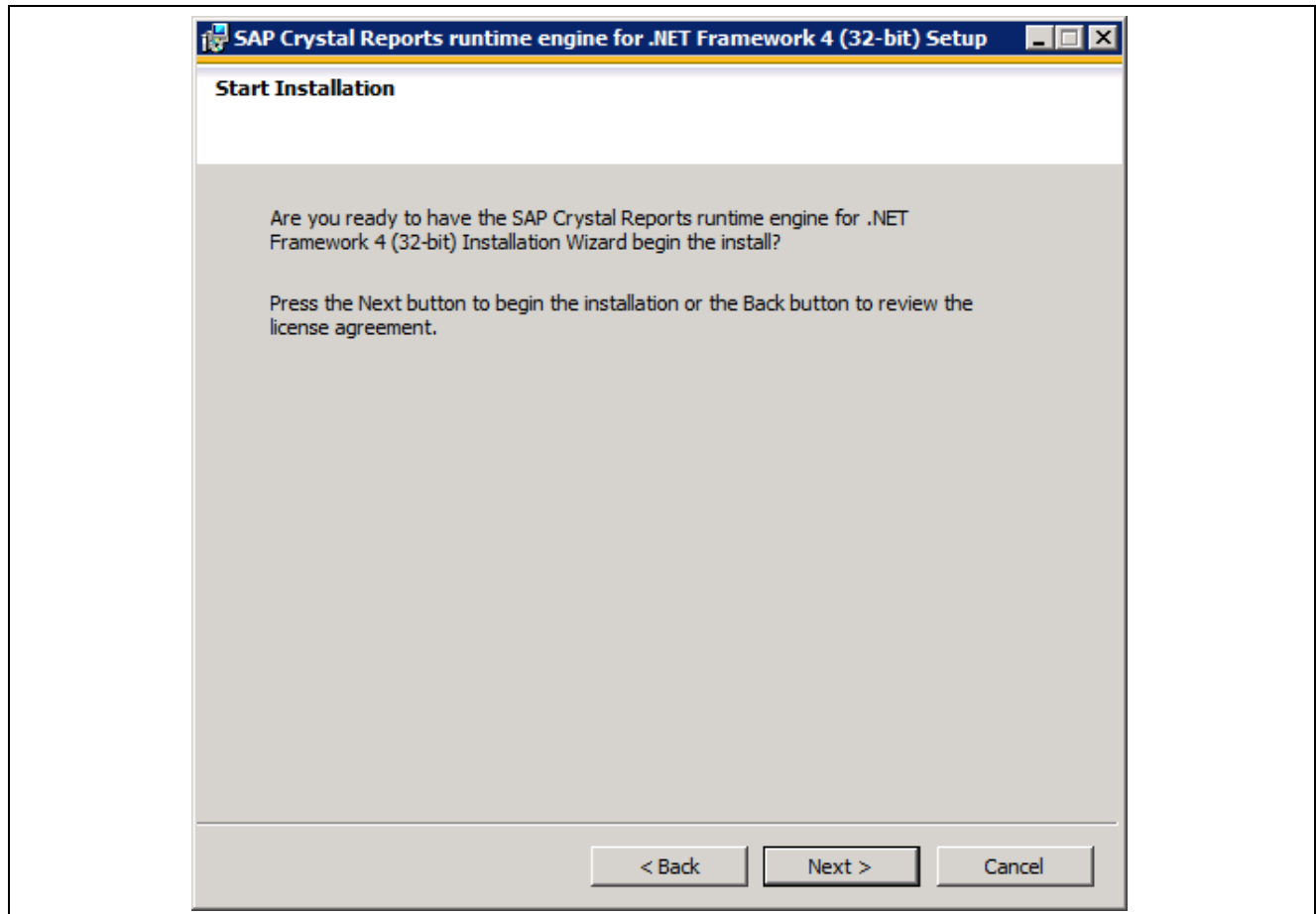




SAP Crystal Reports runtime engine for .NET Framework 4 (32-bit) Setup License Agreement

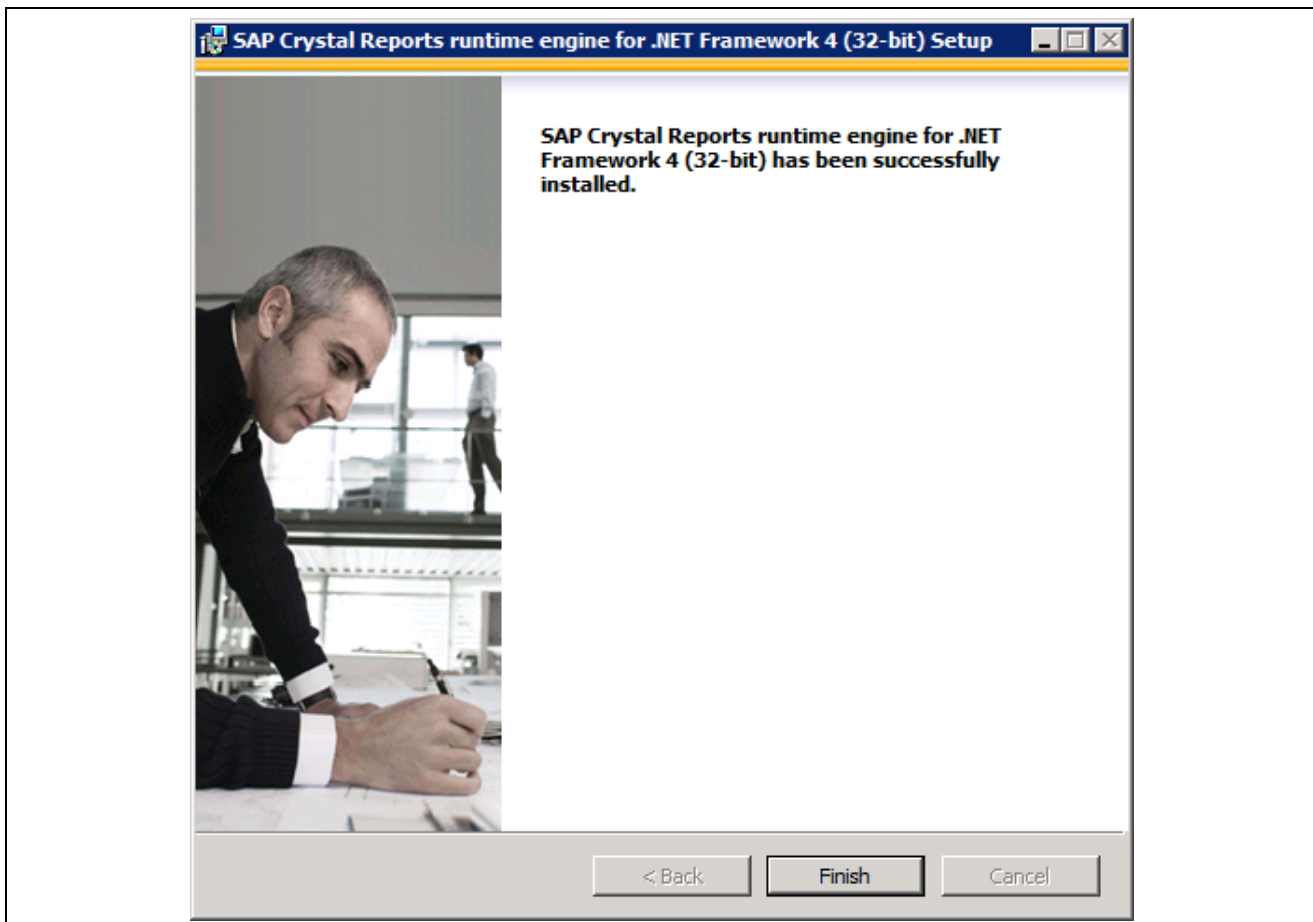
5. Click Next to begin the installation.

Click Back to go to a previous window to change the installation information.



SAP Crystal Reports runtime engine for .NET Framework 4 (32-bit) Setup Start Installation window

6. Click Finish to exit the installation window.



SAP Crystal Reports runtime engine for .NET Framework 4 (32-bit) Setup Successful Installation window

The default installation location is C:\Program Files (x86)\SAP BusinessObjects\Crystal Reports for .NET Framework 4.0\Common\SAP BusinessObjects Enterprise XI 4.0\win32\_x86.

---

**Note.** If you specify an installation location (destination folder) for SAP Crystal Reports 2011 that is different from the installation location for the SAP Crystal Reports runtime engine for .NET Framework 4, see the section “Setting Up the Install Workstation,” Installing PeopleSoft ODBC Driver and Configuring the SAP Crystal Reports .NET Runtime.

---

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**Note.** You will need to convert all your existing custom Crystal Reports to Crystal Reports 2008 or Crystal Report 2011. See the section Converting Crystal Reports in this chapter for additional information and tasks.

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### See Also

Configuring Crystal Reports 2008 for SAP BusinessObjects Enterprise XI 3.1

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## Task 16-4: Installing SAP BusinessObjects Enterprise XI 3.1

This section discusses:

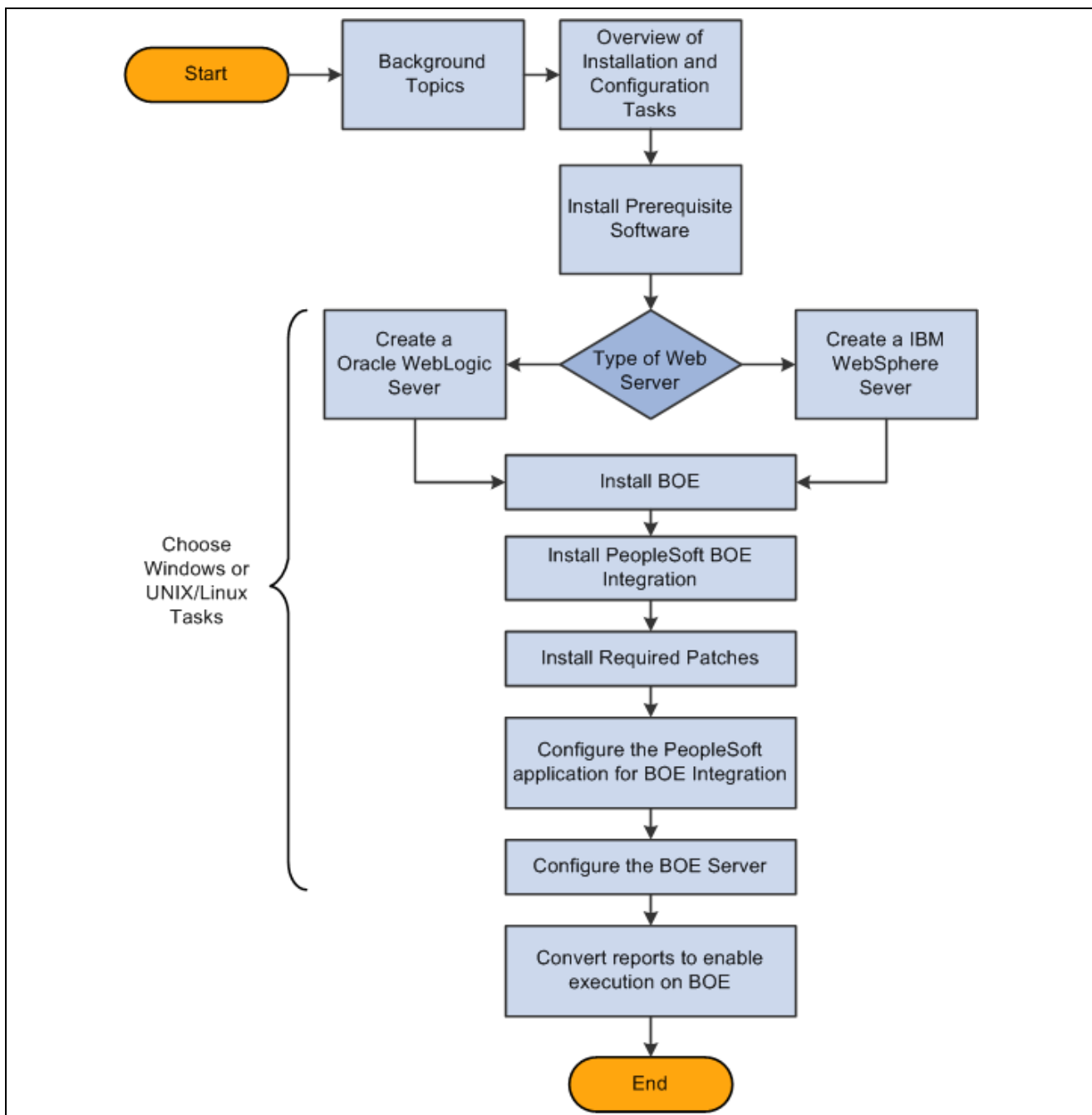
- Understanding the SAP BusinessObjects Enterprise XI 3.1 Installation

- Understanding Integration Between SAP BusinessObjects Enterprise XI 3.1 and PeopleSoft Enterprise
- Understanding Query Access Services
- Reviewing Key SAP BusinessObjects Enterprise XI 3.1 Components
- Planning your SAP BusinessObjects Enterprise XI 3.1 Integration
- Installing the PeopleSoft Application Environment
- Creating a Web Server for SAP BusinessObjects Enterprise XI 3.1 on Windows
- Installing SAP BusinessObjects Enterprise XI 3.1 on Windows
- Installing BusinessObjects Integration Kit for PeopleSoft on Windows
- Installing Fix Packs or Service Packs on Windows
- Creating the BusinessObjects Enterprise Archive and Installing Files on Windows
- Extracting the Archive on Windows
- Installing TrueType Fonts on Windows
- Creating a Web Server for SAP BusinessObjects Enterprise XI 3.1 on UNIX or Linux
- Installing SAP BusinessObjects Enterprise XI 3.1 on UNIX or Linux
- Installing BusinessObjects Integration Kit for PeopleSoft on UNIX or Linux
- Installing Fix Packs or Service Packs on UNIX or Linux
- Creating the BusinessObjects Enterprise Archive and Installing Files on UNIX or Linux
- Extracting the Archive on UNIX or Linux
- Installing TrueType Fonts in UNIX or Linux
- Confirming Access to the SAP BusinessObjects Enterprise XI 3.1 Administration and Central Management Console
- Configuring the PeopleSoft Application for BusinessObjects Enterprise XI 3.1 Integration
- Importing the Security Certificate to the Oracle WebLogic Server
- Importing Security Certificate to the IBM WebSphere Server
- Configuring the SAP BusinessObjects Enterprise XI 3.1 Server
- Configuring SAP Crystal Reports 2008 or Crystal Reports 2011 for SAP BusinessObjects Enterprise XI 3.1
- Modifying the SAP BusinessObjects Enterprise XI 3.1 Chunk Size
- Verifying the PeopleSoft to SAP BusinessObjects Enterprise XI 3.1 Integration

## Understanding the SAP BusinessObjects Enterprise XI 3.1 Installation

Use the following flowchart to understand which parts of this section are relevant to your particular circumstances. The flowchart is an overview of the entire process. After the step to install the prerequisite software, you must choose the type of web server software, then continue with several installation and configuration steps. This section includes the instructions for the installation on Windows, and on UNIX or Linux.

**Note.** In the following flowchart, “BOE” refers to SAP BusinessObjects Enterprise XI 3.1.



Navigating the BOE Installation and Configuration

To familiarize yourself with the most current support information and information about any required service packs for SAP BusinessObjects Enterprise XI 3.1 and supporting software, based on operating system platform or PeopleSoft PeopleTools versions, consult My Oracle Support.

**Note.** Oracle certifies integration between PeopleSoft PeopleTools and SAP BusinessObjects Enterprise XI 3.1 for a sub-set of all platforms that SAP BusinessObjects Enterprise XI 3.1 runs on. This sub-set generally corresponds to those platforms on which PeopleSoft PeopleTools is supported.

## See Also

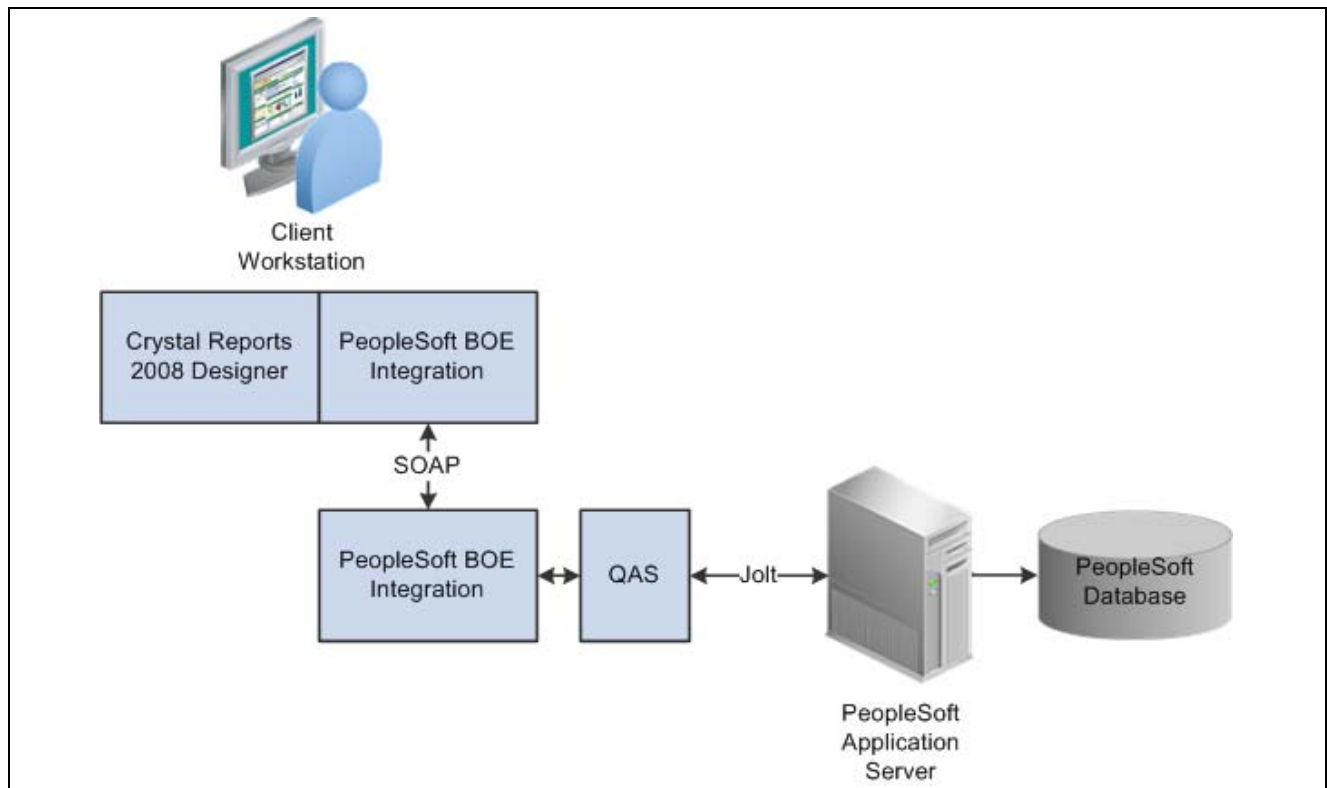
My Oracle Support, Certifications

"Tools Certifications - BusinessObjects Enterprise," My Oracle Support (search for article title)

## Understanding Integration Between SAP BusinessObjects Enterprise XI 3.1 and PeopleSoft Enterprise

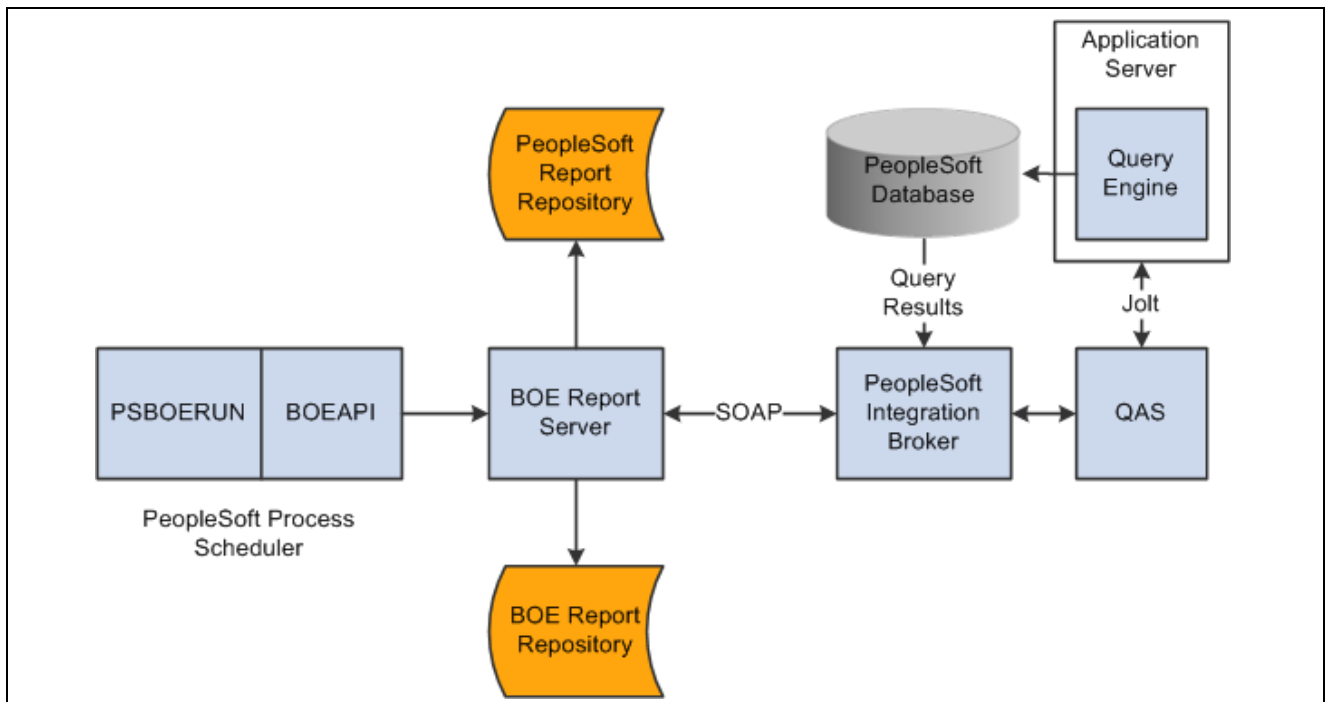
PeopleSoft Enterprise, together with Business Objects, provides a robust suite of reporting tools to be used with PeopleSoft products. The diagrams in this section illustrate how SAP BusinessObjects Enterprise XI 3.1 integrates with PeopleSoft Enterprise.

The following diagram illustrates the process by which the PeopleSoft BusinessObjects Enterprise integration communicates with the PeopleSoft Integration Broker, Application Server, and the database, when a user designs a report.



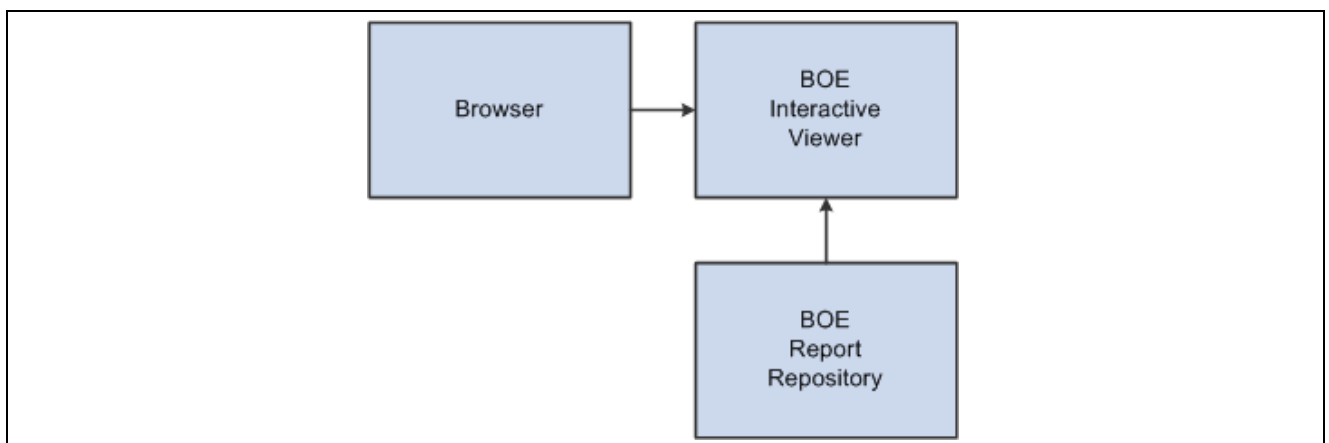
Design a report with the PeopleSoft BusinessObjects Enterprise XI 3.1 integration

The following diagram illustrates the process by which the BusinessObjects Enterprise integration works with PeopleSoft Process Scheduler and PeopleSoft Integration Broker to run a report.



Run a report with the PeopleSoft BusinessObjects Enterprise XI 3.1 integration

The following diagram illustrates the interaction between the end-user browser, the BusinessObjects Enterprise InfoViewer, and the BusinessObjects Enterprise report repository in displaying a report.



View a report stored in the BusinessObjects Enterprise XI 3.1 Repository

Implementation of this integration requires:

- installation of SAP BusinessObjects Enterprise XI 3.1 server
- installation of PeopleSoft-specific components on the SAP BusinessObjects Enterprise XI 3.1 server
- configuration tasks in your PeopleSoft application
- configuration tasks in your SAP BusinessObjects Enterprise XI 3.1 server
- conversion of Crystal report definitions from Crystal 9 format to Crystal 2008 format.

SAP BusinessObjects Enterprise XI 3.1 for PeopleSoft Enterprise interacts with PeopleSoft Enterprise security server using a plug-in. This integration provides single signon and ensures the synchronization of users and roles between PeopleSoft Enterprise and SAP BusinessObjects Enterprise XI 3.1. Using a data driver that uses the Query Access Services, SAP BusinessObjects Enterprise XI 3.1 receives data from PS Query and builds a report using Report Application Server (RAS) API.

## Understanding Query Access Services

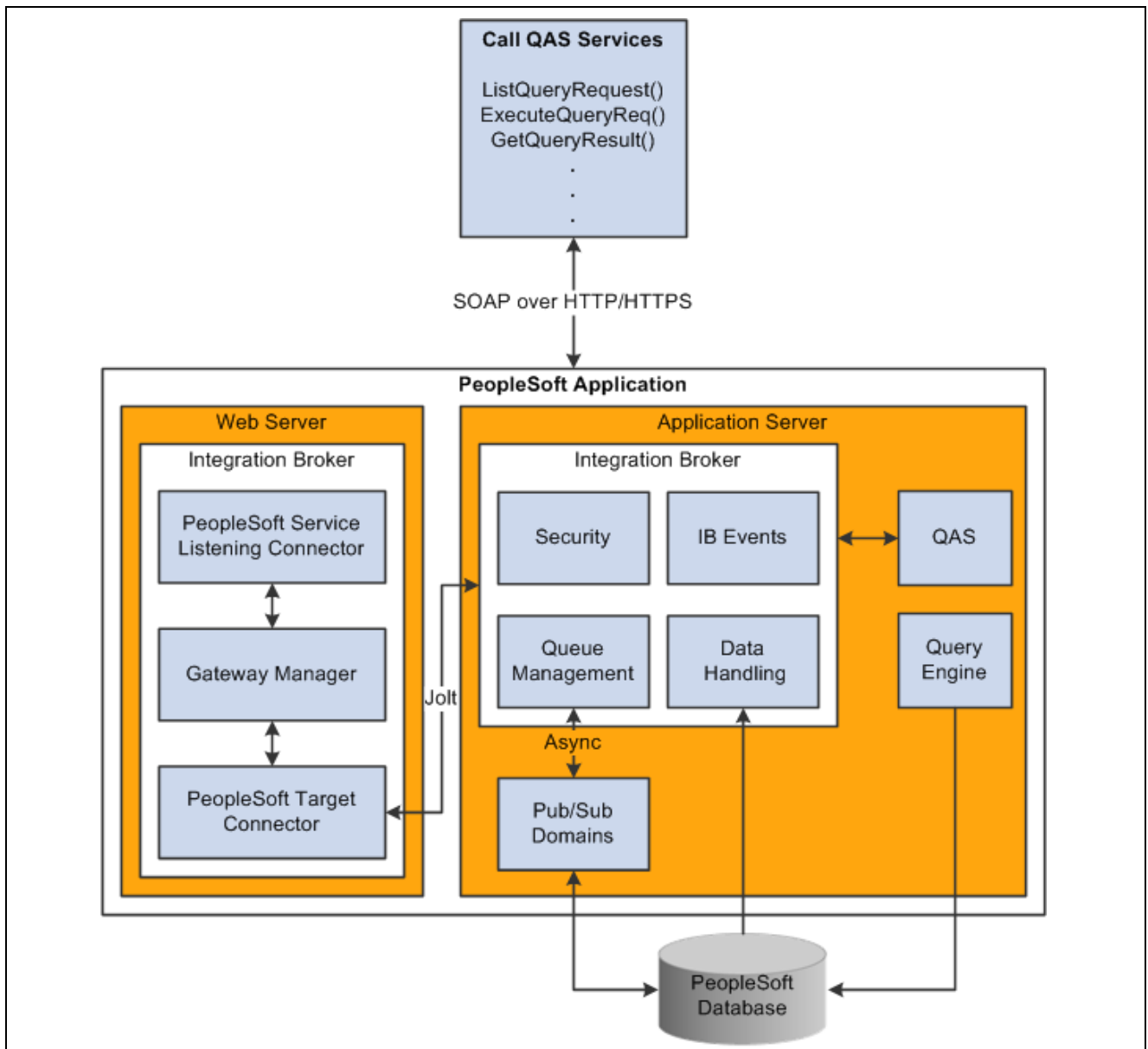
Query Access Services (QAS) provides PeopleSoft query results to BusinessObjects Enterprise over the web to create Crystal reports.

QAS plays the following roles in SAP BusinessObjects Enterprise XI 3.1 for PeopleSoft Enterprise:

- Provides a mechanism for the SAP BusinessObjects Enterprise XI 3.1 to access Query metadata so that users can design Crystal Reports based on the queries.
- Provides a mechanism for the SAP BusinessObjects Enterprise XI 3.1 to obtain results for a query to be used in report definitions.

The following diagram illustrates the QAS architecture and the relationship of the QAS components to the PeopleSoft servers and BusinessObjects Enterprise. The components are described in detail immediately following the diagram:





QAS interaction with PeopleSoft application

The following sections describe the components in the Query Access Services architecture:

- SAP BusinessObjects Enterprise XI 3.1

When SAP BusinessObjects Enterprise XI 3.1 makes a request to obtain XML data from Integration Broker, the request is authenticated and sent to the Integration Gateway.

- Web Server

The Integration Gateway is a component of PeopleSoft Integration Broker, and resides on a PeopleSoft web server that generates the URL to navigate inside BusinessObjects Enterprise. The Integration Gateway receives every SOAP request coming from BusinessObjects Enterprise over HTTP/HTTPS, and forwards the request to the integration engine running on the application server.

- Application Server

PeopleCode running on the application server implements most of the QAS services and generates the required response. Several components on the application server are involved in the query and responses, including the Integration Broker integration engine, the QAS query engine, and the application server publish/subscribe domains.

When a query execution request arrives, it is executed and the requested data returned as a message or as the URL of an XML file. The query execution is carried out in one of three ways:

- Synchronous Request/Response
- Asynchronous Request/Asynchronous Response
- Synchronous Request/Synchronous Poll with chunked response

## Reviewing Key SAP BusinessObjects Enterprise XI 3.1 Components

BusinessObjects Enterprise involves the interaction of the following components:

- Central Management Console (CMC)

The Central Management Console (CMC) enables you to perform administrative tasks. Administrative tasks include authenticating users, granting rights to groups, adding domains, mapping PeopleSoft roles with BusinessObjects Enterprise roles, and adding users.

- Security Plugin

The Central Management Server uses the SAP BusinessObjects Enterprise XI 3.1 security plug-in to verify the user name and password against the system database. In the context of BusinessObjects Enterprise for PeopleSoft Enterprise, the security plug-in enables you to map user accounts and groups from PeopleSoft into SAP BusinessObjects Enterprise XI 3.1. The user names and passwords are authenticated against the SAP BusinessObjects Enterprise XI 3.1 user list that is synchronized with the users and roles in the PeopleSoft database.

## Task 16-4-1: Planning your SAP BusinessObjects Enterprise XI 3.1 Integration

This section discusses:

- Installing Prerequisite Software
- Understanding SAP BusinessObjects Enterprise XI 3.1 License Keys
- Configuring Environment Variables

---

**Note.** These are steps that should be done prior to starting the installation and configuration of PeopleSoft PeopleTools and SAP BusinessObjects Enterprise XI 3.1. Completing these tasks will make the installation and configuration process proceed smoothly.

---

### Installing Prerequisite Software

Several different alternative software packages are supported for SAP BusinessObjects Enterprise XI 3.1. Detailed information on specific release levels supported is available online on My Oracle Support.

---

**Note.** The versions of the prerequisite software required for proper installation of SAP BusinessObjects Enterprise XI 3.1 may differ from the versions required for PeopleSoft PeopleTools. Take care in noting the versions required.

---

See My Oracle Support, Certifications.

- Operating System

In order for the integration between PeopleSoft software and SAP BusinessObjects Enterprise XI 3.1 to work, the PeopleSoft Process Scheduler must be installed on an operating system that SAP BusinessObjects Enterprise XI 3.1 supports. This is because PSBOERUN.EXE, the PeopleSoft process that calls SAP BusinessObjects Enterprise XI 3.1, uses Business Objects-supplied APIs.

- Database Software

SAP BusinessObjects Enterprise XI 3.1 requires a relational database, which stores report definitions as well as report output. Oracle, DB2/LUW, Microsoft SQL Server, and Sybase are all supported database platforms.

The database server software can run on a different machine in the same network as your installation of SAP BusinessObjects Enterprise XI 3.1.

Before you begin to install SAP BusinessObjects Enterprise XI 3.1, you should identify the database server that you want to use. Make note of the database or schema name, user account name, and password for the database, as you will need this information to complete the SAP BusinessObjects Enterprise XI 3.1 installation. A database must exist, which will become the Central Management Server database.

If the database platform is Microsoft SQL Server, and SAP BusinessObjects Enterprise XI 3.1 is installed on the same machine as SQL Server, then the SAP BusinessObjects Enterprise XI 3.1 installation wizard will create the database automatically. If you are using any other database management system, you must create the database manually prior to installing SAP BusinessObjects Enterprise XI 3.1.

---

**Note.** Microsoft SQL Server can only be used if SAP BusinessObjects Enterprise XI 3.1 is installed on Windows.

---

---

**Note.** MySQL is not a supported database platform for the integration between PeopleSoft PeopleTools and SAP BusinessObjects Enterprise XI 3.1.

---

- Database Connectivity Software

SAP BusinessObjects Enterprise XI 3.1 runs under a web server and requires a database, which stores report definitions as well as report output. In order for SAP BusinessObjects Enterprise XI 3.1 to communicate with the database software, the appropriate database client connectivity software must be installed on the server running SAP BusinessObjects Enterprise XI 3.1.

Before you begin to install SAP BusinessObjects Enterprise XI 3.1, install the appropriate database connectivity software on the server where SAP BusinessObjects Enterprise XI 3.1 will reside.

- Java SDK

If your web application server software does not automatically install the Java SDK as part of its installation process, you must install the J2SE SDK first. Ensure that your machine's PATH environment variable includes the Java SDK bin directory.

- Web Application Server Software

SAP BusinessObjects Enterprise XI 3.1 runs under a web application server, either Oracle WebLogic or IBM WebSphere. Before you begin to install SAP BusinessObjects Enterprise XI 3.1, install the appropriate web server software on the server where SAP BusinessObjects Enterprise XI 3.1 will reside.

Note that the Business Objects web server support can differ from the PeopleSoft PeopleTools support. Obtain and install the software and license from Oracle or IBM before beginning this procedure.

---

**Note.** You must install SAP BusinessObjects Enterprise XI 3.1 with the same user account as that used to install the web server software.

---

For successful integration between the PeopleSoft system and SAP BusinessObjects Enterprise XI 3.1, you must set up Secure Sockets Layer (SSL) on the web server. See the information on working with Oracle WebLogic and IBM WebSphere in the *PeopleTools: System and Server Administration* product documentation.

See *PeopleTools: Security Administration*.

See *PeopleTools: Integration Broker Administration*, "Setting Up Secure Integration Environments."

- **Application Server Domains**

In PeopleSoft PeopleTools 8.50 and later, you can configure more than one PeopleSoft application to run with a single SAP BusinessObjects Enterprise XI 3.1 server. For example, if your environment includes both an application server domain on a Financials database, and another on a Human Capital Management database, you can configure both with the same SAP BusinessObjects Enterprise XI 3.1 server, and the state of one PeopleSoft application (running or not running) does not adversely impact the ability of the other PeopleSoft application to run reports on the SAP BusinessObjects Enterprise XI 3.1 server.

Thus when you generate reports from the Financials domain, as long as the Financials domain is up and running, you will be able to access the reports even if the Human Capital Management domain is down.

The instructions in this section assume SAP BusinessObjects Enterprise XI 3.1 is installed on one server machine that is separate from the machine on which you have installed (or will install) the PeopleSoft software. The SAP BusinessObjects Enterprise XI 3.1 installation documentation includes instructions for other installation configurations.

## **Understanding SAP BusinessObjects Enterprise XI 3.1 License Keys**

There are two types of license keys relevant to SAP BusinessObjects Enterprise XI 3.1:

- **Named Users licenses**

Named users licenses allow a specific user access to SAP BusinessObjects Enterprise XI 3.1. If you are a named user, you have access to SAP BusinessObjects Enterprise XI 3.1 regardless of how many other users are connected to the system.

- **Concurrent Access licenses**

Concurrent access licenses allow a certain number of unspecified users access to SAP BusinessObjects Enterprise XI 3.1 from a pool of users. If you are a concurrent user, you have access to SAP BusinessObjects Enterprise XI 3.1 only if there are Concurrent Access Licenses that are not being used by other concurrent users.

During the SAP BusinessObjects Enterprise XI 3.1 configuration, you must specify one license key.

In the context of PeopleSoft applications integrated with SAP BusinessObjects Enterprise XI 3.1, one Named User License is reserved for use by Process Scheduler to schedule reports to be run by SAP BusinessObjects Enterprise XI 3.1.

In the context of PeopleSoft applications integrated with SAP BusinessObjects Enterprise XI 3.1, Concurrent Access licenses are used in these ways:

- when a user views a report using the SAP BusinessObjects Enterprise XI 3.1 InfoViewer
- when a user logs into the SAP BusinessObjects Enterprise XI 3.1 Central Management Console (CMC) directly using a user id set up as a concurrent user

After a user is done viewing the report in either scenario, the Concurrent Access license is then free to be used by another user.

---

**Note.** Viewing a report in Adobe Acrobat (pdf) format or in viewers other than the SAP BusinessObjects Enterprise XI 3.1 InfoViewer does not use a Concurrent Access License.

---

A relatively small number of concurrent access licenses can support a large number of users. The number of users that it will support depends on how many reports users view and how long they view them.

You may need to purchase additional Concurrent Access licenses to provide greater access for more users. When you purchase more Concurrent Access licenses from SAP, you will be provided a license code. You will need to add this license code to your SAP BusinessObjects Enterprise XI 3.1 installation. To add license keys, use the procedure in the section Configuring the SAP BusinessObjects Enterprise XI 3.1 Server.

## Configuring Environment Variables

To configure environment variables for UNIX platforms:

1. Set the JAVA\_HOME environment variable:

```
JAVA_HOME= java_installDirectory; export JAVA_HOME
```

2. Set the LC\_ALL environment variable to include a UTF-8 locale in your login environment.
3. Run the `locale -a` command to verify that all of the related locale environment variables were properly set by LC\_ALL.

---

**Note.** If the `locale` command does not return the correct values, contact your system administrator to set the values properly.

---

## Task 16-4-2: Installing the PeopleSoft Application Environment

Install PeopleSoft PeopleTools and your PeopleSoft application environment as you normally would. There are special configuration steps that you will have to perform later in order to complete the integration of the PeopleSoft system with SAP BusinessObjects Enterprise XI 3.1. The machine with the PeopleSoft PeopleTools and PeopleSoft application installation must also include the BusinessObjects Integration Kit for PeopleSoft and SAP Crystal Reports 2008 or Crystal Reports 2011. The machine with the SAP BusinessObjects Enterprise XI 3.1 installation must include web server software in addition to the SAP BusinessObjects Enterprise XI 3.1 software.

## Task 16-4-3: Creating a Web Server for SAP BusinessObjects Enterprise XI 3.1 on Windows

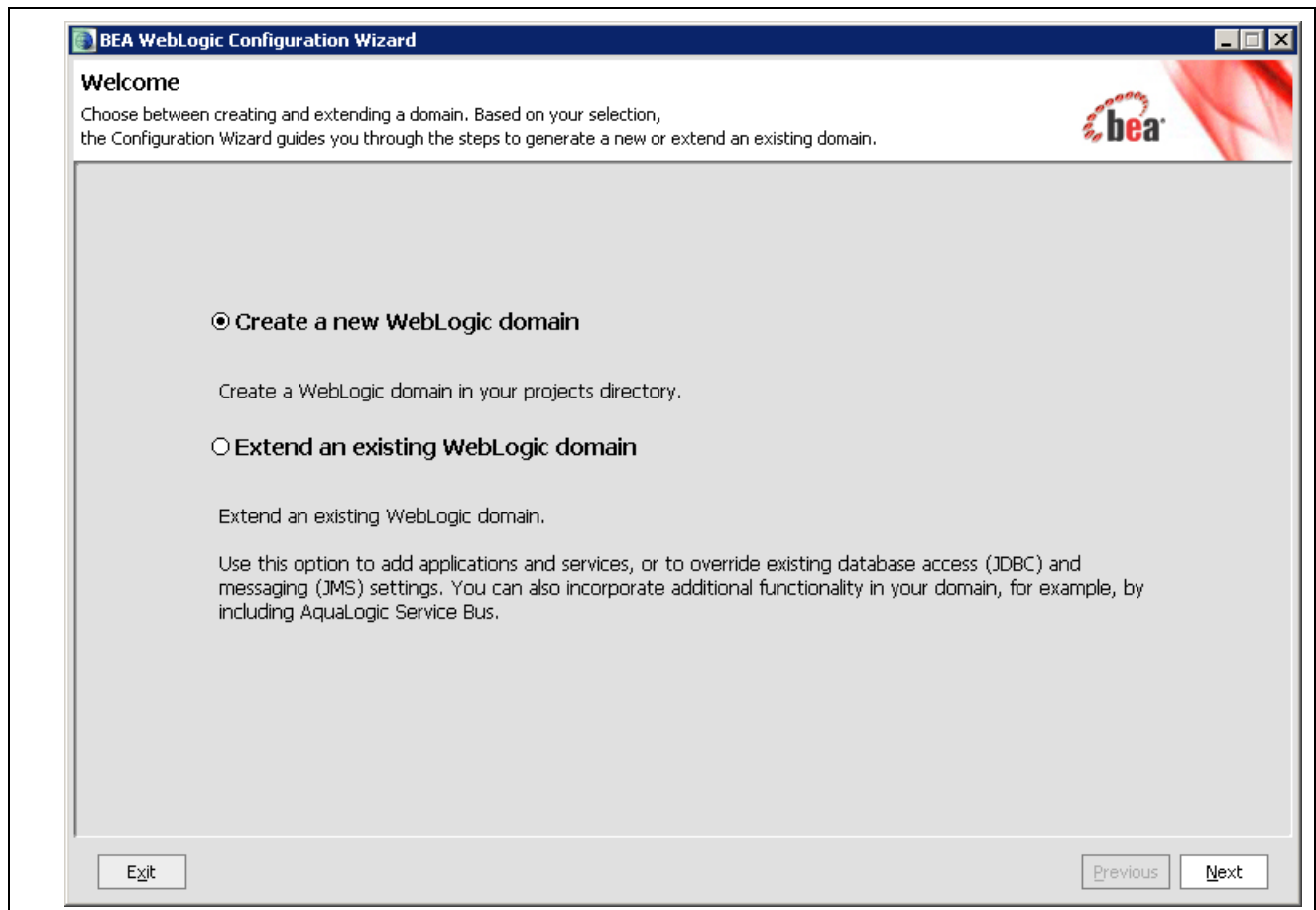
This section discusses:

- Creating an Oracle WebLogic Server on Windows
- Creating an IBM WebSphere Server on Windows

### Creating an Oracle WebLogic Server on Windows

Before beginning this procedure, you must have installed Oracle WebLogic on the server where SAP BusinessObjects Enterprise XI 3.1 is installed.

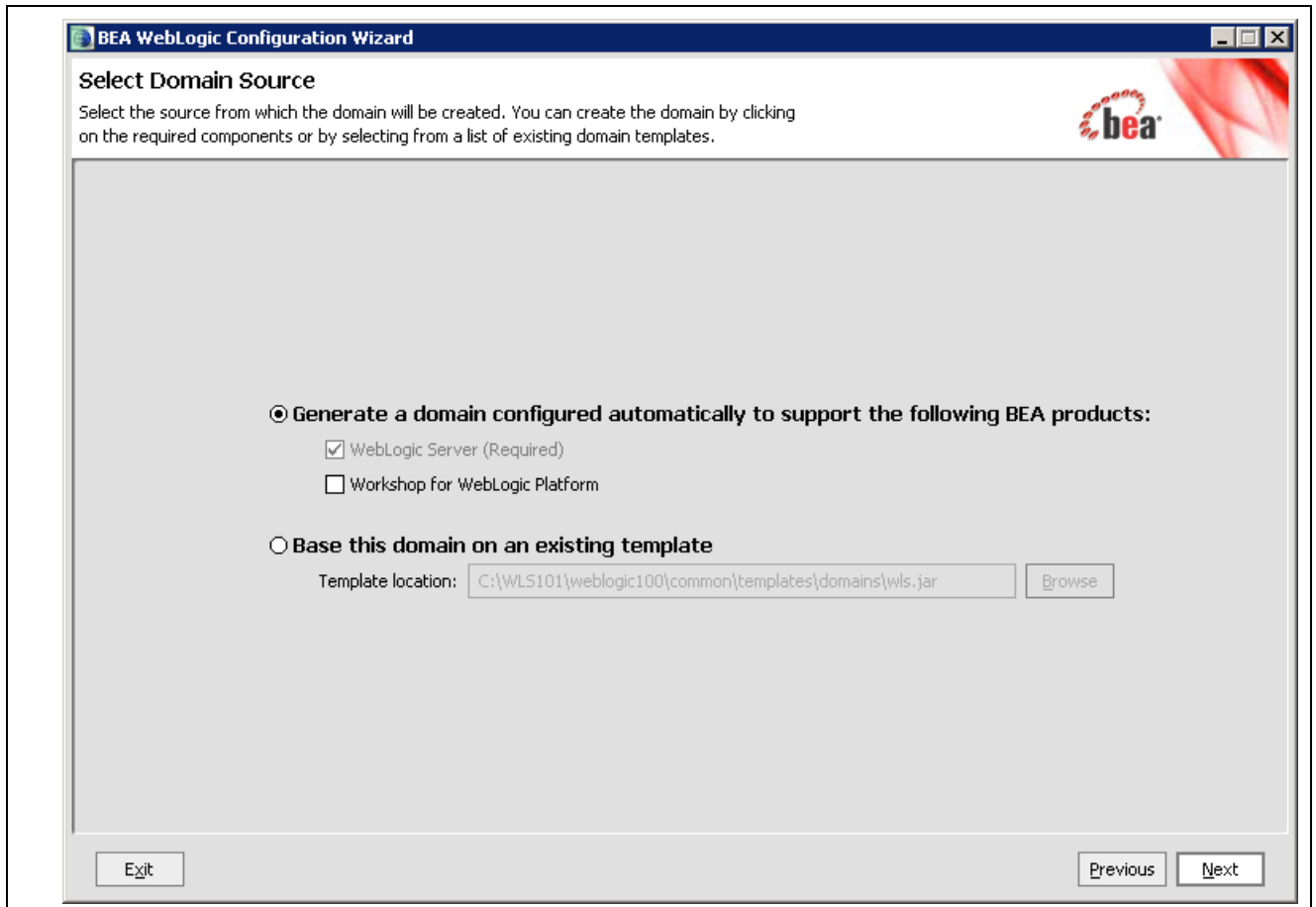
1. Select Start, Programs, BEA Products, Tools, Configuration Wizard to launch the Configuration Wizard.
2. Verify that Create a new WebLogic domain is selected and click Next.



BEA WebLogic Configuration Wizard Welcome window

The Select Domain Source window appears.

3. Select Generate a domain configured automatically to support the following BEA products:  
When you select this option, the check box for WebLogic Server (Required) is selected.



Select Domain Source window

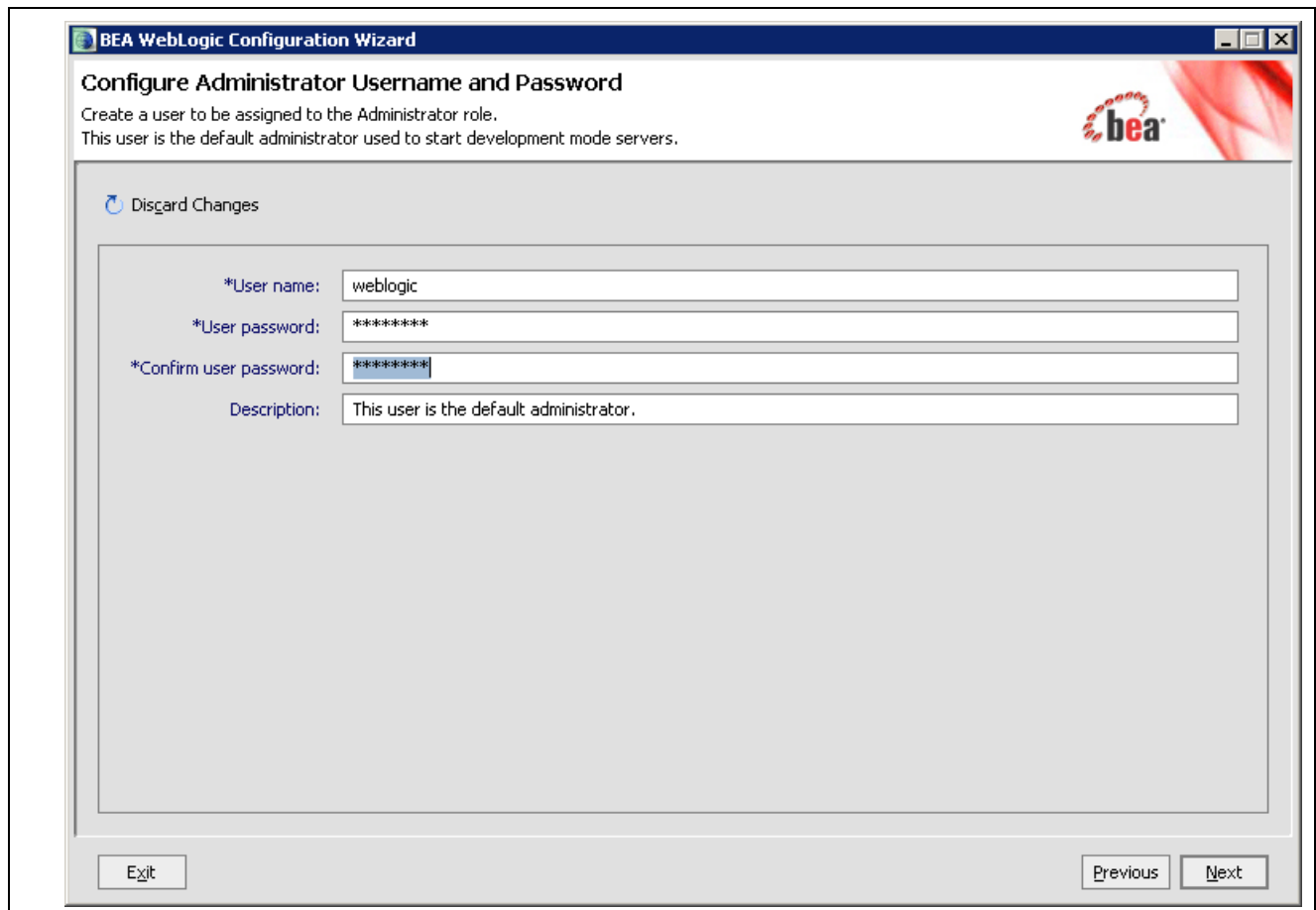
4. Enter a password, confirm the password, and click Next.

In the following example, *weblogic* is entered for the user name.

---

**Note.** For testing, *password* is often used as the password.

---

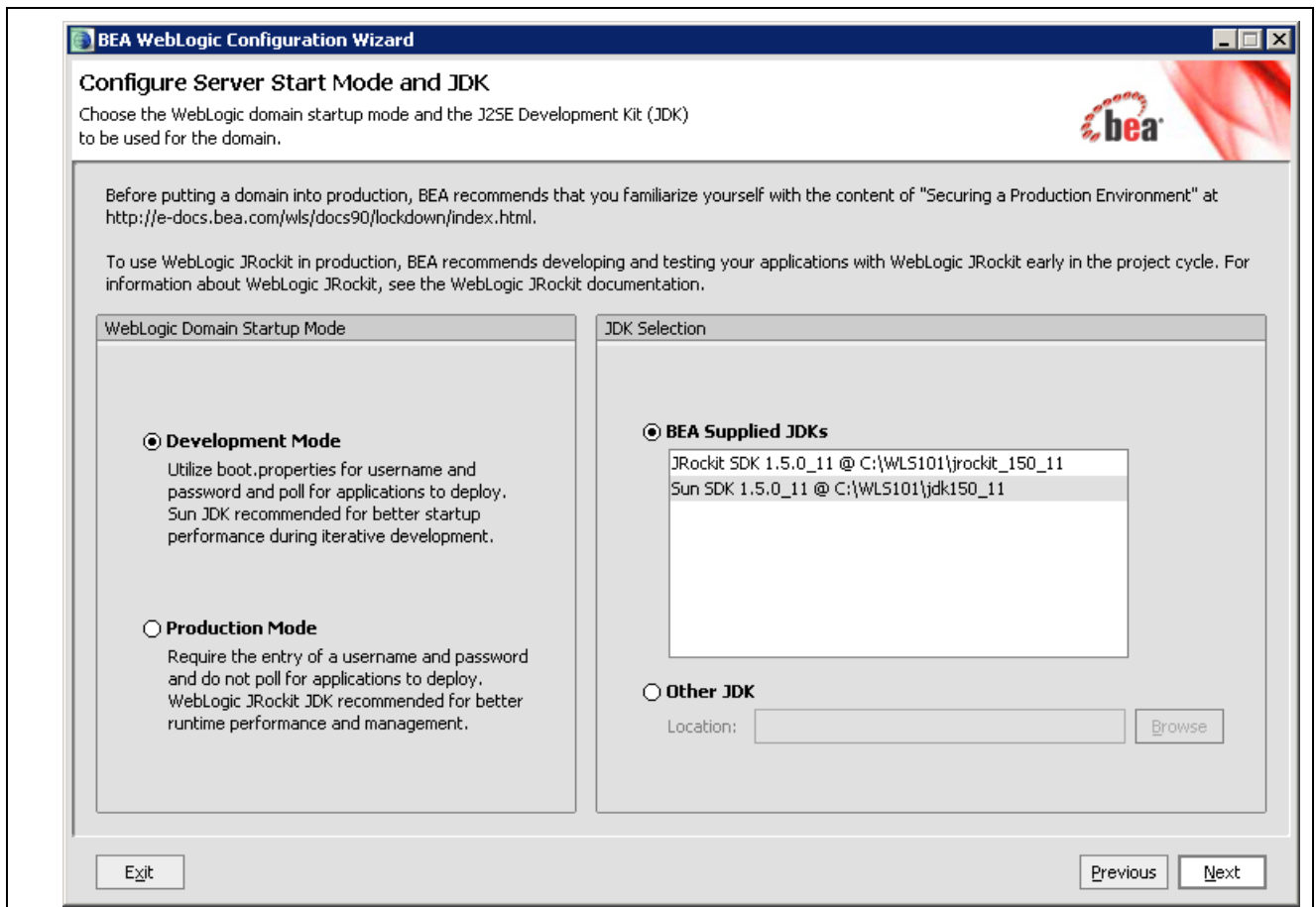


Configure Administrator Username and Password window

The Configure Server Start Mode and JDK window appears.

5. Select the Development Mode option and any supported JDK you installed, and click Next.





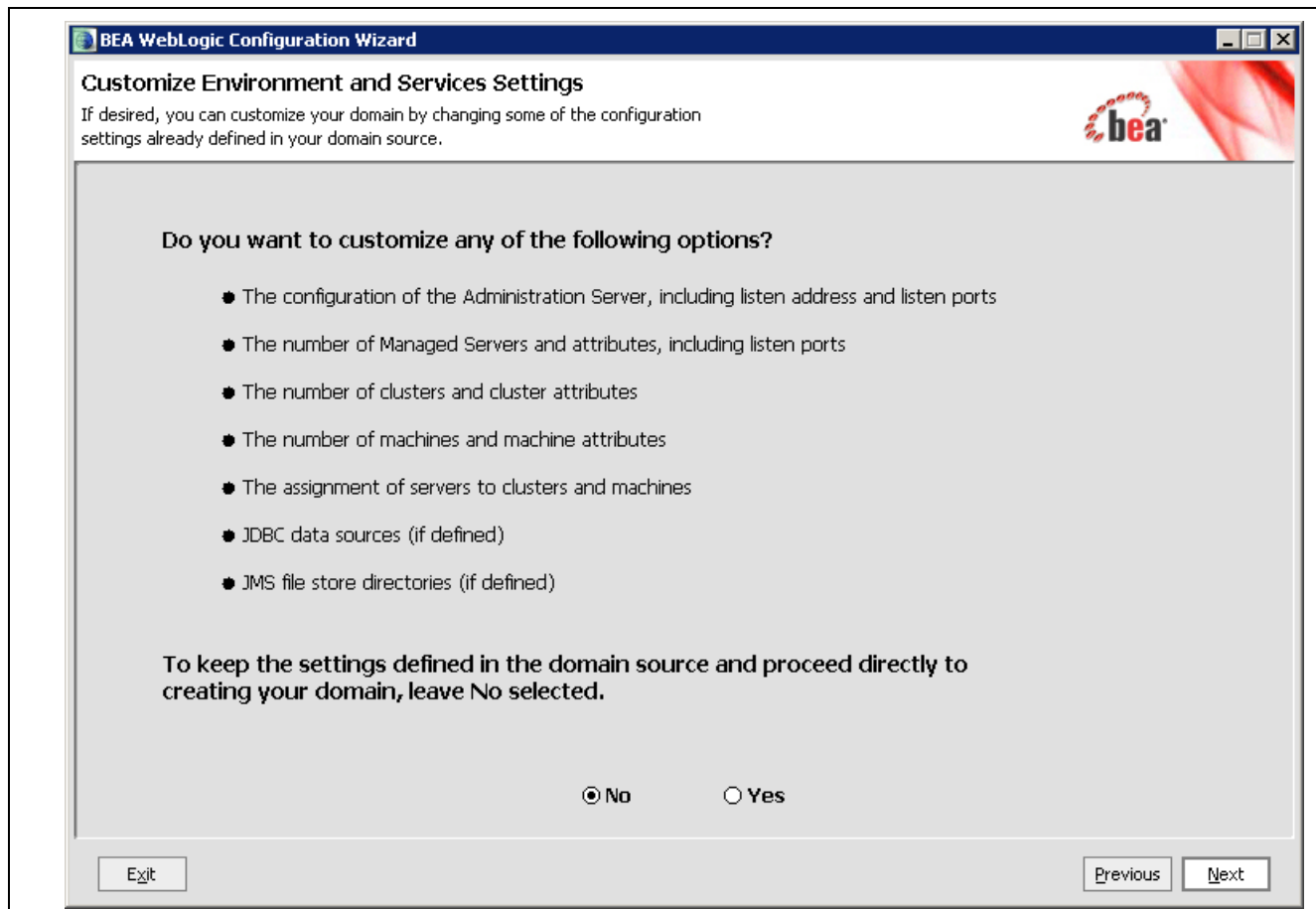
Configuring the Server Start Mode and JDK window

- On the Customize Environment and Services Settings window, accept No, the default option, and click Next.

---

**Note.** If you want to change the default port number, or other settings, select Yes and complete the screens that follow.

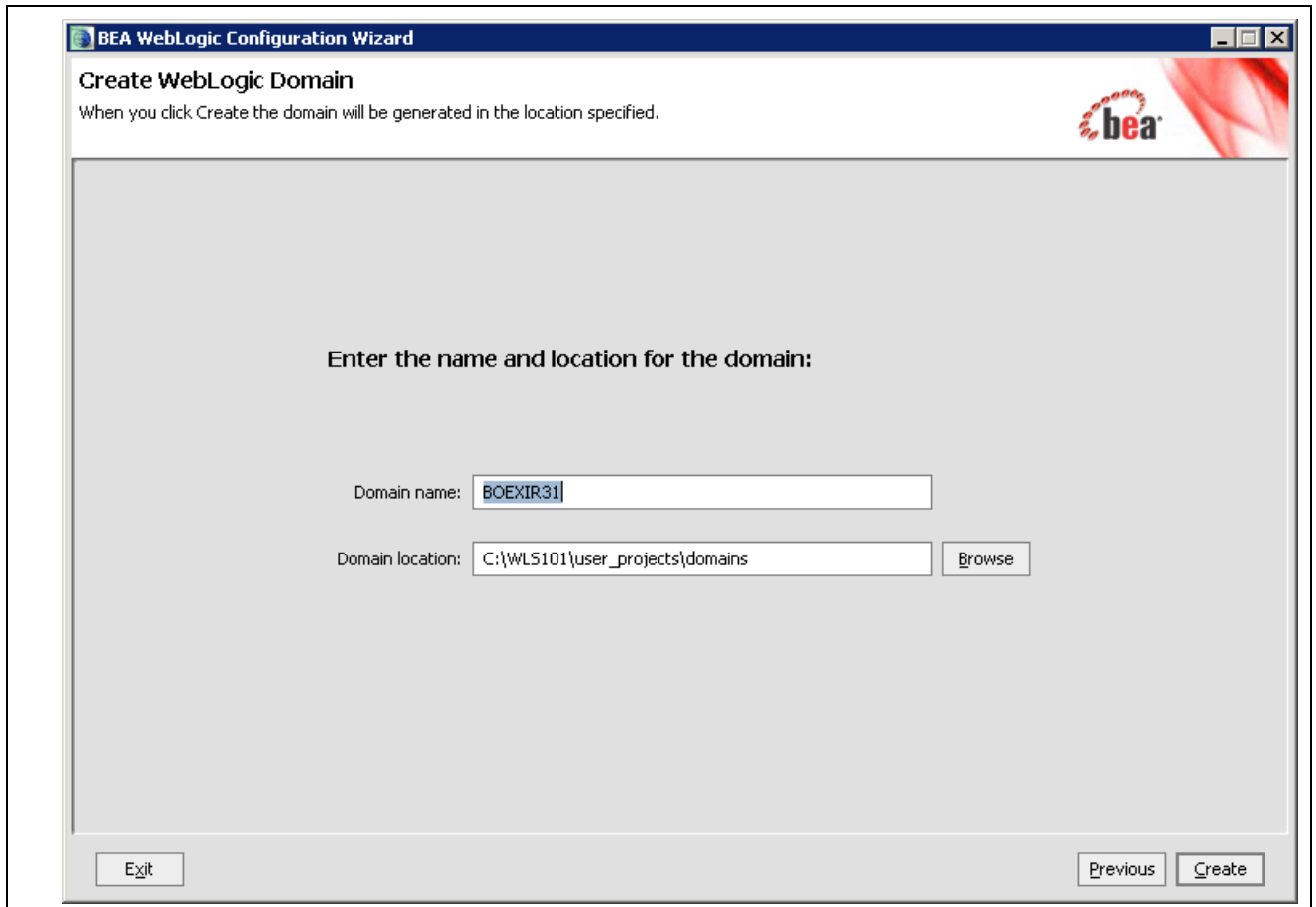
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Customize Environment and Service Settings window

7. Enter a meaningful domain name, select the location of the domain and click Create.

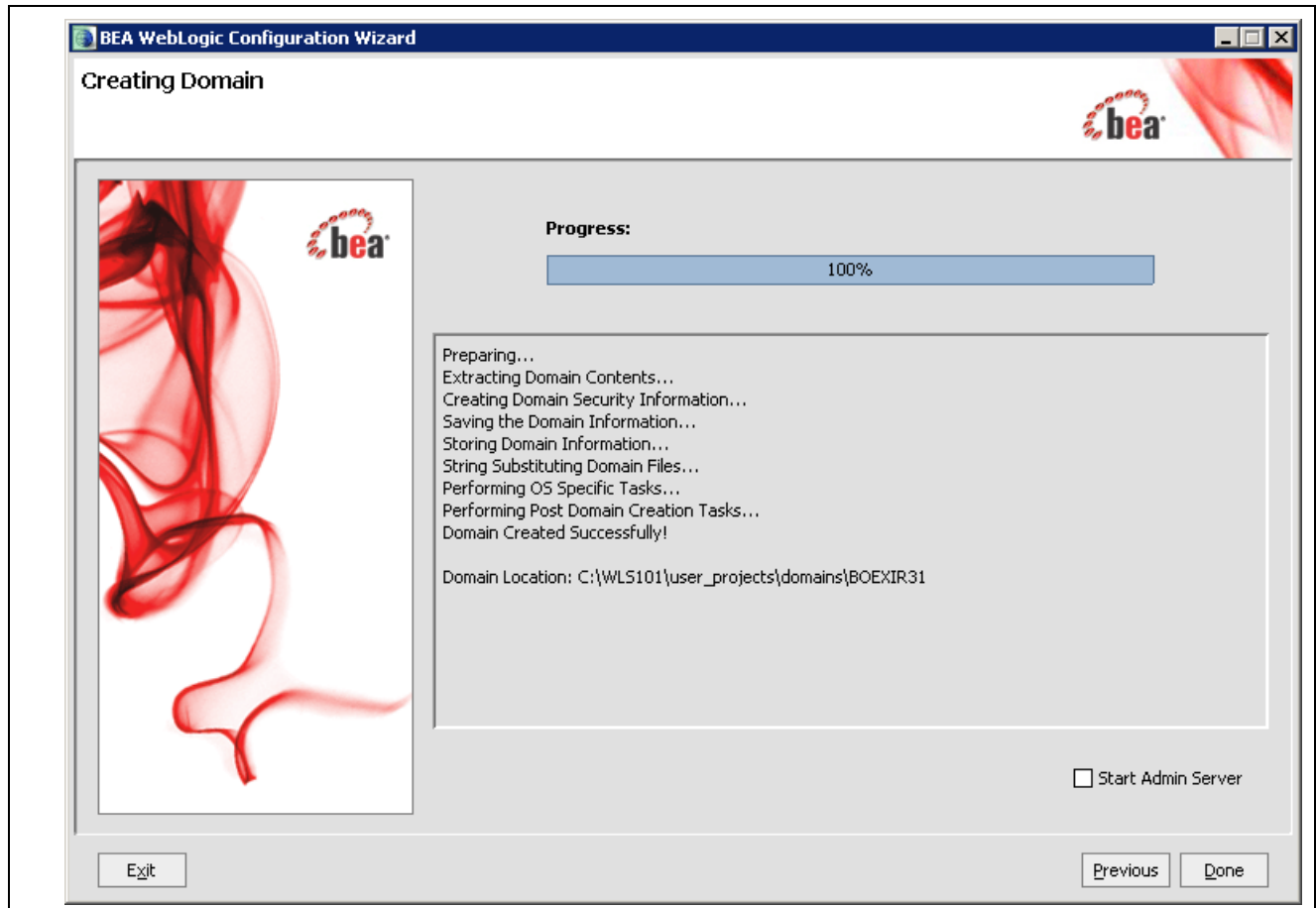
In the following example, the domain name is *BOEXIR31*, and the domain location is *C:\WLS101\user\_projects\domains*.



Create WebLogic Domain window

8. Select Done to complete the wizard.

You have now created a web server at the default port 7001.



Creating Domain window

9. To start the web server, select Start, Programs, BEA Products, User Projects, *domain\_name*, Start Admin Server for WebLogic Server Domain.

An MS-DOS window opens. Wait until a message containing the phrase “Server started in RUNNING mode” appears, indicating that the web server is active.

---

**Note.** You perform this step to start the web server. You will need to perform this step after you reboot the machine or close down the Oracle WebLogic web server.

---

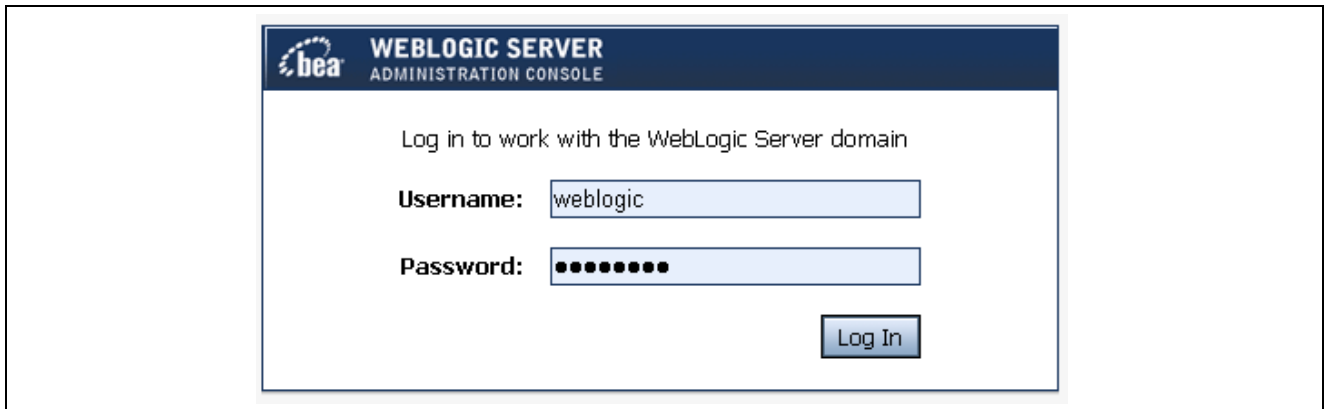
10. To confirm that you can log in to the web server, enter this URL in a browser:

`http://machine_name:7001/console`

11. In the login window, enter the user name and password for the Oracle WebLogic administrator that you entered during your installation of Oracle WebLogic.

In the following example, the user name is *weblogic*.

Click Log In.



Oracle WebLogic Server Administration Console Login Window

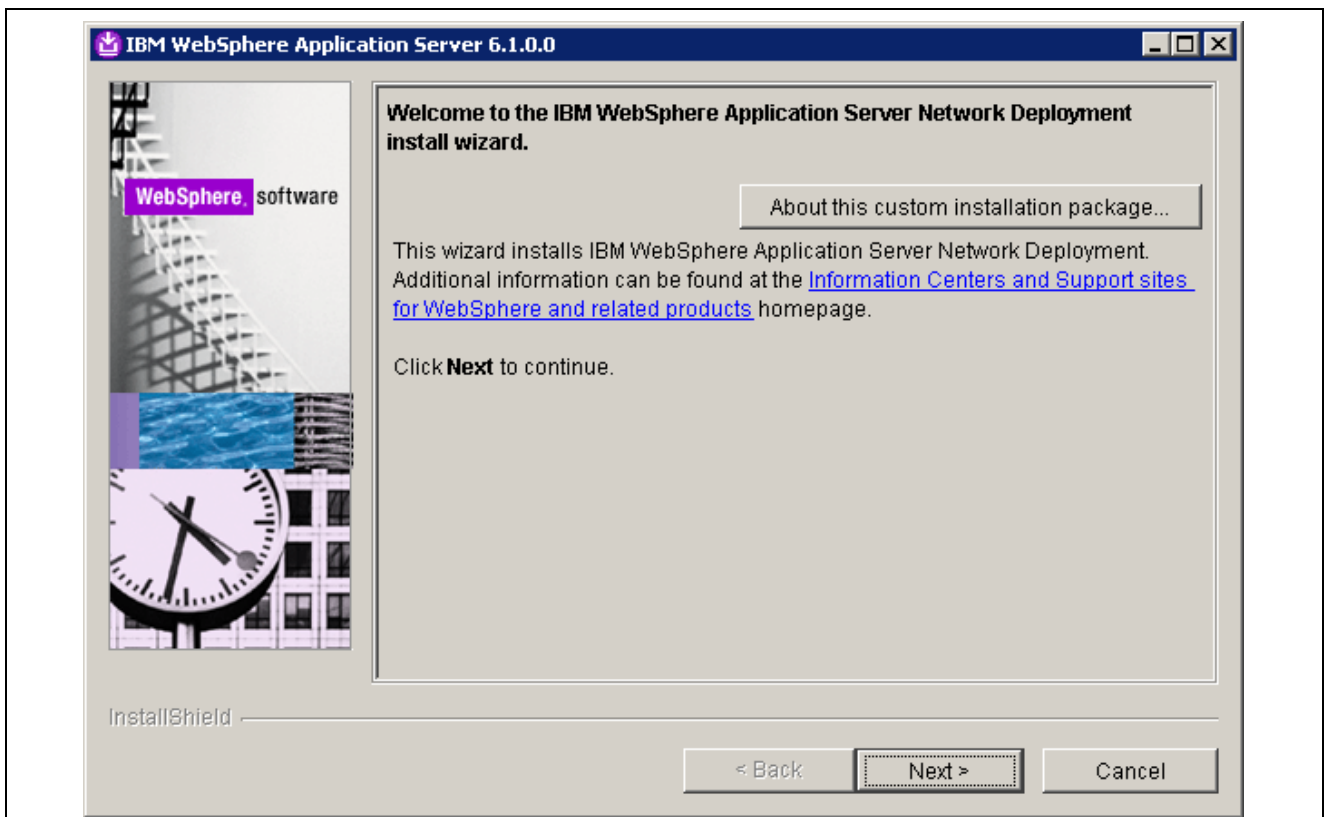
12. If you are logged in, this verifies that your Oracle WebLogic server setup was successful.

## Creating an IBM WebSphere Server on Windows

Before beginning this procedure, you must have installed IBM WebSphere on the server where SAP BusinessObjects Enterprise XI 3.1 is installed.

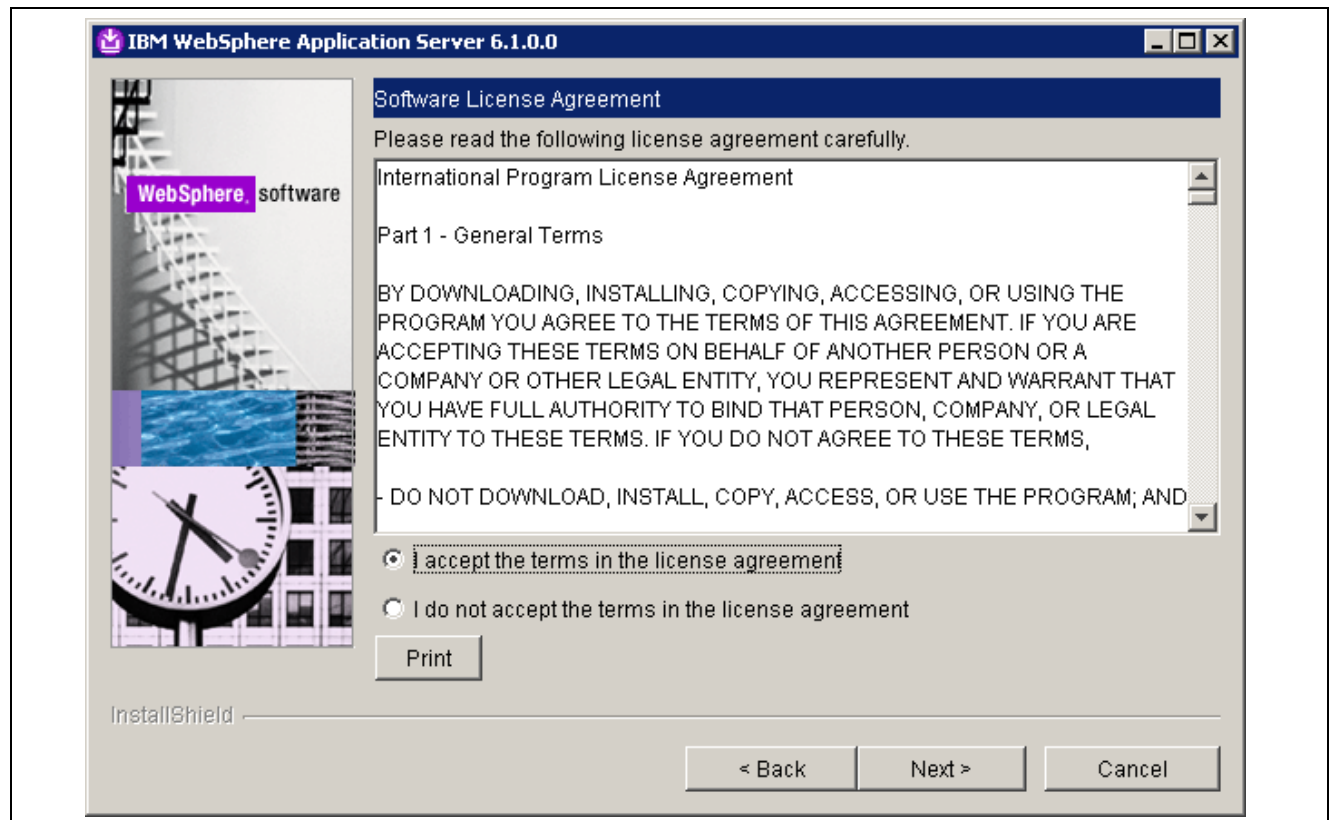
1. Run installWAS.bat from the WebSphere installation.

A welcome window appears.



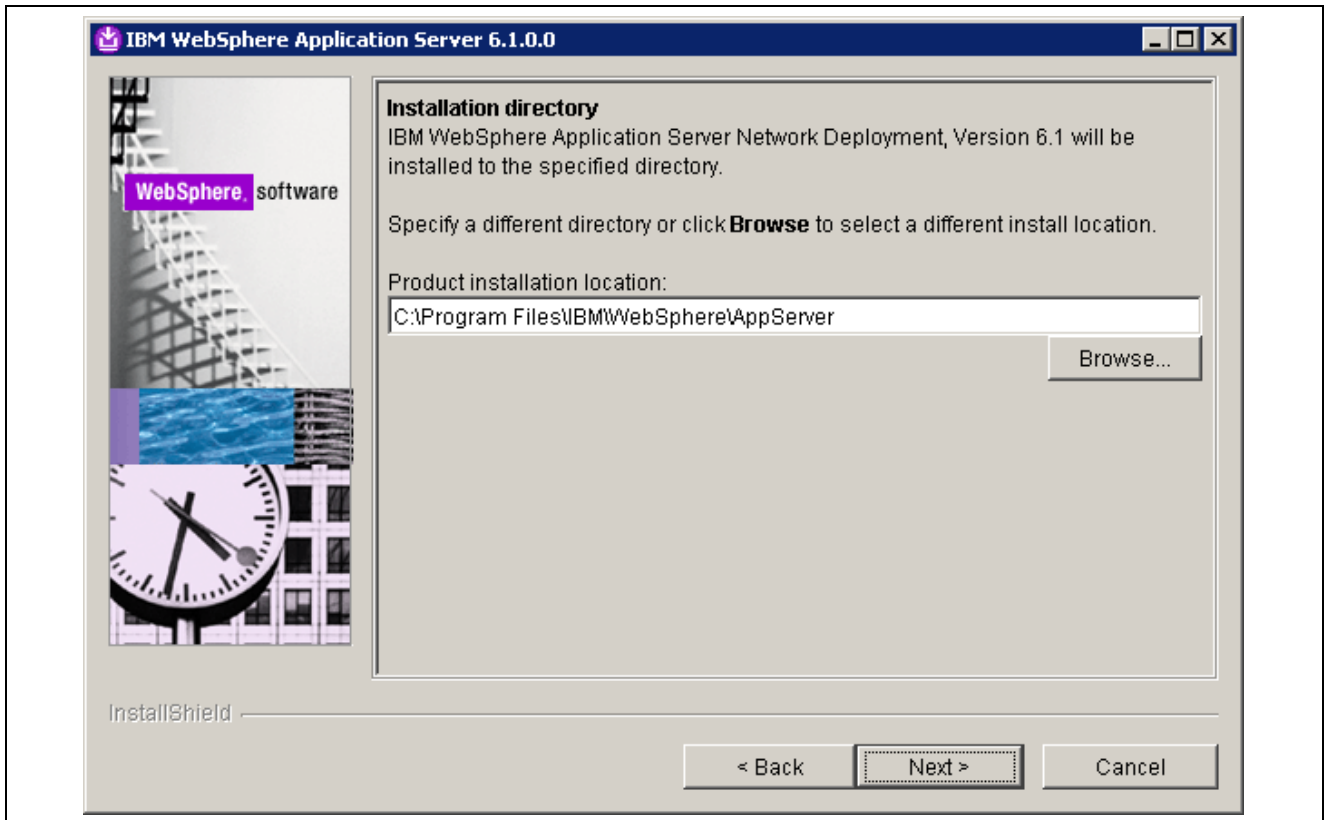
IBM WebSphere Application Server welcome window

2. Click Next.
3. Accept the license agreement and click Next.



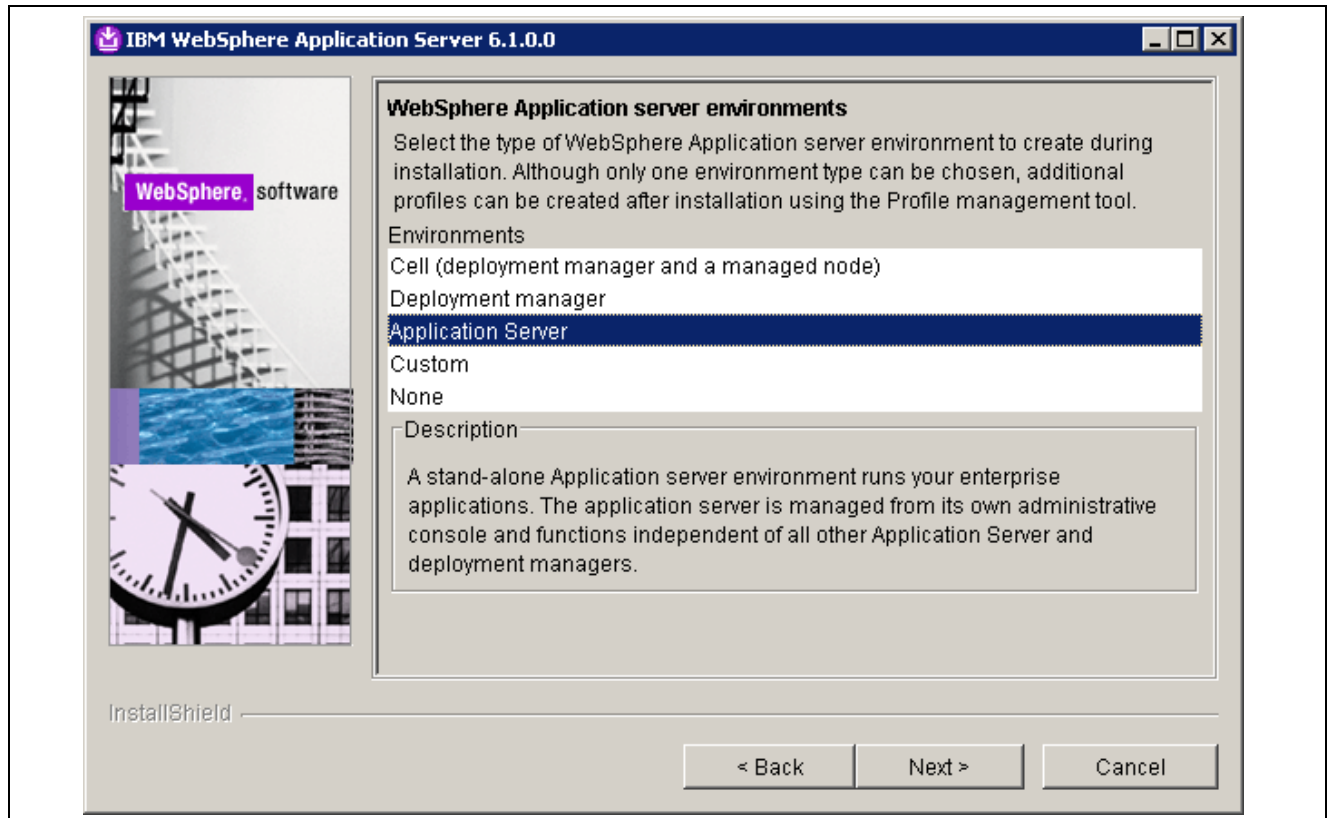
IBM WebSphere Application Server License Agreement window

4. The IBM WebSphere installer carries out a system check and displays an error message if your system does not meet the prerequisites.
5. Select an installation location and click Next.



IBM WebSphere Application Server Installation directory window

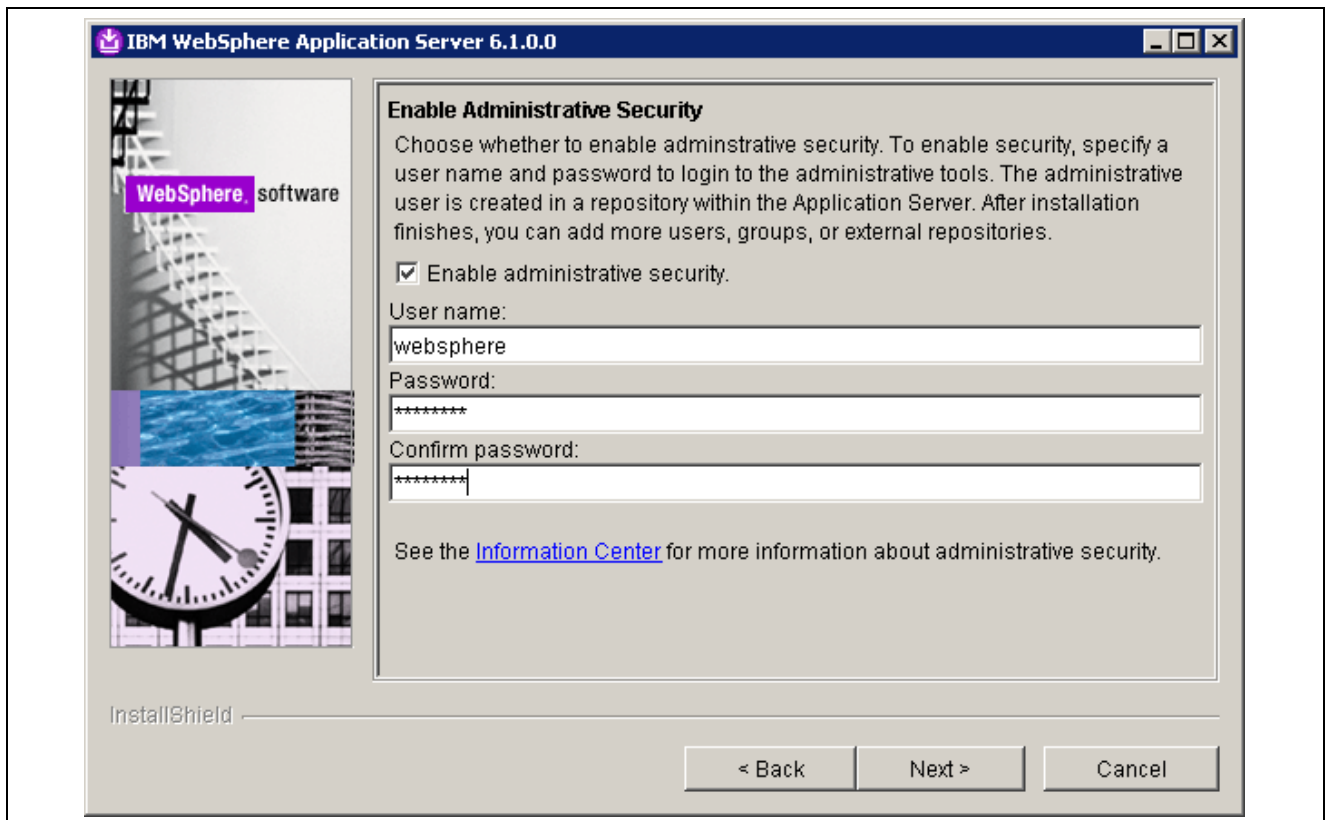
6. On the WebSphere Application server environment window, select *Application Server* from the list of environments.



IBM WebSphere Application Server environments window

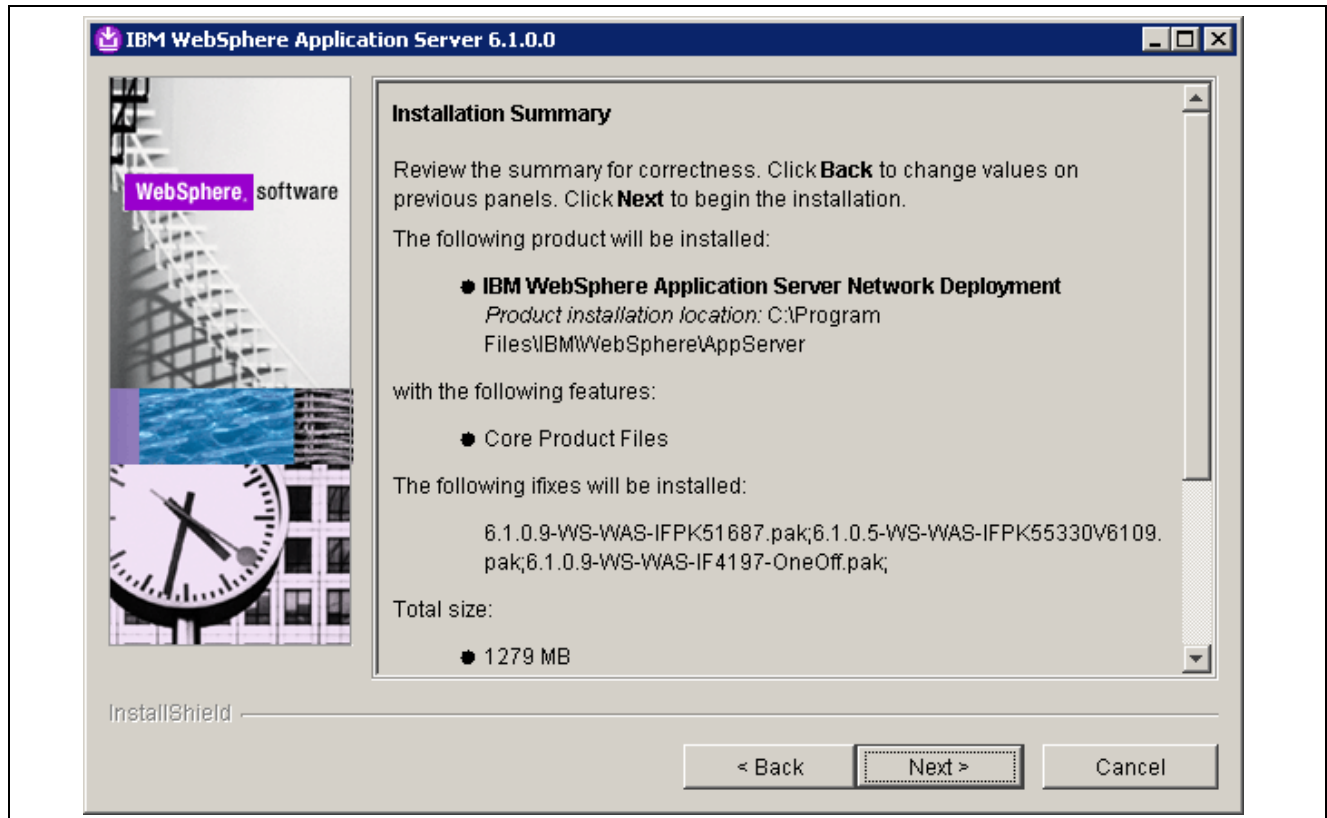
7. Select the default profile and click Next.
8. Enter the user name and password for the Administrator user; for example websphere and password. Select the Enable Administrative security check box.





Enable Administrative Security window

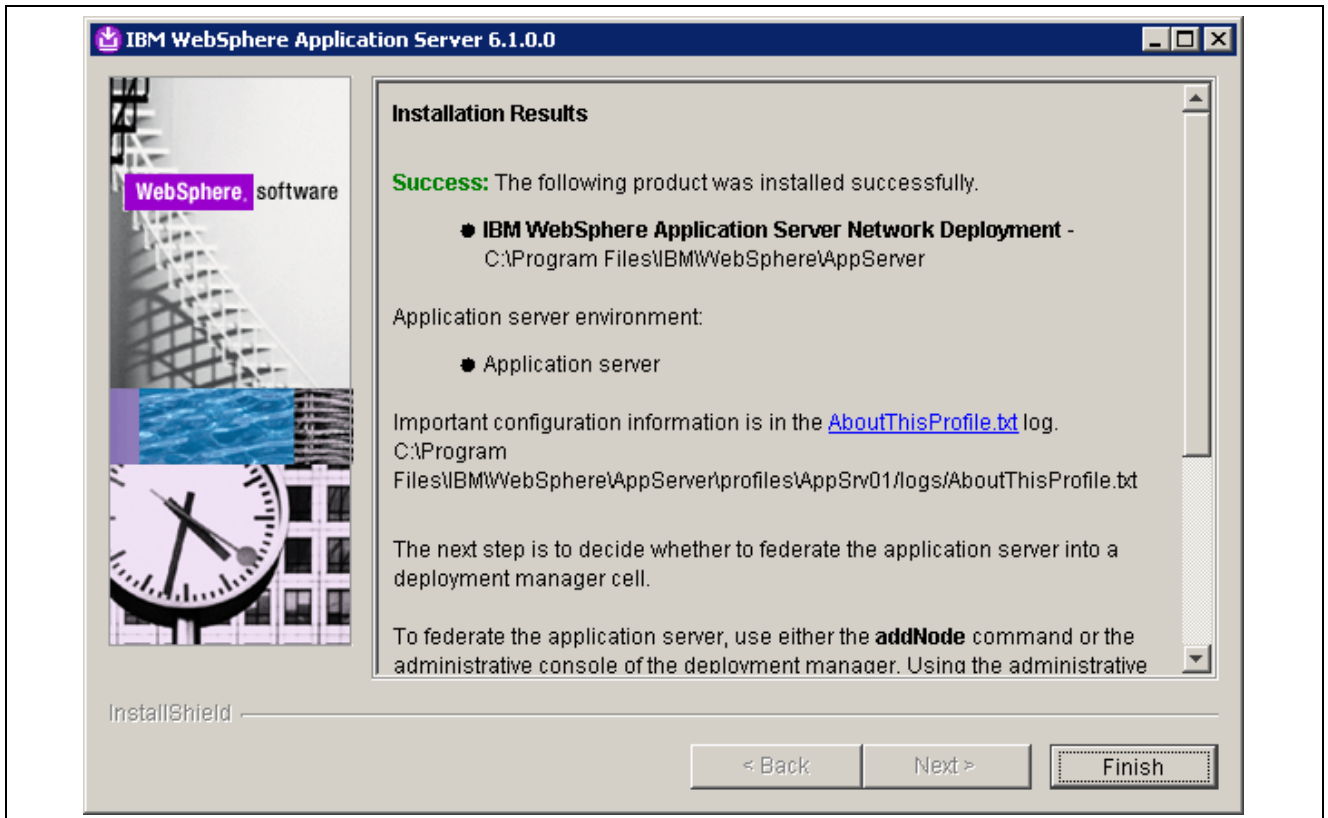
9. Review the installation summary and click Next to begin the installation.



Installation Summary window

10. When the installation completes successfully, you see the installation results window.

Click Finish to open the First Steps dialog box. If you don't want to open the First Steps dialog box, clear the option Launch First Steps.



Installation Results window

11. To start the server after the installation is complete, select Start, Programs, IBM WebSphere, Application Server Network Deployment V6.1, Profiles, AppSrv01, Start the Server.

## Task 16-4-4: Installing SAP BusinessObjects Enterprise XI 3.1 on Windows

This section assumes that you downloaded the necessary files to a directory referred to here as *BOE\_INSTALL*. See Obtaining SAP BusinessObjects Enterprise and Crystal Reports Software.

You must log on to the Windows machine as a user included in the Administrator group.

To install SAP BusinessObjects Enterprise XI 3.1:

1. Change directory to *BOE\_INSTALL* and run *setup.exe*.

---

**Note.** If you are installing from a network, you must run *setup.exe* from the network location.

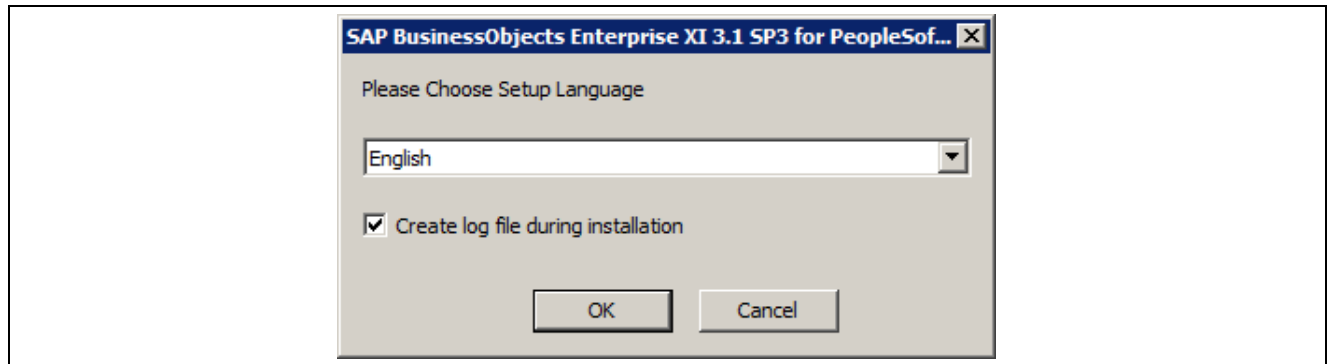
---

The install program searches for any previous version of SAP BusinessObjects Enterprise XI 3.1 and then presents a Welcome message. Click OK.

2. Choose a Setup language and click OK.

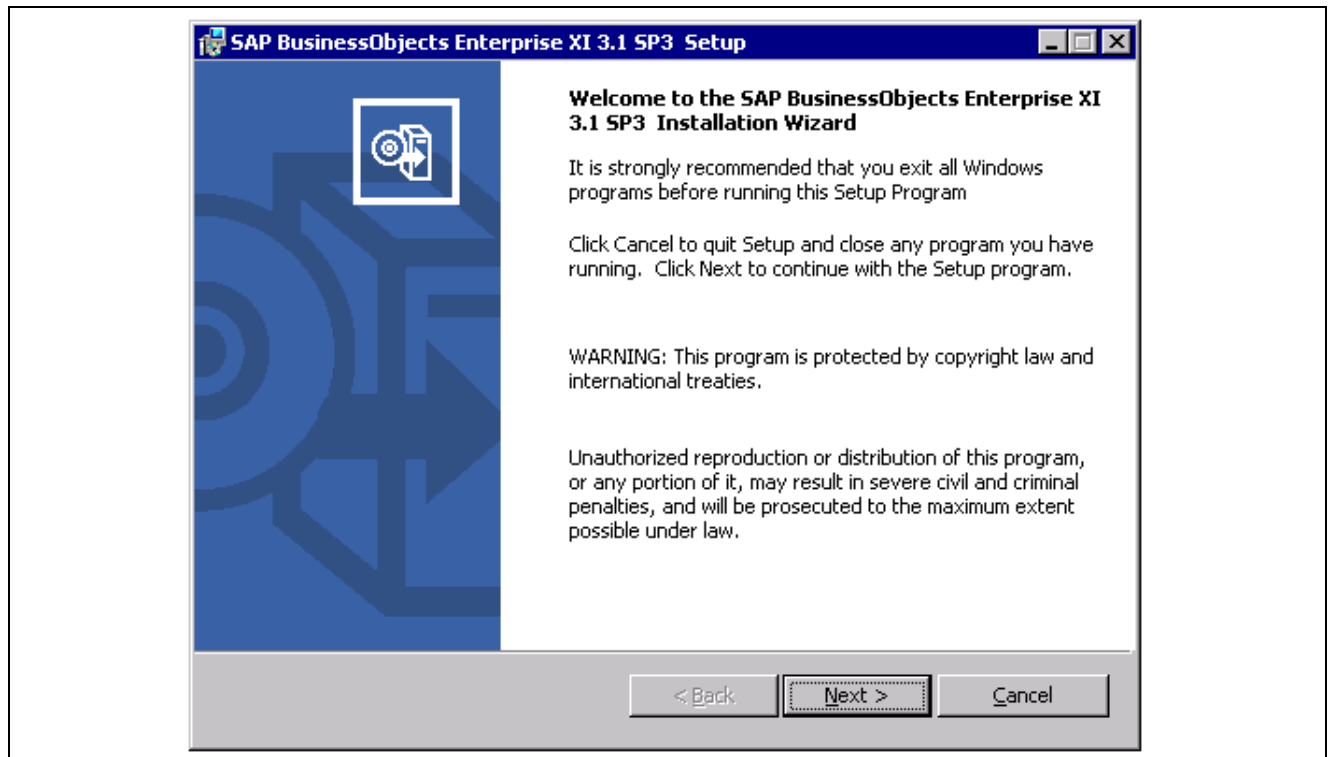
The example shows English as the Setup language.

If you don't want the installer to create a log file, clear the option Create log file during installation. If you accept the default to create the log file, it is created in *BOE\_HOME*, the directory where you install SAP BusinessObjects Enterprise XI 3.1 as *BOE\_HOME\BusinessObjects Enterprise 12.0\Logging\BOEInstall\_X.log*.



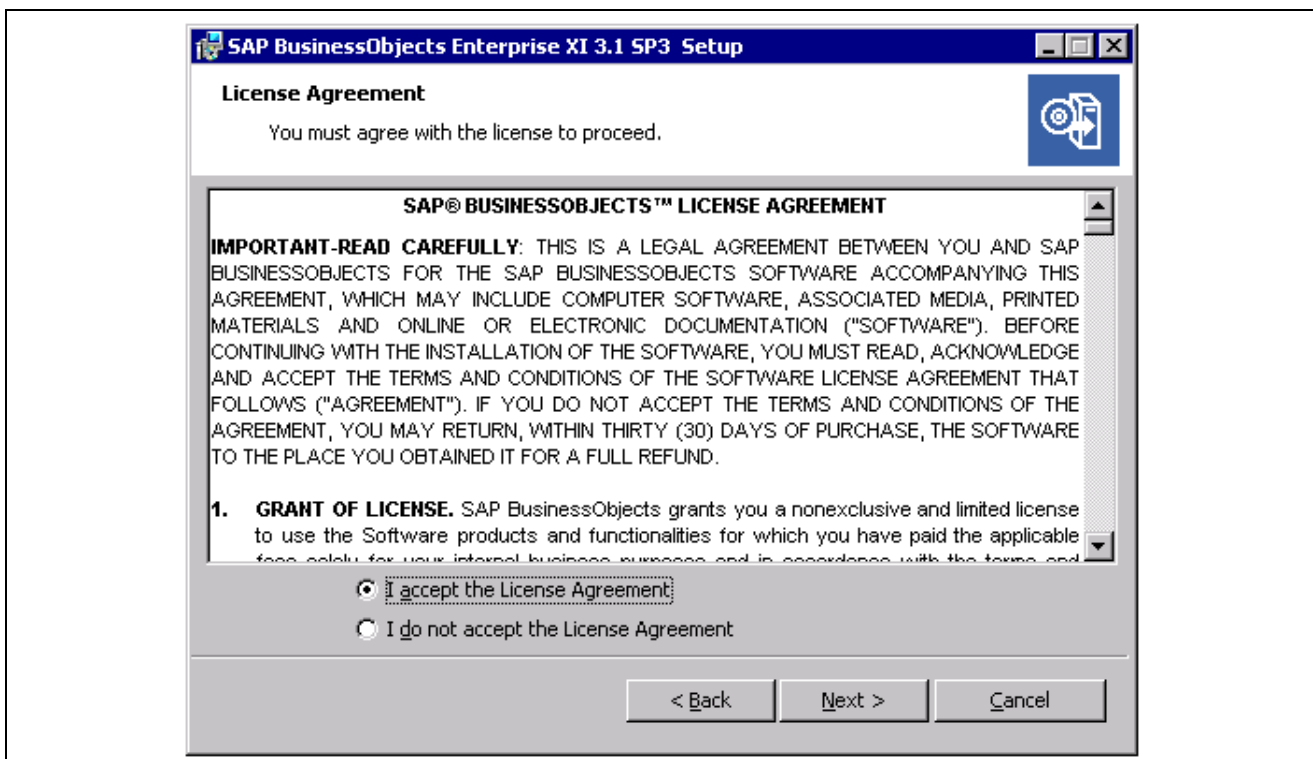
Choosing the setup language for SAP BusinessObjects Enterprise for PeopleSoft

3. Click Next on the welcome window.



SAP BusinessObjects Enterprise XI 3.1 SP3 Setup Welcome window

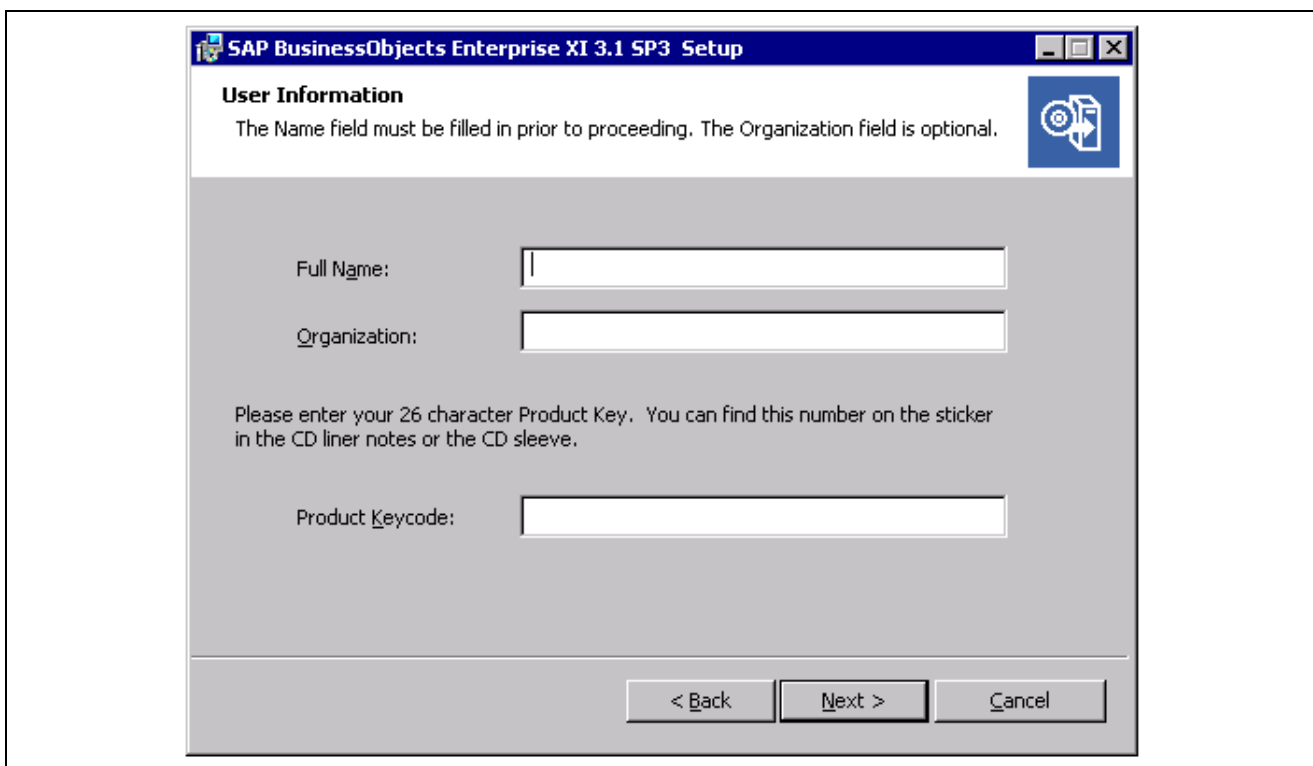
4. Read the license agreement and select I accept the License Agreement.



SAP BusinessObjects Enterprise XI 3.1 SP3 Setup License Agreement window

5. Click Next.

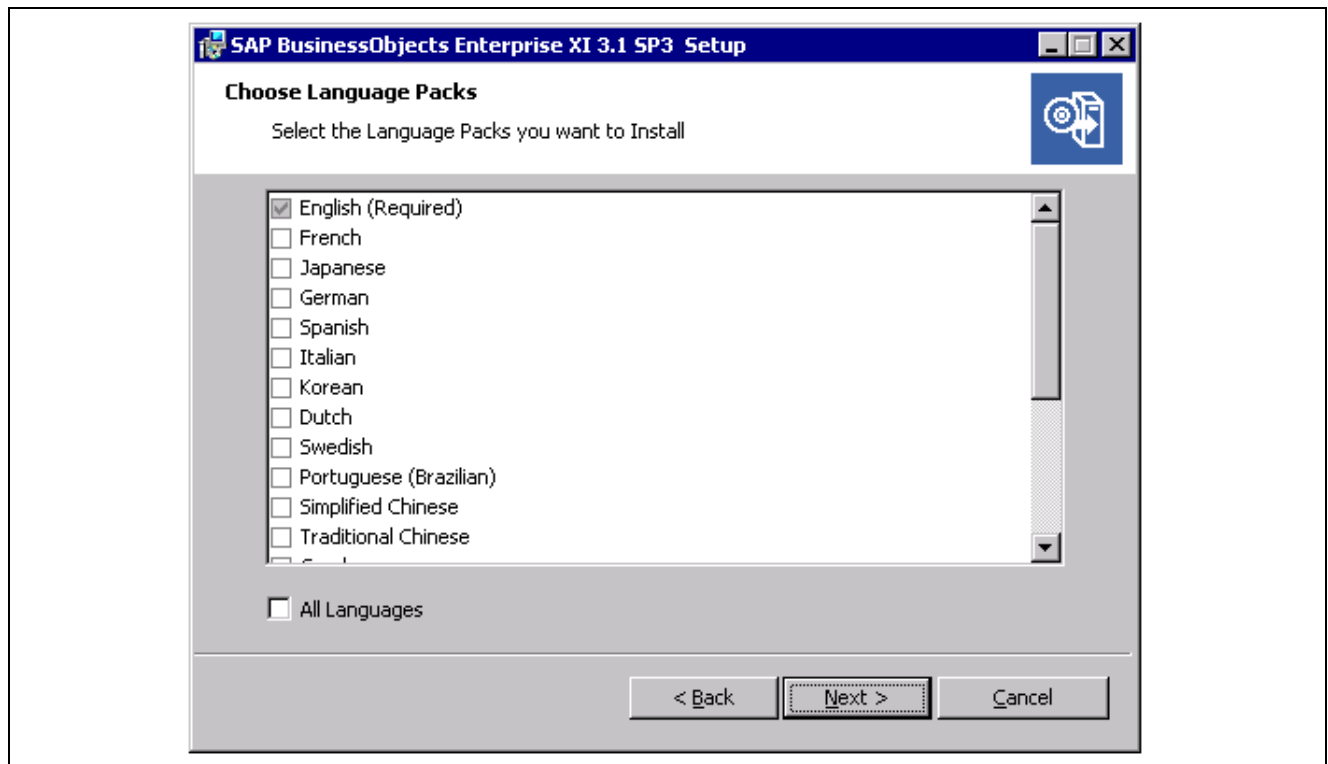
The User Information window appears. Enter a name, organization name (optional), and 26-character Product Keycode.



SAP BusinessObjects Enterprise XI 3.1 SP3 Setup User Information window

6. Select a language pack on the Choose Language Pack window and click Next to continue.

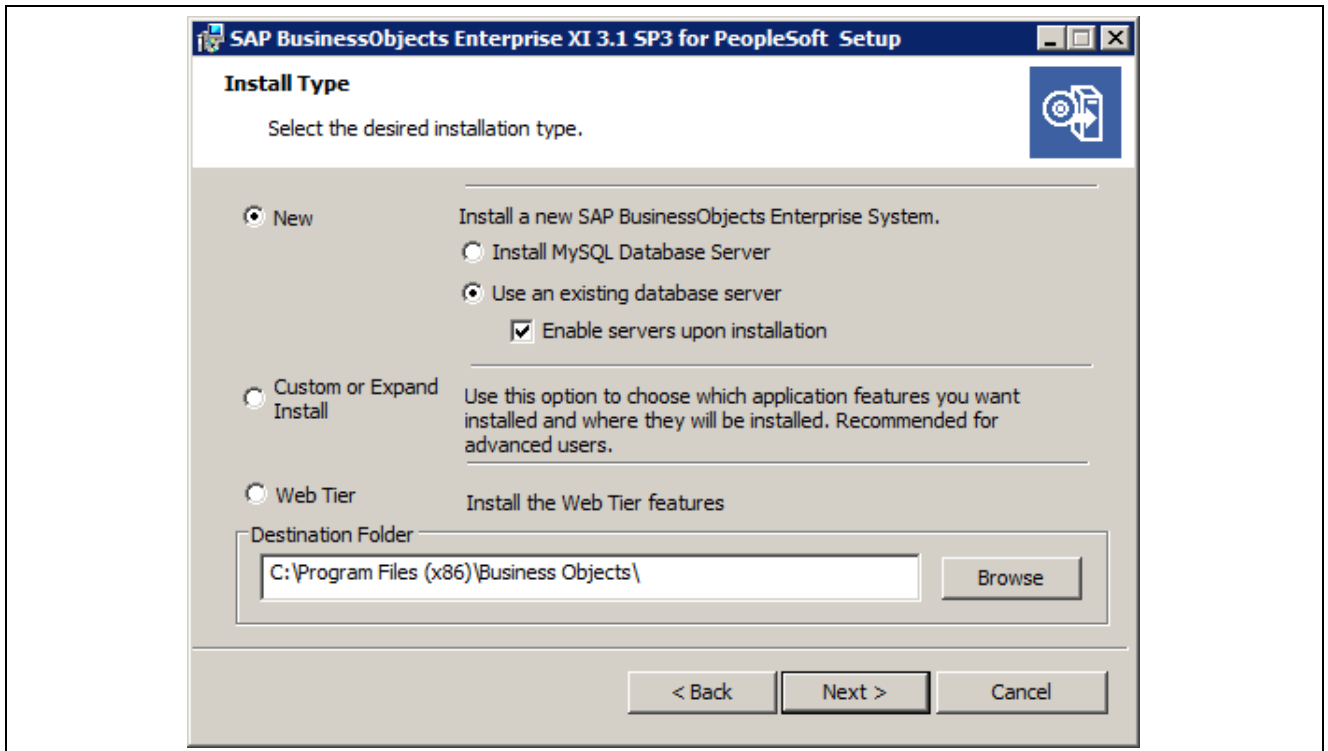
**Note.** English is mandatory because it is used as a backup language in case of a problem with a language pack. The check box for English cannot be cleared.



SAP BusinessObjects Enterprise XI 3.1 SP3 Setup Choose Language Packs window

The Install Type window appears.

7. Select New as the installation type.



SAP BusinessObjects Enterprise XI 3.1 SP3 Setup Install Type window

Select one of the following options:

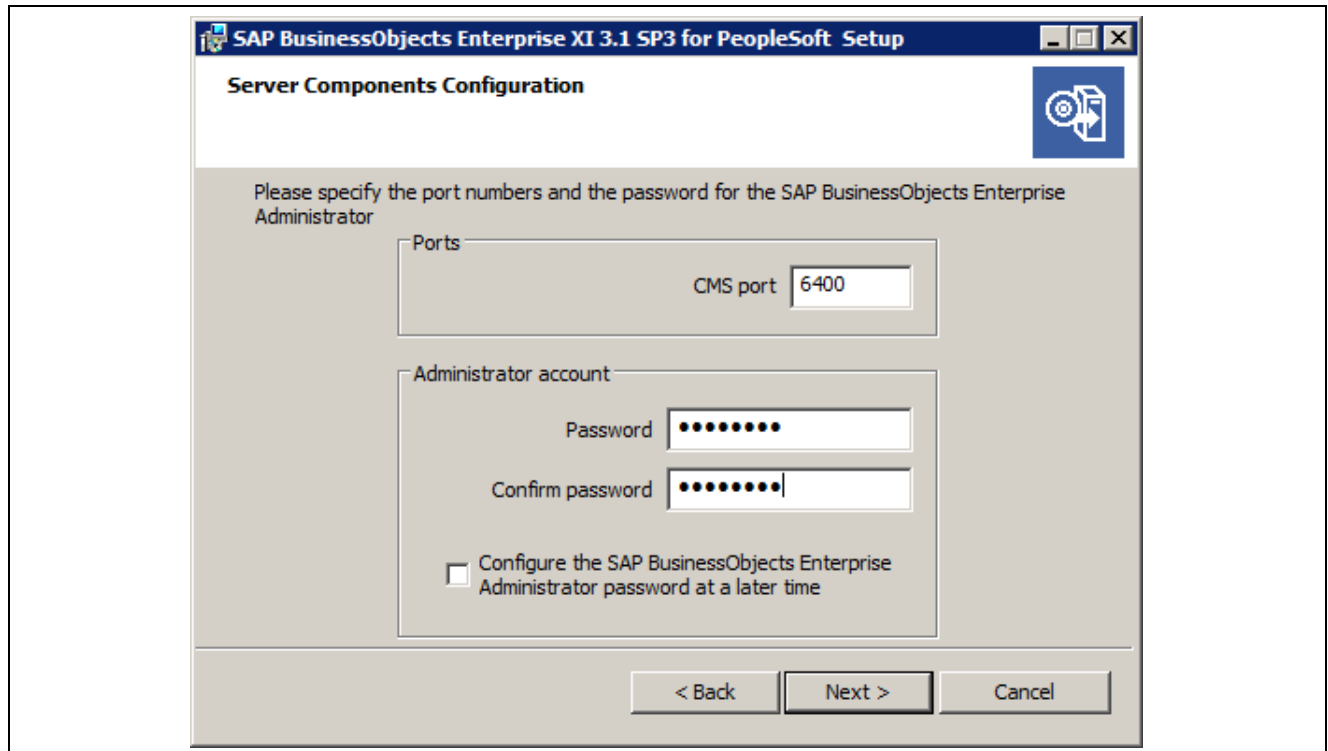
- Select Use an existing database server if you want to use an existing database server. (This is the option selected in the example.)
- Select Enable servers upon installation if you want to launch BusinessObjects Enterprise when the installation process finishes.
- Specify where to install the SAP BusinessObjects Enterprise XI 3.1 SP3 components in the Destination Folder field.

The installation directory is referred to in this documentation as *BOE\_HOME*. In this example the installation directory is C:\Program Files (x86)\Business Objects.

8. Click Next.

The Server Components Configuration window appears.

9. Specify the following information:



SAP BusinessObjects Enterprise XI 3.1 SP3 Setup Server Components Configuration window

- CMS port

The default Central Management Server (CMS) port number is 6400. The CMS will communicate with other BusinessObjects Enterprise servers through the specified port. If the port you specified is unavailable, you will be requested to specify another port number.

Use this port number with your machine name to log in from the Central Configuration Manager later in this section.

- Password

Specify a secure password for the CMS administrator account in the Password and Confirm password fields.

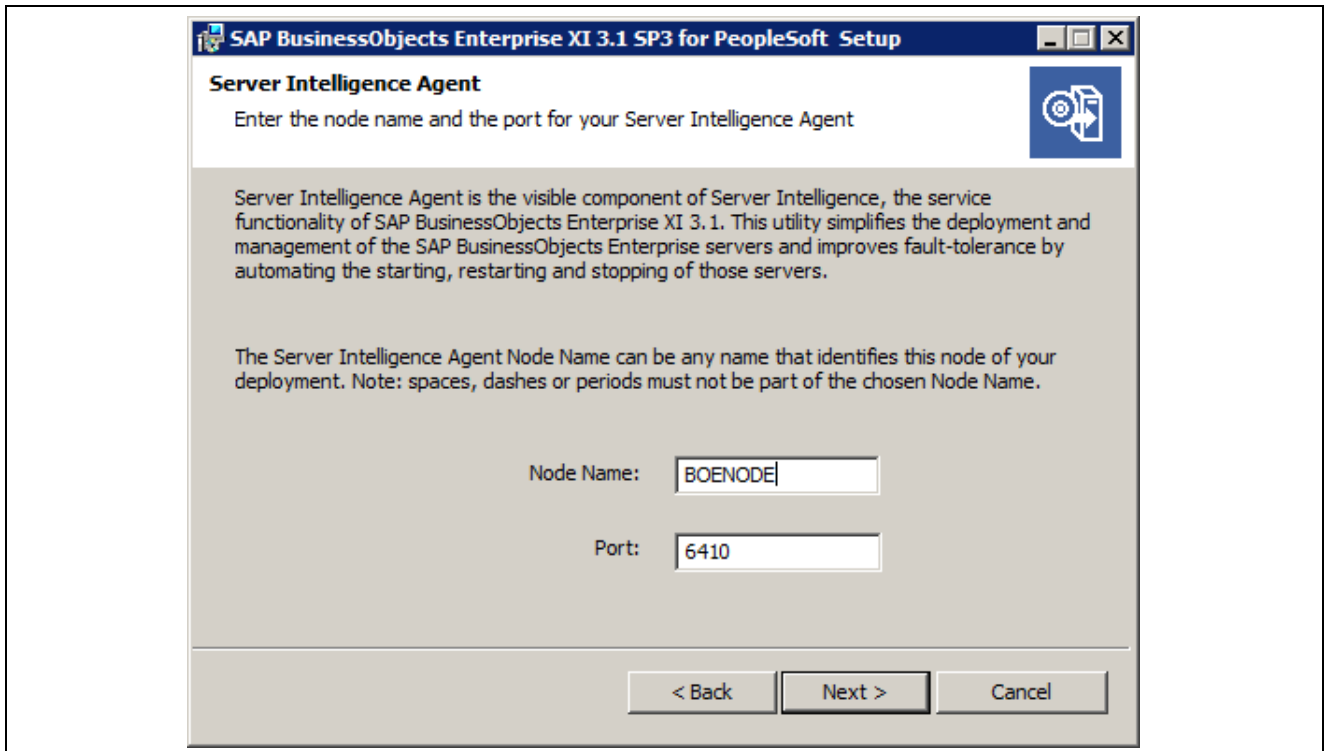
Use this password with user name *Administrator* to log in from the Central Configuration Manager later in this section. You will also need it during the setup process for the BusinessObjects Enterprise XI 3.1 Integration Kit for PeopleSoft.

10. Click Next.

The Server Intelligence Agent (SIA) window appears.

11. Specify the following information:





SAP BusinessObjects Enterprise XI 3.1 SP3 Setup Server Intelligence Agent window

- *Node Name*

Provide a unique name to identify the SIA node. The name in the example is BOENODE.

---

**Note.** Do not use spaces or non-alphanumeric characters in a SIA node name.

---

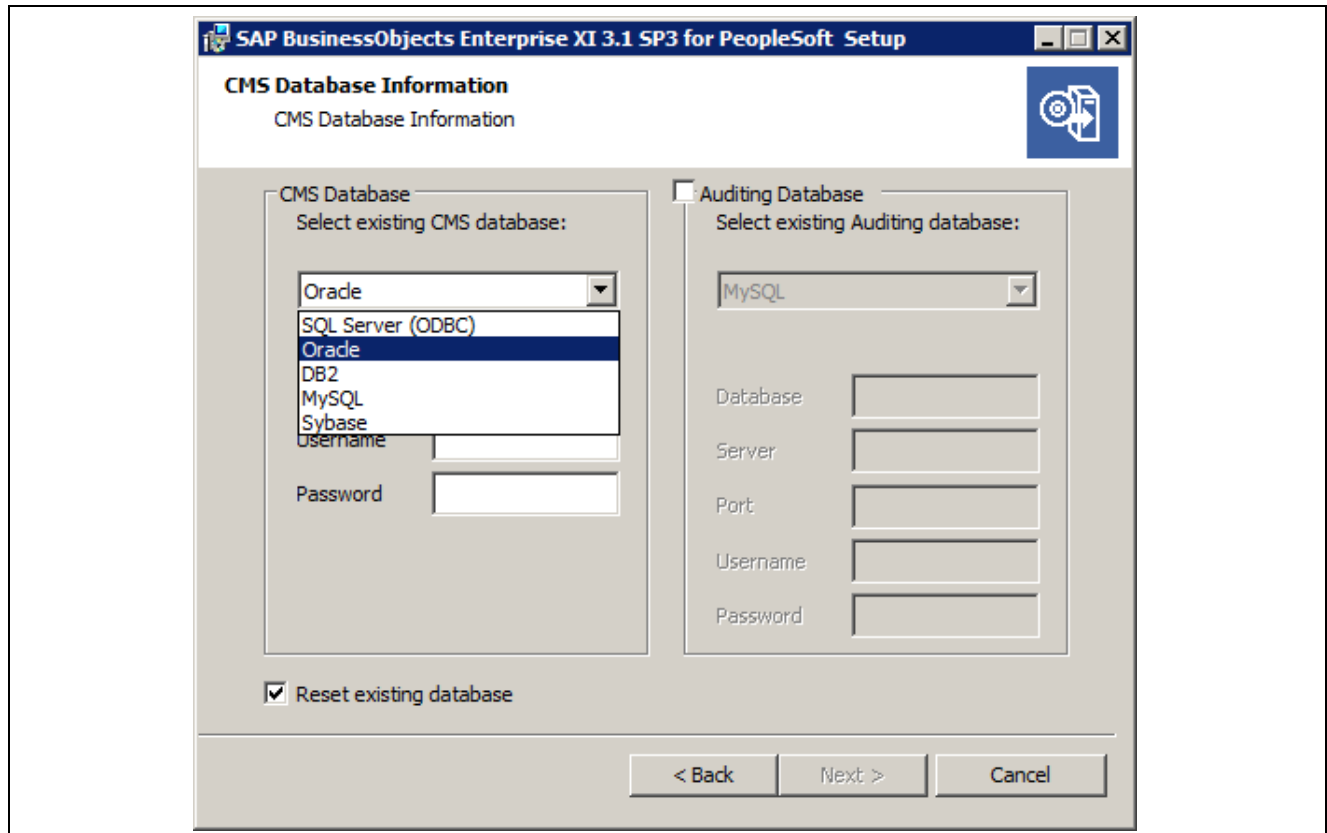
- *Port*

Specify a port number for the SIA. The default is 6410, as shown in the example. This port will be used by the Server Intelligence Agent to communicate with the Central Management Server.

After you enter the SIA information, the port number will be validated. A warning will appear if the port you specify is not available. After the port is validated, you can proceed to configure the CMS database for your installation.

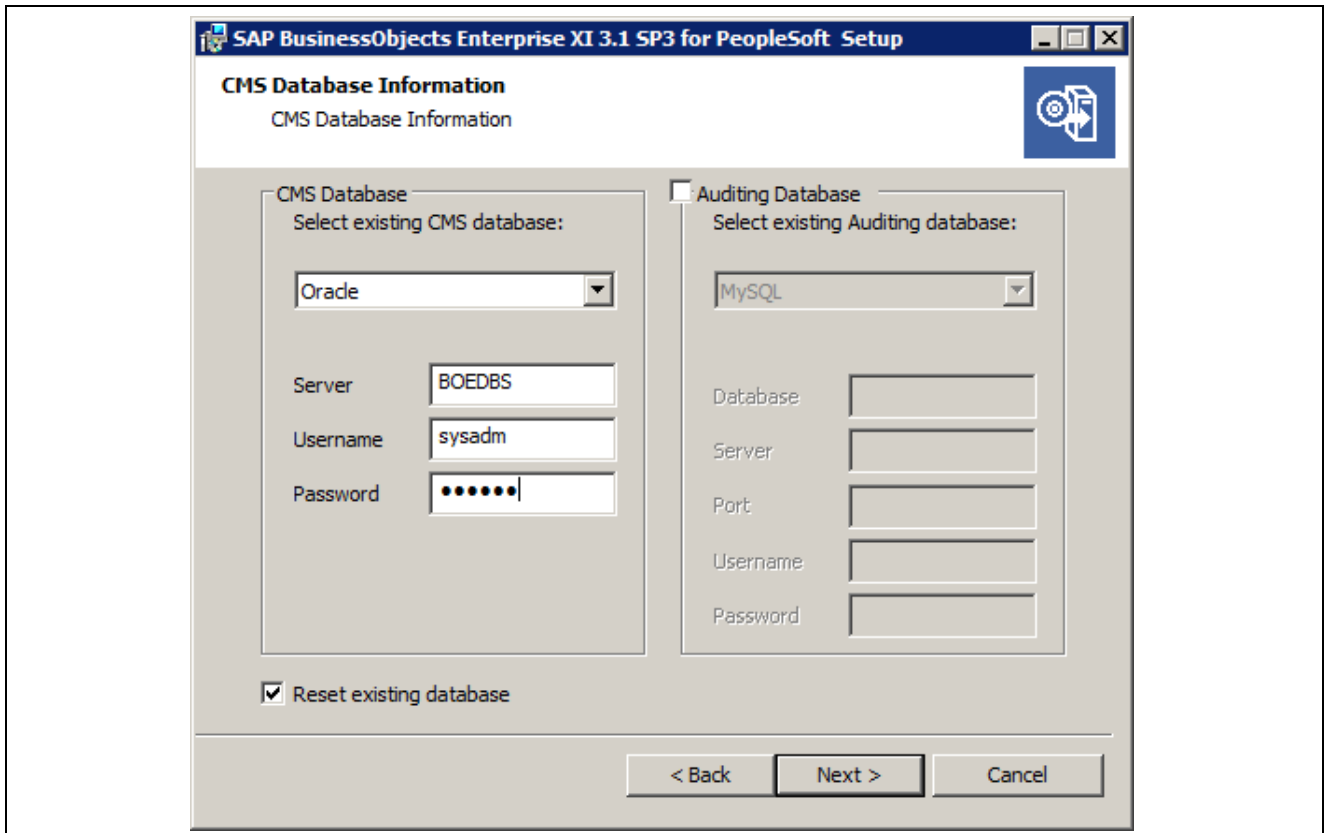
12. Click Next.

The CMS Database Information window appears.



SAP BusinessObjects Enterprise XI 3.1 SP3 Setup window CMS Database Information window

13. If you chose the option to use an existing database server, enter connection and authentication details for the database as follows:



CMS Database Information for an Oracle database

- Select a database type from the Select existing CMS database drop-down list in the CMS Database pane. Depending on your database server selection, corresponding input fields are displayed in the CMS Database pane.

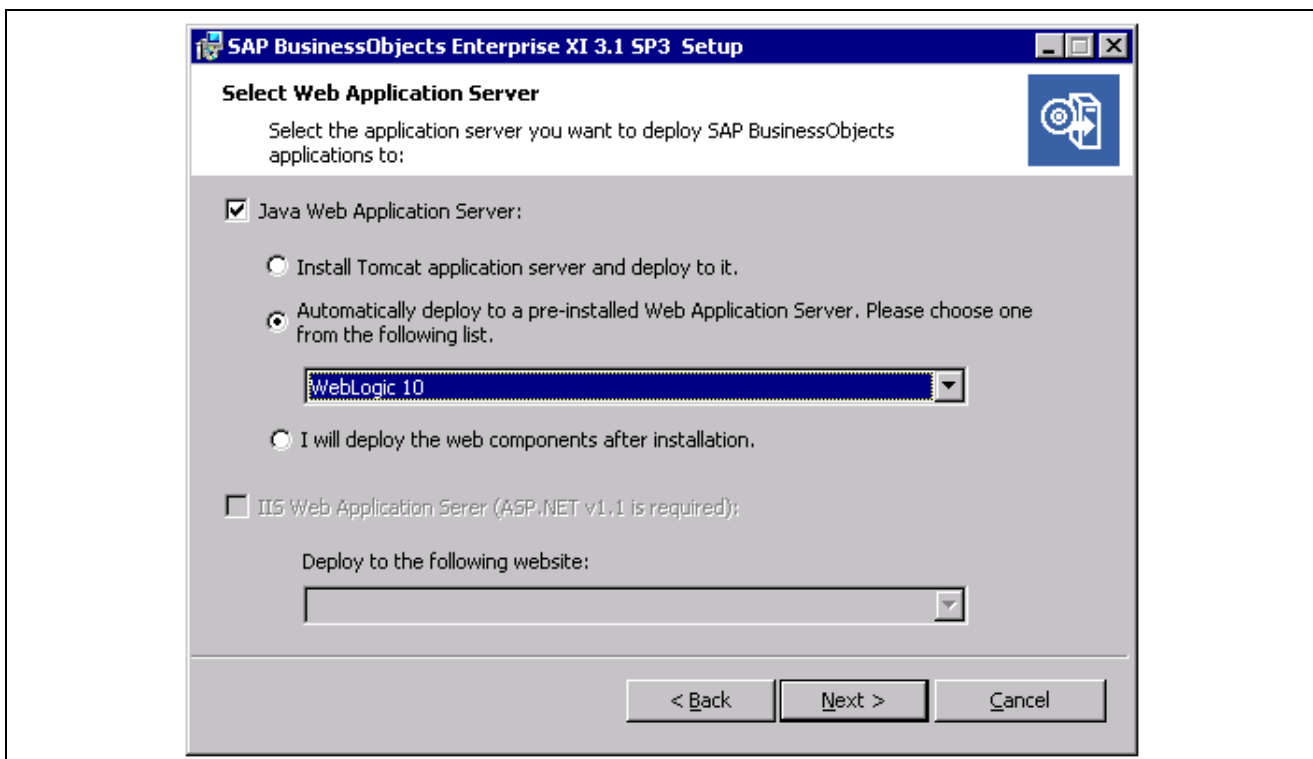
- Provide all the required information for the database in the fields provided in the CMS Database pane. The table below summarizes all the information required for each database type:

| Database Platform          | Required Information                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DB2 LUW                    | <ul style="list-style-type: none"> <li>• Server: DB2 LUW database alias</li> <li>• User name for login</li> <li>• Password for login</li> </ul>                                                                                                                                                                                                                                                                                                                            |
| Microsoft SQL Sever (ODBC) | ODBC DSN<br><br>This is specified in the Microsoft Windows Data Sources (ODBC) dialog box. Select Start, Programs, Control Panel, Administrative Tools, Data Sources (ODBC).                                                                                                                                                                                                                                                                                               |
| MySQL                      | MySQL is not supported in the integration of PeopleSoft with BusinessObjects Enterprise XI.                                                                                                                                                                                                                                                                                                                                                                                |
| Oracle                     | <ul style="list-style-type: none"> <li>• Server: tnsnames connect identifier</li> <li>• User name for login</li> <li>• Password for login</li> </ul>                                                                                                                                                                                                                                                                                                                       |
| Sybase                     | <ul style="list-style-type: none"> <li>• Server: Sybase Server Name</li> </ul> The Sybase server name is a combination of the host name and the port number which is set by your database administrator in the file sql.ini. <ul style="list-style-type: none"> <li>• User name for login</li> </ul> The user name should be a default user for the SAP BusinessObjects Enterprise XI 3.1 database. <ul style="list-style-type: none"> <li>• Password for login</li> </ul> |

- Select the Reset existing database box to delete all current tables and entries in existing database CMS and auditing databases.

14. Click Next to continue with the installation.

The Select Web Application Server window appears. This screen only appears if a connection is established with the database configuration you provided.



SAP BusinessObjects Enterprise XI 3.1 SP3 Select Web Application Server window

15. Select Java Web Application Server option, and select one of the options for the web server software from the drop-down list under Automatically deploy to a pre-installed Web Application Server:

---

**Note.** Tomcat and IIS web application servers are not supported by Oracle for PeopleSoft installations.

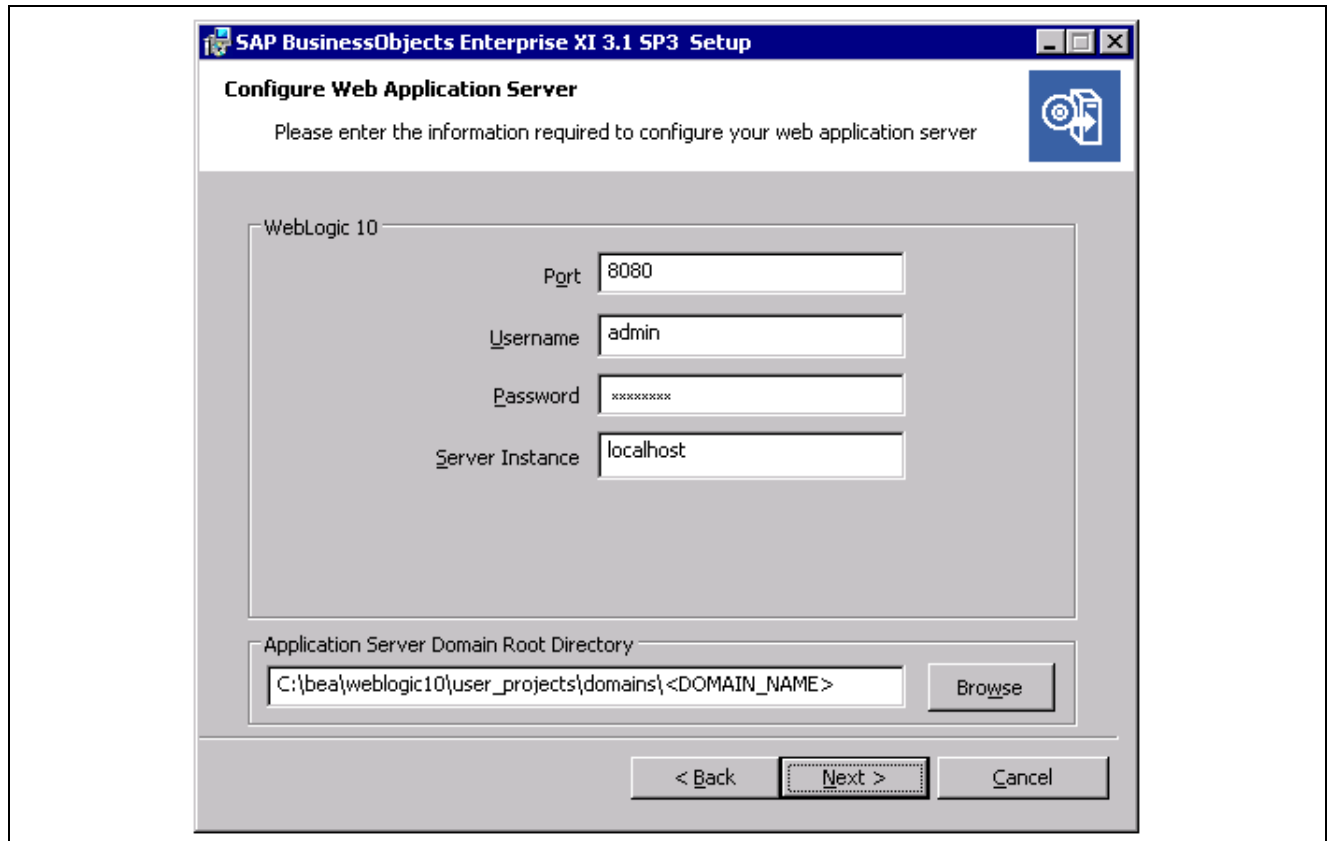
---

- Oracle WebLogic (The example above shows WebLogic 10.)
- IBM WebSphere

16. Click Next.

The options on the screen that appears next depend upon which web application server you select.

17. If you selected the option for Oracle WebLogic, the following Configure Web Application server window appears:



SAP BusinessObjects Enterprise XI 3.1 SP3 Configure Web Application Server window for Oracle WebLogic

Enter the following information for an Oracle WebLogic web server:

See Creating an Oracle WebLogic Server

- *Port*

Enter the application port of the web application server; in this example, the port is 8080.

- *Username*

Enter the name for the user with administration rights to the web application server; in this example, the user name is admin.

- *Password*

Enter the password for the administrator user account.

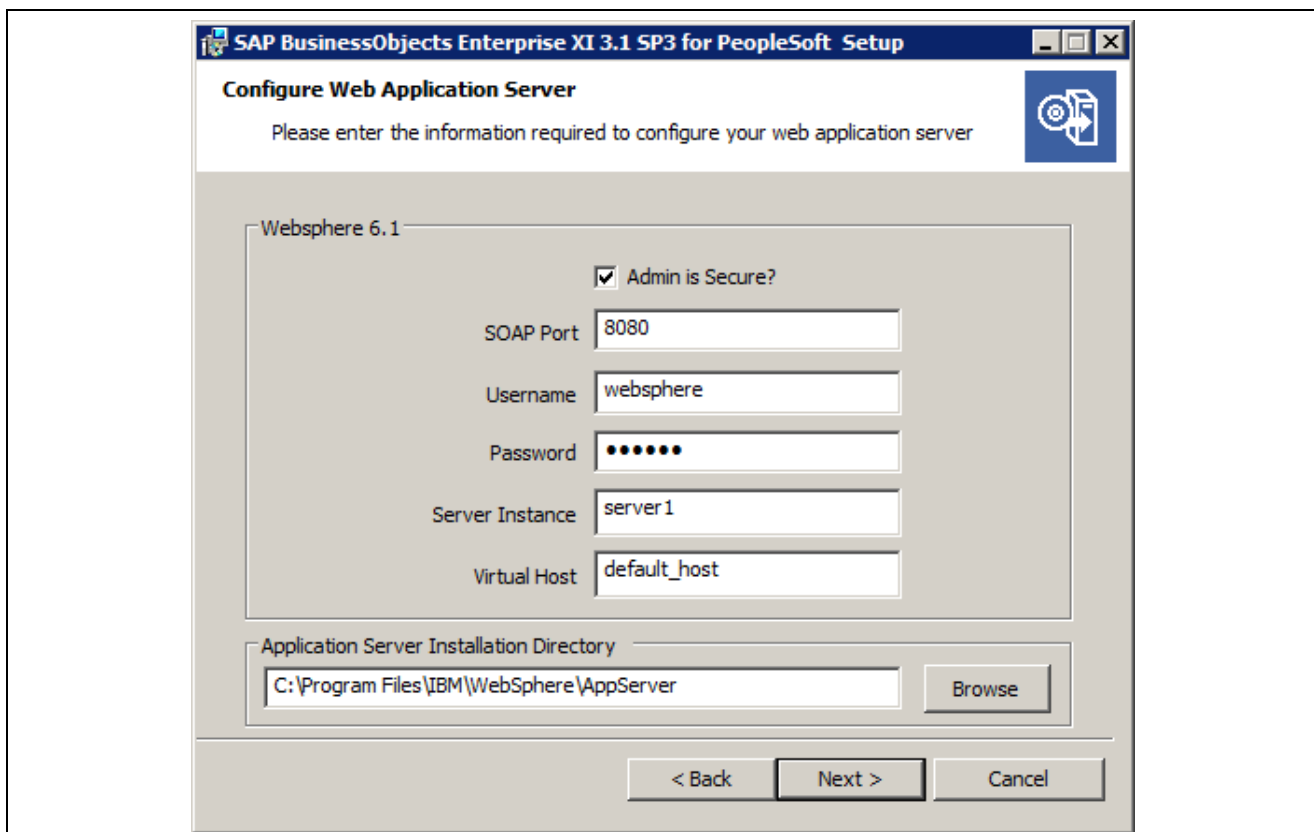
- *Server Instance*

Enter the name for the current web application server instance; in this example, localhost.

- *Application Server Domain Root Directory*

The root directory for the web server domain; in this example, the directory is C:\bea\weblogic10\user\_projects\domains\<DOMAIN\_NAME>.

18. If you selected the option for IBM WebSphere, the following Configure Web Application server window appears:



SAP BusinessObjects Enterprise XI 3.1 SP3 Configure Web Application Server window for IBM WebSphere

Enter the following information for an IBM WebSphere web server:

- *SOAP Port*

The SOAP Connector Port of the application server (the default is 8080 as shown in the example).

- *Username*

User name with administration rights to the WebSphere application server; for example, websphere.

- *Password*

Password for account with administration rights to the application server.

- *Server Instance*

Name of the current web application server instance. The default is server1, as shown in the example.

- *Virtual Host*

The virtual host to which the application must be bound. The default is default\_host, as shown in the example.

- *Admin is secure?*

Select this option to enable security requiring administrative access credentials to the application.

---

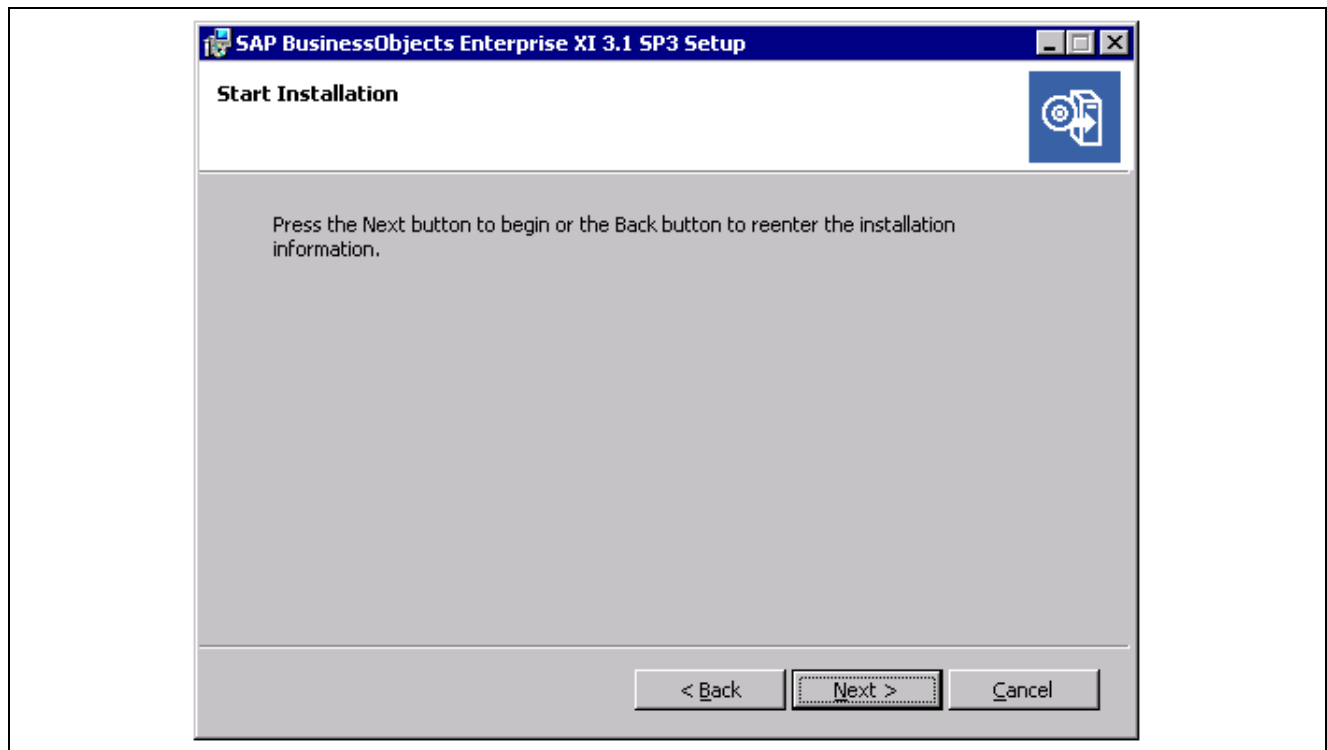
**Note.** Values for Username and Password must be set when Admin is Secure is enabled.

---

- *Application Server Installation Directory*

The directory where the web application server is installed (for example, C:\Program Files\IBM\WebSphere\AppServer).

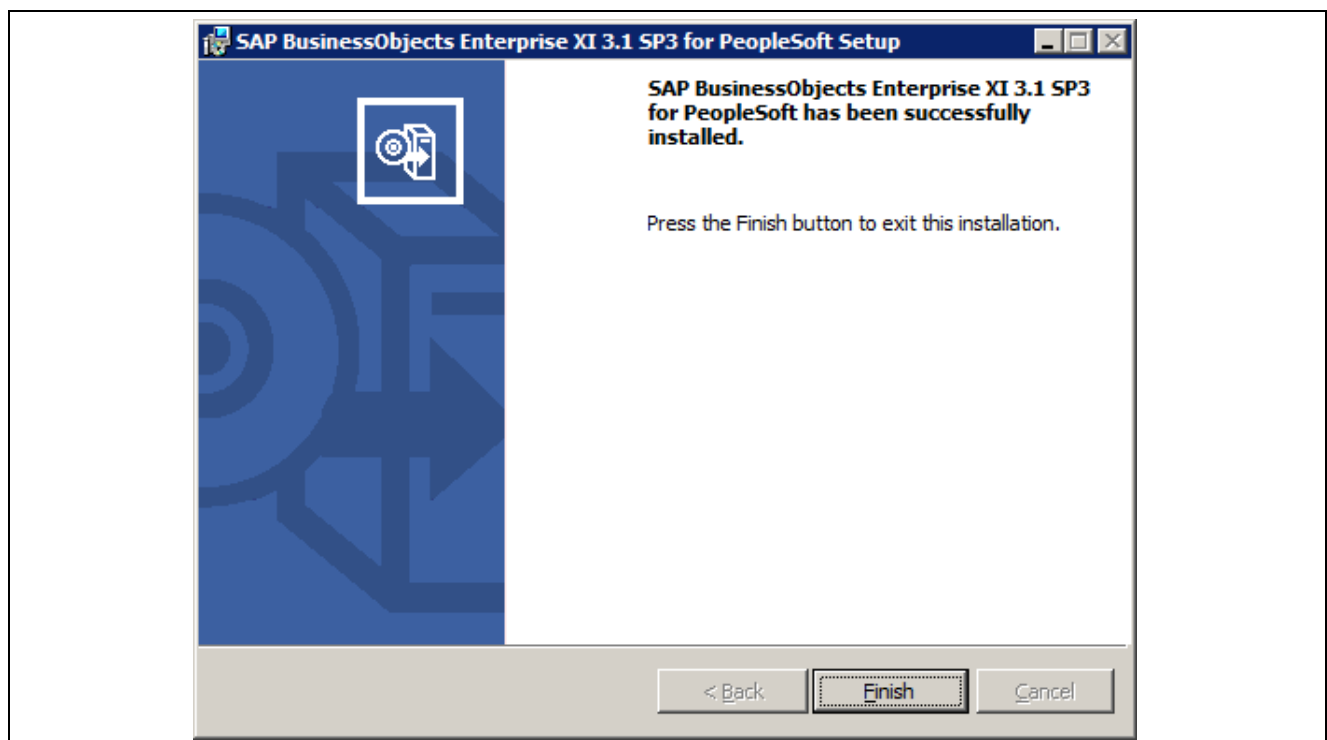
19. Click Next to start the installation process.



SAP BusinessObjects Enterprise XI 3.1 SP3 Start Installation window

20. Click Finish when the installation is complete.

Reboot your machine.



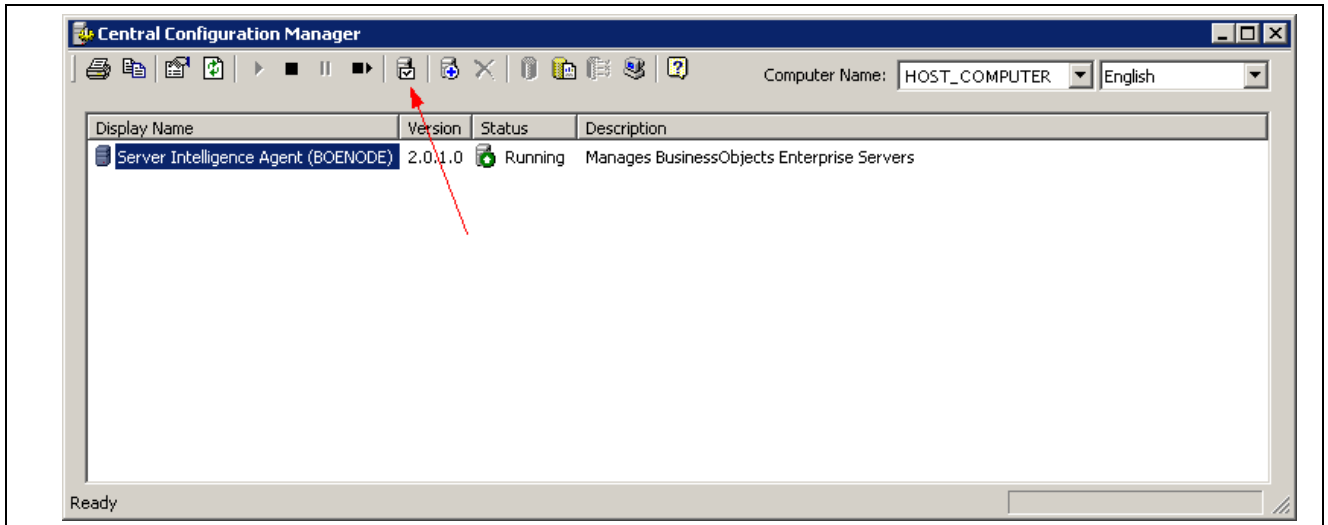
SAP BusinessObjects Enterprise XI 3.1 SP3 for PeopleSoft Setup has been successfully installed window



21. Select Start, Programs, BusinessObjects XI 3.1, BusinessObjects Enterprise, Central Configuration Manager.

The Central Configuration Manager appears.

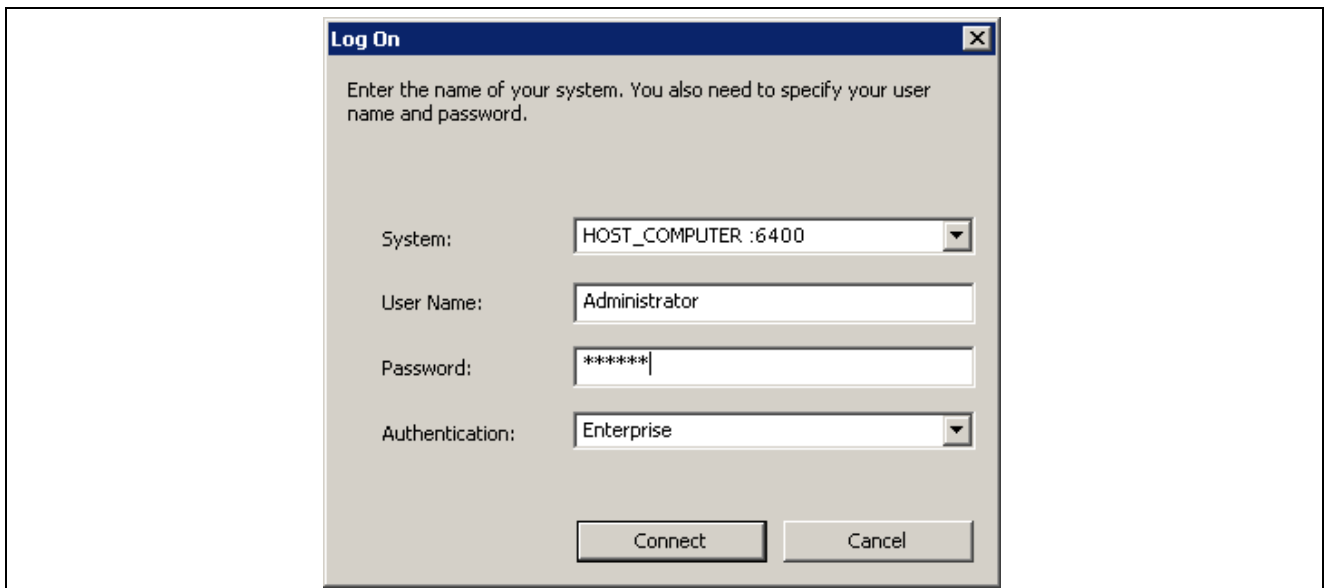
22. Click the Manage Servers icon, indicated by the red arrow in the example below.



Central Configuration Manager dialog box

The Log On dialog box appears.

23. Enter the following information to log on:



Log on dialog box

- *System*

Enter the node name and port, separated by a colon. The default name is the machine name, and the default port is 6400.

- *User Name*

Enter the CMS administrator user name; the default is Administrator.

- *Password*

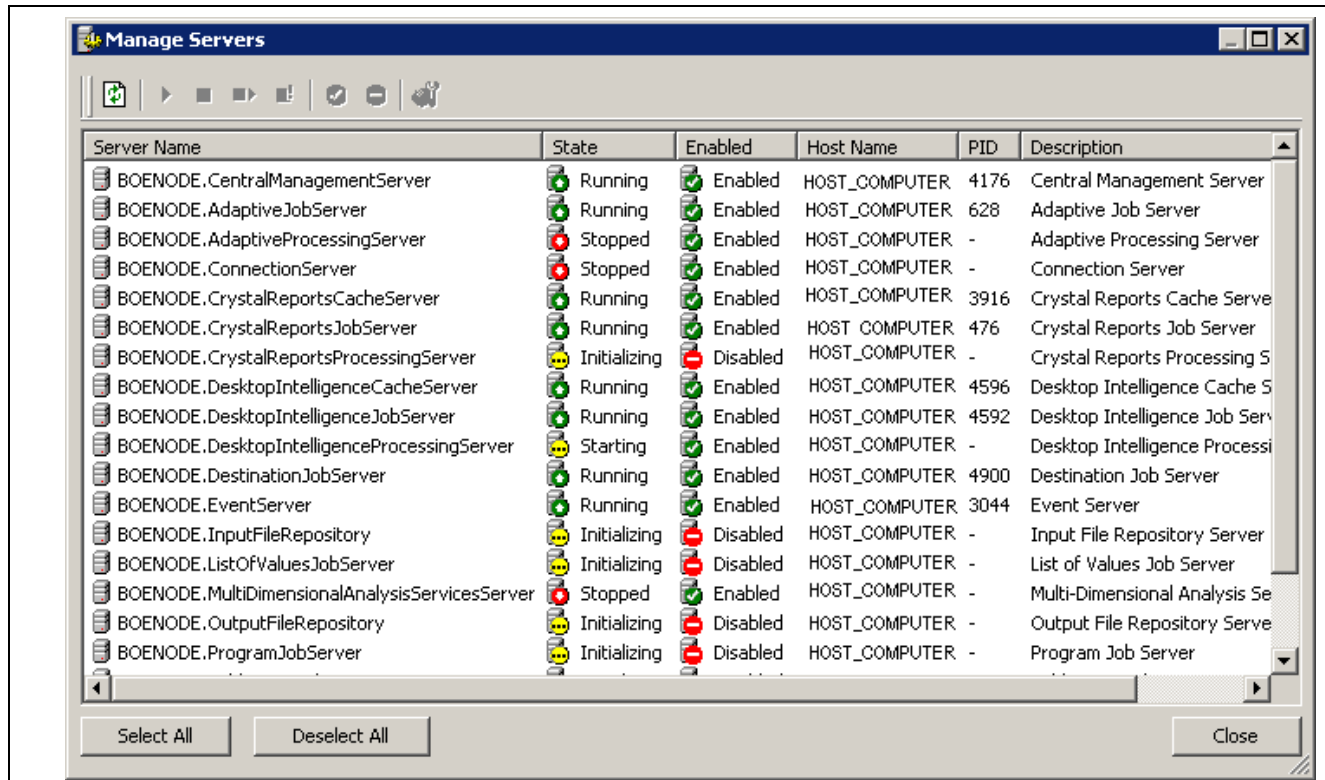
Enter the CMS administrator password, as you specified on the Server Components Configuration window above.

- *Authentication*

Select *Enterprise* from the drop-down list.

24. Click Connect.

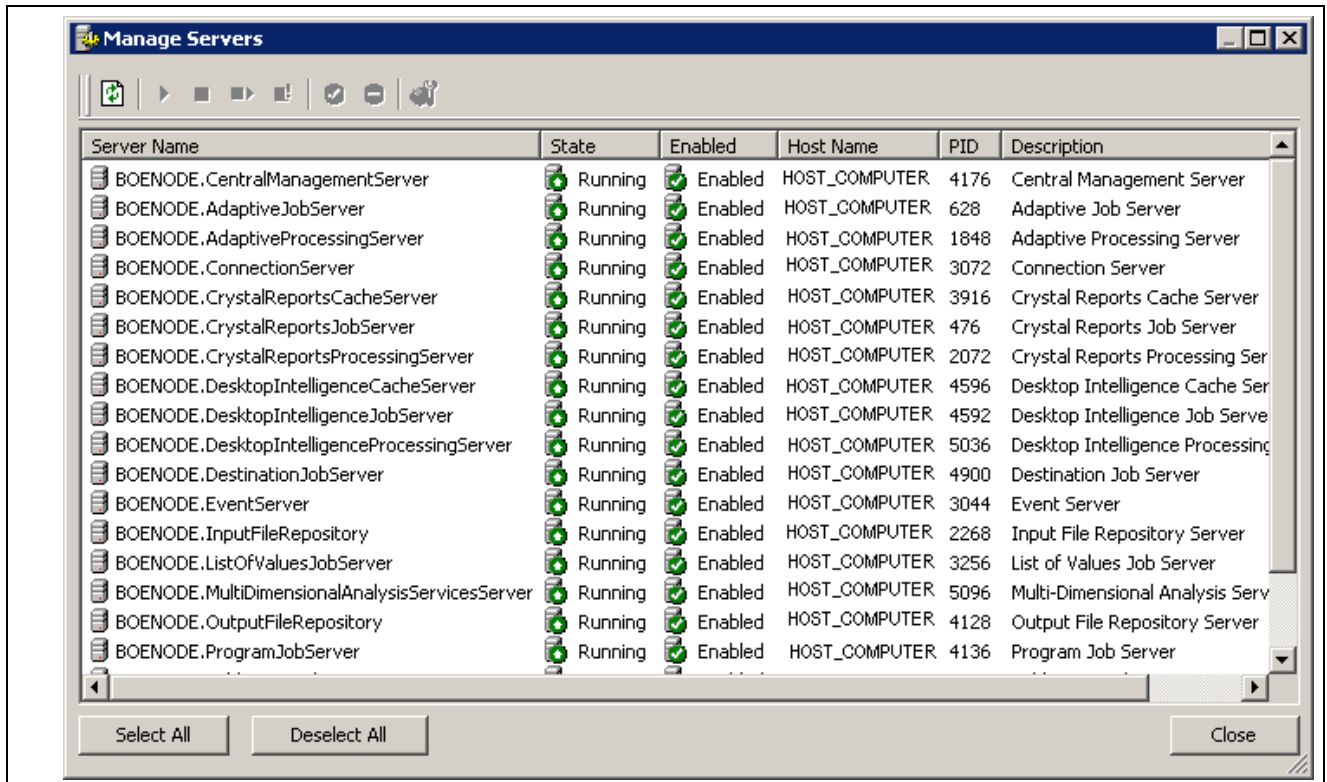
The Manage Servers dialog box appears with all servers and their state. The servers take a couple of minutes to start up. The listing is not refreshed unless the refresh button is clicked.



Manage Servers dialog box before refreshing

Ensure all servers are started, as indicated by the status Running in the State column.

**Note.** After each machine reboot, you have to restart the Server Intelligence Agent in the Central Configuration Manager.



Manage Servers dialog box after refreshing

25. Set the following environment system variables after the SAP BusinessObjects Enterprise XI 3.1 installation is complete:

**Important!** If these system variables are not set, the deployment of the BusinessObjects Enterprise web applications will fail as they are dependent on these environment settings.

**Note.** *BOE\_HOME* refers to the folder in which you installed SAP BusinessObjects Enterprise XI 3.1 (for example, C:\Program Files (x86)\BusinessObjects\). Substitute your path in the following.

The PATH environment system variable should include:

*BOE\_HOME*\BusinessObjects Enterprise 12.0\win32\_x86

26. Reboot your machine.

If your web server software is Oracle WebLogic 10.3, see the section on deploying web applications manually later in this chapter.

See Administering and Using SAP BusinessObjects Enterprise XI 3.1, Deploying Manually on Oracle WebLogic 10.3.

## Task 16-4-5: Installing BusinessObjects Integration Kit for PeopleSoft on Windows

Before you begin, ensure that:

- The Central Management Server (CMS) and web server are running.

- You know the logon credentials for the BusinessObjects Enterprise Administrator account and for the web server. You will be prompted for administrator logon details for the CMS machine and the web server.
- You have downloaded the installation files for the BusinessObjects Enterprise XI 3.1 Integration Kit for PeopleSoft from Oracle Software Delivery Cloud and extracted them into a convenient directory, referred to here as *BOE\_INTEG\_INSTALL*.

Carry out this procedure on the machine where SAP BusinessObjects Enterprise XI 3.1 is installed.

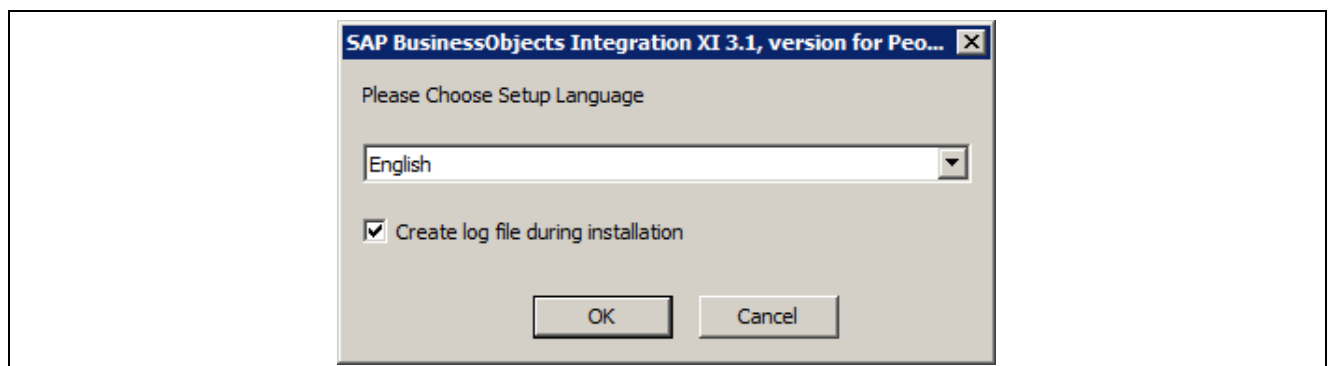
To install the integration kit:

1. Run *BOE\_INTEG\_INSTALL\setup.exe*.
2. Choose the setup language and click OK.

---

**Note.** This is the language in which you want to perform the installation.

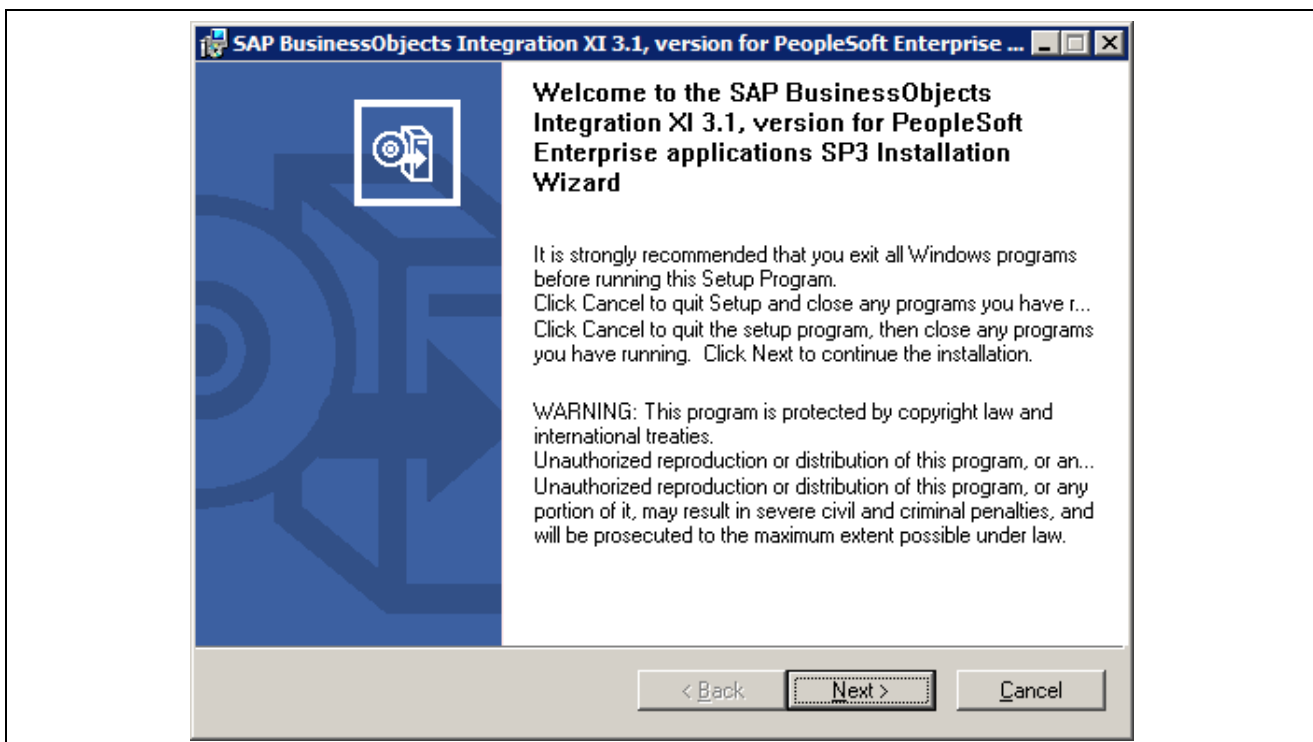
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SAP BusinessObjects Integration XI 3.1, version for PeopleSoft Enterprise Choose Setup Language window

The Welcome window appears.

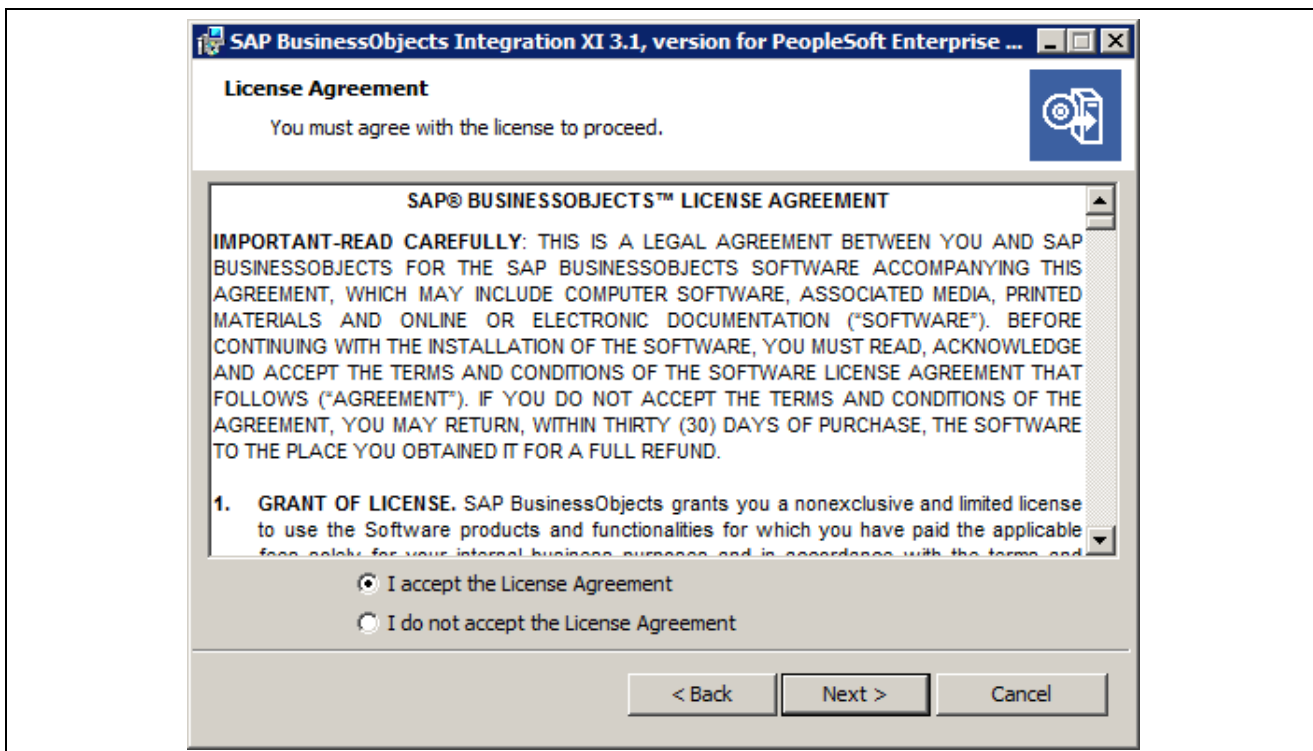
3. Read the recommendation to exit all Windows programs, and click next



SAP BusinessObjects Integration XI 3.1, version for PeopleSoft Enterprise Welcome window

The License Agreement dialog box appears.

4. To continue the installation, you must accept the license agreement and click Next.

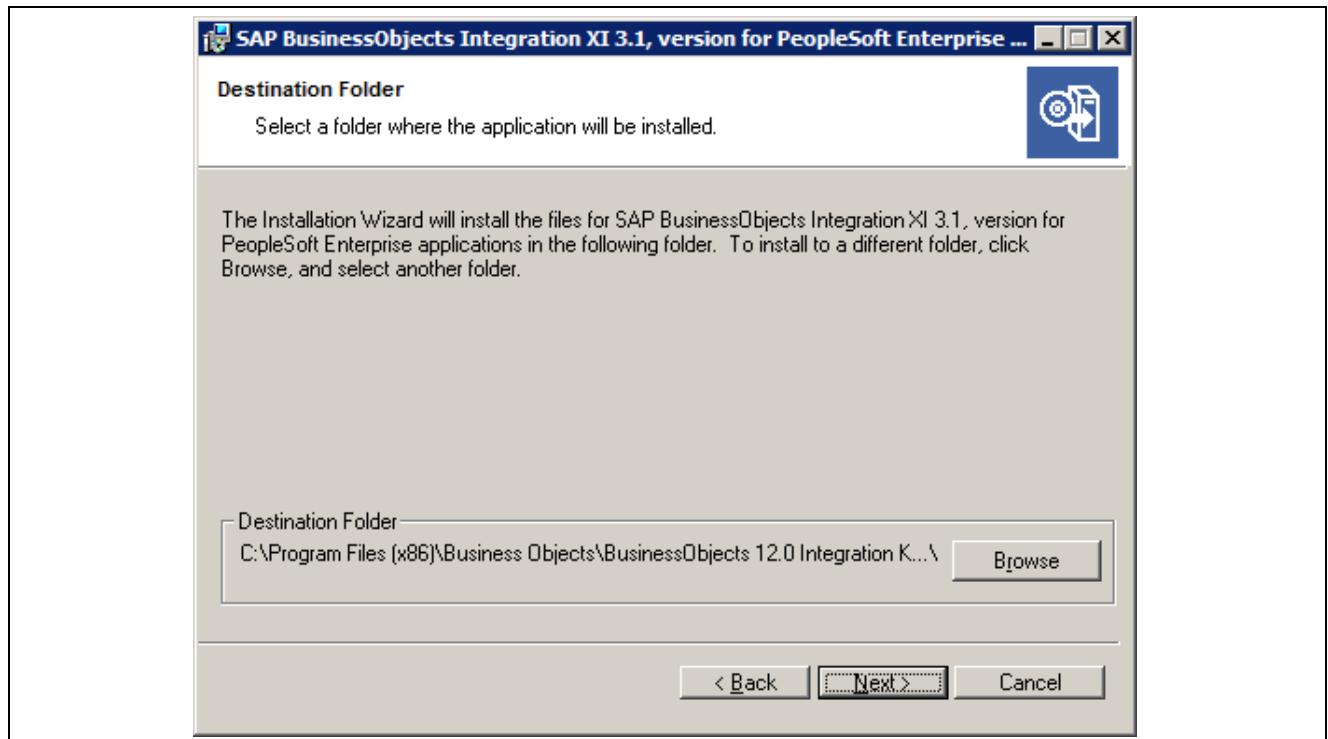


SAP BusinessObjects Integration XI 3.1, version for PeopleSoft Enterprise License Agreement window

The Destination Folder window appears.

5. Specify the folder where you want the integration product files to be installed, or accept the default, and click Next.

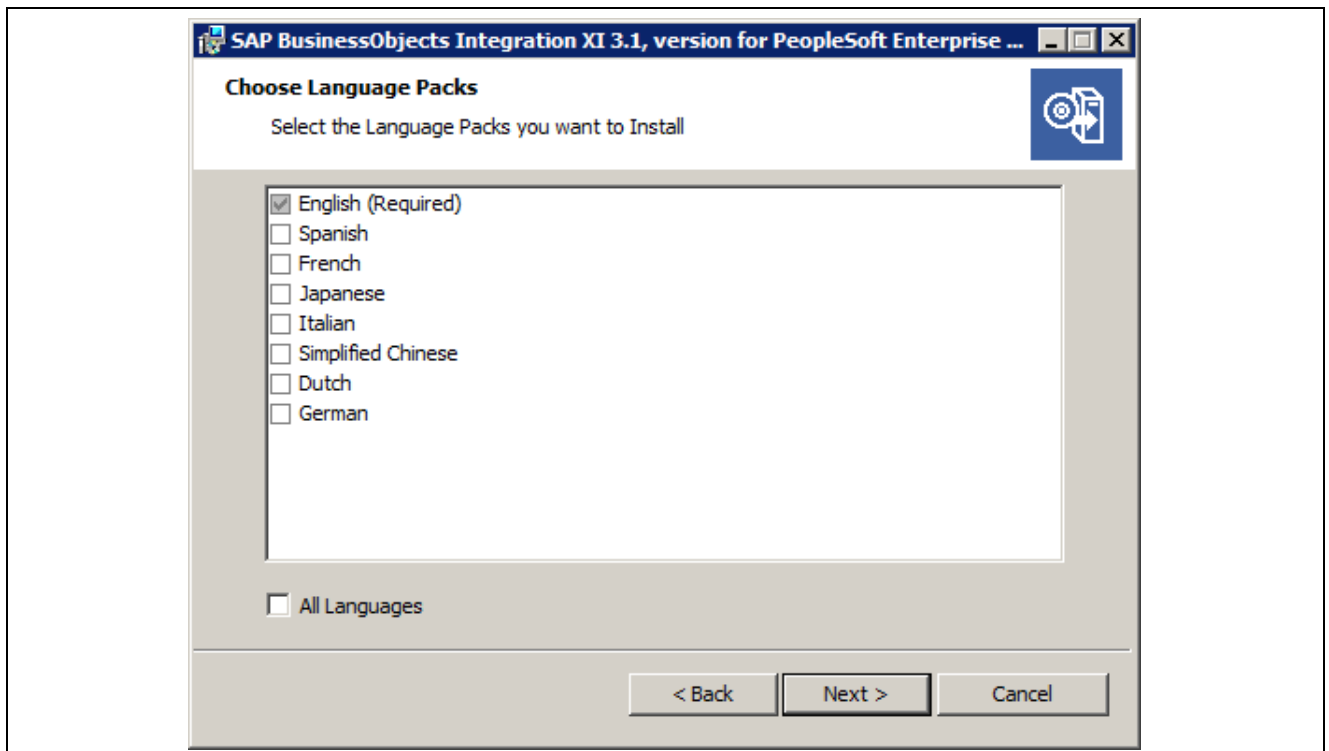
In this example, the default is C:\Program Files (x86)\Business Objects\BusinessObjects 12.0 Integration Kit for PeopleSoft.



SAP BusinessObjects Integration XI 3.1, version for PeopleSoft Enterprise Destination Folder window

The Choose Language Pack window appears.

6. Choose the language pack you want to install and click Next.



SAP BusinessObjects Integration XI 3.1, version for PeopleSoft Enterprise Choose Language Packs window

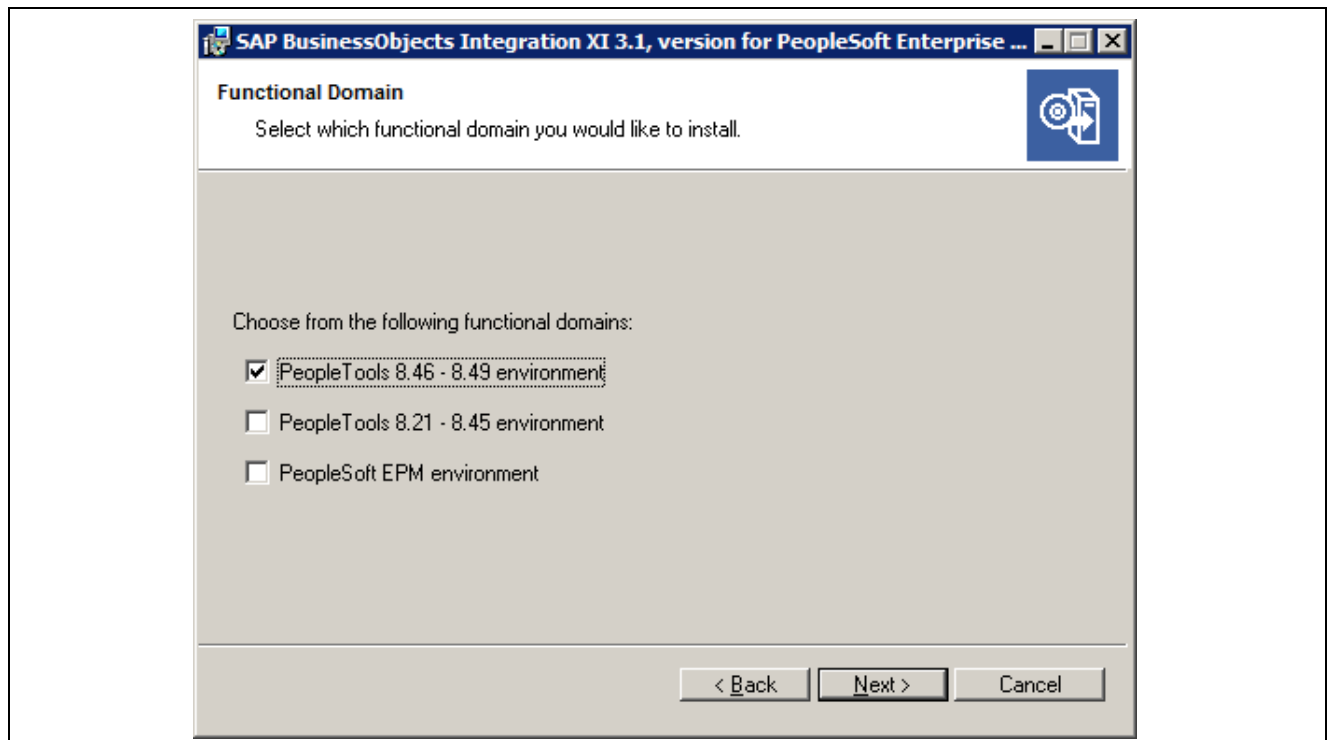
The Functional Domain window appears.

7. Select the first option PeopleTools 8.46-8.49 environment and click Next.

---

**Note.** This option is correct for PeopleSoft PeopleTools 8.50 and higher as well as for PeopleTools 8.46-8.49.

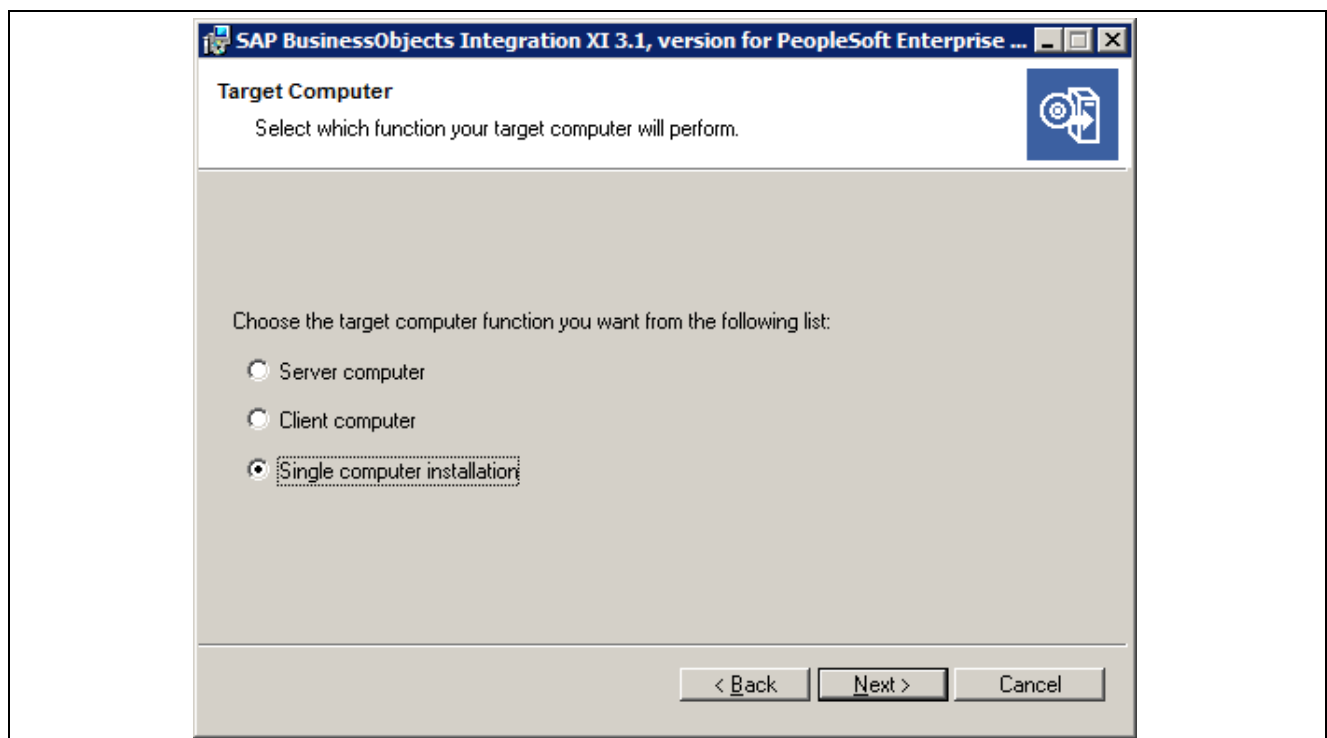
---



SAP BusinessObjects Integration XI 3.1, version for PeopleSoft Enterprise Functional Domain window

The Target Computer window appears.

8. Choose Server computer, Client computer, or Single Computer, as follows:



SAP BusinessObjects Integration XI 3.1, version for PeopleSoft Enterprise Target Computer window

- If only BusinessObjects Enterprise is installed, select the Server computer type.



- If only Crystal Reports or Business View Manager or Publishing Wizard is installed, select the Client computer type.
- If both BusinessObjects Enterprise and Crystal Reports or Business View Manager or Publishing Wizard are installed, select the Single computer type.

9. Click Next.

The BusinessObjects Central Management Server window appears.

SAP BusinessObjects Integration XI 3.1, version for PeopleSoft Enterprise Central Management Server window

Enter the following information:

- *System*

Enter the name of the computer on which you installed SAP BusinessObjects Enterprise XI 3.1. This example uses HOST\_COMPUTER.

- *Port*

Enter the CMS port number, 6400 in this example, you entered on the Server Components Configuration window when installing SAP BusinessObjects Enterprise XI 3.1.

- *User Name*

When you enter the System and Port, the user name Administrator is populated.

- *Password*

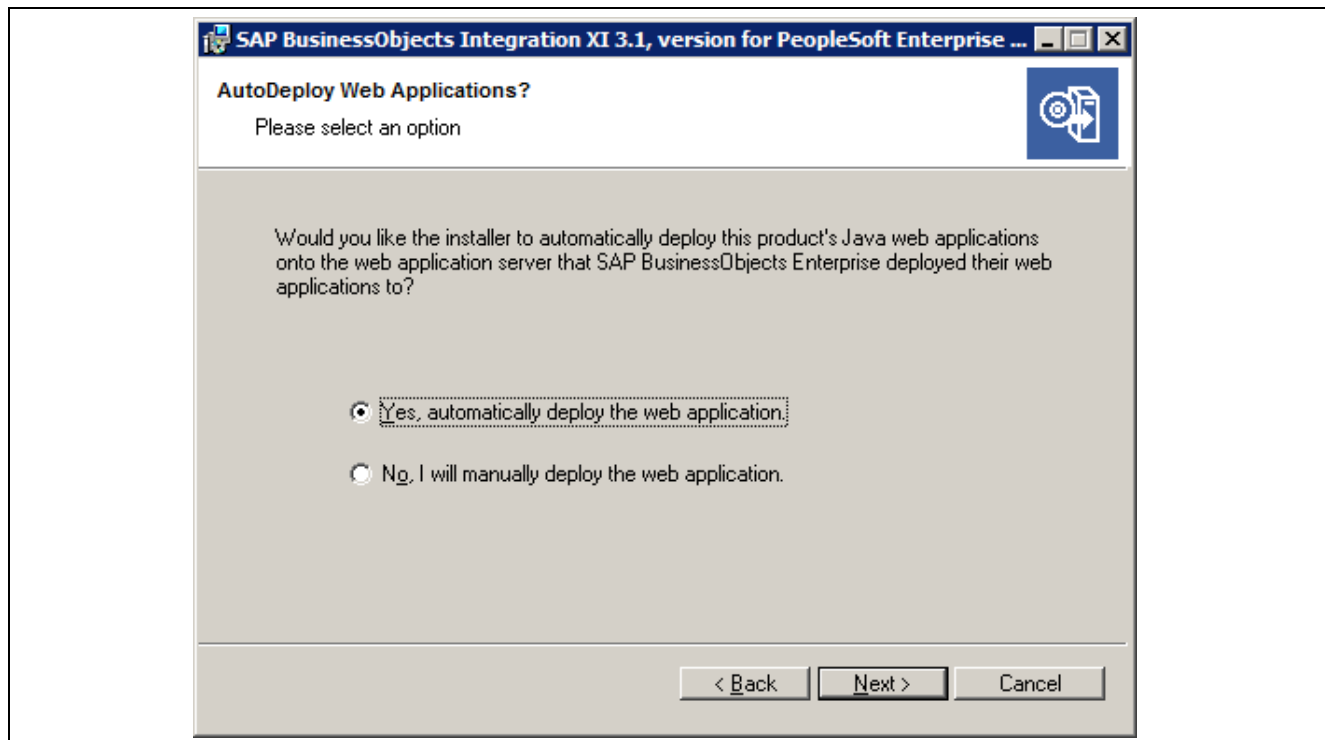
Enter the password for the CMS Administrator account that you entered on the Server Components Configuration window.

- *Authentication*

When you fill out the above fields, and click Next, this field is populated with Enterprise.

10. Click Next.

The AutoDeploy Web Applications window appears.



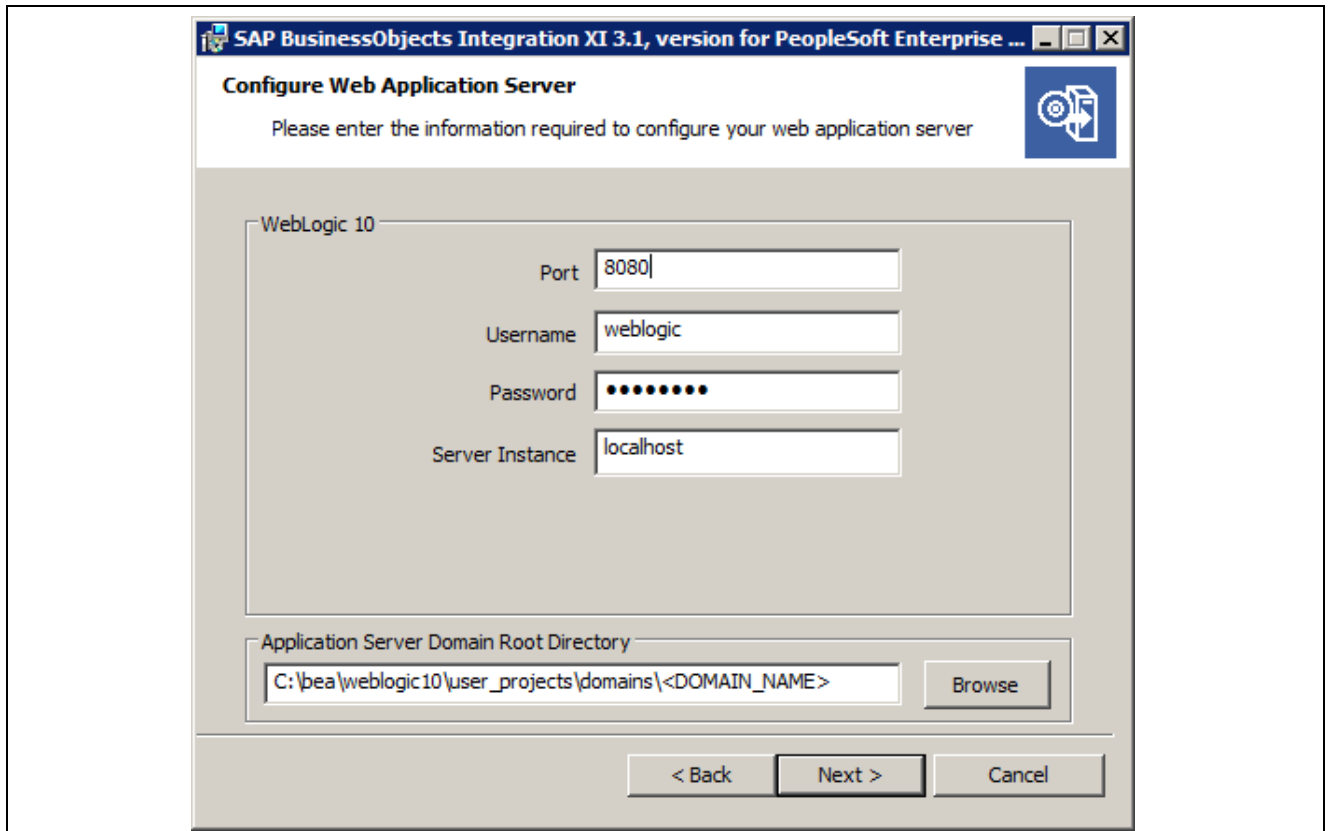
SAP BusinessObjects Integration XI 3.1, version for PeopleSoft Enterprise AutoDeploy Web Applications window

11. If your web server is Oracle WebLogic, select the first option, Yes automatically deploy the web application, and click Next.
12. If your web server is IBM WebSphere, select the second option, No, I will manually deploy the web application.

Skip the next step, for Oracle WebLogic. The instructions for manual deployment for IBM WebSphere are given in a later section.

See Administering and Using SAP BusinessObjects Enterprise XI 3.1, Deploying Manually Through IBM WebSphere Console.

13. If your web server is Oracle WebLogic, the following Configure Web Application Server Window appears:



SAP BusinessObjects Integration XI 3.1, version for PeopleSoft Enterprise Configure Web Application Server window

Enter the following information for the web application server that you created before you installed SAP BusinessObjects Enterprise XI 3.1:

- *Port*

Enter the listening port for the web application server. In this example, the port is 8080.

- *Username*

Enter the administrator user name that you entered when installing the web application software. In this example, for Oracle WebLogic, the user name is weblogic.

- *Password*

Enter the administrator password that you entered for the web application software.

- *Server Instance*

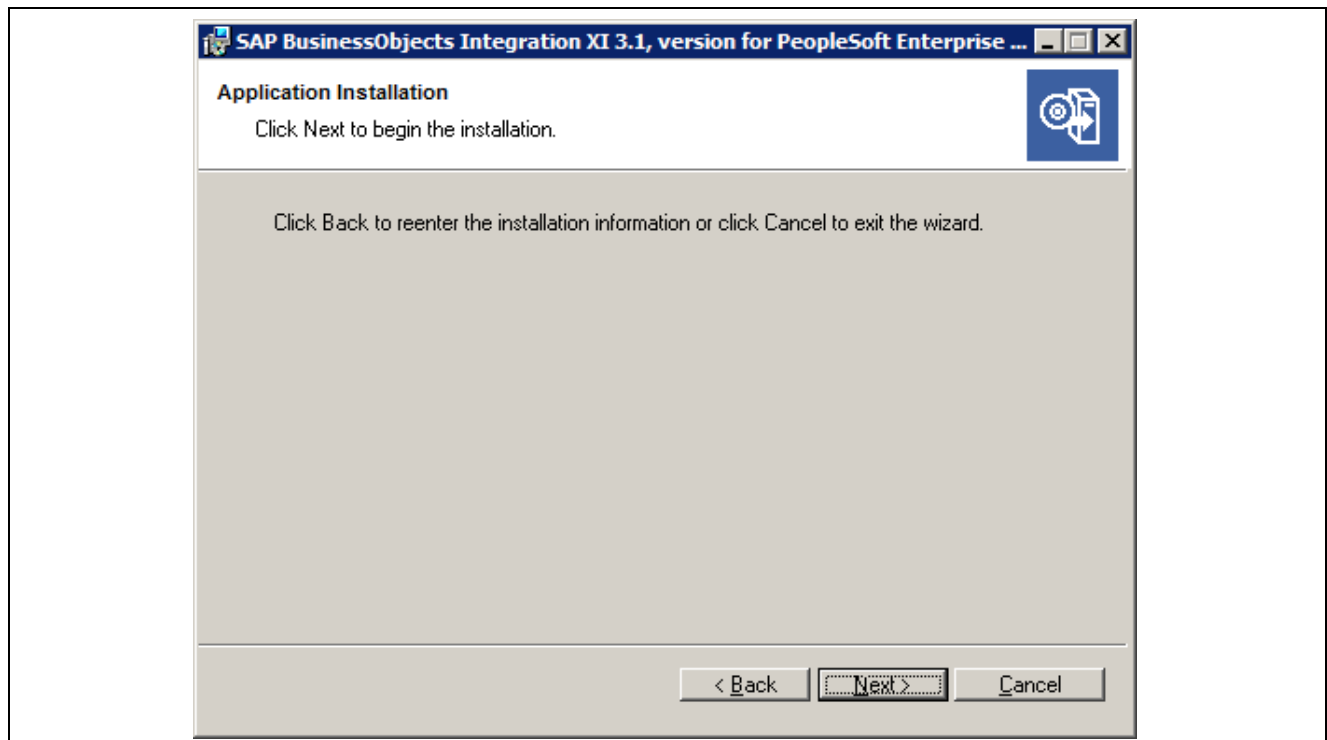
Enter the server instance, in this example, localhost. For Oracle WebLogic, the default is AdminServer.

- *Application Server Domain Root Directory*

Browse to find the directory of the domain you created for the web server. In this example, the directory is C:\bea\weblogic10\user\_projects\domains\<DOMAIN\_NAME>.

14. Click Next.

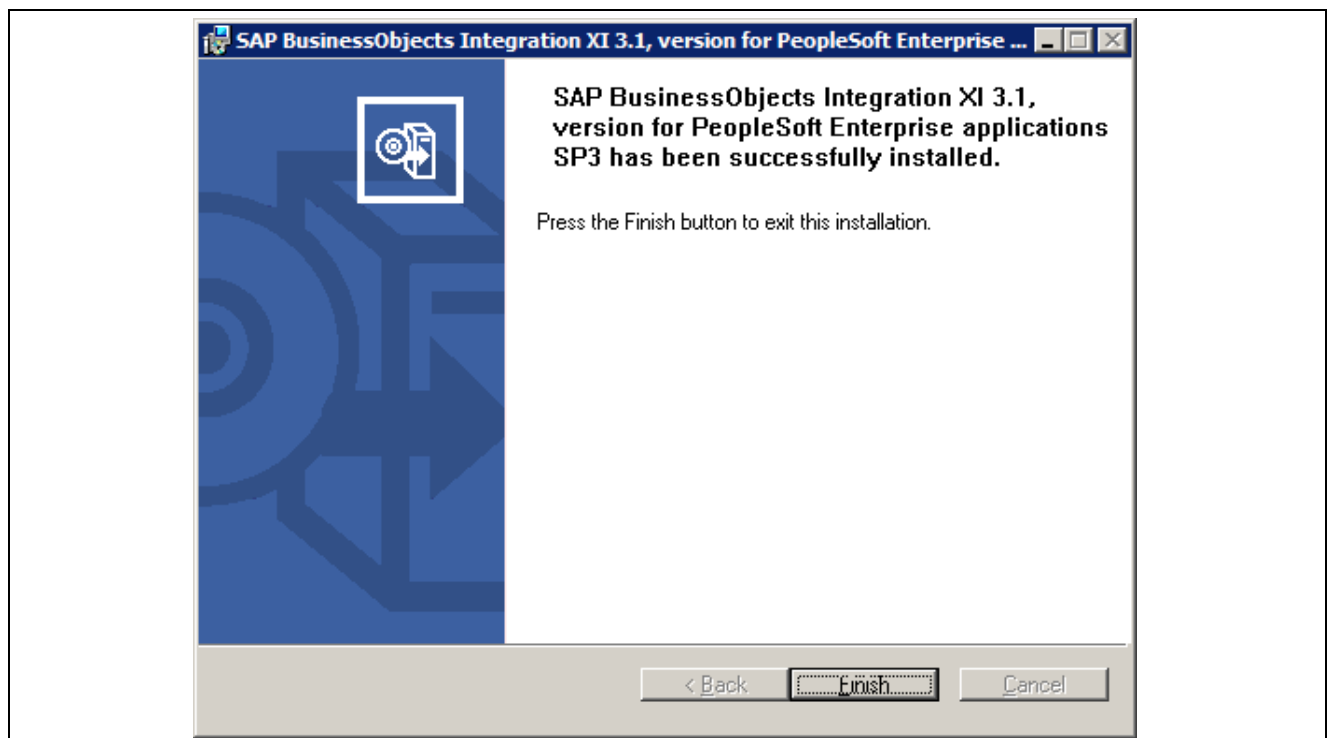
The Application Installation dialog box appears.



SAP BusinessObjects Integration XI 3.1, version for PeopleSoft Enterprise Application Installation window

15. Click Next to begin the installation.

When the installation is complete, click Finish.



SAP BusinessObjects Integration XI 3.1, version for PeopleSoft Enterprise has been successfully installed window

## Task 16-4-6: Installing Fix Packs or Service Packs on Windows

After completing the full installation of SAP BusinessObjects Enterprise XI 3.1 and the BusinessObjects Integration Kit for PeopleSoft, you must install the appropriate additional fix pack or service pack for each. Consult the certification information on My Oracle Support for the patch level required for your installation.

See "Operating System, RDBMS & Additional Component Patches Required for Installation PeopleTools," My Oracle Support, (search for article name).

Use these instructions to apply each fix pack:

1. Go to the local directory where you downloaded and extracted the fix pack.
2. Launch the installation by running setup.exe.

- If you see the following error message:

```
The install has detected that a recommended Microsoft patch is not present on⇒
this machine. If you continue, the following error message might be⇒
displayed: "Error 1718. File was rejected by digital signature policy". To⇒
prevent any error messages during installation, please refer to Microsoft⇒
kbase article ID 925336.
```

See the information in this Microsoft web site: <http://support.microsoft.com/kb/925336>.

- If you see the following error message:

```
This patch only applies to BusinessObjects Enterprise XI 3.1. Setup will now⇒
exit.
```

Locate the setup.ini file in the directory where you downloaded the fix pack installation files. Open it in a text editor, and add "for PeopleSoft" as shown in the following examples:

*Original:*

```
[Bootstrap]
ProductName=BusinessObjects XI 3.0
Msi=package\BusinessObjects.msp
Transform=package\
TempFilePrefix=BOE_SP1FP6_Install_
CheckLargePackage=Yes
PatchForTargetMSI={5418F914-1D31-4849-822C-314AC28B06BF};12.1.0;Business⇒
Objects Enterprise XI 3.1
PatchDispName=FP1.6
```

*Modified:*

```
[Bootstrap]
ProductName=BusinessObjects XI 3.0
Msi=package\BusinessObjects.msp
Transform=package\
TempFilePrefix=BOE_SP1FP6_Install_
CheckLargePackage=Yes
PatchForTargetMSI={5418F914-1D31-4849-822C-314AC28B06BF};12.1.0;Business⇒
Objects Enterprise XI 3.1 for PeopleSoft
PatchDispName=FP1.6
```

3. Click Next on the Welcome window.
4. Click Next on the License Agreement window.
5. Enter the same CMS information that you entered during the SAP BusinessObjects Enterprise XI 3.1 installation:
  - *System*  
Enter the name of the computer on which you installed BusinessObjects Enterprise XI Release.
  - *CMS port*  
Enter the CMS port number you entered on the Server Components Configuration window when installing SAP BusinessObjects Enterprise XI 3.1.
  - *Password*  
Enter the password for the CMS Administrator account that you entered on the Server Components Configuration window.
6. Select Yes, automatically re-deploy the web applications.
7. If you created the web server on Oracle WebLogic, enter the same values that you entered during the SAP BusinessObjects Enterprise XI 3.1 installation for the following:
  - Port
  - Username
  - Password
  - Server instance
  - Application server domain root directory
8. If you created the web server on IBM WebSphere, enter the same web server information that you entered during the SAP BusinessObjects Enterprise XI 3.1 installation for the following:
  - SOAP port
  - Username
  - Password
  - Server Instance
  - Virtual host
  - Administrative security option
  - Application server installation directory
9. Click Next to begin the installation.

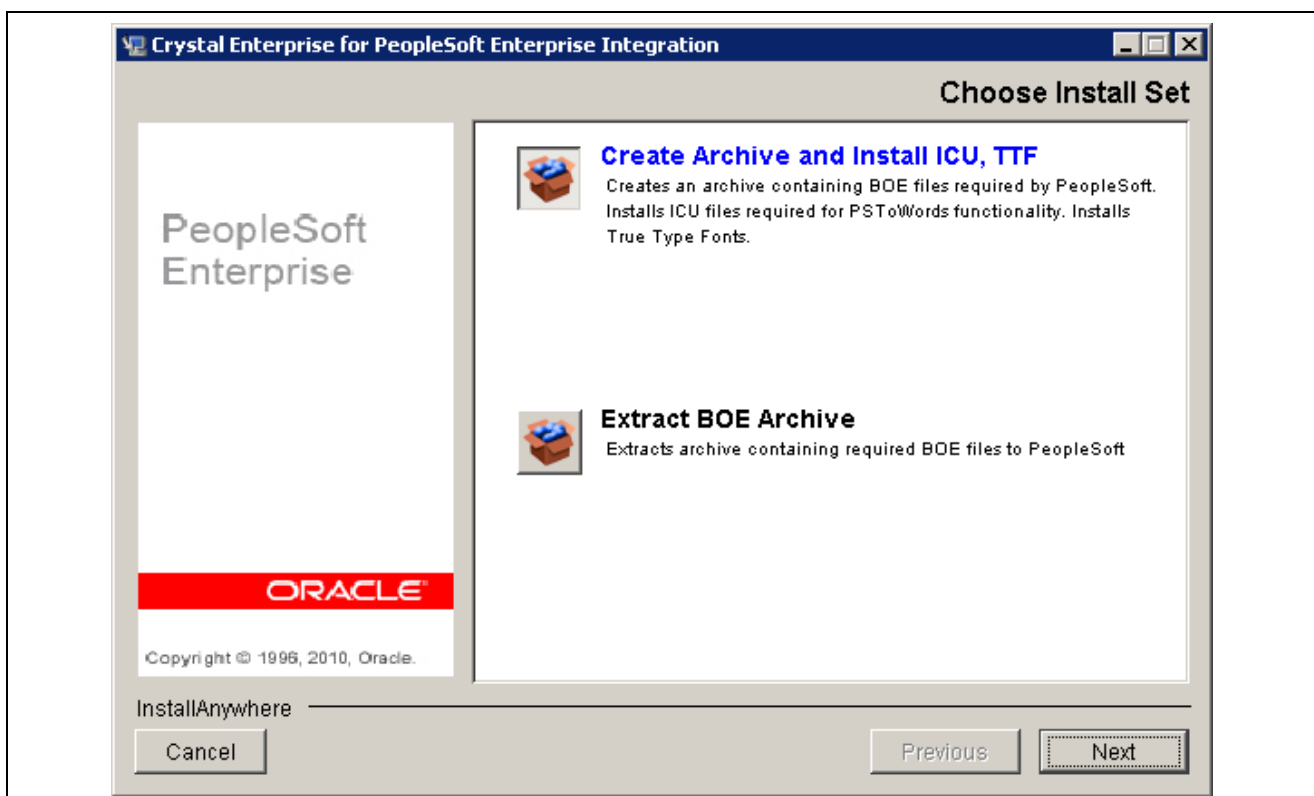
## Task 16-4-7: Creating the BusinessObjects Enterprise Archive and Installing Files on Windows

In this section you consolidate the files that are needed for the PeopleSoft to BusinessObjects Enterprise integration in an archive. Also, this procedure installs International Components for Unicode (ICU) files that are required for the PStoWords functionality that is used with Crystal reports.

See *PeopleTools: Crystal Reports for PeopleSoft*, "Understanding How to Work with Multiple Languages."

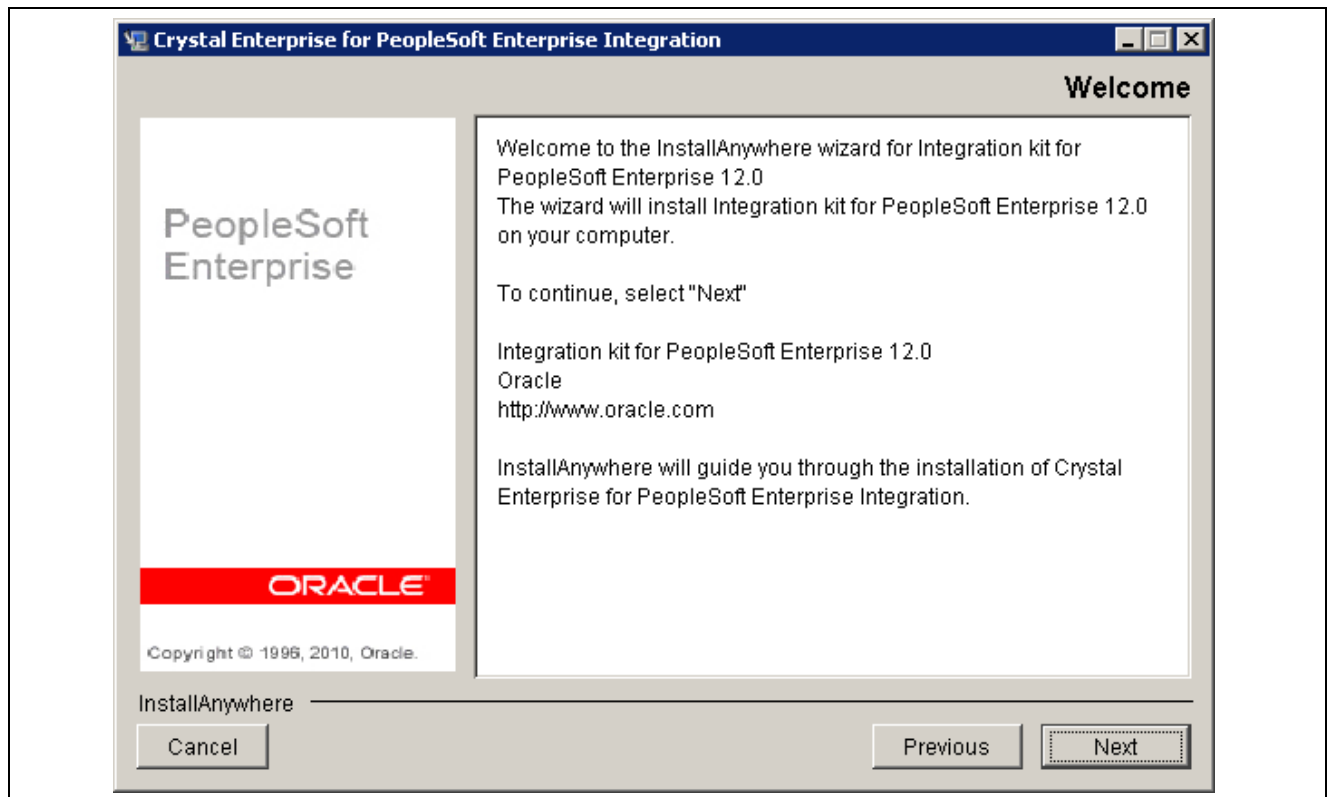
1. Go to *PS\_HOME\setup\PsMpCrystalInstall\Disk1* and run *setup.bat*.

2. Select the option Create Archive and Install ICU, TTF, and then click Next.



Crystal Enterprise for PeopleSoft Enterprise Integration Choose Install Set window

3. Click Next on the Welcome window.

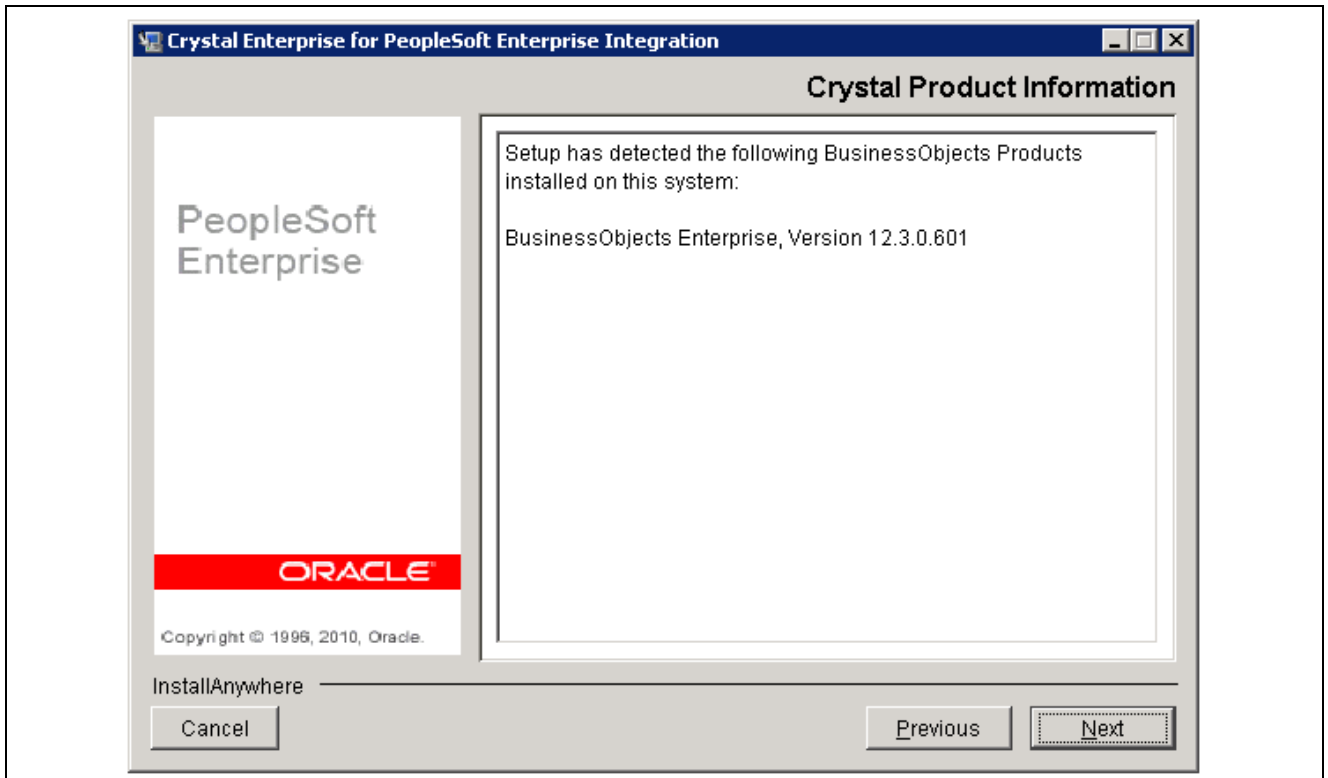


Crystal Enterprise for PeopleSoft Enterprise Integration Welcome window

4. Click Next on the Crystal Product window.

The installer checks your system for the correct version of BusinessObjects Enterprise and display the version details. In this example, Version 12.3.0.601.

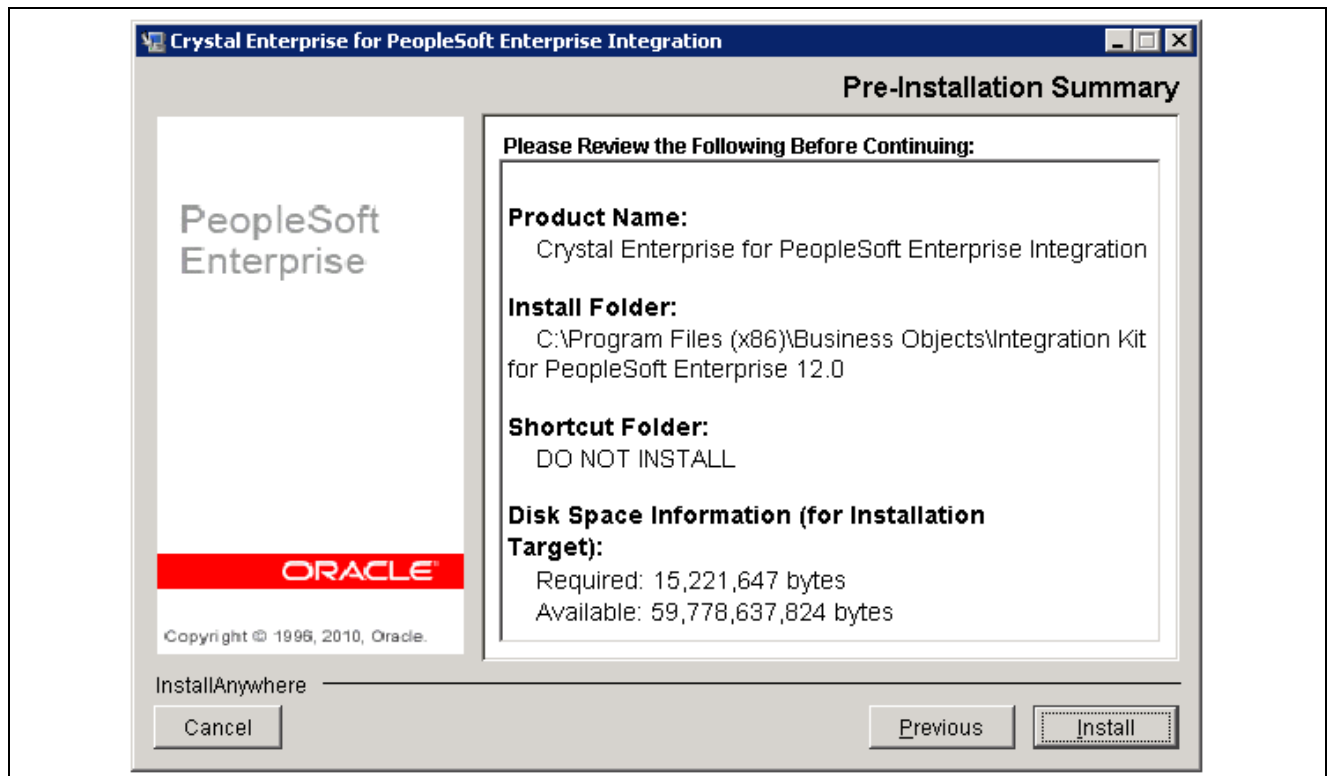




Crystal Enterprise for PeopleSoft Enterprise Integration Crystal Product Information window

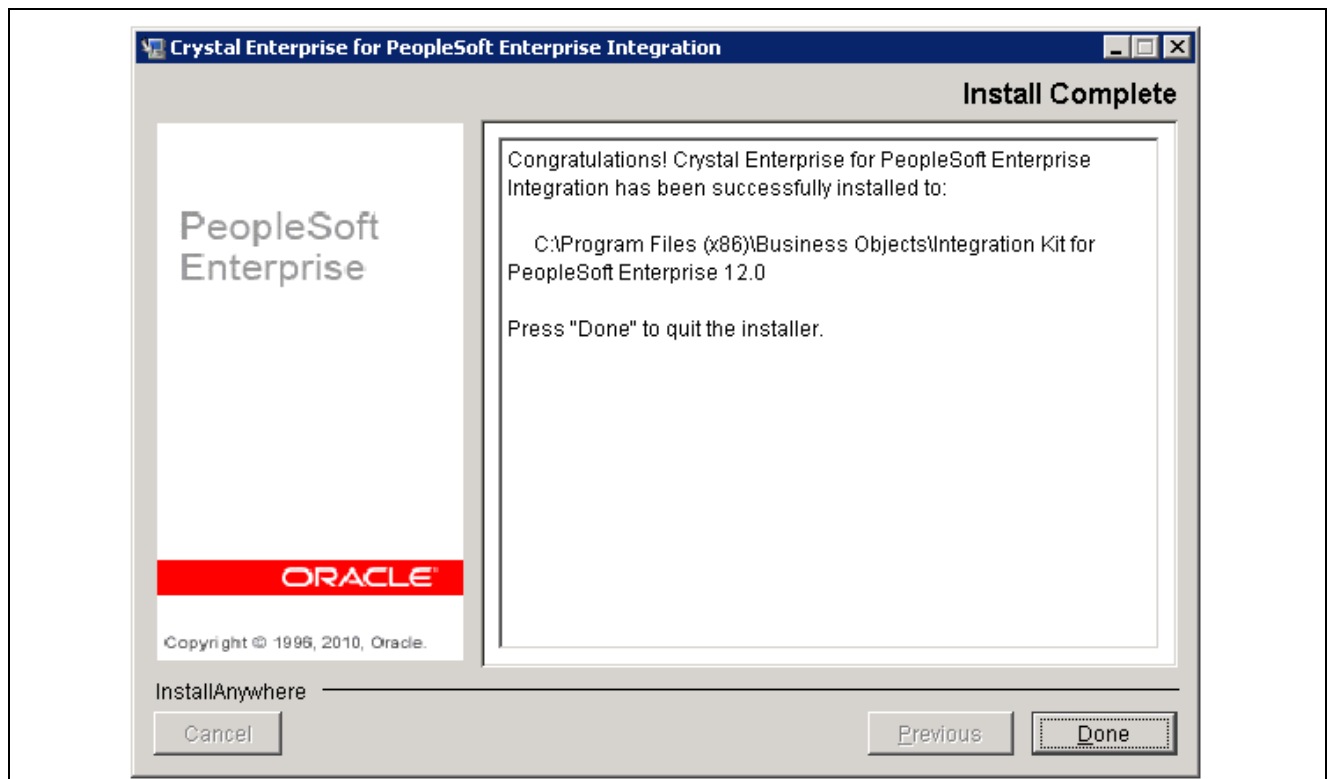
5. Review the installation summary, including the install folder and disk space information, and then click Install to begin the installation.

In this example the install folder is C:\Program Files (x86)\Business Objects\Integration Kit for PeopleSoft Enterprise 12.0.



Crystal Enterprise for PeopleSoft Enterprise Integration Pre-Installation Summary window

6. Click Done to finish the installation.



Crystal Enterprise for PeopleSoft Enterprise Integration Install Complete window

7. Restart all BusinessObjects Enterprise servers.

The archive is saved as boearchive.zip in *PS\_HOME*\PsMpCrystalInstall\Disk1\InstData.

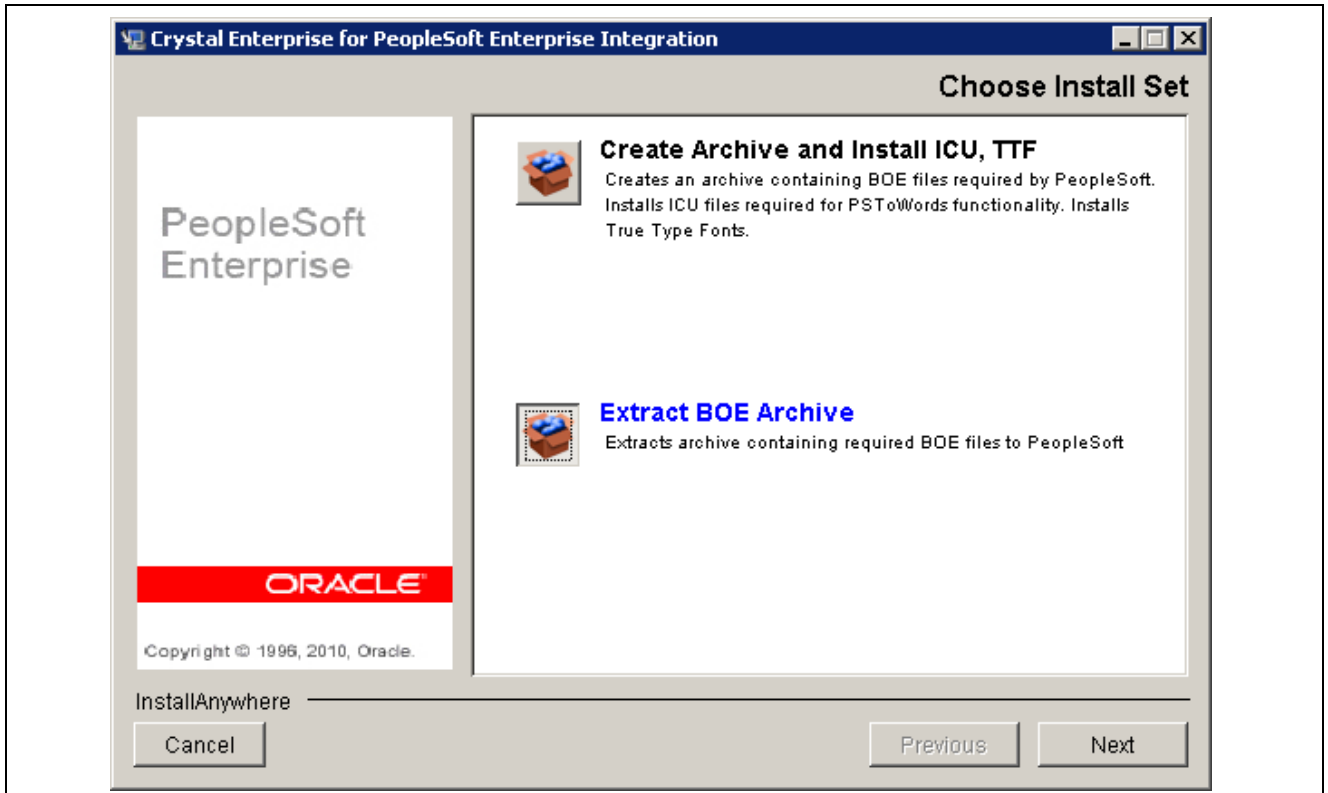
## Task 16-4-8: Extracting the Archive on Windows

After you create the boearchive.zip as described in the previous section, you must extract it to the following locations:

- *PS\_HOME* on the machine that is used for report conversion
- *PS\_HOME* on the Process Scheduler server
- *PIA\_HOME* on the machine used for viewing reports

To extract the archive:

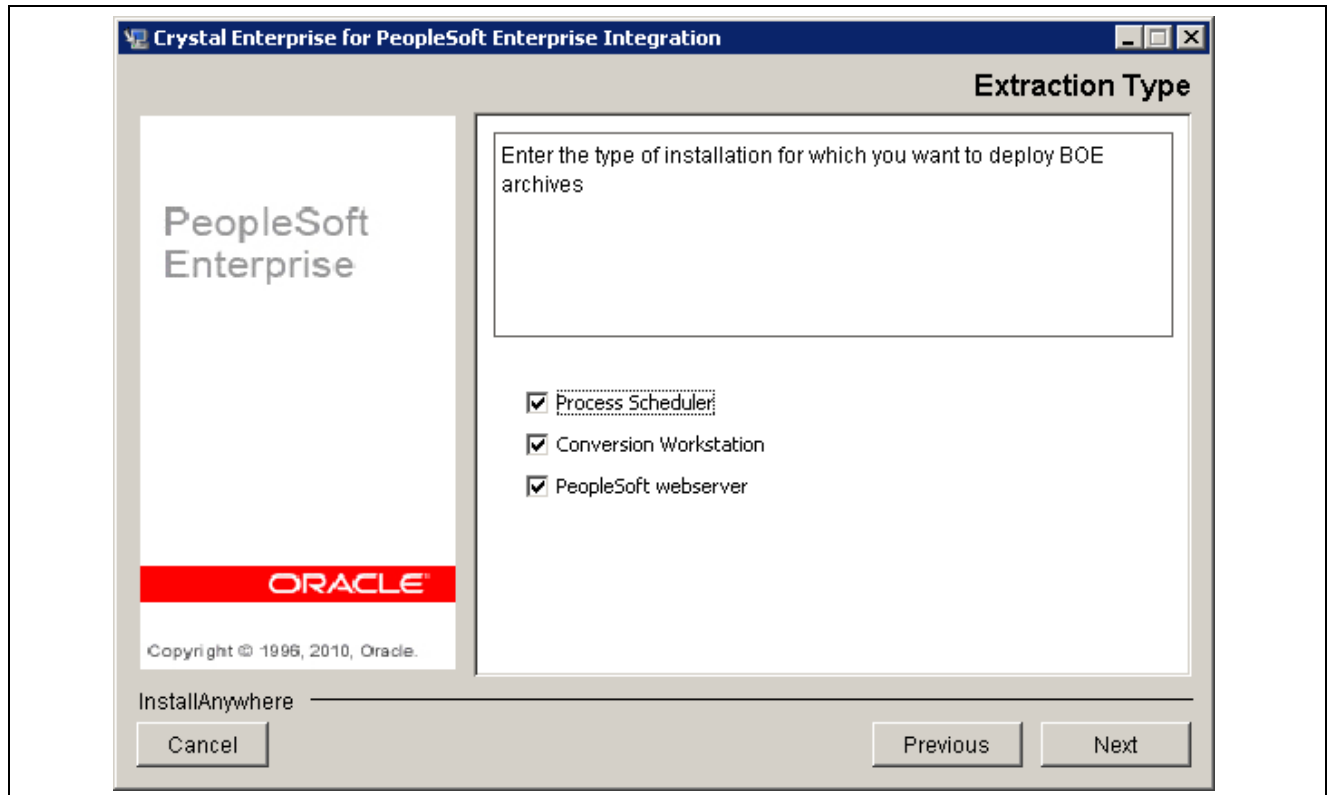
1. Copy boearchive.zip to PsMpCrystalInstall\Disk1\InstData under *PS\_HOME* or *PIA\_HOME*.
2. Go to *PS\_HOME*\PsMpCrystalInstall\Disk1 or *PIA\_HOME*\PsMpCrystalInstall\Disk1 and run setup.bat.
3. Select the option Extract BOE archive and then click Next.



Crystal Enterprise for PeopleSoft Enterprise Integration Choose Install Set window with extracting archive option

4. Select the types of installation you require and then click Next.

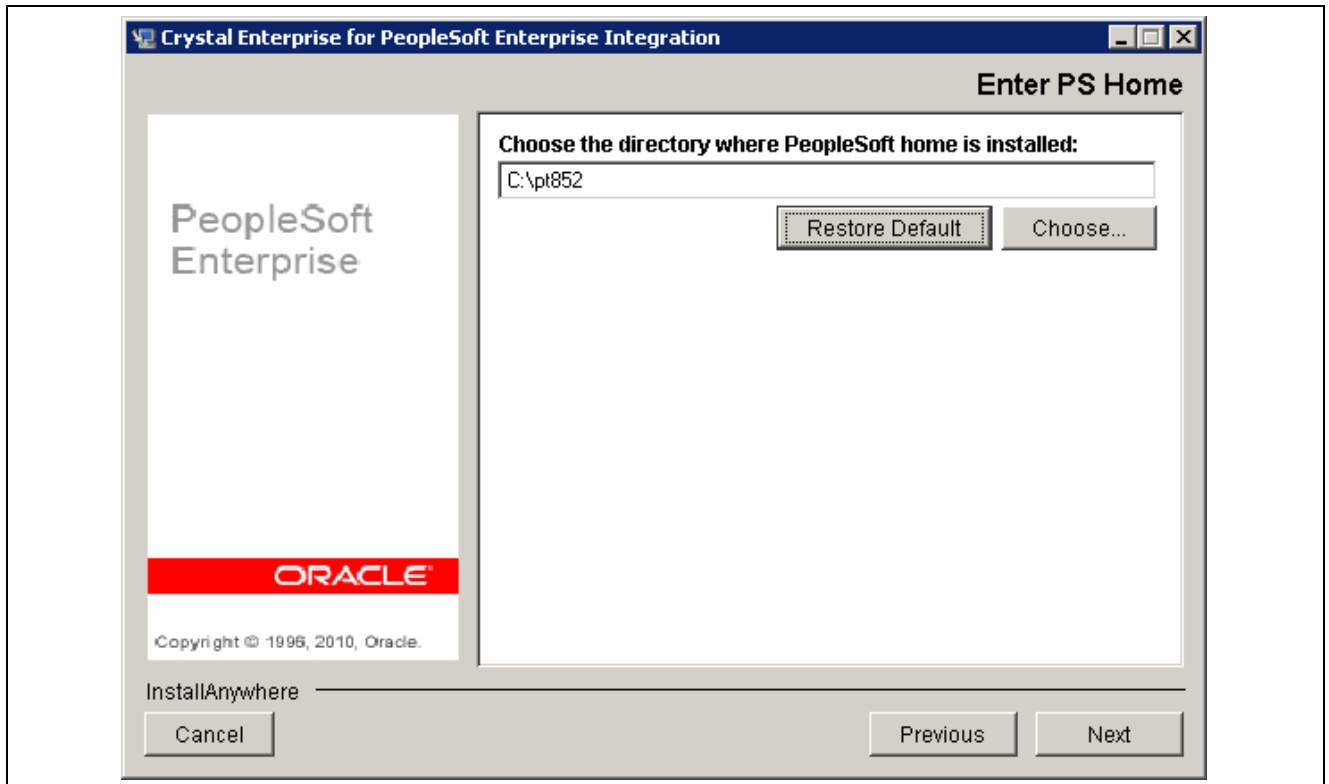
The options you choose depend upon your setup. You can select all three options, Process Scheduler, Conversion Workstation, and PeopleSoft webserver, if you have the Process Scheduler and web server set up on the same system, and also plan to use this system for the report conversion. If not, select only the options that you need and continue.



Crystal Enterprise for PeopleSoft Enterprise Integration Extraction Type window

5. If you selected Process Scheduler or Conversion Workstation, specify the location of *PS\_HOME*, and then click Next.

This example uses C:\pt852 for *PS\_HOME*.



Crystal Enterprise for PeopleSoft Enterprise Integration Enter PS Home window

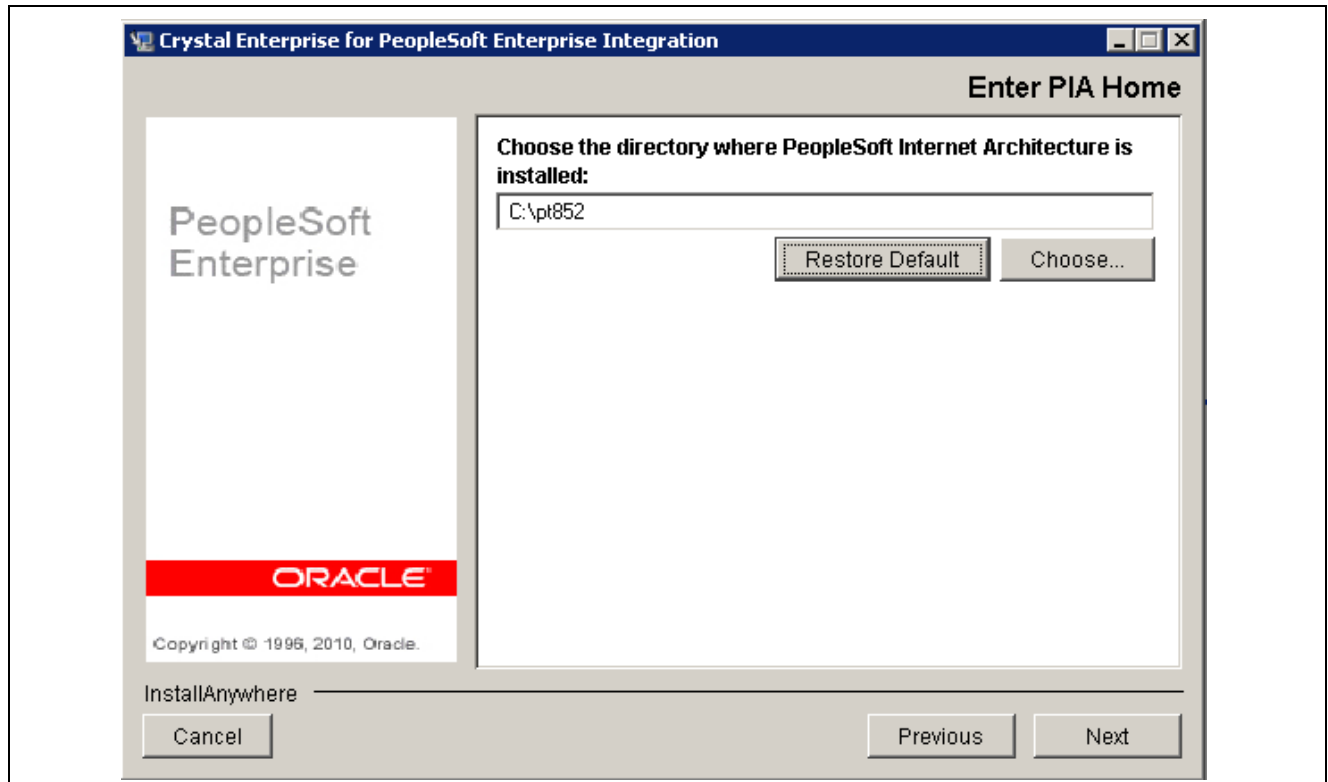
6. If you select PeopleSoft webserver, specify the location of *PIA\_HOME*, and then click Next.  
This example uses C:\pt852 for *PIA\_HOME*.

---

**Note.** Although in this example *PIA\_HOME* is the same as *PS\_HOME*, that is not a requirement. Your environment may be different.

See “Preparing for Installation,” Defining Installation Locations.

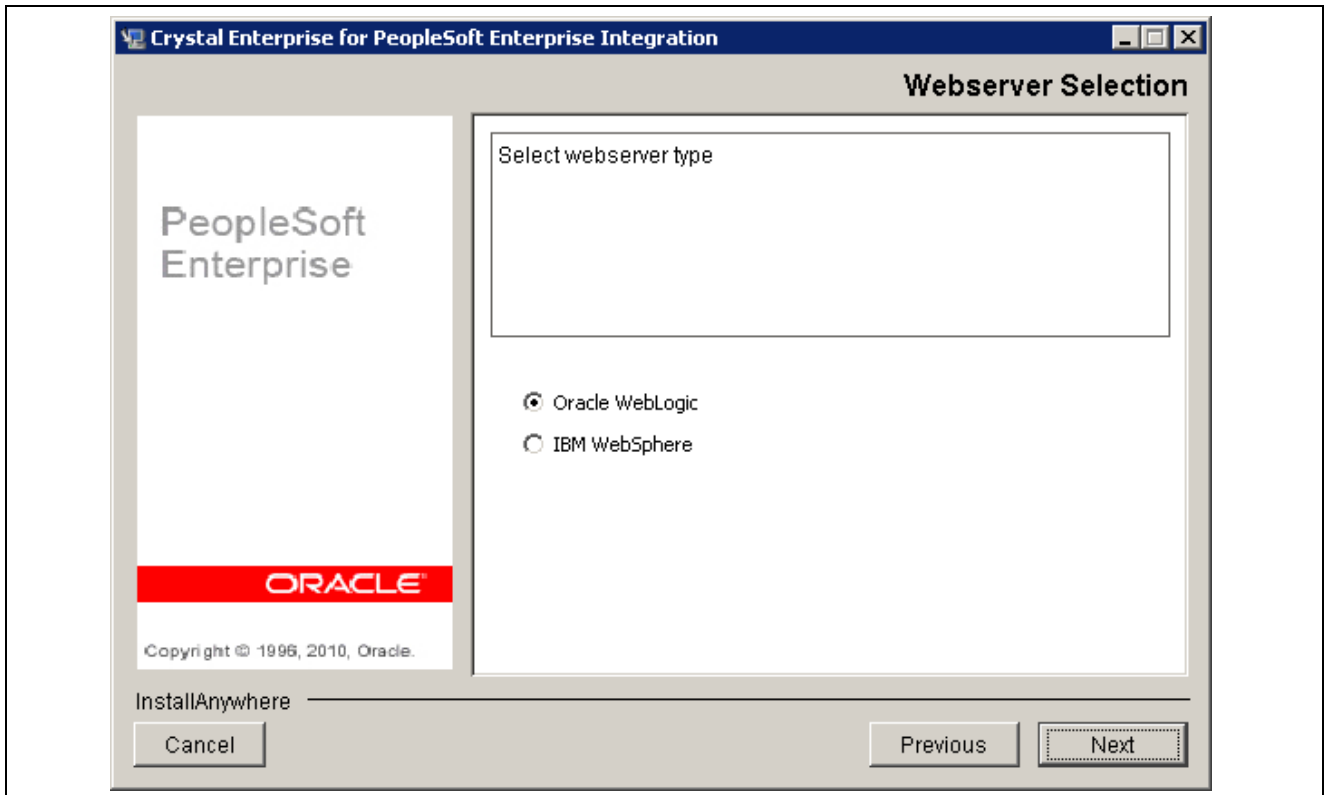
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Crystal Enterprise for PeopleSoft Enterprise Integration Enter PIA Home window

7. Select the option for the web server software installed on your system, Oracle WebLogic or IBM WebSphere, and then click Next.

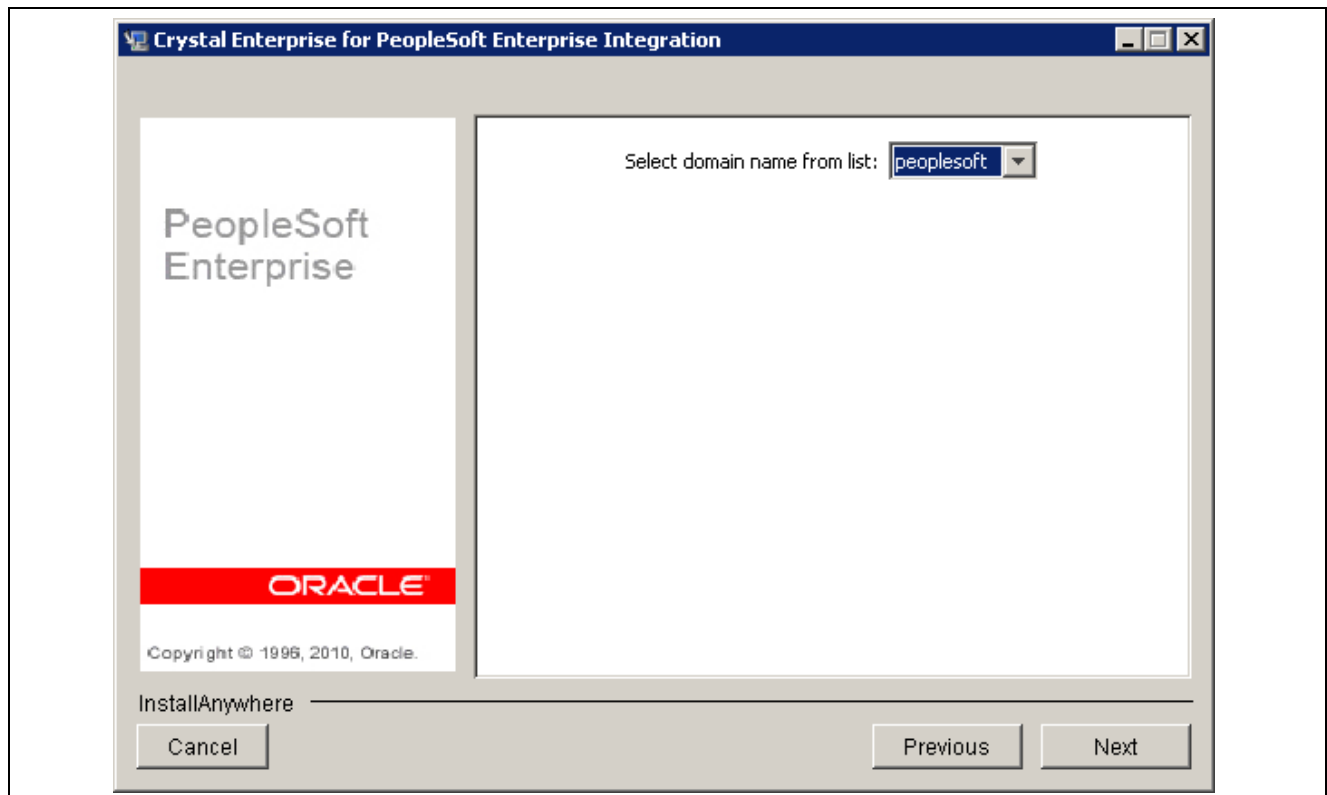
This example selects Oracle WebLogic:



Crystal Enterprise for PeopleSoft Enterprise Integration Webserver Selection window

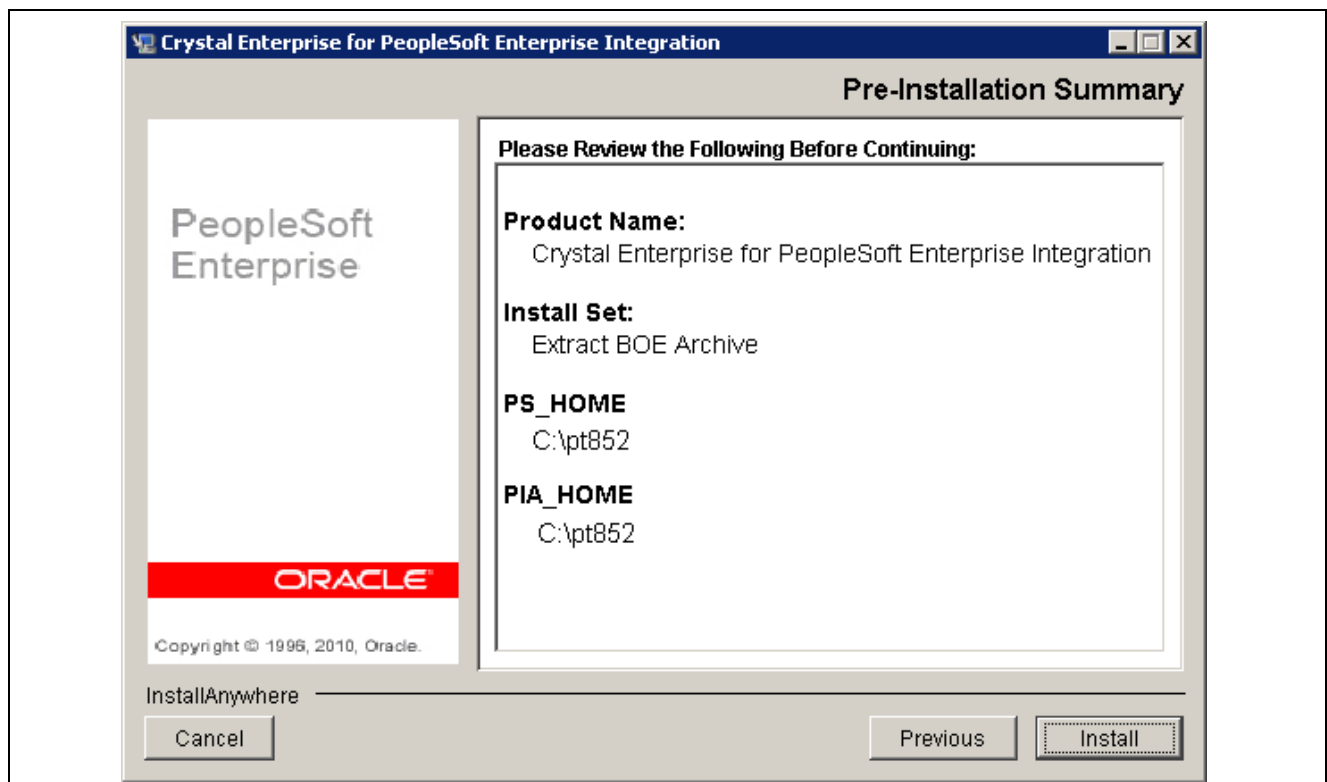
8. Select the domain name (for Oracle WebLogic) or application name (for IBM WebSphere) from the drop-down list and then click Next.

The default is peoplesoft for both web servers, as shown in this example.



Crystal Enterprise for PeopleSoft Enterprise Integration Selecting the domain name

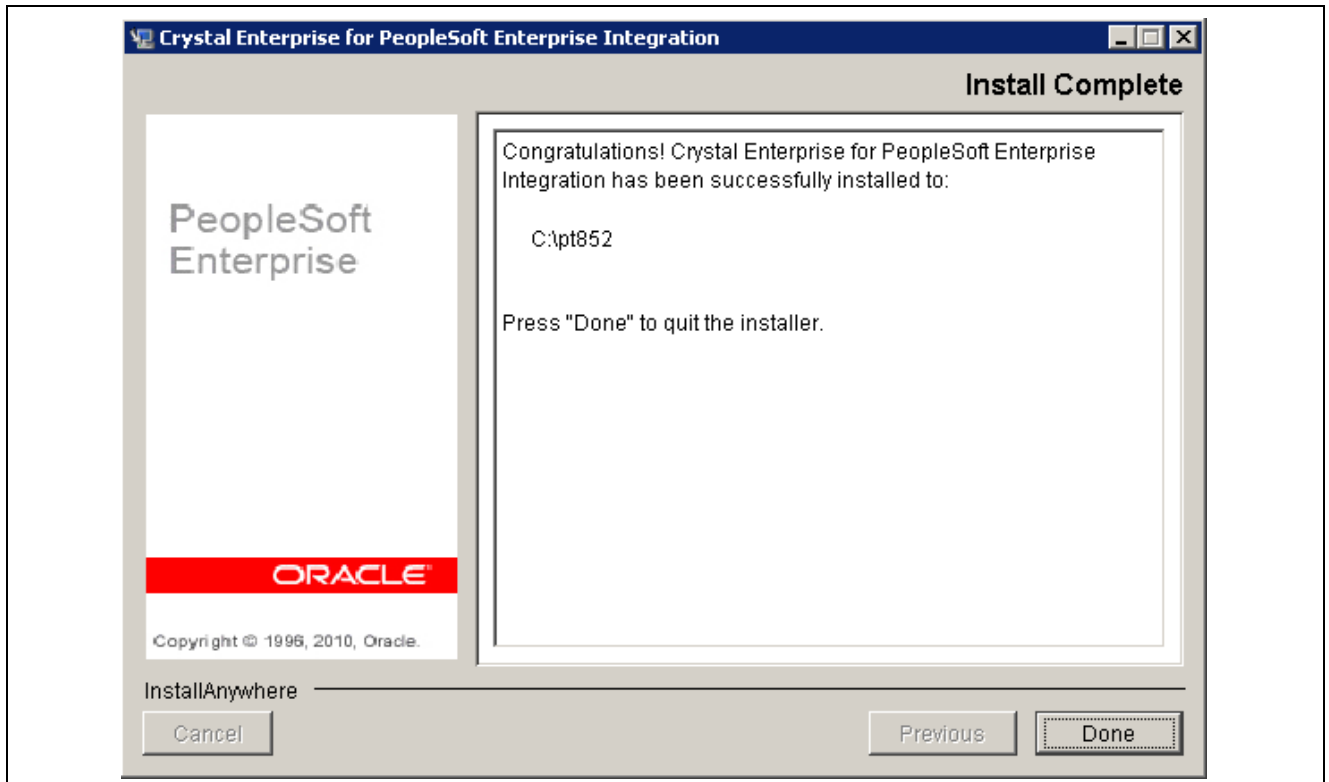
9. Review the summary information, which includes the *PS\_HOME* and *PIA\_HOME* values you entered, and click Install to begin the installation.



Crystal Enterprise for PeopleSoft Enterprise Integration Pre-Installation Summary window



10. Click Done to finish the installation.



Crystal Enterprise for PeopleSoft Enterprise Integration Install Complete window

11. If you installed on a web server, restart the web server.

## Task 16-4-9: Installing TrueType Fonts on Windows

To run certain reports you may need special fonts that do not normally come with SAP BusinessObjects Enterprise XI 3.1. The PeopleSoft system packages and installs two such TrueType fonts in its directory structure:

- MICR\_\_\_\_.ttf: MICR font for check printing
- B39R00.ttf: 3of9 barcode font

You can copy and install them on your machine where SAP BusinessObjects Enterprise XI 3.1 is installed to make them available to that application.

To install TrueType fonts on Microsoft Windows:

1. Copy the *PS\_HOME\FONTS\Truetype* folder to your SAP BusinessObjects Enterprise XI 3.1 machine (the *C:\Windows\Fonts* folder is a good place to copy it to).
2. Select Start, Settings, Control Panel.
3. Double-click the Fonts directory to display its contents.
4. Select File, Install New Font.
5. Locate the fonts you want to install:
  - In the Drives list, select the drive that contains the fonts you want to install.

- In the Folders list, select the folder that contains the fonts you want to install.

The fonts in the folder appear under List of Fonts.

6. Select the fonts to install.

To select more than one font, hold down the CTRL key and click each font.

7. To copy the fonts to the Fonts folder, make sure the Copy fonts to Fonts folder check box is selected
8. Click OK to install the fonts.

## Task 16-4-10: Creating a Web Server for SAP BusinessObjects Enterprise XI 3.1 on UNIX or Linux

This section discusses:

- Creating an Oracle WebLogic Server on UNIX or Linux
- Creating an IBM WebSphere Server on UNIX or Linux

### Creating an Oracle WebLogic Server on UNIX or Linux

Before beginning this procedure, you must have installed Oracle WebLogic on the server where SAP BusinessObjects Enterprise XI 3.1 is installed. You must use the same user account to install Oracle WebLogic and SAP BusinessObjects Enterprise XI 3.1.

To create a Oracle WebLogic server on UNIX:

1. Start the Configuration Wizard by running `config.sh` from the `WLS_HOME/weblogic100/common/bin` directory.
2. Select *1*, Create a new WebLogic configuration and press Enter.
3. Select *1*, Choose WebLogic Platform components and press Enter.
4. Accept the default template, WebLogic Server (Required).
5. Enter the Administrator user name and user password.  
The default values are *weblogic* and *password*. Press Enter.
6. At the Domain Mode Configuration prompt, choose *Development Mode* and press Enter.
7. Select the Java SDK that you installed and press Enter.
8. Accept all the default settings until you reach the Edit Domain Information prompt.
9. At the Edit Domain prompt replace `base_domain` with a meaningful domain name, like *BOEXI*, and press Enter.

The web server has been created at the default port 7001.

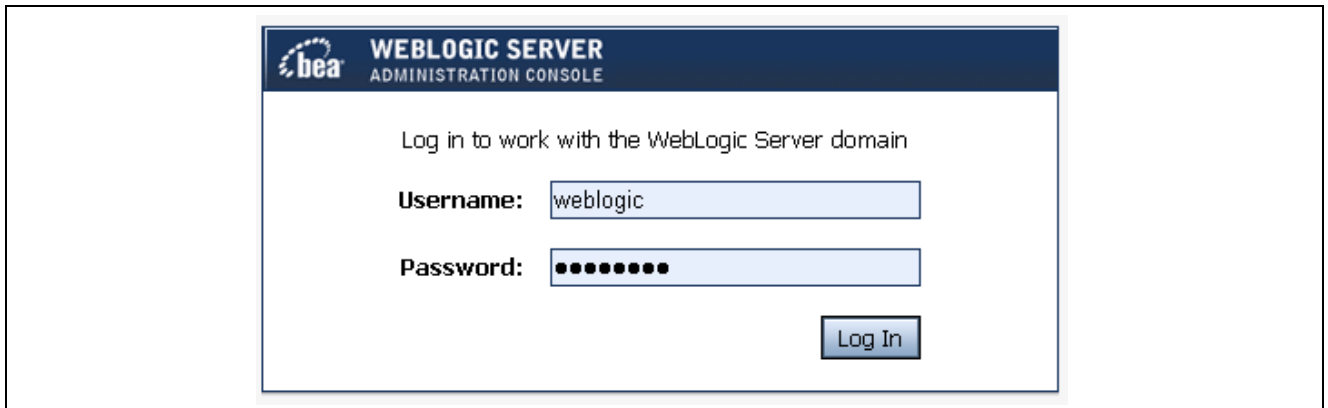
10. If you want to use a port other than the default port of 7001, follow the steps below.

This may be useful if you want to run both a PeopleSoft Pure Internet Architecture web server and the SAP BusinessObjects Enterprise XI 3.1 web server on the same machine.

- a. Edit the file: `<WLS_HOME>/user_projects/domains/<domain_name>/config.xml`.
- b. Find the text 7001 and replace it with the port number you want.
- c. Save the config.xml file and exit.

`WLS_port` will be used to refer to the port number that you are now using. Substitute your specific port number as needed in the following steps.

11. Start the web server by running `startWebLogic.sh` from `<WLS_HOME>/user_projects/domains/<domain_name>`.  
Wait until a message containing “listening on port `<WLS_port>`” appears. The web server is now started.
12. Enter the following URL in a browser to confirm that you are able to log in to the web server:  
`http://<machine_name>:<WLS_port>/console`
13. At the login page, enter the user name and password for the Oracle WebLogic administrator that you entered during the Oracle WebLogic installation.  
For example, `weblogic/password`. Then click the Sign In button. If you are able to log in then it verifies that your Oracle WebLogic Server is set up correctly.



Oracle WebLogic Server Administration Console Log In window

If you are running on AIX and the web server is Oracle WebLogic, you must increase the value of the "ulimit" open file descriptor before beginning the installation.

A deployment to an Oracle WebLogic 10.3 system running on AIX with Sun JDK 1.6 or IBM JDK 1.6 (32 or 64-bit) may fail with the error message:

```
java.util.zip.ZipException: error in opening zip file (too many files open).
```

To avoid this issue, increase the default value of the "ulimit" open file descriptor limit from 1024 to 4096. This can be done by modifying the file `WLS_HOME/weblogic103/common/bin/commEnv.sh` to look like the example shown below:

```
maxfiles='ulimit -H -n`
if ["$?" = "0" -a `expr ${maxfiles} : '[0-9][0-9]*$`
-
eq 0]; then
ulimit -n 4096
```

After making this change, restart your Oracle WebLogic web server.

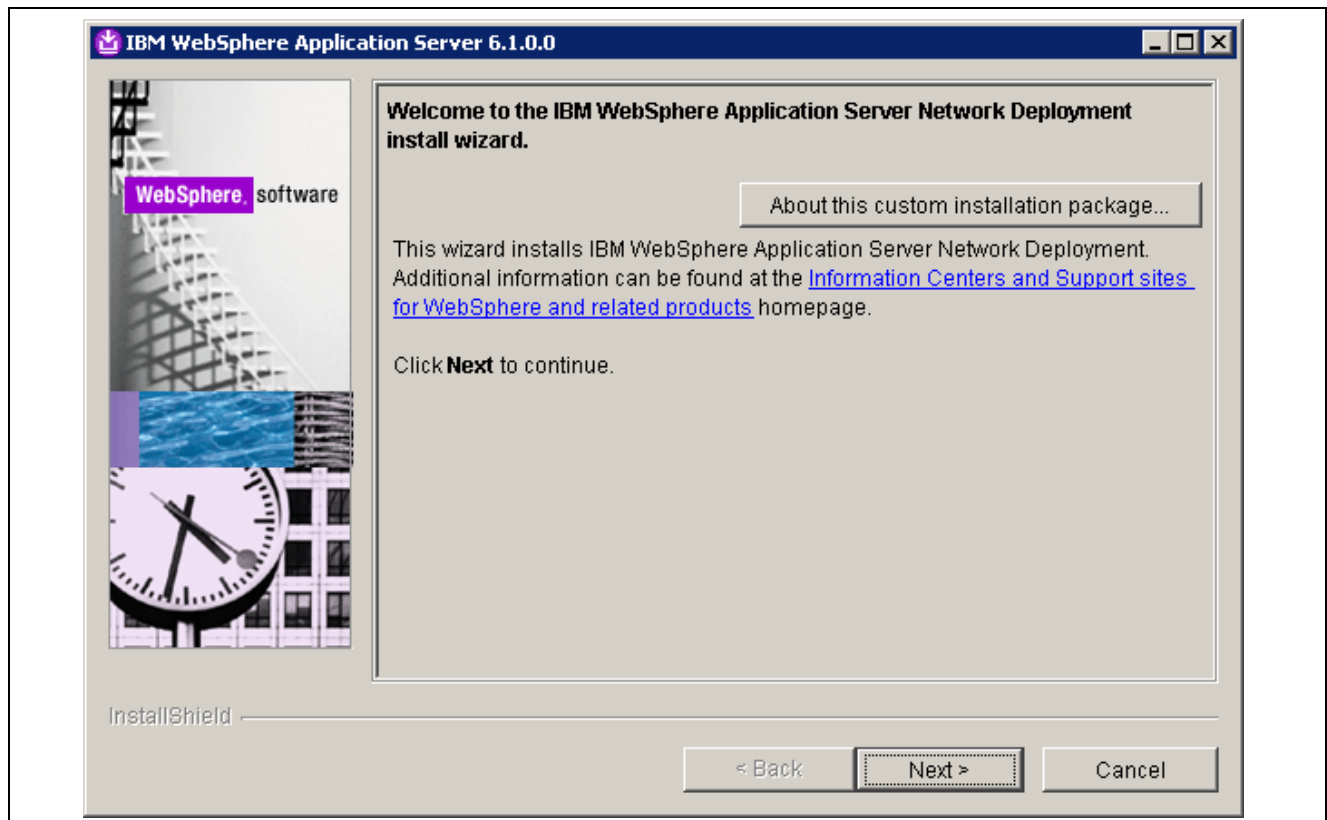
## Creating an IBM WebSphere Server on UNIX or Linux

Before beginning this procedure, you must have installed IBM WebSphere on the server where SAP BusinessObjects Enterprise XI 3.1 is installed. You must use the same user account to install IBM WebSphere and SAP BusinessObjects Enterprise XI 3.1.

To install on UNIX or Linux you must have a X-Windows terminal emulation program such as Xmanager, Cygwin and so on.

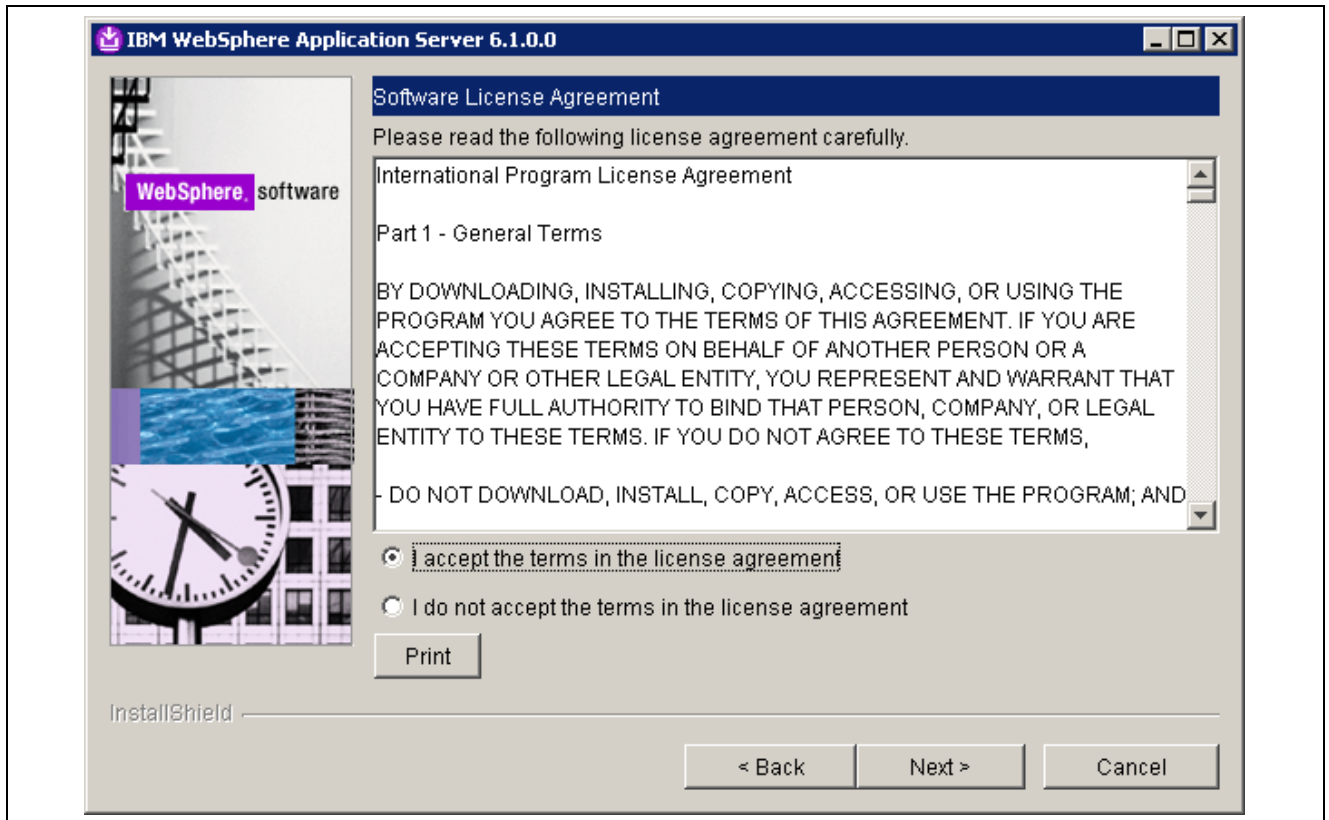
1. Run `installWAS.sh` from the WebSphere installation.

A welcome window appears.



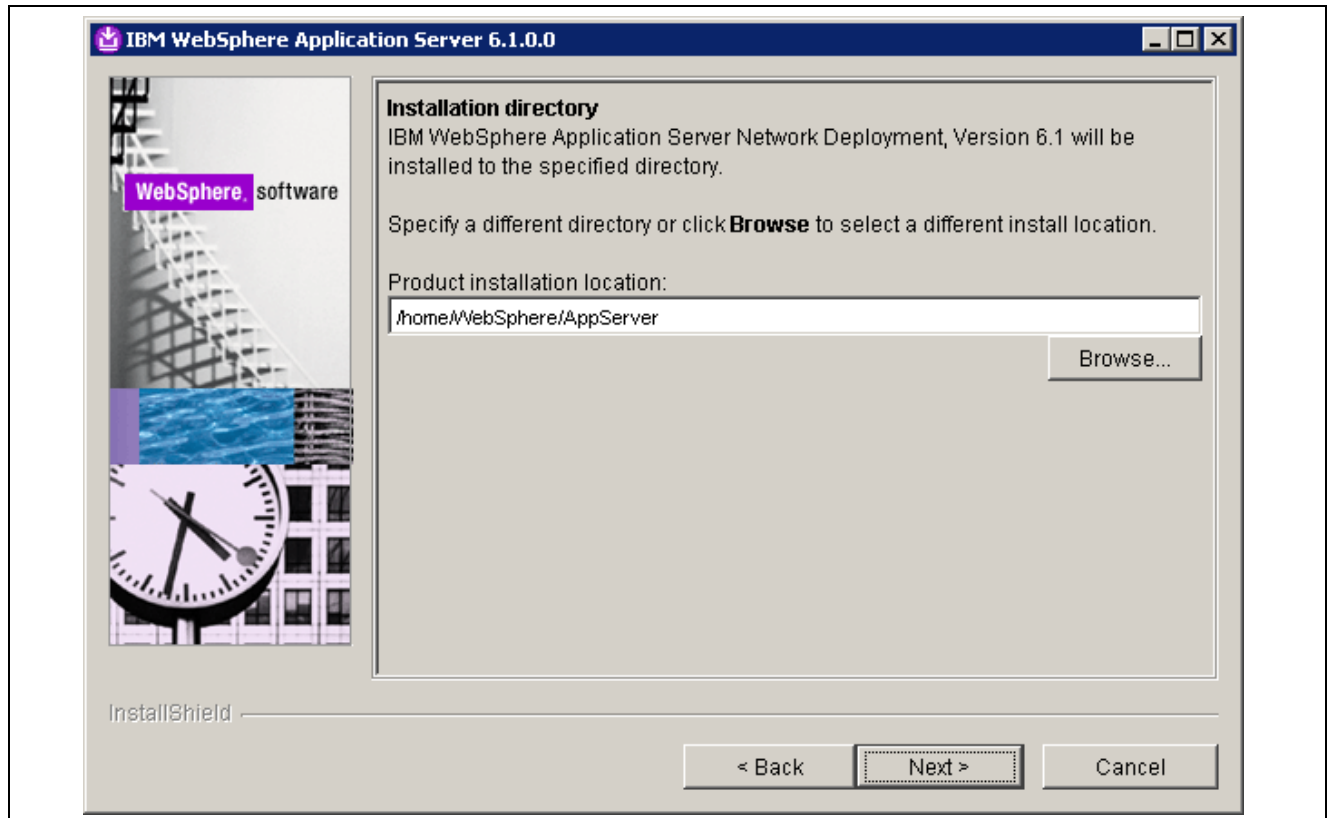
IBM WebSphere Application Server welcome window

2. Click Next.
3. Accept the license agreement and click Next.



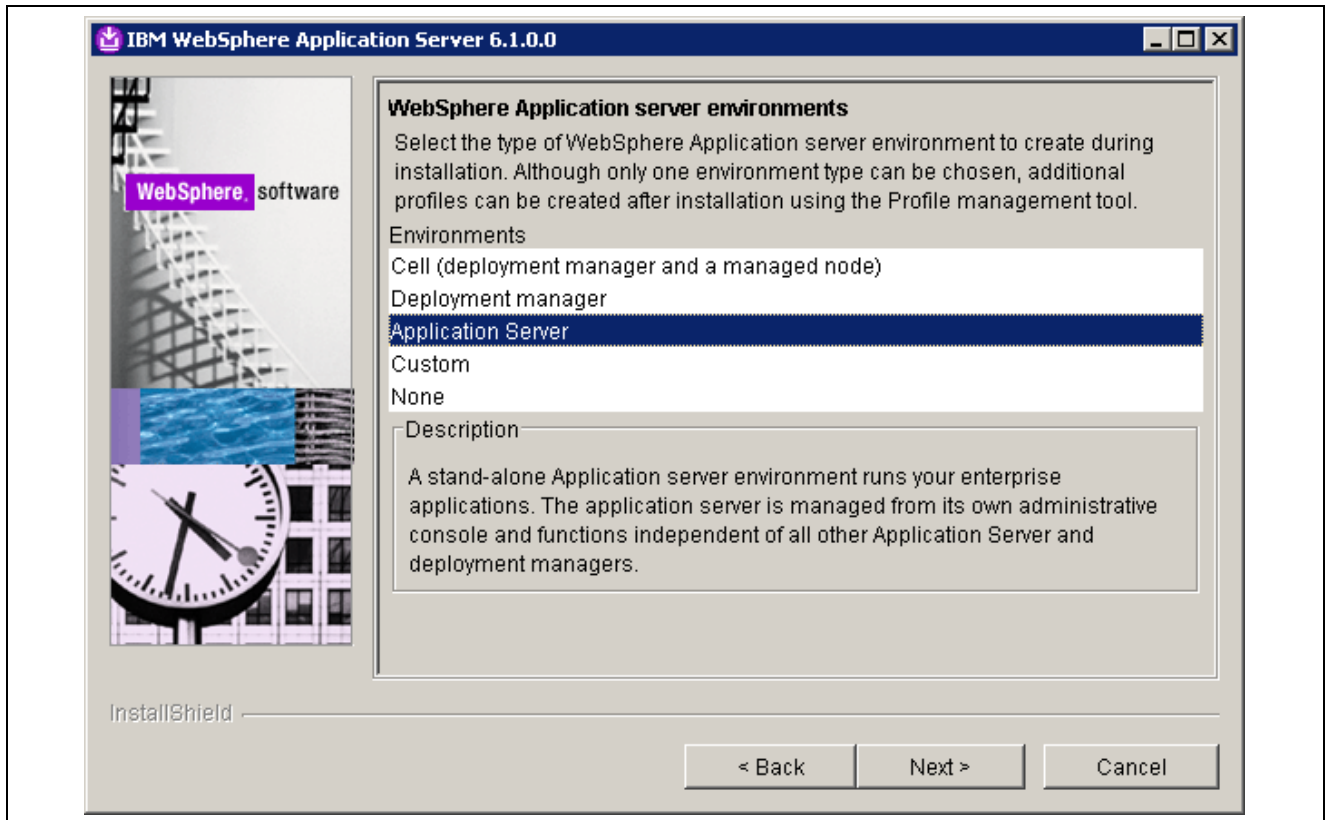
IBM WebSphere Application Server License Agreement window

4. Select an installation location, referred to as *WAS\_HOME* in this documentation, and click Next.



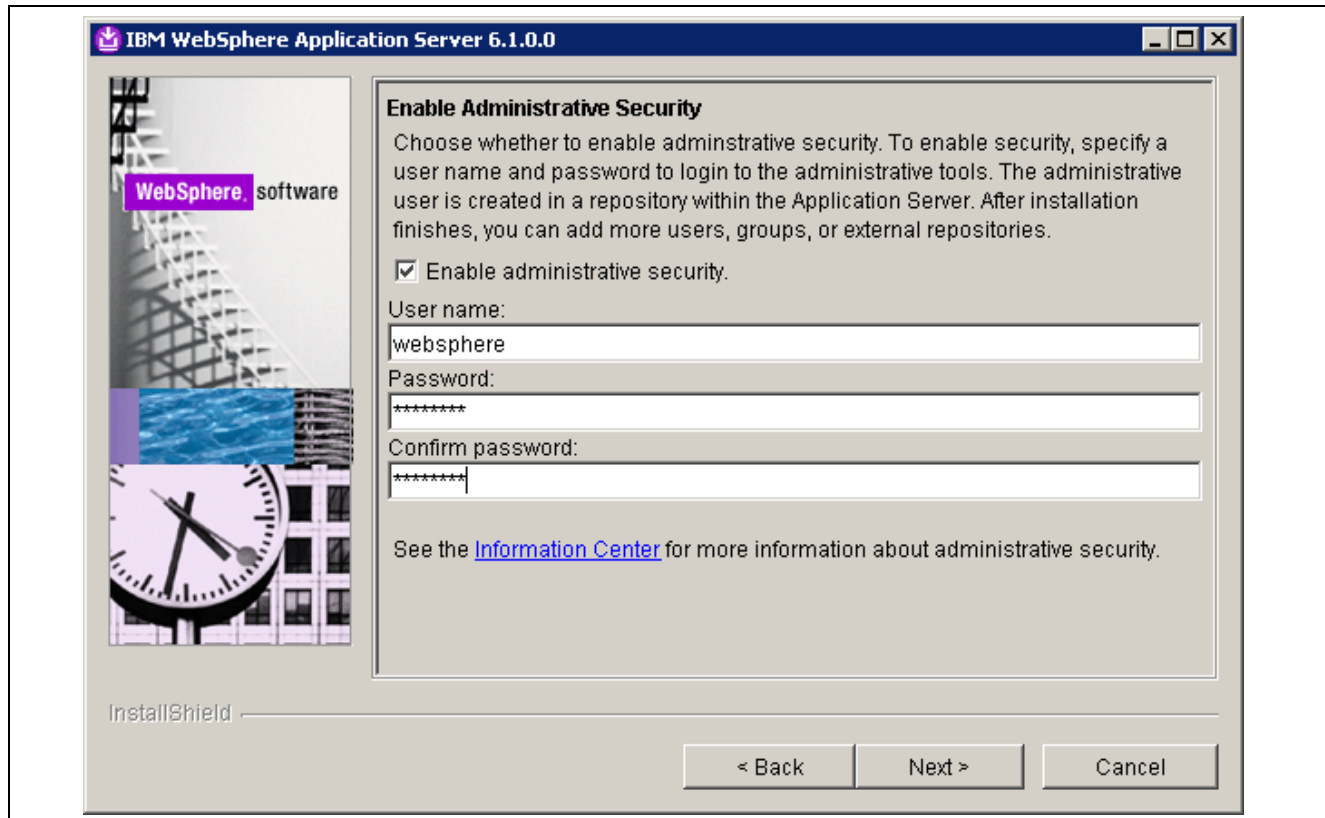
IBM WebSphere Application Server Installation directory window

5. On the WebSphere Application server environment window, select *Application Server* from the list of environments.



IBM WebSphere Application Server environments window

6. Accept the default profile and click Next.
7. Provide the Administrator user (websphere) and password (password).  
Select the Enable Administrative Security option.



IBM WebSphere Enable Administrative Security window

8. Click Next to begin the installation.
9. To start the server after the installation is complete, enter the following command, where `<WAS_HOME>` is the installation location you specified above; `<profile_name>` is the default profile, AppSrv01; `<admin_userid>` is the WebSphere Administrator user name, and `<admin_password>` is the password for the WebSphere Administrator:

```
<WAS_HOME>/profiles/<profile_name>/bin/startServer.sh server1 -username <admin_⇒
userid> -password <admin_password>
```

For example:

```
/home/WebSphere/AppServer/profiles/AppSrv01/bin/startServer.sh server1 -⇒
username websphere -password password
```

## Task 16-4-11: Installing SAP BusinessObjects Enterprise XI 3.1 on UNIX or Linux

To install SAP BusinessObjects Enterprise XI 3.1 on UNIX or Linux do the following:

---

**Note.** You can perform this installation from the server console or with X Windows terminal emulation software such as Cygwin. Telnet and ssh clients, such as Putty, will not allow you to install the software properly.

---

1. Go to the `BOE_INSTALL` directory and run `./install.sh`.



---

**Note.** If the installation files have been extracted from a \*.ZIP file, the files will not have execute permission set and you will get the error “Cannot execute [Permission denied]”. To avoid this, set the execute permission using the following command: `chmod -R 755 BOE_INSTALL`

---

2. Select a language in which to carry out the installation and press Enter.
3. Read the SAP BusinessObjects Enterprise License Agreement.  
Type *Y* to agree to the terms and continue with the setup program.
4. At the Enter Product Keycode prompt, enter your 26-character Product Keycode.
5. At the Installation Directory prompt, enter your own path for the installation directory, or press Enter to accept the default one, which is your current directory.
6. At the Choose Language Pack prompt, select the languages that you want to install.  
English is the default. Select any additional language packs that you want to install.
7. Choose User Install at the Install Option prompt.
8. At the Installation Type prompt, select New Installation.  
Verify that the Enable Servers after Installation option is selected. Press Enter.
9. Choose whether to re-initialize the database that you supplied to the SAP Business Objects Enterprise installation, as recommended.

---

**Note.** Re-initializing will erase all previous content in the database.

---

10. At the Enter the information for your new CMS prompt, type the CMS port number (default 6400).
11. Type the same password under Administrator Password and Confirm Password and press Enter.
12. Select Use an existing database and press Enter.
13. Choose the type of database (Oracle, DB2 or Sybase) from the list and press Enter.

Provide all the required information for the database. The table below summarizes all the information required for each database type:

| Database Platform          | Required Information                                                                                                                                                         |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DB2 LUW                    | <ul style="list-style-type: none"> <li>• Server: DB2 LUW database alias</li> <li>• User name for login</li> <li>• Password for login</li> </ul>                              |
| Microsoft SQL Sever (ODBC) | ODBC DSN<br><br>This is specified in the Microsoft Windows Data Sources (ODBC) dialog box. Select Start, Programs, Control Panel, Administrative Tools, Data Sources (ODBC). |
| MySQL                      | MySQL is not supported in the integration of PeopleSoft with Business.                                                                                                       |

| Database Platform | Required Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Oracle            | <ul style="list-style-type: none"> <li>• Server: tnsnames connect identifier</li> <li>• User name for login</li> <li>• Password for login</li> </ul>                                                                                                                                                                                                                                                                                                                                     |
| Sybase            | <ul style="list-style-type: none"> <li>• Server: Sybase Server Name</li> </ul> <p>The Sybase server name is a combination of the host name and the port number which is set by your database administrator in the file sql.ini.</p> <ul style="list-style-type: none"> <li>• User name for login</li> </ul> <p>The user name should be a default user for the SAP BusinessObjects Enterprise XI 3.1 database.</p> <ul style="list-style-type: none"> <li>• Password for login</li> </ul> |

14. At the prompt that asks for auditing database details, select the option Do not install auditing database.
15. At the Enter Server Intelligence Agent (SIA) information prompt, type a name in the Server Intelligence Agent Node field.

Do not use spaces or non-alphanumeric characters in a SIA node name.

16. Type a valid port number under Server Intelligence Agent Port (default 6410).
17. Select Use an existing Java application server, deploy web applications, and press Enter.
18. Select your web server, Oracle WebLogic or IBM WebSphere.
19. If you selected Oracle WebLogic, provide the following information:
  - *Admin port*  
Enter the application port of the web application server.
  - *Admin login*  
Enter the name for the user with administration rights to the web application server.
  - *Admin Password*  
Enter the password for the administrator user account.
  - *Instance to install to*  
Enter the name for the current web application server instance; the default is AdminServer.
  - *Application server Domain Root directory*  
Enter the root directory for the web server domain.

20. If you selected IBM WebSphere, provide the following information:

- *SOAP port*  
The SOAP Connector Port of the application server; for example, 8880.
- *Admin login*  
The user name with administration rights to the WebSphere application server.
- *Admin password*  
The password for the account with administration rights to the application server.

- *Instance to install to*

The name of the current web application server instance. The default is server1.

- *Application server Install directory*

The directory where the web application server is installed, for example, /opt/websphere/appserver.

21. Press Enter to begin the installation.

The installation program validates your system and installs SAP BusinessObjects Enterprise XI 3.1 in the specified directory. When the new installation is finished, the setup program starts the servers as daemons and then enables each server that is registered with the CMS.

If you are running on AIX, and your webserver is IBM WebSphere, you must complete an additional step. Use the option `deployall` as described in the section Deploying Manually with Wdeploy Tool to deploy all war files manually. After completing the manual deployment, continue with the installation.

See Administering and Using SAP BusinessObjects Enterprise XI 3.1, Deploying Manually with Wdeploy Tool.

If your web server software is Oracle WebLogic 10.3, see the section on deploying web applications manually later in this chapter.

See Administering and Using SAP BusinessObjects Enterprise XI 3.1, Deploying Manually on Oracle WebLogic 10.3.

## Task 16-4-12: Installing BusinessObjects Integration Kit for PeopleSoft on UNIX or Linux

Before beginning this procedure, ensure that:

- The CMS is running.
- You know the credentials for the BusinessObjects Enterprise Administrator account. You will be prompted for the Administrator user name and password on the CMS machine.
- You have downloaded the installation files for the BusinessObjects Enterprise XI 3.1 Integration Kit for PeopleSoft from Oracle Software Delivery Cloud and extracted them into a convenient directory, referred to here as *BOE\_INTEG\_INSTALL*.

Carry out this procedure on the machine where SAP BusinessObjects Enterprise XI 3.1 is installed.

To install the integration kit:

1. Run *BOE\_INTEG\_INSTALL/install.sh*.
2. Select the language in which you want to perform the installation.

---

**Note.** Use the arrow keys on your keyboard to make your selection. Use the U and D keys to scroll up and down. Press ENTER to continue.

---

3. Read the license agreement and press *Y* to accept it.
4. Specify the directory where SAP BusinessObjects Enterprise XI 3.1 is installed, referred to in this documentation as *BOE\_HOME*.

The integration files are installed in the peoplesoft sub-directory in the location that you specify.

For example, if *BOE\_HOME* is /home/user/install/bobje, the integration files are saved in /home/user/install/bobje/peoplesoft.

5. Select the language packs you want to install.

Use the arrow keys and the space bar to choose the language packs you want, and then press ENTER.

6. Select *1 - PeopleTools 8.46-8.49 environment* and press ENTER.

---

**Note.** This option is correct for PeopleSoft PeopleTools 8.50 and higher as well as for PeopleTools 8.46-8.49.

---

7. Specify the following information for the Central Management Server and press ENTER.

- *System*

Enter the name of the computer on which you installed SAP BusinessObjects Enterprise XI 3.1.

- *Port*

Enter the CMS port number that you entered when installing SAP BusinessObjects Enterprise XI 3.1.

- *Password*

Enter the password for the CMS Administrator account that you entered when installing SAP BusinessObjects Enterprise XI 3.1.

8. At the prompt for autodeploy web applications, make the following selection depending upon your web server:

- If your web server is Oracle WebLogic, enter *1*, Automatically deploy the web application.

- If your web server is IBM WebSphere, enter *2*, Manually deploy the web application.

Skip the next step, which is for Oracle WebLogic. The instructions for manual deployment for IBM WebSphere are given in a later section.

See Administering and Using SAP BusinessObjects Enterprise XI 3.1, Deploying Manually Through IBM WebSphere Console.

9. If you installed on Oracle WebLogic, enter the same values for the web application server that you entered when you installed SAP BusinessObjects Enterprise XI 3.1:

- Admin port
- Admin login
- Admin password
- Instance to install to
- Application server Domain Root directory

10. Press ENTER to begin the installation.

If you are *running on AIX, and your webserver is IBM WebSphere*, you must complete an additional step to deploy the war files manually. After completing the manual deployment, continue with the installation.

Use the instructions in the section Deploying Manually with Wdeploy Tool to undeploy and deploy the war files in the following order:

1. undeploy InfoViewApp
2. deploy InfoViewApp
3. undeploy CmcApp
4. deploy CmcApp

5. undeploy OpenDocument
6. deploy OpenDocument
7. deploy PartnerPlatformService
8. deploy bobjpsenterprise

See Administering and Using SAP BusinessObjects Enterprise XI 3.1, Deploying Manually with Wdeploy Tool.

## Task 16-4-13: Installing Fix Packs or Service Packs on UNIX or Linux

After completing the full installation of SAP BusinessObjects Enterprise XI 3.1 and the BusinessObjects Integration Kit for PeopleSoft, you must install the appropriate additional fix pack or service pack for each. Consult the certification information on My Oracle Support for the patch level required for your installation.

See "Operating System, RDBMS & Additional Component Patches Required for Installation PeopleTools 8.53," My Oracle Support, (search for article name).

Use these instructions to apply each fix pack:

1. Go to the local directory where you downloaded and extracted the fix pack.
2. Launch the installation by running the following command, where BOE\_HOME is the directory where you installed SAP BusinessObjects Enterprise XI 3.1:
 

```
./install.sh BOE_HOME
```
3. Enter y in response to the License Agreement prompt.
4. Enter the values for the CMS port and password that you entered during the SAP BusinessObjects Enterprise XI 3.1 installation.
5. If your web server is Oracle WebLogic, select Yes, automatically re-deploy the web applications.
6. If your web server is IBM WebSphere, select No, I will manually deploy the web application.
7. If you created the web server on Oracle WebLogic, enter the same values that you entered during the SAP BusinessObjects Enterprise XI 3.1 installation for the following:
  - Admin port
  - Admin login
  - Admin password
  - Instance to install to
  - Application server Domain Root directory
8. If you created the web server on IBM WebSphere, enter the same web server information that you entered during the SAP BusinessObjects Enterprise XI 3.1 installation for the following:
  - SOAP port
  - Admin login
  - Admin password
  - Instance to install to
  - Application server install directory

9. Verify the installation directory, and press ENTER to start the installation.

*If you are running on AIX, and your webserver is IBM WebSphere, you must complete an additional step to manually deploy the war files, using the instructions in the section Using Manual Deployment. After completing the manual deployment, continue with the installation.*

- After installing fix packs (or service packs) for the SAP BusinessObjects Enterprise XI 3.1 base installation, undeploy all war files, then deploy all war files.
- After installing fix packs or service packs for the BusinessObjects Integration Kit for PeopleSoft, undeploy and deploy the war files in the following order:
  - a. undeploy InfoViewApp
  - b. deploy InfoViewApp
  - c. undeploy CmcApp
  - d. deploy CmcApp
  - e. undeploy OpenDocument
  - f. deploy OpenDocument
  - g. undeploy PartnerPlatformService
  - h. deploy PartnerPlatformService
  - i. undeploy bobjpsenterprise
  - j. deploy bobjpsenterprise

See Administering and Using SAP BusinessObjects Enterprise XI 3.1, Deploying Manually Using Wdeploy Tool.

*If your web server is Oracle WebLogic, you may get an error message saying either BusinessProcessBI or dswsbobje failed to deploy. In this case, complete the following additional steps after installing the fix pack for the SAP BusinessObjects Enterprise XI 3.1 base installation:*

1. Delete the following directories:
  - `<WLS_HOME>/user_projects/domains/<domain_name>/servers/AdminServer/stage/dswsbobje/dswsbobje`
  - `<WLS_HOME>/user_projects/domains/<domain_name>/servers/AdminServer/stage/BusinessProcessBI/BusinessProcessBI`
2. Restart the web server.
3. Manually deploy dswsbobje and BusinessProcessBI using the wdeploy tool.

See Administering and Using SAP BusinessObjects Enterprise XI 3.1, Deploying Manually Using Wdeploy Tool.

## **Task 16-4-14: Creating the BusinessObjects Enterprise Archive and Installing Files on UNIX or Linux**

In this section you consolidate the files that are needed for the PeopleSoft to BusinessObjects Enterprise integration in an archive. Also, this procedure installs International Components for Unicode (ICU) files that are required for the PSToWords functionality that is used with Crystal reports.

See *PeopleTools: Crystal Reports for PeopleSoft*, "Understanding How to Work with Multiple Languages."

1. Go to *PS\_HOME/setup/PsMpCrystalInstall/Disk1* and run *setup.sh*.
2. In the Choose Install Set menu, select option *1*, Create Archive and Install ICU, TFF.
3. At the welcome prompt press ENTER to continue.
4. Enter the location where SAP BusinessObjects Enterprise XI 3.1 is installed, and then enter *1* to continue.
5. If you see the following prompt, specify *1* for *Yes to All*.

You see this prompt if certain files exist in the installation location.

```
1- Yes to All
2- Yes
3- No
4- No to All
```

```
A newer file named "libu25pstowords.so" already exists at
"/home/user/install/bobje/enterprise120".
```

```
Do you want to overwrite the existing file?: 1
```

6. Press ENTER at the pre-installation summary.
7. Press ENTER at the Ready to Install prompt.
8. When the installation is complete, press ENTER to exit the installer.

The archive is created in *PS\_HOME/PsMpCrystalInstall/Disk1/InstData/boearchive.zip*.

9. Restart all BusinessObjects Enterprise servers.

## Task 16-4-15: Extracting the Archive on UNIX or Linux

After you create the *boearchive.zip* as described in the previous section, you must extract it to the following locations:

- *PS\_HOME* on the Process Scheduler server
- *PIA\_HOME* on the machine used for viewing reports

To extract the archive:

1. Copy *boearchive.zip* to *PsMpCrystalInstall/Disk1/InstData* under *PS\_HOME* or *PIA\_HOME*.
2. Go to *PS\_HOME/PsMpCrystalInstall/Disk1* or *PIA\_HOME/PsMpCrystalInstall/Disk1* and run *setup.sh*.
3. Select option 2, Extract BOE Archive.
4. Select the types of installation you require by entering the corresponding numbers. Enter *0* to continue when you have finished.

The options you choose depend upon your setup. You can select both options, Process Scheduler and PeopleSoft webserver, if you have the Process Scheduler and web server set up on the same system. If not, select only the option that you need and continue.

5. If you selected the Process Scheduler installation type, enter the location of *PS\_HOME*, and then press ENTER.
6. If you selected the PeopleSoft webserver installation type, enter the location of *PIA\_HOME*, and then press ENTER.

---

**Note.** Keep in mind that *PIA\_HOME* can be the same as or different from *PS\_HOME*. Enter the correct path for your installation environment.

See “Preparing for Installation,” Defining Installation Locations.

---

7. Select the option for the web server software installed on your system, Oracle WebLogic or IBM WebSphere, and then press ENTER.
8. Specify the domain name (for Oracle WebLogic) or application name (for IBM WebSphere) and then press ENTER.

The default is peoplesoft for both web servers.

9. Review the pre-installation summary and press ENTER to start the installation.
10. Press ENTER to exit the installer.
11. If you installed on a web server, restart the web server.

## Task 16-4-16: Installing TrueType Fonts in UNIX or Linux

To install a custom TrueType supported font in SAP BusinessObjects Enterprise XI 3.1 on supported UNIX and Linux platforms, copy the font from the *PS\_HOME*/FONTS/Truetype directory to the following directory:

`<BOE_HOME>/bobje/enterprise120/<platform>/crpe/fonts`

Depending on the operating system, substitute `<platform>` with the appropriate value from the following list:

- `solaris_sparc` (Solaris)
- `aix_rs6000` (AIX)
- `linux_x86` (Linux)

Keep the following points in mind while working with special fonts in UNIX or Linux:

- The Japanese version of SAP BusinessObjects Enterprise XI 3.1 for UNIX does not support True Type Collection (TTC) fonts. However, you can split your TTC fonts into two or three TTF fonts using a font conversion tool (such as FontLab). Alternatively, your font vendor may be able to provide TTF versions of your required fonts.
- To refer to a font name in its native language, the 'mainwin' locale must be set to that language. For example, to refer to a Japanese font by its Japanese name, the locale must be set to Japanese.
- Too many installed fonts may cause slow performance. To improve performance, delete unused fonts from your `/crpe/fonts` directory.
- If a font or font size contained in a report cannot be found on the system where the report processing is occurring (that is, the server with Crpe32.dll installed), the processing engine will attempt to approximate the font in the generated output.

For more information on the use of supported fonts in Crystal Reports and PeopleSoft software, search the BusinessObjects documentation.



## Task 16-4-17: Confirming Access to the SAP BusinessObjects Enterprise XI 3.1 Administration and Central Management Console

After you have completed the installations, you should confirm that you can access the Business Objects Central Management console. Use this procedure for both the Windows and UNIX/Linux installations.

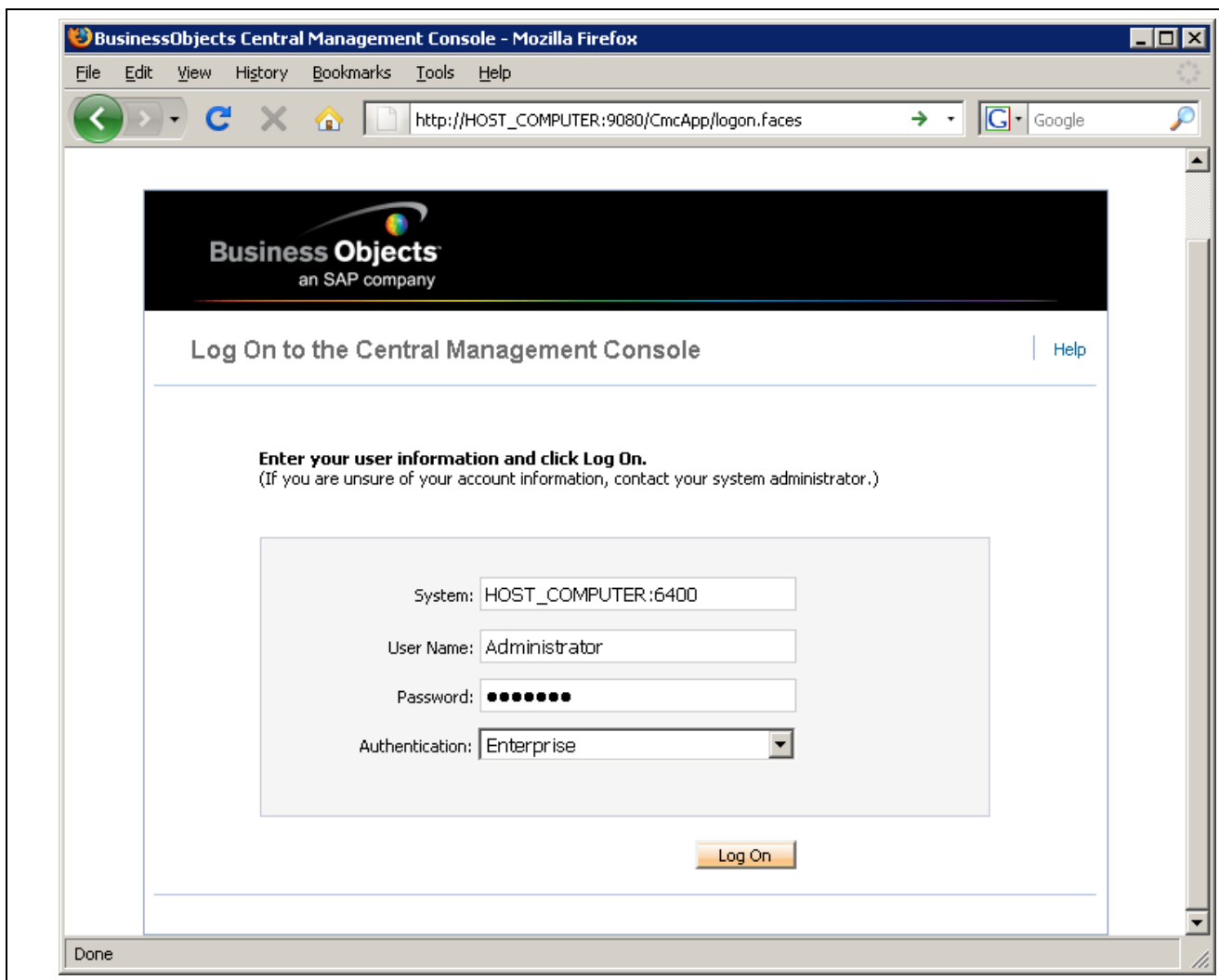
Before beginning this task, start the web server software under which you installed SAP BusinessObjects Enterprise XI 3.1.

1. In a new browser window, enter the following URL for the Central Management Console (where *<machine\_name>* is the computer name and *<port>* is the web server port).

`http://<machine_name>:<port>/CmcApp`

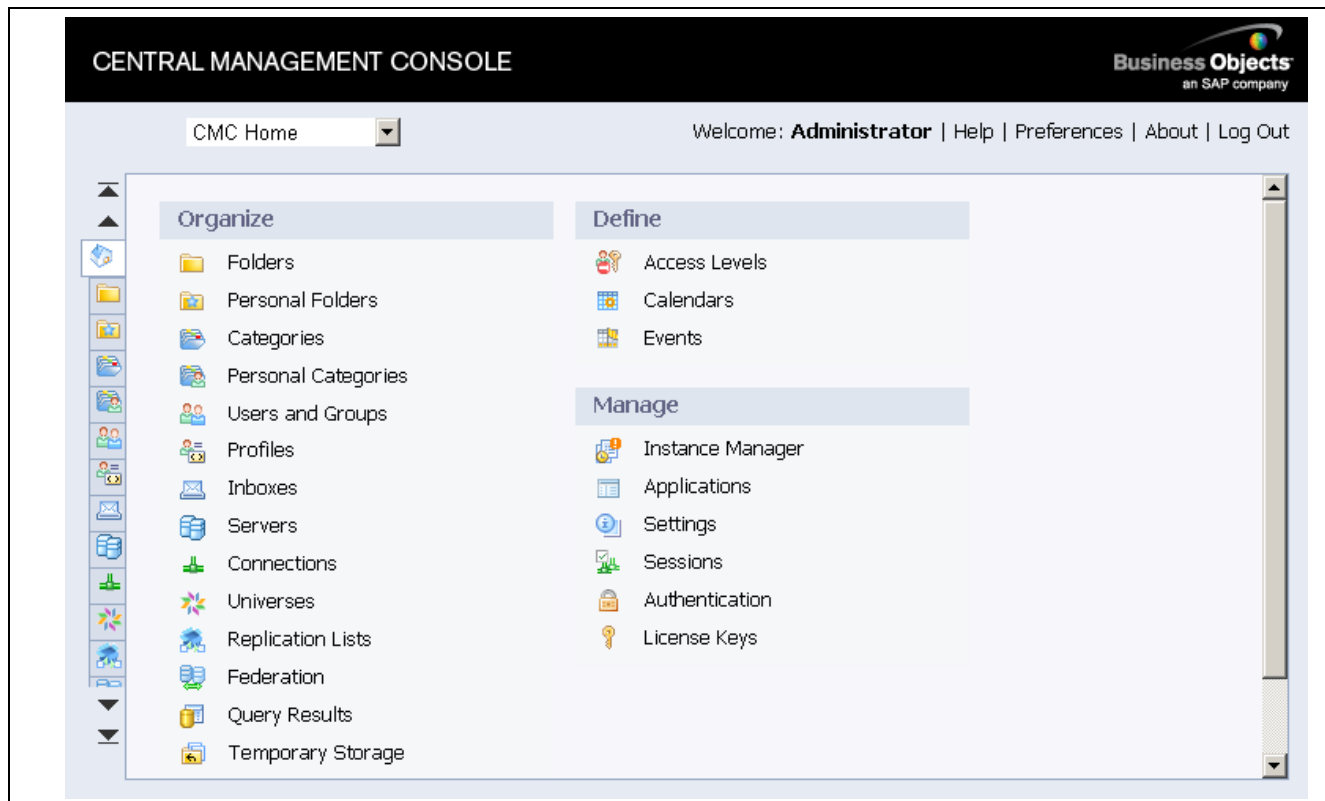
For Oracle WebLogic, the default port is 7001.

For IBM WebSphere, this is the HTTP port, not the SOAP port; the default is 9080. You can view this value in the file `WAS_HOME\profiles\AppSrv01\logs\AboutThisProfile.txt`. The following example shows the default port for IBM WebSphere.



Central Management Console Logon window

2. Enter the following information to confirm that you can log in:



Central Management Console home page

- System — Enter *machine\_name:6400*, the name of the system where you installed SAP BusinessObjects Enterprise XI 3.1, followed by a colon and the CMS port, 6400.
- Username — Enter Administrator.
- Password — Enter the password for the CMS Administrator account that you entered during the SAP BusinessObjects Enterprise XI 3.1 installation.

---

**Note.** Remember that before you can use SAP BusinessObjects Enterprise XI 3.1, you must complete additional installation and configuration procedures

---

## Task 16-4-18: Configuring the PeopleSoft Application for BusinessObjects Enterprise XI 3.1 Integration

This section discusses:

- Preparing the PeopleSoft Application to Integrate with SAP BusinessObjects Enterprise XI 3.1
- Configuring the PeopleSoft Application Server
- Configuring the PeopleSoft Pure Internet Architecture
- Identifying the Local Default Node in Your System
- Running the Data Mover Script and Database Project
- Adding PeopleSoft Users and Roles
- Verifying Process Scheduler Server Definition

- Updating the PeopleSoft Integration Broker Gateway

## Preparing the PeopleSoft Application to Integrate with SAP BusinessObjects Enterprise XI 3.1

In the PeopleSoft applications that you wish to integrate with SAP BusinessObjects Enterprise XI 3.1, you will have to configure settings in the following areas:

- PeopleSoft Application Server
- PeopleSoft Web Server
- PeopleSoft Integration Broker
- Query Access Services (QAS)

If the computer hosting the Process Scheduler is different from the computer where SAP BusinessObjects Enterprise XI 3.1 is installed, ensure that the machine name of the Process Scheduler computer can be pinged from the SAP BusinessObjects Enterprise XI 3.1 server box and vice versa. If not, add the full machine name and the IP address of the Process Scheduler computer to the host file of the computer where SAP BusinessObjects Enterprise XI 3.1 is installed.

---

**Note.** Carry out the steps in this section for each PeopleSoft application domain that you want to integrate with the SAP BusinessObjects Enterprise XI 3.1 server.

---

## Configuring the PeopleSoft Application Server

To configure the application server:

1. Make sure that your PeopleSoft application server is down.
2. Access the PSADMIN Quick-Configure menu by launching `psadmin.exe` from the `PS_HOME\appserv` directory.

Select the domain to configure.

See "Configuring the Application Server on Windows."

3. Confirm that Pub/Sub Servers (Feature 1) and Jolt (Feature 4) are turned on (set to Yes).

---

**Note.** To change a feature from Yes to No, type the feature number and press ENTER.

---

```

Quick-configure menu -- domain: HRDB

 Features Settings
 ===== =====
1) Pub/Sub Servers : Yes 16) DBNAME : [HRDB]
2) Quick Server : No 17) DBTYPE : [MICROSFT]
3) Query Servers : No 18) UserId : [HRDMO]
4) Jolt : Yes 19) UserPswd : []
5) Jolt Relay : No 20) DomainId : [TESTSERV]
6) WSL : No 21) AddToPATH : [C:\Program Files\Microsoft⇒
SQL Server\Tools\100\BINN]
7) PC Debugger : No 22) ConnectID : [people]
8) Event Notification : No 23) ConnectPswd : []
9) MCF Servers : No 24) ServerName : []
```

```

10) Perf Collator : No 25) DomainConnectPswd : []
11) Analytic Servers : No 26) WSL Port : [7000]
12) Domains Gateway : No 27) JSL Port : [9000]
 28) JRAD Port : [9100]

```

#### Actions

```
=====
```

```

13) Load config as shown
14) Custom configuration
15) Edit environment settings
 h) Help for this menu
 q) Return to previous menu

```

HINT: Enter 16 to edit DBNAME, then 13 to load  
Enter selection (1-28, h, or q):

4. Open `psappsrv.cfg`, the PeopleSoft Application Server configuration file, from the `<PS_CFG_HOME>\appserv\<domain>` directory.
5. Change the MIN Instances and MAX Instances for the Application Server to be greater than 1.

These settings allow multiple instances of the application server to execute. Suggested settings are 2 and 25 for MIN and MAX, respectively. Of course, the MAX setting should be no less than the MIN setting.

```

[PSAPPSRV]
;=====
; Settings for PSAPPSRV
;=====

;-----
; UBBGEN settings
Min Instances=2
Max Instances=25

```

6. Save and exit.
7. Re-start the application server.

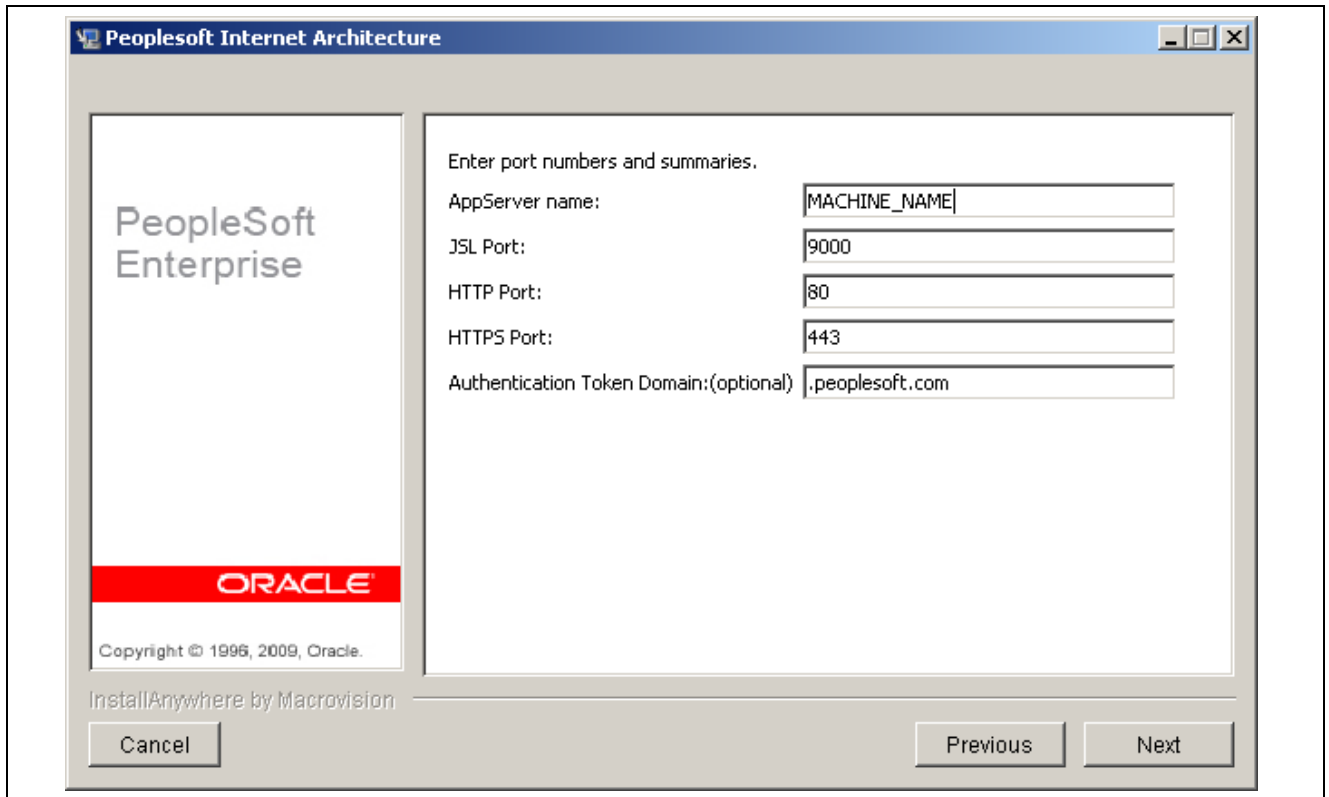
## Configuring the PeopleSoft Pure Internet Architecture

To ensure that single sign-on works properly in the integration between the PeopleSoft installation and SAP BusinessObjects Enterprise XI 3.1, you must configure the Authentication Token Domain in the PeopleSoft Pure Internet Architecture and set the PeopleSoft Integration Gateway properties.

1. Run `PS_HOME\setup\PsmPPIAInstall\setup.bat`.
2. Enter a value for the Authentication Token Domain.

In the following example, the authentication token domain is `.peoplesoft.com`.

See "Setting Up the PeopleSoft Pure Internet Architecture in GUI Mode," Using Authentication Domains in the PeopleSoft Pure Internet Architecture Installation.



Specifying the Authentication Domain

## Identifying the Local Default Node in Your System

After you identify the Local default node, use it in the next procedure.

1. Select PeopleTools, Integration Broker, Integration Setup, Nodes.
2. Click the Search button to display a list of all nodes defined in the system.

There should be one (and only one) node designated as the Default Local Node. You can sort on the Default Local Node column header to quickly find the proper node. Look for the node that has a "Y" in the Default Local Node column in the search results. In the following example, the local default node name is QE\_LOCAL.

**Nodes**

Enter any information you have and click Search. Leave fields blank for a list of all values.

Classic Search Add a New Value

Search Criteria

Search by: Node Type begins with

☐ Include History ☒ Correct History

Search Advanced Search

**Search Results**

View All First 1-71 of 71 Last

| Node Type | Node Name  | Description                   | Local Node | Default | Local Node |
|-----------|------------|-------------------------------|------------|---------|------------|
| PIA       | ERP        | Portal Node - ERP             | 1          | N       |            |
| PIA       | QE_LOCAL   | QE_LOCAL                      | 1          | Y       |            |
| External  | AIA        | Internal Use. Do not modify.  | 0          | N       |            |
| PIA       | ATOM       | Internal Use. Do not modify.  | 0          | N       |            |
| External  | ANONYMOUS  | Used internally by IB system. | 0          | N       |            |
| PIA       | ENTP       | Portal Node - ENTP            | 0          | N       |            |
| PIA       | ACVNIC_MDM | ACVNIC Node from MDM          | 0          | N       |            |

Node search results

- Copy the node name to a text editor, as you will use it in a later step.

See Adding the Local Default Node as a Message Node to your Gateway.

## Running the Data Mover Script and Database Project

In order to use SAP BusinessObjects Enterprise XI 3.1 to run reports with the PeopleSoft application, you need to run a Data Mover script and use the Copy Project from File functionality with the project CRTOBOE.

This will add pertinent roles and change the Crystal process types to use the SAP BusinessObjects Enterprise XI 3.1 executable.

- Launch Data Mover and run the Data Mover script *PS\_HOME\scripts\CRTOBOE.dms*.
- Launch Application Designer and sign on to your database.
- Select Tools, Copy Project, From File.
- In the resulting dialog box, change the import directory to *PS\_HOME\projects*, select CRTOBOE from the list of projects, and click Select.

## Adding PeopleSoft Users and Roles

SAP BusinessObjects Enterprise XI 3.1 requires two users, BOE\_Admin and BOE\_Viewing.

To add users BOE\_Admin and BOE\_Viewing:

- Log in to the PeopleSoft application.
- Select PeopleTools, Security, User Profiles, User Profiles.

3. Select Classic Search and search for *BOE\_Admin*.

ORACLE® Home | Worklist

Favorites Main Menu > PeopleTools > Security > User Profiles > User Profiles

### User Profiles

Enter any information you have and click Search. Leave fields blank for a list of all values.

Classic Search Add a New Value

Search Criteria

Search by: User ID begins with BOE

Search Advanced Search

### Search Results

View All First 1-2 of 2 Last

| User ID     | Description             |
|-------------|-------------------------|
| BOE_Admin   | BOE administrative user |
| BOE_Viewing | BOE viewing user        |

Classic Search Add a New Value

User Profiles search results showing BOE\_Admin

4. If the BOE\_Admin user does not exist, select Add a New Value and create it.
5. On the User ID page for BOE\_Admin, on the General page, specify PTPT2200 for the Process Profile.

New Window Personalize Page http

General ID Roles Workflow Audit Links User ID Queries

User ID: BOE\_Admin

Description: BOE administrative user

Account Locked Out?

Logon Information

Symbolic ID: SYSADM1

Password:

Confirm Password:

User ID Alias:

Edit Email Addresses Instant Messaging Information

General Attributes

Language Code: English

Currency Code:

Default Mobile Page:

Enable Expert Entry

Permission Lists

Navigator Homepage: ALLPAGES

Primary: ALLPAGES

Process Profile: PTPT2200

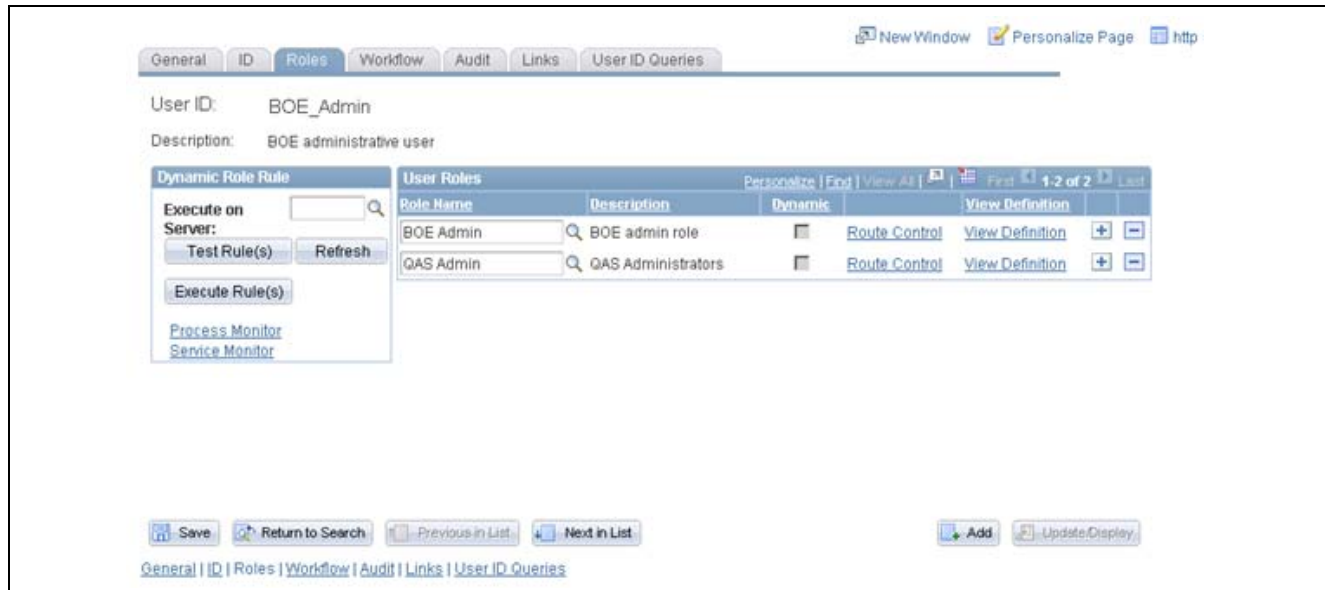
Row Security: ALLPAGES

Save Return to Search Previous in List Next in List Add Update/Display

General | ID | Roles | Workflow | Audit | Links | User ID Queries

BOE\_Admin User ID General page

6. Select the Roles tab.



BOE\_Admin User ID Roles page

Verify that the following roles are present, or add them if necessary:

- BOE Admin
- QAS Admin

7. If you made any changes, click Save.
8. Repeat step 2, and search for *BOE\_Viewing*.
9. If the user does not exist, select Add a New Value and create the BOE\_Viewing user.
10. On the User ID: BOE\_Viewing page, select the Roles tab.
11. Verify that the BOE Viewing role is present, or add it if it is not present.
12. If you made any changes, click Save.

Any PeopleSoft user ID that will run Crystal Reports through SAP BusinessObjects Enterprise XI 3.1 must have the QAS Admin role associated with it.

To add the “QAS Admin” role to a user:

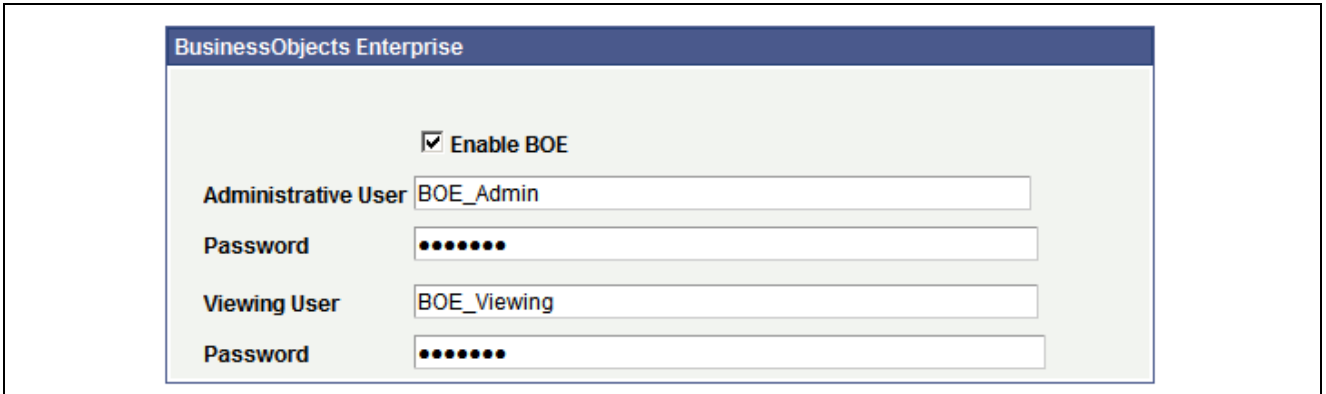
1. Log in to the PeopleSoft application in a browser.
2. Select PeopleTools, Security, User Profiles, User Profiles.
3. Select Classic Search and search for the PeopleSoft user you want to configure, for example PTDMO.
4. Select the Roles tab.
5. Add the QAS Admin role, and click Save.

To configure the user credentials:

1. Select PeopleTools, Utilities, Administration, BOE Administration.

The following examples show three portions of the BOE Integration Administration page.





**BusinessObjects Enterprise**

☒ **Enable BOE**

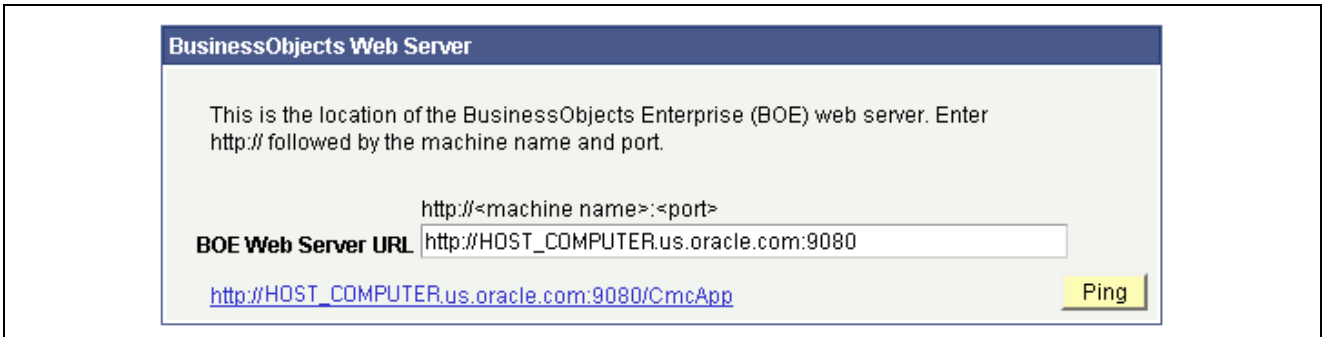
**Administrative User**

**Password**

**Viewing User**

**Password**

BOE Integration Administration page: BusinessObjects Enterprise portion



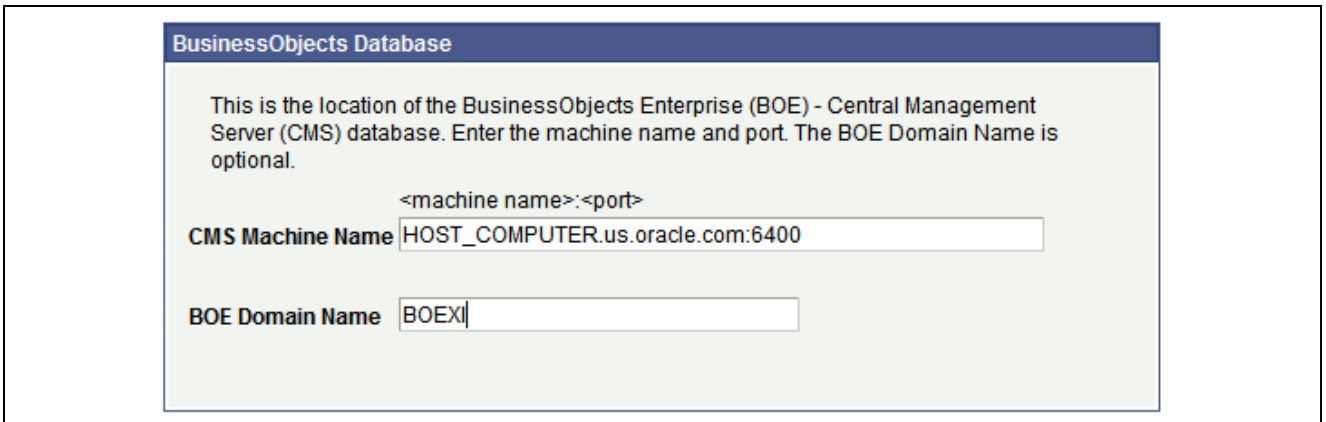
**BusinessObjects Web Server**

This is the location of the BusinessObjects Enterprise (BOE) web server. Enter http:// followed by the machine name and port.

**BOE Web Server URL**

[http://HOST\\_COMPUTER.us.oracle.com:9080/CmcApp](http://HOST_COMPUTER.us.oracle.com:9080/CmcApp)

BOE Integration Administration page: BusinessObjects Web Server portion



**BusinessObjects Database**

This is the location of the BusinessObjects Enterprise (BOE) - Central Management Server (CMS) database. Enter the machine name and port. The BOE Domain Name is optional.

**CMS Machine Name**

**BOE Domain Name**

BOE Integration Administration page: BusinessObjects Database portion

2. Enter the following values:

- Enable BOE

Select the Enable BOE check box. This option is required to convert or publish reports, and to run reports through Process Scheduler. Note that *clearing* the option is not sufficient to change your environment from running with BusinessObjects Enterprise to running with Crystal Reports. That conversion is discussed in a later section.

See Converting Crystal Reports.

---

**Note.** If the Enable BOE check box is selected, but the BOE archive file (boearchive.zip) has not been extracted on the Process Scheduler machine as explained in the section Extracting the Archive on Windows or Extracting the Archive on UNIX earlier in this chapter, the Process Scheduler Purge Reports process will fail. Be sure to extract the BOE archive file on any Process Scheduler machine where you plan to run reports and use the Purge Reports process.

See *PeopleTools: PeopleSoft Process Scheduler*, "Maintaining Reports."

---

- Administrative User: Enter BOE\_Admin
- Password: Enter the password associated with BOE\_Admin.
- Viewing User: Enter BOE\_Viewing.
- Viewing User Password: Enter the password associated with the user BOE\_Viewing.
- BOE Web Server URL

Enter `http://<machine_name>:<port>`

- CMS Machine Name: Enter the name of the computer where you installed SAP BusinessObjects Enterprise XI 3.1, and the port for the CMS. The default port is 6400.
- BOE Domain Name (Optional): Enter a name to identify the BOE domain.

Make a note of this domain name. You will use it on the CMC authentication page in a later step.

## Verifying Process Scheduler Server Definition

You need to verify that the Process Scheduler servers that you plan to use to run Crystal Reports are configured to run those processes.

To verify the Process Scheduler server definition:

1. Log into your PeopleSoft application in a browser.
2. Select PeopleTools, Process Scheduler, Servers.
3. Choose each server on which you plan to schedule Crystal Reports. The examples below shows the top and bottom of the Server Definition page for the PSNT server.

**ORACLE**

Home | Worklist | MultiChannel Console | Add to Favorites | Sign out

New Window | Customize Page | http

**Server Definition** | Distribution | Operation | Notification | Daemon

**Server Name:** PSNT

**Description:** NT Server Agent

**\*Sleep Time:** 15 Seconds **CPU Utilization Threshold:** %

**\*Heartbeat:** 60 Seconds **Memory Utilization Threshold:** %

**Max API Aware:** 5 Concurrent Tasks **Server Load Balancing Option:** Use for Load Balancing

**\*Operating System:** Windows **Redistribute Workload Option:** Redistribute to any O/S

Note: To disable a process category on this server, set the max. concurrent to 0.

| Process Categories run on this Server |          |                |
|---------------------------------------|----------|----------------|
| Process Category                      | Priority | Max Concurrent |
| Default                               | Medium   | 5              |
| LOADCACHE                             | Medium   | 0              |
| QEHIGH                                | Medium   | 5              |
| QELow                                 | Medium   | 5              |
| QEMEDIUM                              | Medium   | 5              |
| QEZEROMAX                             | Medium   | 5              |

Server Definition page for PSNT: Part 1

ORACLE

Home | Worklist | MultiChannel Console | Add to Favorites | Sign out

QEZEROMAX Medium 5

Process Types run on this Server

| Process Type               | Priority | Max Concurrent |   |   |
|----------------------------|----------|----------------|---|---|
| Application Engine         | Medium   | 3              | + | - |
| COBOL SQL                  | Medium   | 3              | + | - |
| Crw Online                 | Medium   | 3              | + | - |
| Crystal                    | Medium   | 3              | + | - |
| Cube Builder               | Medium   | 3              | + | - |
| Data Mover                 | Medium   | 3              | + | - |
| Essbase Cube Builder       | Medium   | 3              | + | - |
| Optimization Engine        | Medium   | 2              | + | - |
| SQR Process                | Medium   | 3              | + | - |
| SQR Report                 | Medium   | 3              | + | - |
| SQR Report For WF Delivery | Medium   | 3              | + | - |
| Winword                    | Medium   | 3              | + | - |
| XML Publisher              | Medium   | 3              | + | - |
| nVision-Report             | Medium   | 3              | + | - |
| nVision-ReportBook         | Medium   | 3              | + | - |

Save Return to Search Notify Add Update/Display

Server Definition page for PSNT: Part 2

For each server, verify that Crystal is one of the Process Types in the grid Process Types run on this Server.

4. If the Crystal Process Type does not exist, add it and save the page.

## Updating the PeopleSoft Integration Broker Gateway

You must update the PeopleSoft Integration Broker Gateway to recognize your PeopleSoft application server.

To configure the Integration Broker Gateway:

1. Log in to your PeopleSoft application.
2. Select PeopleTools, Integration Broker, Configuration, Gateways.
3. In the Gateway URL field, enter the following value, where <machine\_name> is the machine where the Integration Broker is installed, and <port> is the port number where the PeopleSoft web server is listening.

That is, the machine where PeopleSoft PeopleTools is installed, and the port number for the web server listener; in the following example, PTOOLS-HOST100 and 7041, respectively.

`http://<machine_name>:<port>/PSIGW/PeopleSoftListeningConnector`

### Gateways

Gateway ID: LOCAL [Inbound Gateways](#)

☒ Local Gateway ☐ Load Balancer

URL:  [Ping Gateway](#)

[Gateway Setup Properties](#)

[Load Gateway Connectors](#)

| Connectors |               |             |                                     | Personalize | Find | First | 1-9 of 9 | Last |
|------------|---------------|-------------|-------------------------------------|-------------|------|-------|----------|------|
|            | Connector ID  | Description | Connector Class Name                | Properties  | +    | -     |          |      |
| 1          | AS2TARGET     |             | AS2TargetConnector                  | Properties  | +    | -     |          |      |
| 2          | FILEOUTPUT    |             | SimpleFileTargetConnector           | Properties  | +    | -     |          |      |
| 3          | FTPTARGET     |             | FTPTargetConnector                  | Properties  | +    | -     |          |      |
| 4          | GETMAILTARGET |             | GetMailTargetConnector              | Properties  | +    | -     |          |      |
| 5          | HTTPTARGET    |             | HttpTargetConnector                 | Properties  | +    | -     |          |      |
| 6          | JMSTARGET     |             | JMSTargetConnector                  | Properties  | +    | -     |          |      |
| 7          | PSFT81TARGET  |             | ApplicationMessagingTargetConnector | Properties  | +    | -     |          |      |
| 8          | PSFTTARGET    |             | PeopleSoftTargetConnector           | Properties  | +    | -     |          |      |
| 9          | SMTPTARGET    |             | SMTPTargetConnector                 | Properties  | +    | -     |          |      |

[Save](#) [Return to Search](#)

Gateways page for Gateway ID Local

4. Select PeopleTools, Integration Broker, Service Operations Monitor, Administration, Domain Status.

Activate the domain by changing the status in the Domains list to Active. Select Domain Status. Select Domain Status. On the page that appears, select Purge Domains, and then click Save.

### Domain Status

Domain Criteria

Grace Period for all Domains (Minutes)

[Purge Domain Status](#) ☐ All Domains Active ☐ All Domains Inactive **Failover Disabled**

[Refresh](#) [Update](#) [Set Up Failover](#) [Master/Slave Load Balance](#) [Slave Templates](#)

| Domains        |                   |                |                                   |               |              |                 | Personalize | Find | View All | First | 1 of 1 | Last                                   |
|----------------|-------------------|----------------|-----------------------------------|---------------|--------------|-----------------|-------------|------|----------|-------|--------|----------------------------------------|
| Failover Group | Failover Priority | Machine Name   | Application Server Path           | Domain Status | Grace Period | Slave Indicator |             |      |          |       |        |                                        |
|                |                   | RTDC78017TLSDB | D:\PT8.52-801-R1\lappser\F8528012 | Active        |              |                 |             |      |          |       |        | <a href="#">View Domain Queue Sets</a> |

| Dispatcher Status |                 |                                   |               | Personalize     | Find | First | 1-3 of 3 | Last |
|-------------------|-----------------|-----------------------------------|---------------|-----------------|------|-------|----------|------|
| Machine Name      | Dispatcher Name | Application Server Path           | Status String | Date/Time Stamp |      |       |          |      |
| PTOOLS-HOST100    | PSBRKDSP_dft    | D:\PT8.52-801-R1\lappser\F8528012 | ACT           |                 |      |       |          |      |
| PTOOLS-HOST100    | PSPUDBSP_dft    | D:\PT8.52-801-R1\lappser\F8528012 | ACT           |                 |      |       |          |      |
| PTOOLS-HOST100    | PSSUBDSP_dft    | D:\PT8.52-801-R1\lappser\F8528012 | ACT           |                 |      |       |          |      |

Domain Status page

5. Select PeopleTools, Integration Broker, Configuration, Service Configuration.  
Select Setup Target Locations.

**Target Locations**

**Web Services Target Locations**

**\*Target Location:**

**Example:** http://<machine>:<port>/PSIGW/PeopleSoftServiceListeningConnector

**Alternate Example:** http://<machine>:<port>/PSIGW/PeopleSoftServiceListeningConnector/<defaultlocalnode>

**Secure Target Location:**

**Example:** https://<machine>:<port>/PSIGW/PeopleSoftServiceListeningConnector

**Alternate Example:** https://<machine>:<port>/PSIGW/PeopleSoftServiceListeningConnector/<defaultlocalnode>

**REST Services Target Locations**

**Target Location:**

**Example:** http://<machine>:<port>/PSIGW/RESTListeningConnector

**Alternate Example:** http://<machine>:<port>/PSIGW/RESTListeningConnector/<defaultlocalnode>

**Secure Target Location:**

**Example:** https://<machine>:<port>/PSIGW/RESTListeningConnector

**Alternate Example:** https://<machine>:<port>/PSIGW/RESTListeningConnector/<defaultlocalnode>

Target Locations page

6. Fill in the Target Location and Secure Target Location fields.

The SAP BusinessObjects Enterprise XI 3.1 configuration requires an HTTPS address on this page.

- Target Location

Enter the machine name where PeopleSoft PeopleTools is installed, and the HTTP port number for the web server (the example uses ptools-host100 and 7041, respectively):

http://<machine\_name>:<http\_port>/PSIGW/PeopleSoftServiceListeningConnector

- Secure Target Location

The URL must be a valid HTTPS PeopleSoftServiceListeningConnector. Enter the machine name where PeopleSoft PeopleTools is installed, and the HTTPS port number for the web server (the example uses ptools-host100 and 7042, respectively):

https://<machine\_name>:<https\_port>/PSIGW/PeopleSoftServiceListeningConnector

7. Select PeopleTools, Integration Broker, Configuration, Gateways.

Click Search on the page that appears.

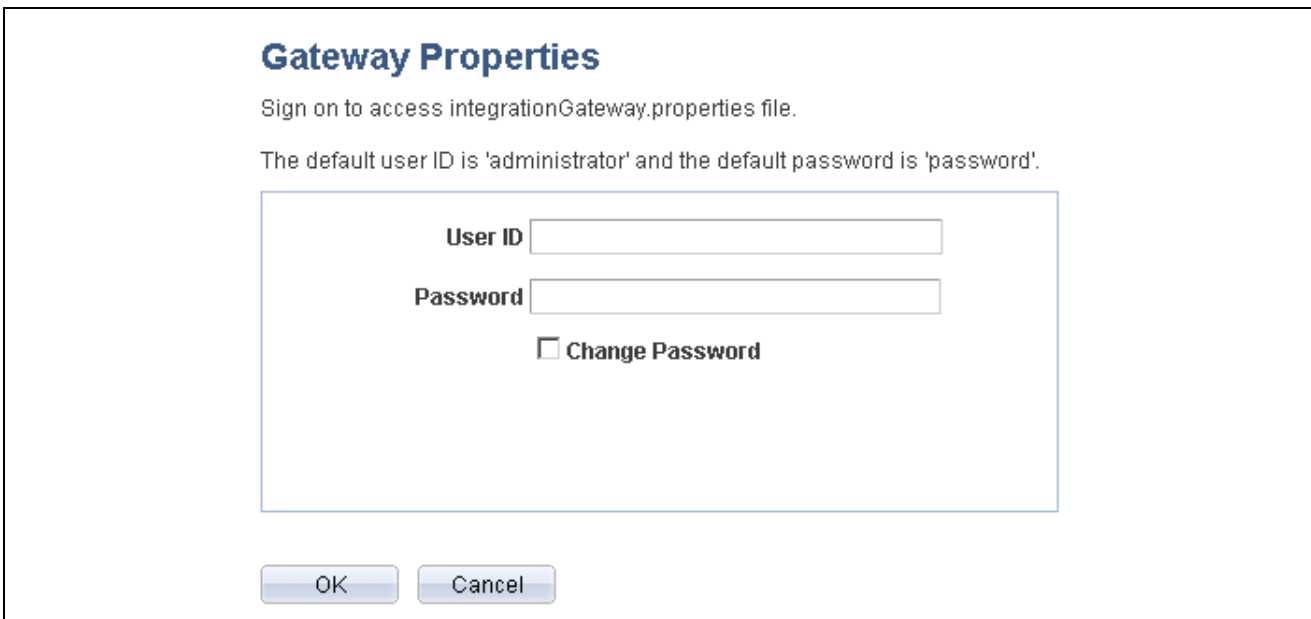
8. On the Gateways page, select the link Gateway Setup Properties.

The Gateways Properties page appears.

9. Enter the Integration Gateway administrator user ID and password.

The default user ID is administrator. The password was specified during the PeopleSoft Pure Internet Architecture setup.

See "Setting Up the PeopleSoft Pure Internet Architecture <in GUI or Console Mode>," Installing the PeopleSoft Pure Internet Architecture on Oracle WebLogic <in GUI or Console Mode>.



**Gateway Properties**

Sign on to access integrationGateway.properties file.

The default user ID is 'administrator' and the default password is 'password'.

User ID

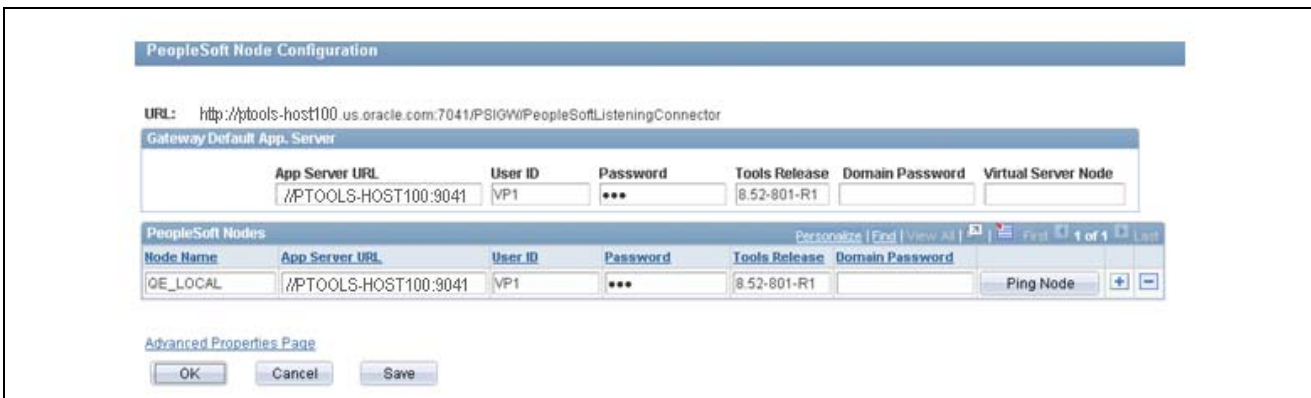
Password

☐ Change Password

OK Cancel

Gateway Properties Sign on window

10. Add a new node in the PeopleSoft Node Configuration page and save.



**PeopleSoft Node Configuration**

URL: <http://ptools-host100.us.oracle.com:7041/PSIGW/PeopleSoftListeningConnector>

Gateway Default App. Server

| App Server URL       | User ID | Password | Tools Release | Domain Password | Virtual Server Node |
|----------------------|---------|----------|---------------|-----------------|---------------------|
| /PTOOLS-HOST100:9041 | VP1     | ***      | 8.52-801-R1   |                 |                     |

PeopleSoft Nodes

| Node Name | App Server URL       | User ID | Password | Tools Release | Domain Password |           |
|-----------|----------------------|---------|----------|---------------|-----------------|-----------|
| QE_LOCAL  | /PTOOLS-HOST100:9041 | VP1     | ***      | 8.52-801-R1   |                 | Ping Node |

Advanced Properties Page

OK Cancel Save

PeopleSoft Node Configuration page

Enter the following values:

- Node Name: Enter the name of the active default node.

This example uses QE\_LOCAL as the default node.

See Identifying the Local Default Node in Your System.

- App Server URL: Enter the URL of the web server that is connected (through Jolt) to your PeopleSoft database's application server.
- User ID: Enter user *BOE\_Admin* and its password.
- Password: Enter the password for user *BOE\_Admin*.
- Tools Release: Provide the exact PeopleSoft PeopleTools release that your application server is using; for example, 8.53-19.

11. Click Save.

12. Click Ping Node to be sure the node is accessible, and then exit.

## Task 16-4-19: Importing the Security Certificate to the Oracle WebLogic Server

This section describes how to export the security certificate for PeopleSoft PeopleTools and import it into SAP BusinessObjects Enterprise XI 3.1. Before carrying out this step you should have configured Secure Socket Layers (SSL) for the PeopleSoft web server.

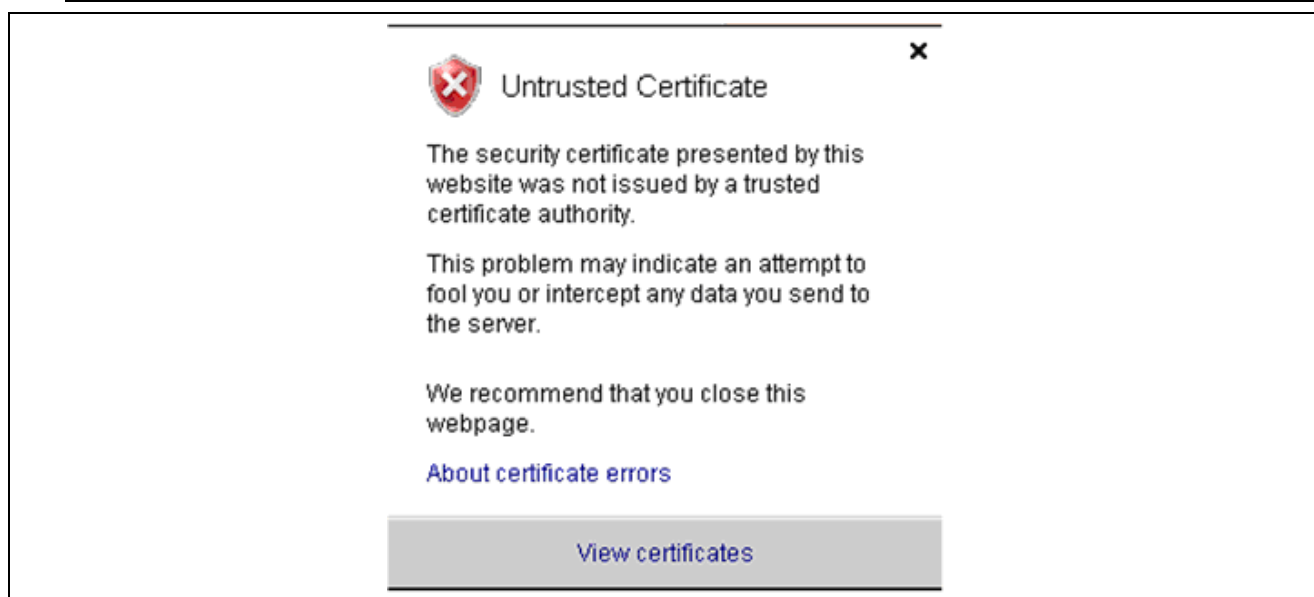
See *PeopleTools: System and Server Administration*, "Implementing WebLogic SSL Keys and Certificates."

1. Sign in to the PeopleSoft application using the https port.
2. In the browser menu, select View, Security Report.

---

**Note.** Depending upon your browser version, you may need to use another command to view the certificates.

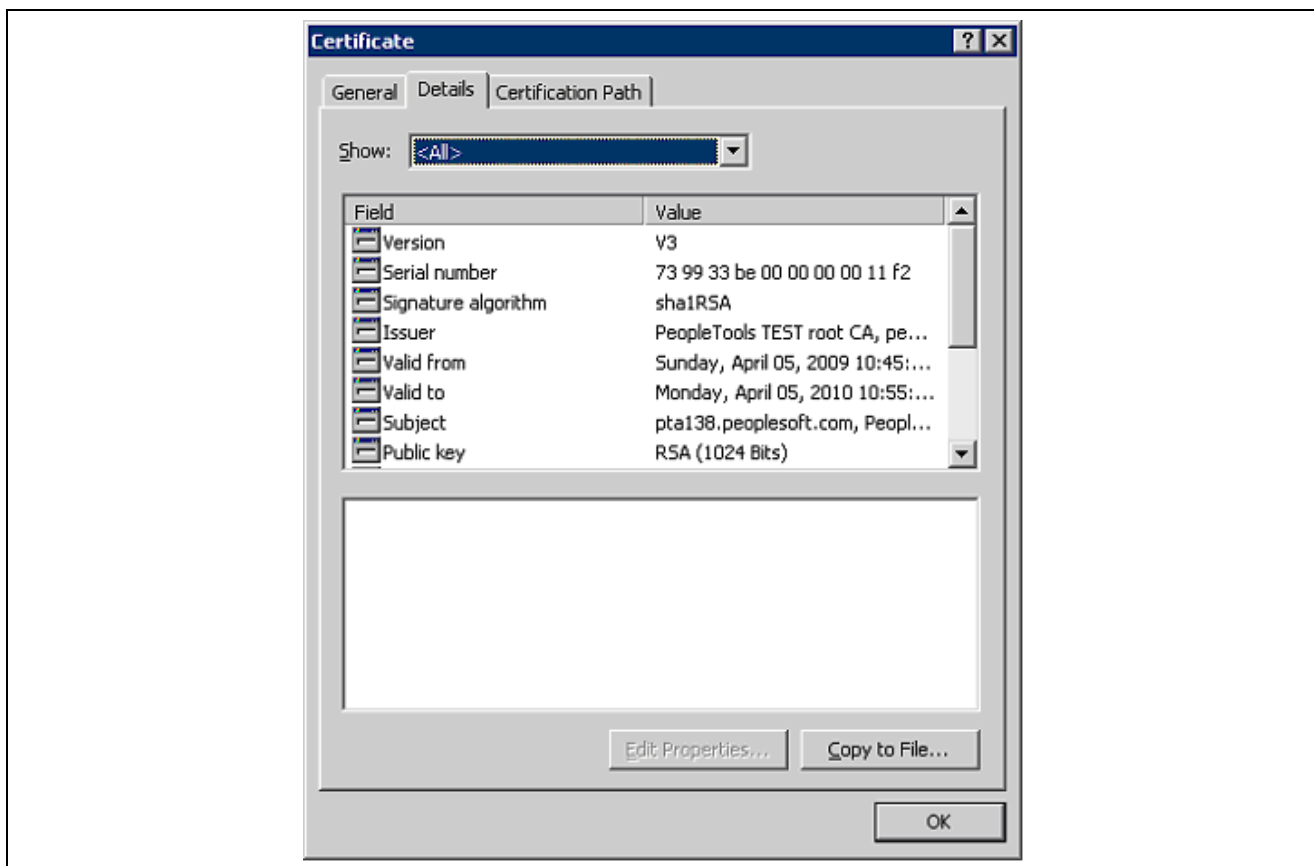
---



Untrusted Certificate message

3. Click the View certificates link.  
The Certificate dialog box appears.





Certificate dialog box

4. Click the Copy to File button.

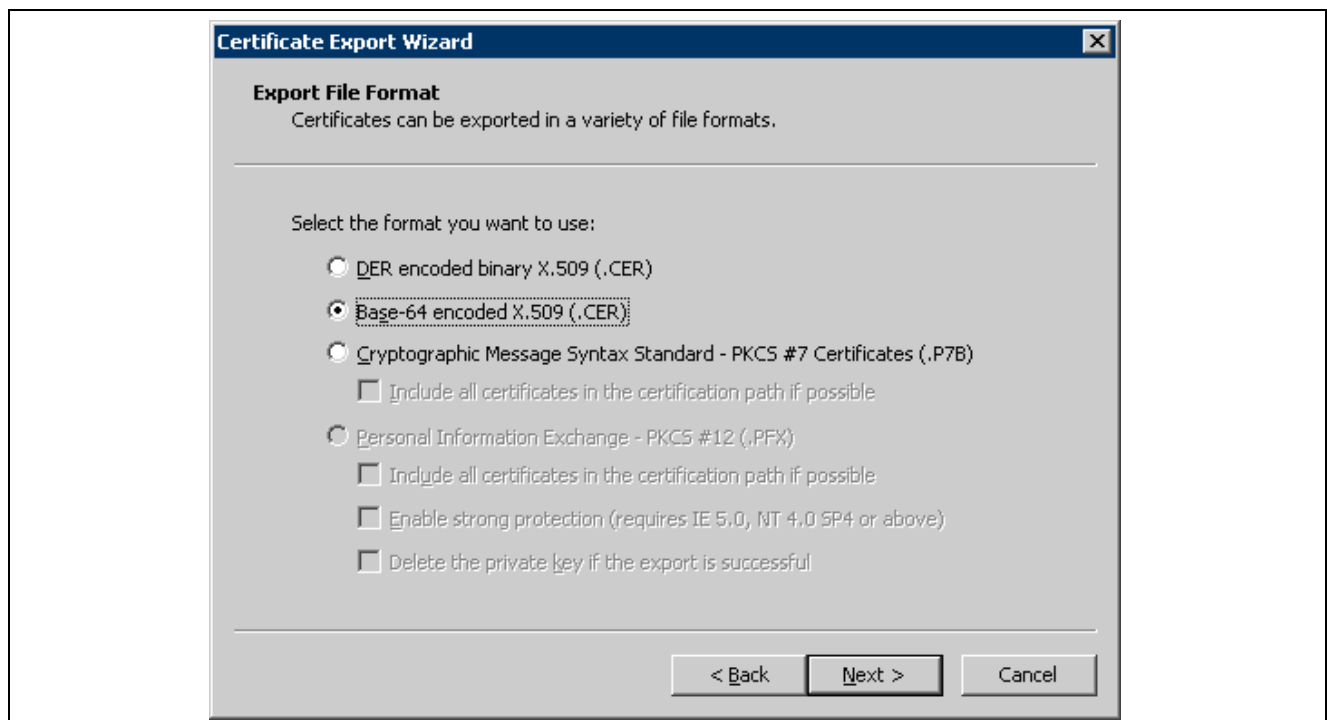
The Certificate Export Wizard dialog box appears.



Certificate Export Wizard dialog box

5. Click Next.

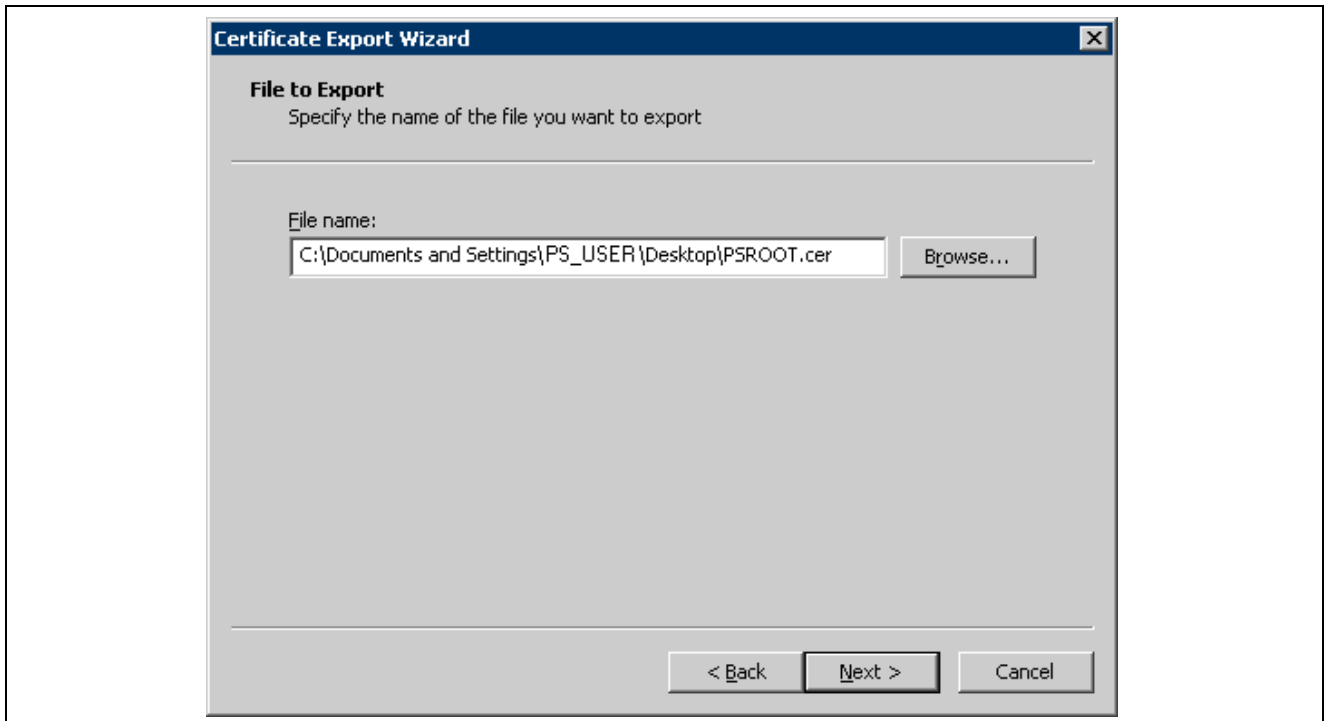
On the Export File Format page, select Base-64 encoded X.509 (.CER), and click Next.



Export File Format page

6. Enter the name you would like to provide for the certificate and the location to export it to, and then click Next.

In this example, the full path to the file is C:\Documents and Settings\PS\_USER\Desktop\PSROOT.cer.



File to Export page

7. Click Finish to export the certificate.
8. Copy the exported certificate to a directory, referred to here as *CERTIFICATE\_DIR*, on the system where the you installed the web server for BOE.
9. Go to the `<WLS_HOME>\jdk<version>\bin` directory, where `<WLS_HOME>` is the directory where you installed Oracle WebLogic.

Use the following command to import the PeopleSoft certificate to WebLogic keystore:

```
keytool -import -file <certificate file> -keystore <keystore file> -alias =>
<alias>
```

- For `<certificate file>` enter the full path of the directory where you saved the exported certificate, *CERTIFICATE\_DIR*.
- For `<keystore file>` enter `<WLS_HOME>\jdk<version>\jre\lib\security\cacerts`
- For `<alias>` enter any name.

10. Enter the keystore password. (The default is *changeit*.)

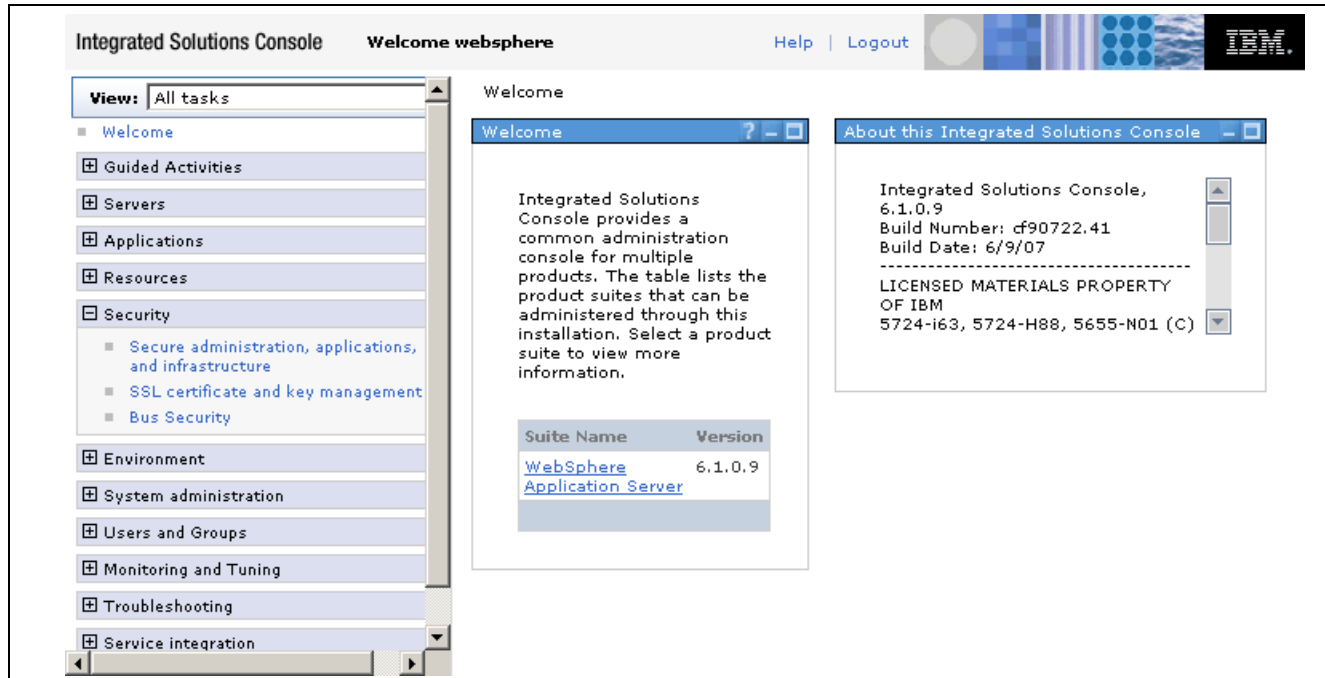
Enter y to import the certificate.

## Task 16-4-20: Importing Security Certificate to the IBM WebSphere Server

This section describes how to export the security certificate for PeopleSoft PeopleTools and import it for SAP BusinessObjects Enterprise XI 3.1. Before carrying out this step you should have configured Secure Socket Layers (SSL) for the PeopleSoft web server.

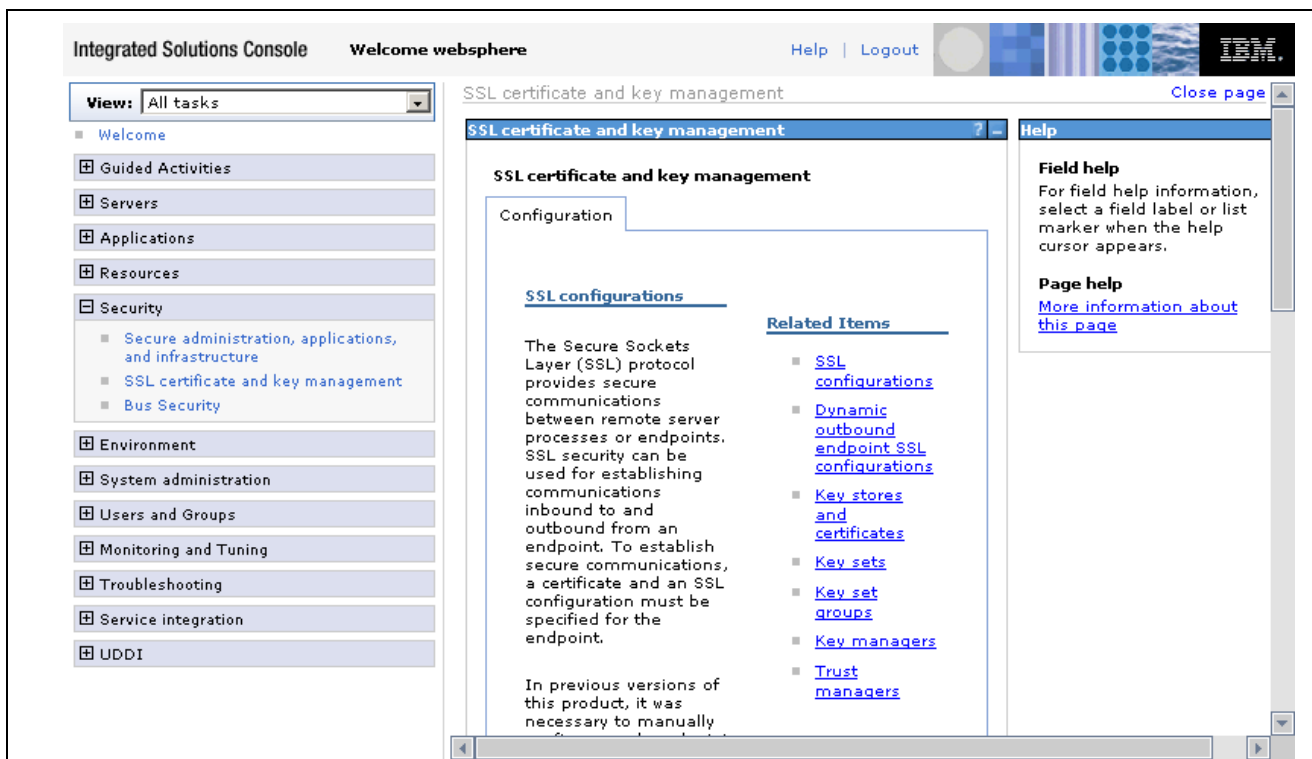
See *PeopleTools: System and Server Administration*, "Setting Up SSL for WebSphere."

1. Export the certificate as described in steps 1–8 in the task above, Importing Security Certificate to the Oracle WebLogic Server.
2. Log on to IBM WebSphere Administrative Console.
3. Select Security, SSL certification and key management.



IBM WebSphere Integrated Solution Console welcome page

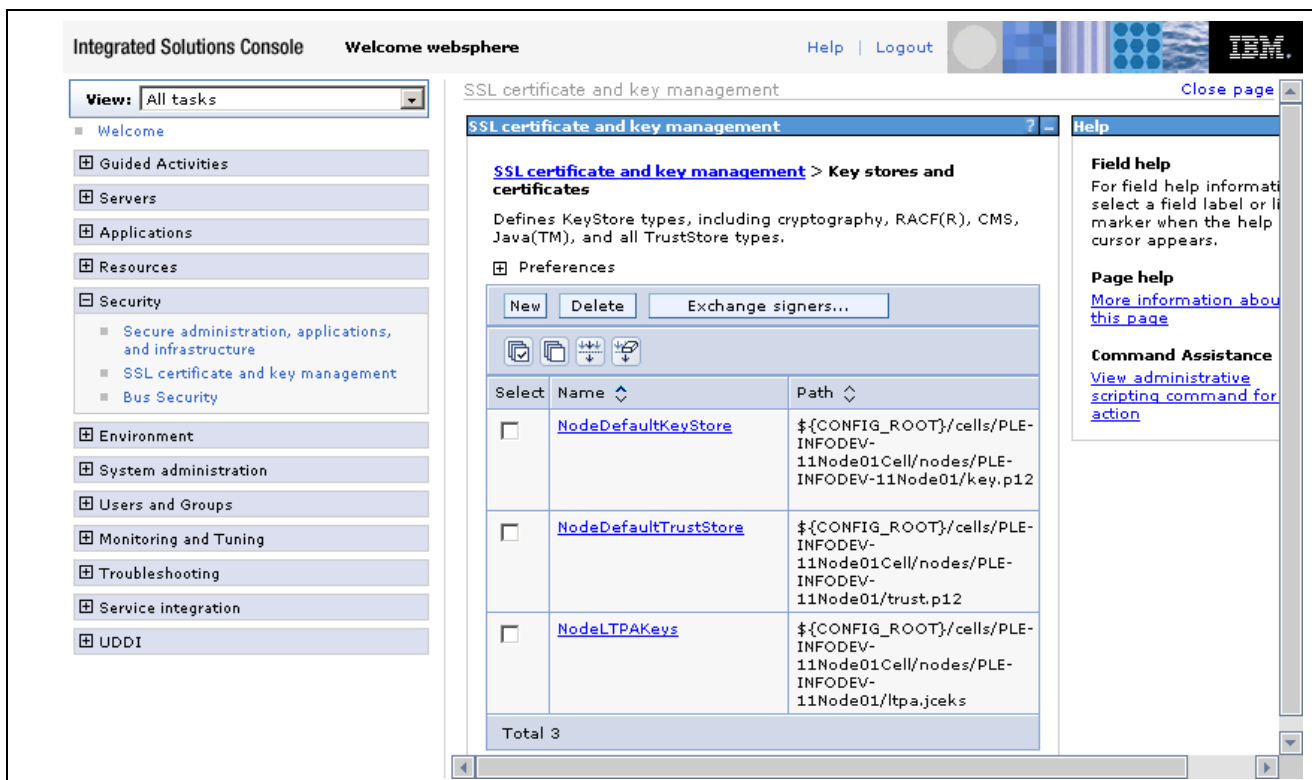
4. Select Key stores and certificates in the Related Items area.



SSL certificate and key management page

## 5. Select the link for NodeDefaultTrustStore.

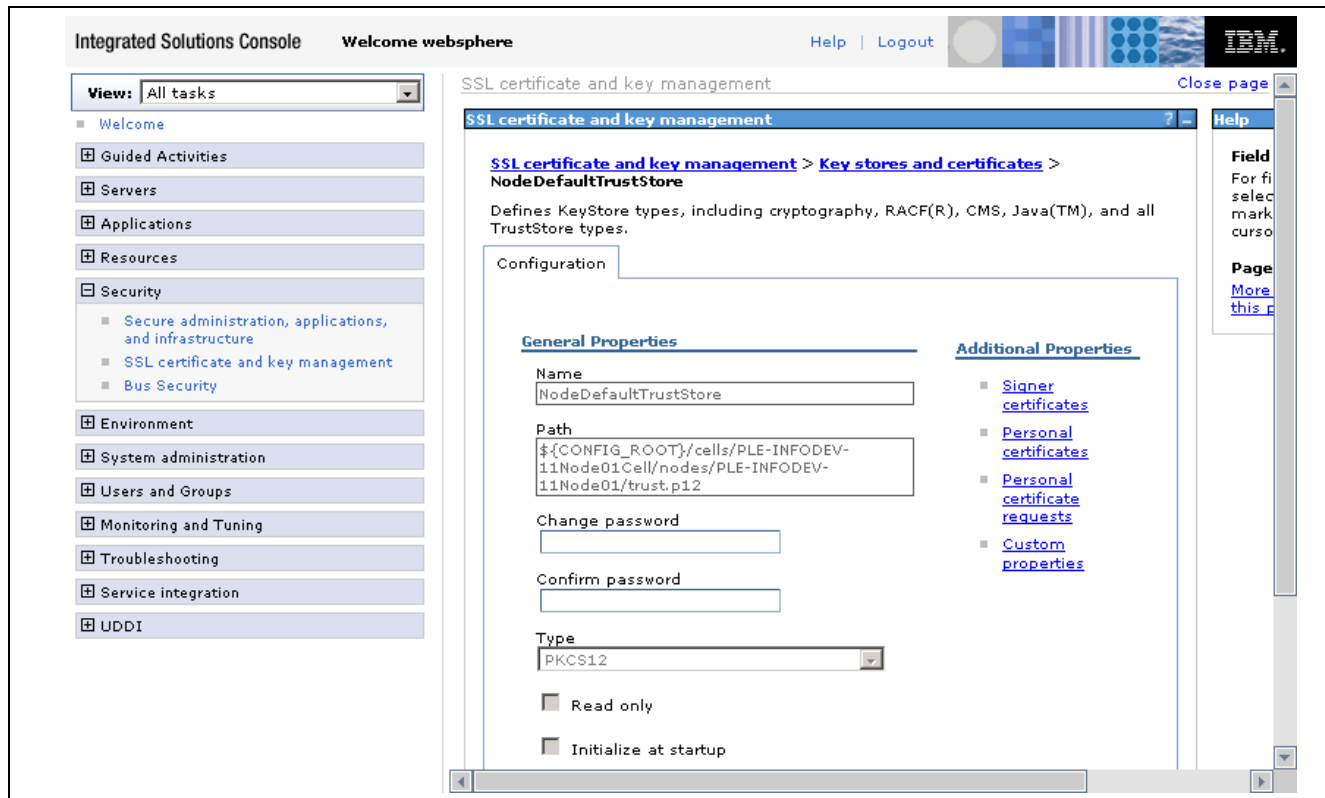
The trust store filename can be found on the Key stores and certificates page.



Key stores and certificates page

- On the NodeDefaultTrustStore page, make a note of the path for this trust store file and the trust store type, which is PKCS12 in this example.

The variable `$/CONFIG_ROOT` refers to the installation directory for IBM WebSphere, referred to here as `WAS_HOME`. Note that on the NodeDefaultTrustStore page you can change the trust store password.



NodeDefaultTrustStore page

- Run the following command to launch the IBM WebSphere ikeyman utility to import the certificate:

---

**Note.** You can also use Java keytool, as described in the previous section.

---

On Microsoft Windows:

```
WAS_HOME\AppServer\bin\ikeyman.bat
```

On UNIX or Linux:

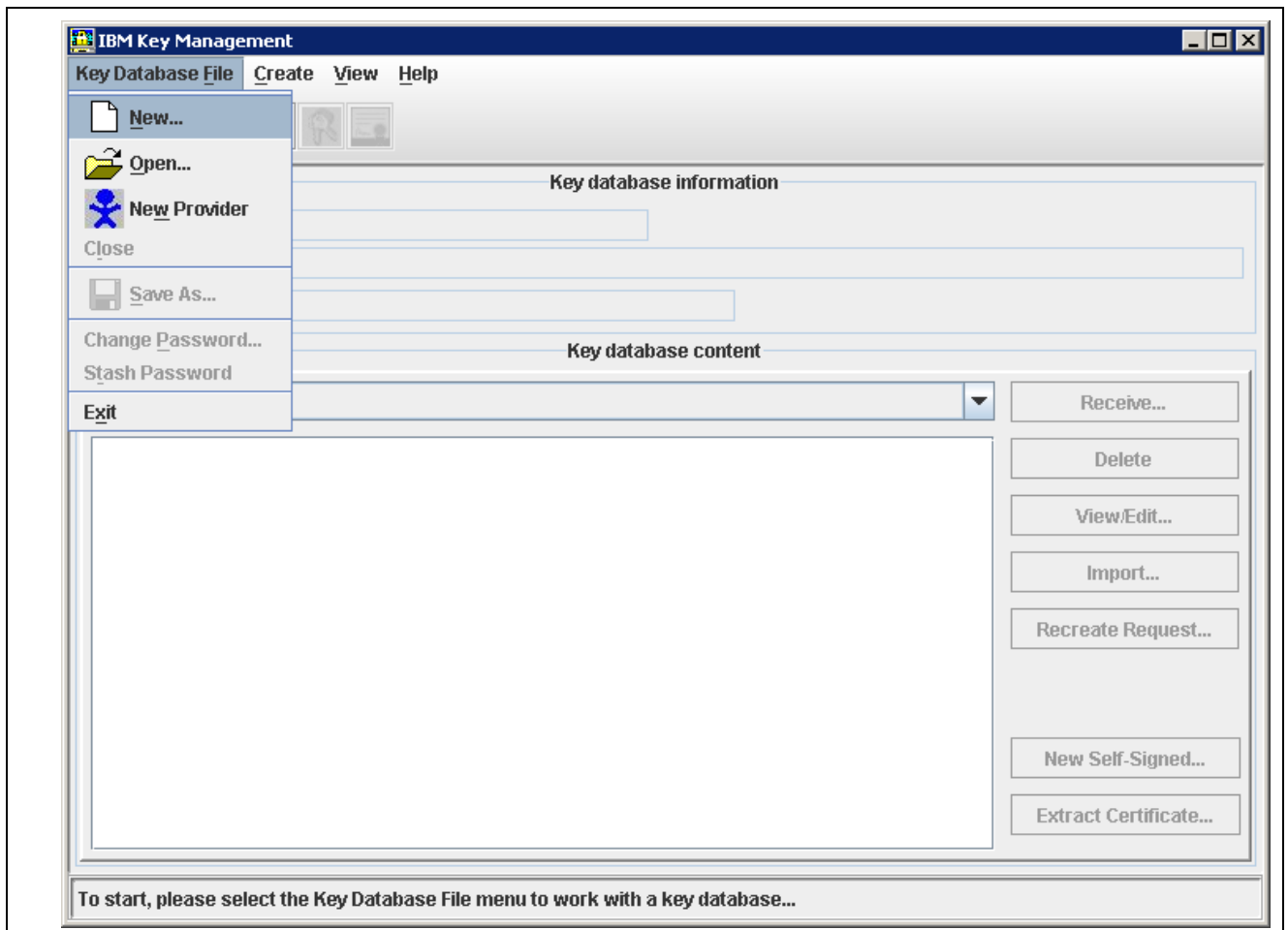
---

**Note.** Use Windows X reflection tool to invoke ikeyman in GUI mode

---

```
WAS_HOME/AppServer/bin/ikeyman.sh
```

- Select Key Database File, Open.

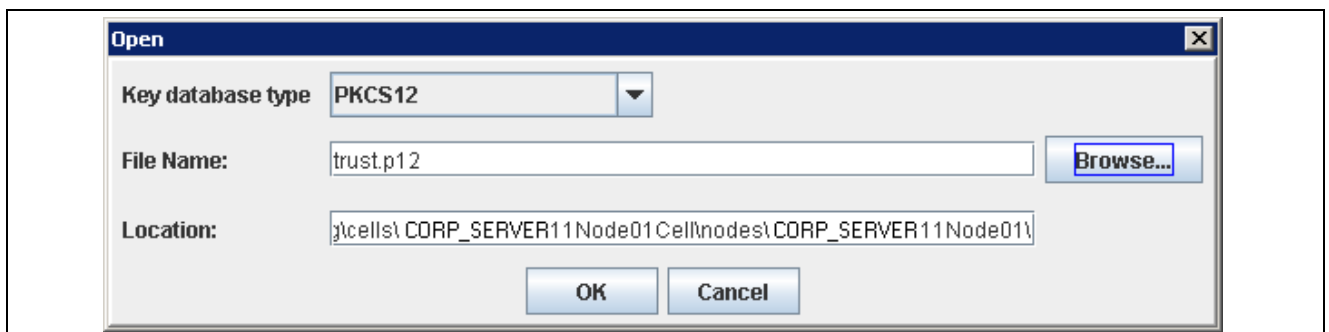


IBM Key Management dialog box

9. Browse to the trust.p12 file.

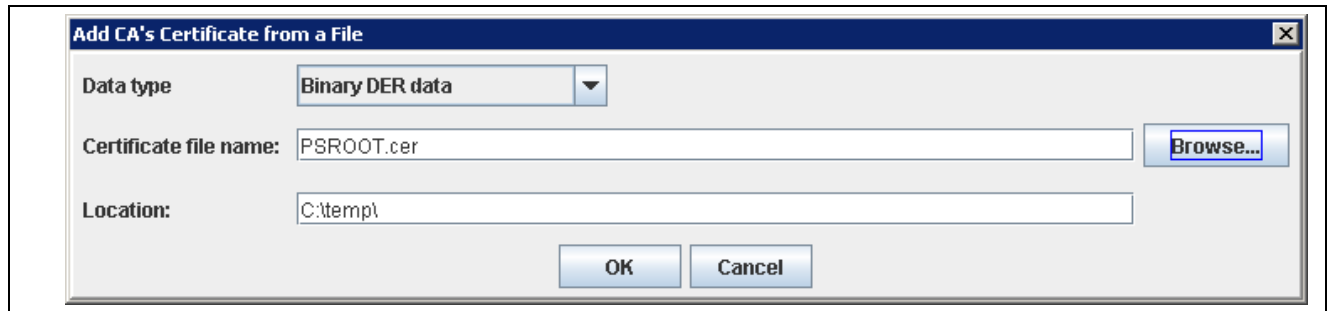
When you browse to and open the file, there will be a prompt to enter a password. Enter the password of the key database file.

**Note.** The file is found in the path listed on the NodeDefaultTrustStore page in a previous step.



Selecting the trust file

10. Click the Add button, and browse to find the PeopleSoft certificate you saved in *CERTIFICATE\_DIR*.



Selecting the PeopleSoft certificate

11. Click OK, and enter any label at the Enter a Label prompt.
12. Save the trust store file.
13. Restart IBM WebSphere.

## Task 16-4-21: Configuring the SAP BusinessObjects Enterprise XI 3.1 Server

This section discusses:

- Entering License Keys for the SAP BusinessObjects Enterprise XI 3.1 Server
- Entering the PeopleSoft Authentication Information into the SAP BusinessObjects Enterprise XI 3.1 Server

### Entering License Keys for the SAP BusinessObjects Enterprise XI 3.1 Server

To enter the license keys for SAP BusinessObjects Enterprise XI 3.1:

See Planning your SAP BusinessObjects Enterprise XI 3.1 Components, Understanding SAP BusinessObjects Enterprise XI 3.1 License Keys.

1. In a browser, enter the following URL, substituting the name of your SAP BusinessObjects Enterprise XI 3.1 server for <machine\_name>, and the SAP BusinessObjects Enterprise XI 3.1 port number for <BOE\_port>:

`http://<machine_name>:<BOE_port>/CmcApp.`

---

**Note.** You can also click the Webserver Ping button on the BOE administrator page to open the Central Manager Console.

---

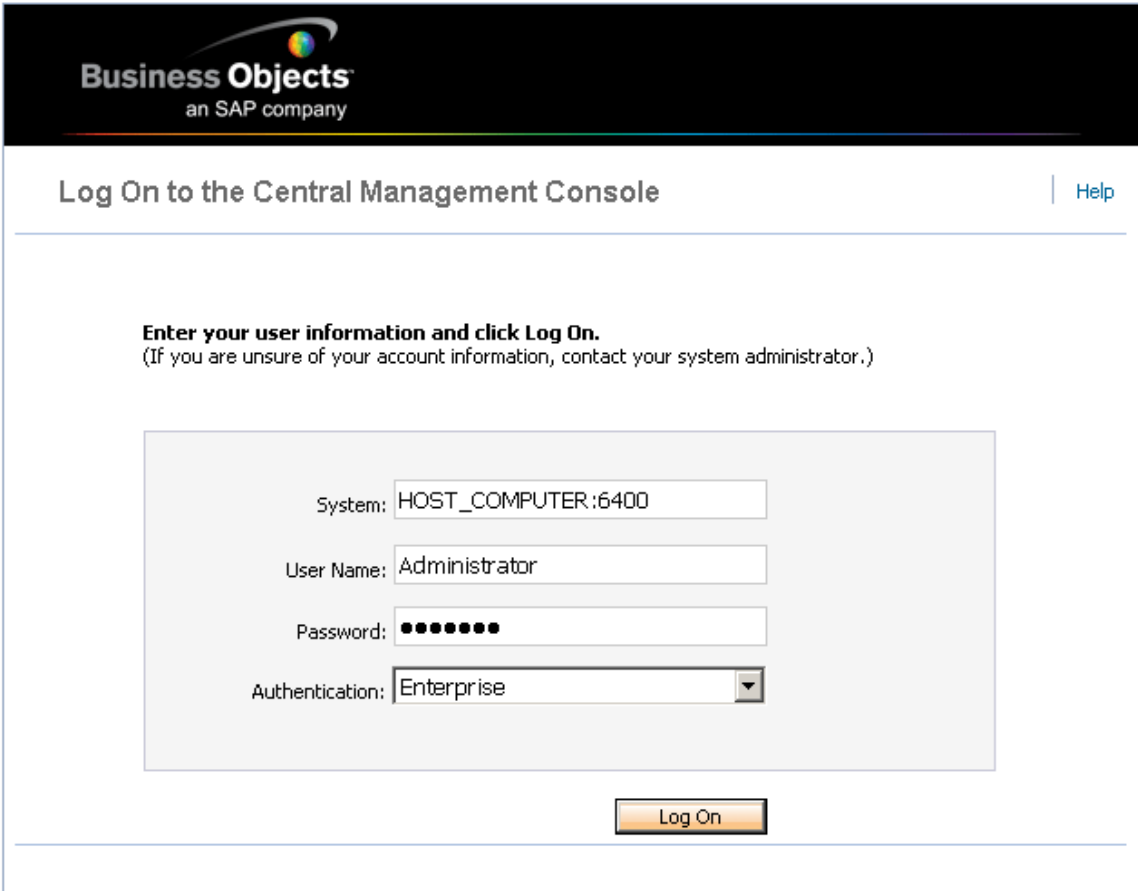
2. Log in using Administrator as the User name and the associated password:

---

**Note.** This is the password you assigned to the Administrator account on the Server Components Configuration window when installing SAP BusinessObjects Enterprise XI 3.1.

---

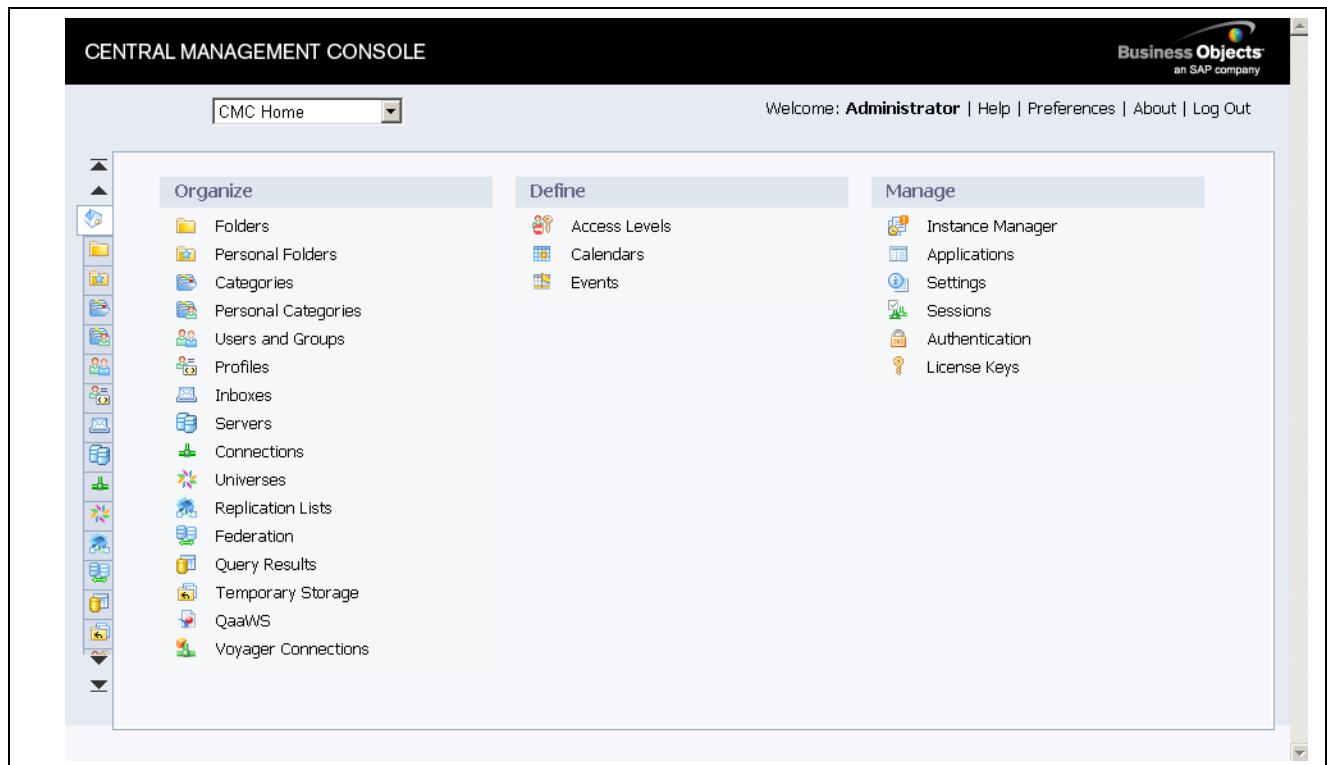




The image shows a web-based login interface for Business Objects. At the top, there is a black header with the Business Objects logo and the text "an SAP company". Below the header, the main content area has a title "Log On to the Central Management Console" and a "Help" link. The instructions state: "Enter your user information and click Log On. (If you are unsure of your account information, contact your system administrator.)". The login form contains four fields: "System" with the value "HOST\_COMPUTER:6400", "User Name" with the value "Administrator", "Password" with masked characters, and "Authentication" with a dropdown menu set to "Enterprise". A "Log On" button is located at the bottom right of the form.

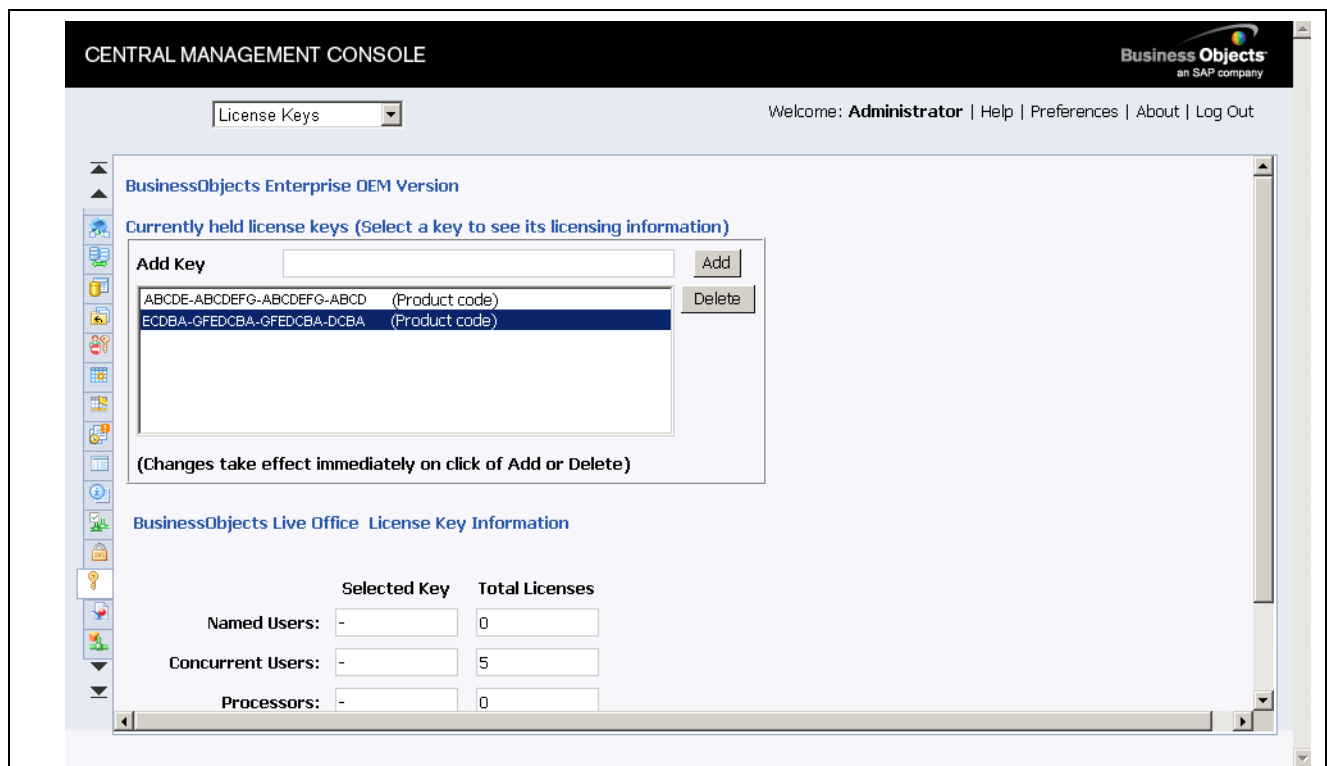
BusinessObjects Enterprise log in window

3. Select License Keys.



Central Management Console home page

4. Enter your license key in the Add Key box and click Add.



Central Management Console License Keys page

## Entering the PeopleSoft Authentication Information into the SAP BusinessObjects Enterprise XI 3.1 Server

This procedure assumes you logged into the SAP BusinessObjects Enterprise XI 3.1 Central Management Console in the previous step.

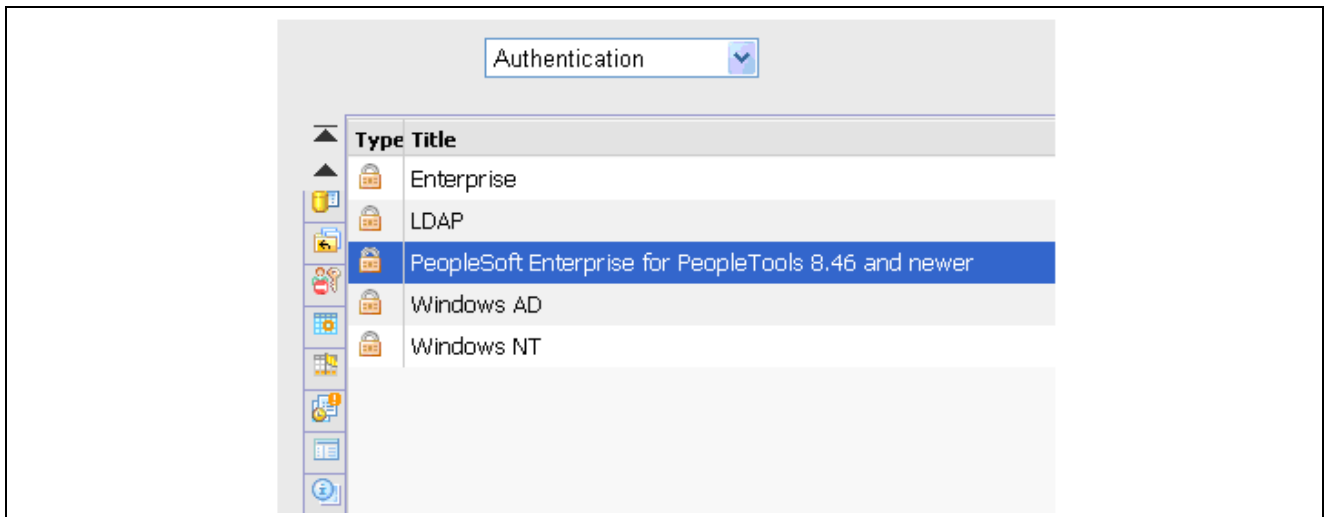
To enter PeopleSoft authentication information in SAP BusinessObjects Enterprise XI 3.1:

1. On the CMC home page, click the Authentication button.
2. Double-click the PeopleSoft Enterprise link.

---

**Note.** If this link is not present, it means the PeopleSoft Integration Kit has not been installed.

---



BusinessObjects Enterprise XI 3.1 Authentication page

3. Select the Domain tab.

The PeopleSoft Enterprise page appears.

**CENTRAL MANAGEMENT CONSOLE** Business Objects

**PeopleSoft Enterprise** ? □ ×

Options Domains Roles

**PeopleSoft Enterprise System User**

User Name:

Password:

**PeopleSoft Enterprise Domains**

Domain Name:

QAS Address:

Current Domains:

Default Domain:

PeopleSoft Enterprise System User page

Enter the following information:

- In the PeopleSoft Enterprise System User field, enter *BOE\_Admin* as the user, and enter the password that you assigned to the *BOE\_Admin* user in the BOE Integration Administration page.

See Adding PeopleSoft Users and Roles.

- In the Domain Name field, enter the domain name which you entered in the BOE Integration Administration page.

See Adding PeopleSoft Users and Roles.

- In the QAS Address field, enter the secure Target Location (HTTPS) that you entered on the Service Configuration page when configuring Integration Broker.

See Updating the PeopleSoft Integration Broker Gateway.

- In the Default Domain field, you can enter any domain configured in the PeopleSoft Enterprise Domains field, Current Domains section.

4. Click the Add button to add the domain to the list.
5. Click Update.

## 6. Select the Options tab.

The screenshot shows the 'PeopleSoft Enterprise' configuration window with the 'Options' tab selected. The window has a title bar 'PeopleSoft Enterprise' and three tabs: 'Options', 'Domains', and 'Roles'. The 'Options' tab is active and contains the following sections:

- PeopleSoft Enterprise Authentication**
  - ☒ Enable PeopleSoft Enterprise Authentication
- New Alias Options**
  - ☒ Assign each added alias to an account with the same name
  - ☐ Create a new account for every added alias
- Update Options**
  - ☒ New aliases will be added and new users will be created
  - ☐ No new aliases will be added and new users will not be created
- New User Options**
  - ☒ New users are created as named users
  - ☐ New users are created as concurrent users

Options tab

Select the following options:

- Verify that the option Enable PeopleSoft Enterprise Authentication is selected.
- New Alias Options

Select Choice 1: Assign each added PeopleSoft Enterprise alias to an account with the same name

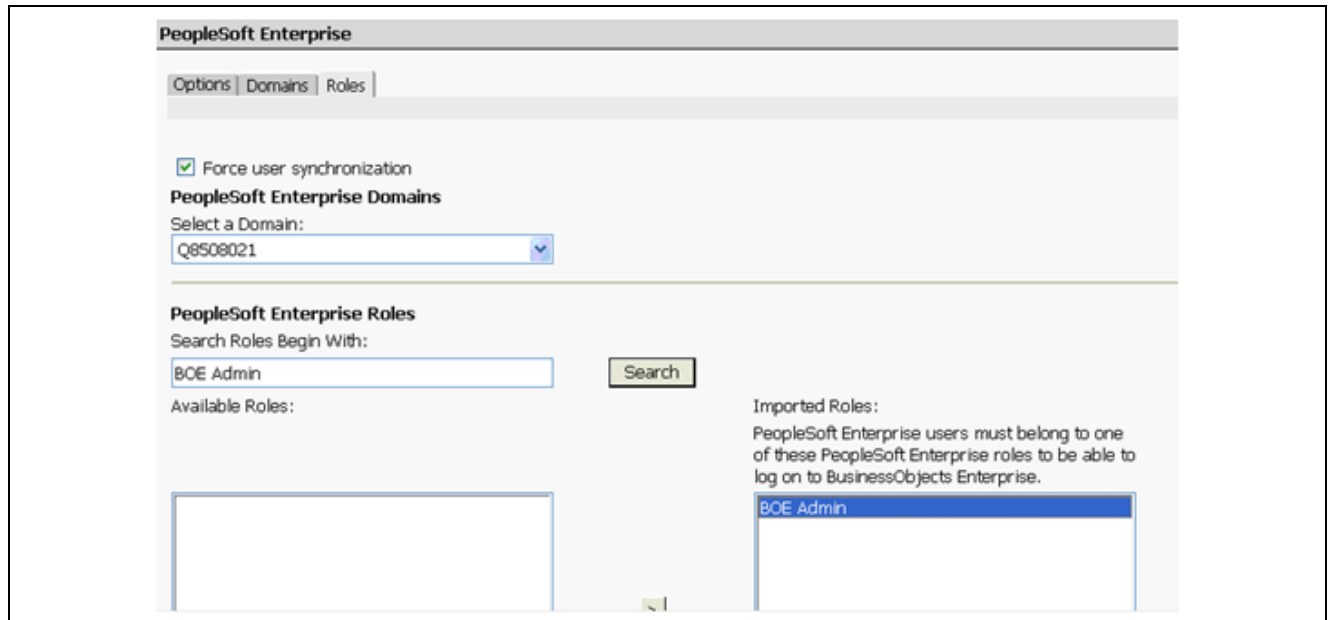
- Update Options

Select Choice 1: New aliases will be added and new users will be created

- New User Options

Select Choice 1: New users are created as *named* users

## 7. Select the Roles tab.



Roles tab

- a. Under PeopleSoft Enterprise Domains, select each domain configured.
- b. Under PeopleSoft Enterprise Roles, search for role BOE Admin.
- c. Click the Add button to add each role to the selected domain.
- d. Click the Update button.

**Note.** Clicking the Update button should result in a new Authentication Type of PeopleSoft Enterprise as shown in the Authentication Type drop-down list when you log in to the Central Management Console. Also, User Ids from the PeopleSoft database with the given roles will automatically be added into SAP BusinessObjects Enterprise XI 3.1.

8. Select the Options tab, and select the following options:
  - Verify that the option Enable PeopleSoft Enterprise Authentication is selected.
  - New Alias Options
 

Select Choice 1: Assign each added PeopleSoft Enterprise alias to an account with the same name
  - Update Options
 

Select Choice 1: New aliases will be added and new users will be created
  - New User Options
 

Select Choice 2: New users are created as *concurrent* users
9. Select the Roles tab.
  - a. Under PeopleSoft Enterprise Domains, select each domain configured.
  - b. Under PeopleSoft Enterprise Roles, search for role BOE Viewing.
  - c. Click the Add button to add each role to the selected domain.
  - d. Click the Update button.

**Note.** Clicking the Update button should result in a new Authentication Type of PeopleSoft Enterprise as shown in the Authentication Type drop-down list when you log in to the Central Management Console. Also, User Ids from the PeopleSoft database with the given roles will automatically be added into SAP BusinessObjects Enterprise XI 3.1.

10. Click the log-off button on the right top and re-log in again with user BOE\_Admin and PeopleSoft Enterprise as Authentication Type.

Verifying configuration on log in dialog box

You have completed the installation and configuration.

## Task 16-4-22: Configuring SAP Crystal Reports 2008 or Crystal Reports 2011 for SAP BusinessObjects Enterprise XI 3.1

The prerequisites for this configuration are:

- SAP Crystal Reports 2008 or Crystal Reports 2011 must be installed.  
See Installing SAP Crystal Reports.
- BusinessObjects XI Integration Kit for PeopleSoft must be installed.  
See Installing BusinessObjects Integration Kit for PeopleSoft for Windows.

See Installing BusinessObjects Integration Kit for PeopleSoft on UNIX or Linux.

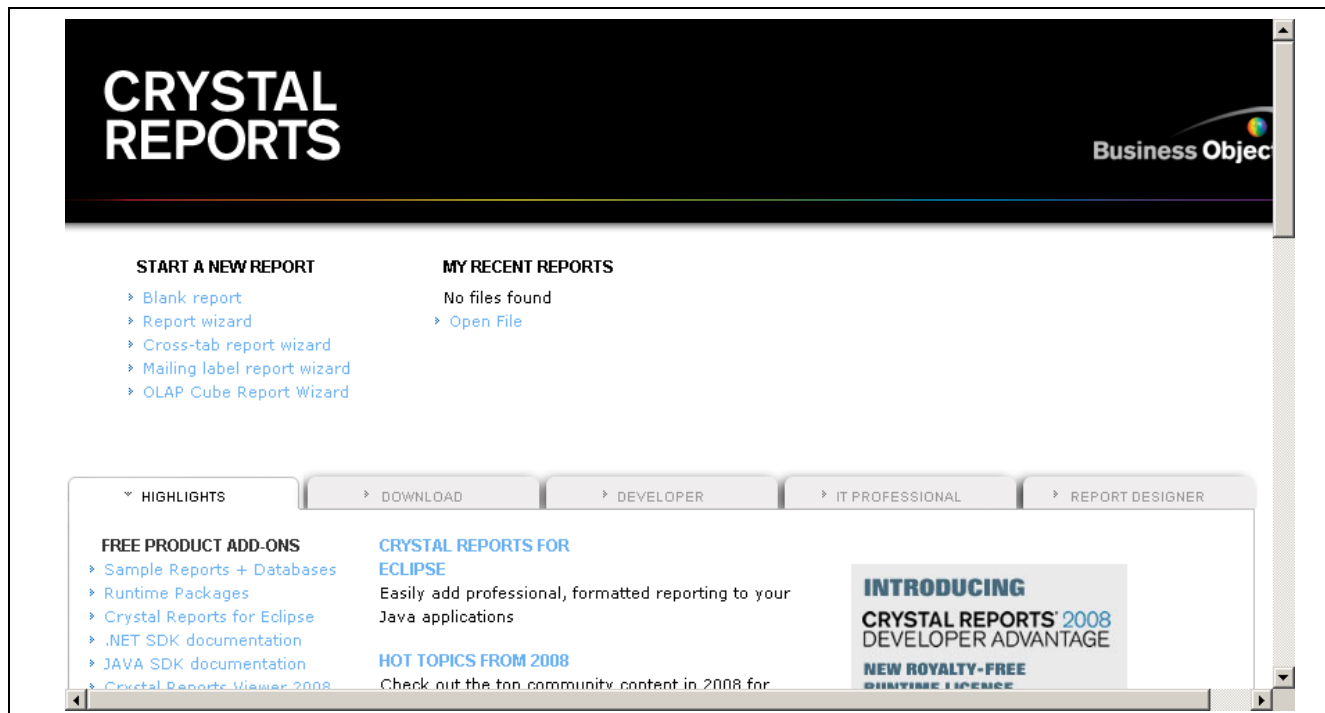
- Integration Broker and QAS must be configured.

See Configuring the PeopleSoft Application for SAP BusinessObjects Enterprise XI 3.1 Integration.

This procedure uses SAP Crystal Reports 2008 as an example. To configure SAP Crystal Reports 2008:

1. Select Start, Programs, Crystal Reports 2008, Crystal Reports 2008.

Crystal Reports 2008 opens in a browser.

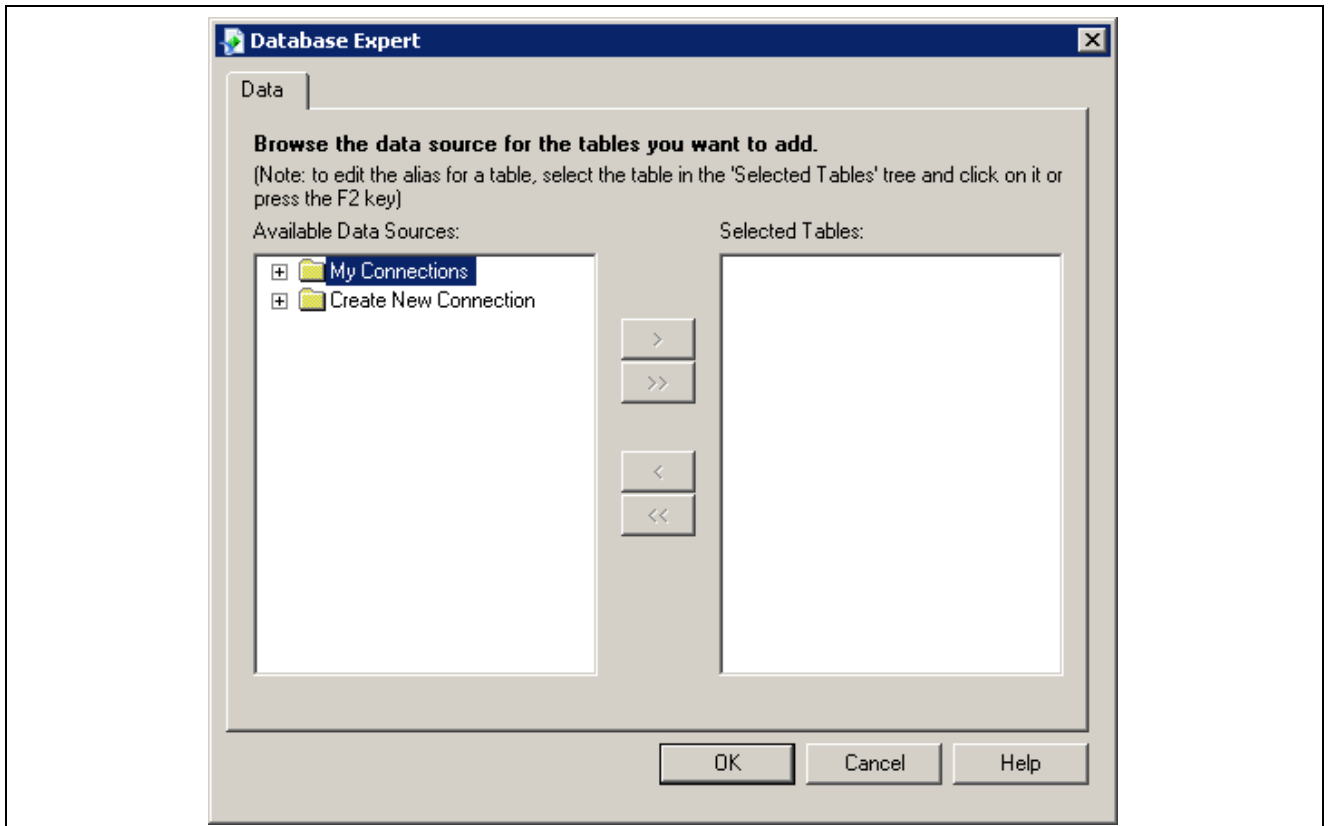


Crystal Reports home page

2. Select the Blank report link.

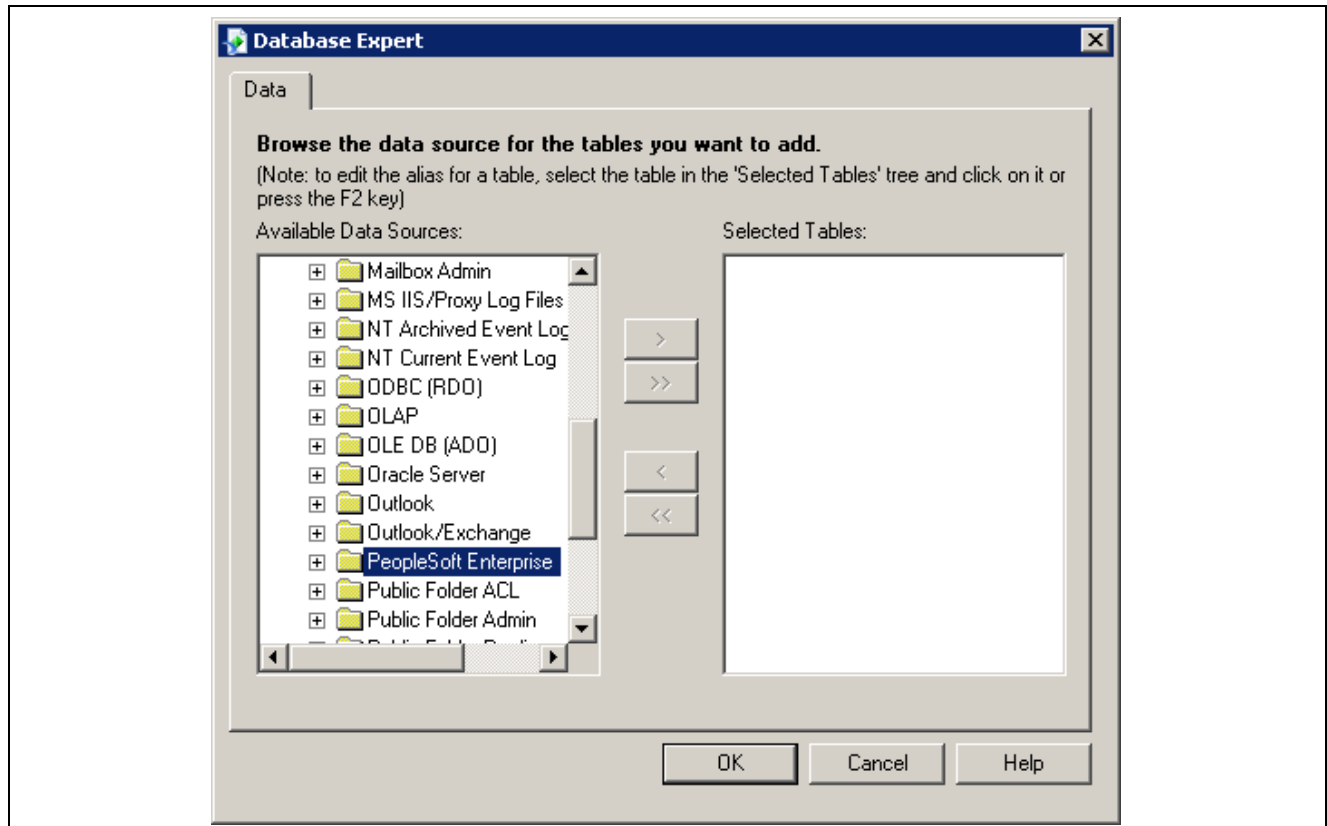
The Database Expert dialog box appears.





Database Expert dialog box

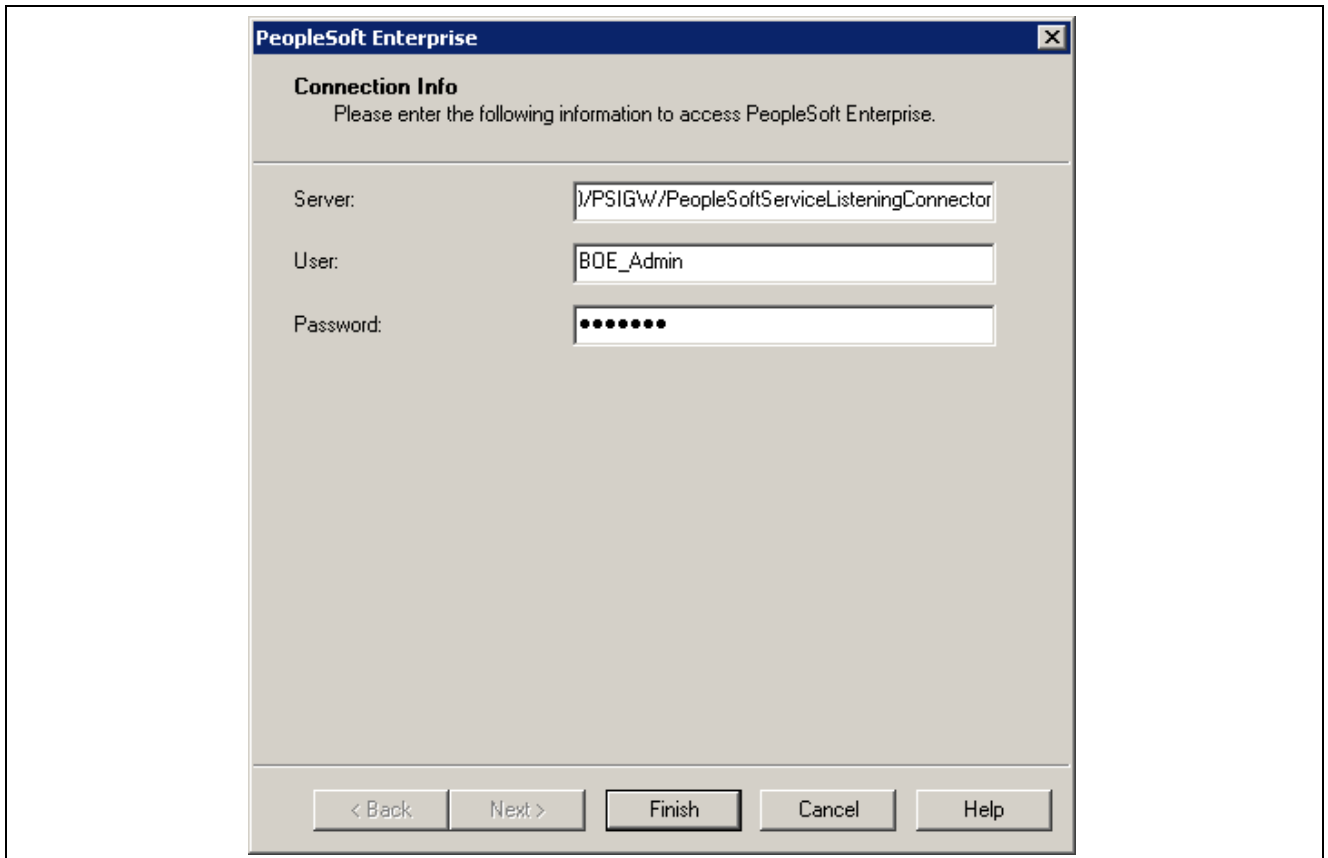
3. Expand Create New Connection in the Available Data Sources list, and then expand PeopleSoft Enterprise.



Selecting PeopleSoft Enterprise on the Database Expert

The Connection Info dialog box appears.

4. Enter the QAS endpoint URL for the Server and provide the User and Password.



Connection Info dialog box

5. Click Finish.

## Task 16-4-23: Modifying the SAP BusinessObjects Enterprise XI 3.1 Chunk Size

Before you run any reports with SAP BusinessObjects Enterprise XI 3.1, Oracle recommends that you change the chunk size that BusinessObjects Enterprise uses to a larger value, in order to facilitate faster processing.

---

**Note.** This procedure includes changes to the system registry file. Exercise caution when making changes to the registry. It is a good idea to make a back up file before making changes.

---

To change the default chunk size on Microsoft Windows:

1. Open the Microsoft Windows registry and navigate to:  
HKEY\_LOCAL\_MACHINE\SOFTWARE\Software\Business Objects\Suite 12.0\Integration Kit for PeopleSoft Enterprise
2. Edit the registry key “Chunk Size” to change the value from the default, 1000, to 20000.
3. Restart all SAP BusinessObjects Enterprise XI 3.1 servers.

To change the default chunk size on UNIX:

1. Navigate to *BOE\_HOME*/bobje/data/.bobj/registry/software/business objects/suite 12.0/integration kit for peoplesoft enterprise
2. Edit the .registry file.

Set Chunk Size as "Chunk Size"="20000", and save the file.

3. Restart all SAP BusinessObjects Enterprise XI 3.1 servers.

## Task 16-4-24: Verifying the PeopleSoft to SAP BusinessObjects Enterprise XI 3.1 Integration

Use these tests to ensure that the various features of SAP BusinessObjects Enterprise XI 3.1 are functional:

---

**Note.** Prior to running your verification tests, you need to convert your Crystal Reports from Crystal 2008 or Crystal 2011 format to Crystal XI format. See *Converting Crystal Reports* for details.

---

1. Schedule and run a Crystal Report.
  - a. Log in to the PeopleSoft application as a user who has the authority to run report XRFWIN.
  - b. Select PeopleTools, Process Scheduler, System Process Request.
  - c. Select the Add New Value tab.
  - d. Enter a new run control ID of BOETEST, and click the Add button.  
Click the Run button in the Process Request dialog box.
  - e. Select an active process scheduler server.
  - f. Select the check box next to the crystal report XRFWIN.
  - g. Select *Web* for the type and *CR RPT* for the format.
  - h. Click OK to run the report. It should generate a process instance id.
2. View Report output in InfoViewer.
  - a. Using the Process Instance ID, ensure the process runs to completion in process monitor.
  - b. Select Reporting Tools, Report Manager, and select the Administration tab.
  - c. Search for the report using the process instance id generated in the previous step.
  - d. Click the Details link next to the report, then the .RPT link to view the report in the SAP BusinessObjects Enterprise XI 3.1 report viewer.

---

## Task 16-5: Migrating your SAP BusinessObjects Enterprise XI 3.1 Installation to a New Version of PeopleTools

You must complete several steps in order to ensure that your new version of PeopleSoft PeopleTools integrates properly with an SAP BusinessObjects Enterprise XI 3.1 installation.

---

**Important!** If you fail to perform these steps in the correct order, you could compromise the installation.

---

---

**Note.** You can also use this procedure if you need to delete a PeopleSoft domain from the SAP BusinessObjects Enterprise XI 3.1 CMC for any reason.

---

1. Delete all PeopleSoft Users from the SAP BusinessObjects Enterprise XI 3.1 server as follows:

- a. Login to the Central Management Console.
  - b. Select USERS from the navigation drop-down list and click the GO button.
  - c. Select the options next to all PeopleSoft Users (not administrator or guest) and delete them.
2. Delete Roles in the SAP BusinessObjects Enterprise XI 3.1 server:
  - a. Login to the Central Management Console.
  - b. Select the PeopleSoft Authentication tab.
  - c. Delete All the roles.
  - d. Click Update.
3. Delete the Domains:
  - a. Delete All the Domains and click Update.
  - b. Click LOGOFF.
  - c. Log back in to the Central Management Console and verify all that the roles and domains are gone.
4. Stop the SAP BusinessObjects Enterprise XI 3.1 Web Server and all the SAP BusinessObjects Enterprise XI 3.1 services.
5. Uninstall the PeopleSoft Integration for SAP BusinessObjects Enterprise XI 3.1 from the server.

This is the integration that was installed for the old version of PeopleSoft PeopleTools.
6. Install the PeopleSoft Integration for SAP BusinessObjects Enterprise XI 3.1 for the new version of PeopleSoft PeopleTools.
7. Run the verification steps in the task Installing SAP BusinessObjects Enterprise XI 3.1, Verifying the PeopleSoft to SAP BusinessObjects Enterprise XI 3.1 Integration.

---

## Task 16-6: Administering and Using SAP BusinessObjects Enterprise XI 3.1

This section discusses:

- Understanding PeopleSoft Permission Lists, Roles, and Users Involved in PeopleSoft Integration with SAP BusinessObjects Enterprise XI 3.1
- Changing the Data Source of the SAP BusinessObjects Enterprise XI 3.1 Report Repository
- Returning to SAP Crystal Reports from SAP BusinessObjects Enterprise XI 3.1
- Enabling Logging in SAP BusinessObjects Enterprise XI 3.1
- Deploying Manually with Wdeploy Tool
- Deploying Manually Through IBM WebSphere Console
- Deploying Manually on Oracle WebLogic 10.3
- Configuring Microsoft Office 2010 to Read Crystal Reports

## Understanding PeopleSoft Permission Lists, Roles, and Users Involved in PeopleSoft Integration with SAP BusinessObjects Enterprise XI 3.1

Certain PeopleSoft permission lists, roles, and users are necessary in order to have your PeopleSoft application integrate with SAP BusinessObjects Enterprise XI 3.1. To run SAP BusinessObjects Enterprise XI 3.1 the following need to be present in the PeopleSoft database and then referenced in the appropriate places (described in the installation instructions) in both the PeopleSoft application and SAP BusinessObjects Enterprise XI 3.1:

- PeopleSoft Permission Lists
- PeopleSoft Roles
- PeopleSoft Users IDs

The Permission Lists and Roles are added to the PeopleSoft database when you copy the CRTOBOE project from file and run the CRTOBOE Data Mover script. The PeopleSoft users must be created manually.

---

**Note.** You should use the objects (that is, permission list and roles) as delivered. Do not rename them, delete them or otherwise alter them. This will only complicate and possibly compromise your installation.

---

### *PeopleSoft Permission Lists:*

The following Permission Lists are inserted into the PeopleSoft database when you copy the project CRTOBOE from file:

- PTPT2200

This is the “QAS Access” permission list. It provides permission to a number of web services related to Query Access Services (QAS).

This permission list is used only by the “QAS Admin” role. When the role is created, this association is already defined.

- PTPT2300

This is the “BOE Viewing” permission list.

### *PeopleSoft Roles*

The three roles listed here work hand-in-hand with the three PeopleSoft users that you need to create. The following Roles are inserted into the PeopleSoft database when you copy the project CRTOBOE from file:

- “QAS Admin”

This role is associated with the QAS\_Admin and BOE\_Admin user IDs. This role (through the permission list associated with it) allows users associated with the role to make QAS web-service calls. Note that the name of this role *cannot* be changed, as it is hardcoded into the QAS web service implementation. Any PeopleSoft user ID that will run Crystal Reports using SAP BusinessObjects Enterprise XI 3.1 must have the QAS Admin role associated with it

- “BOE Admin”

This role is associated with the BOE\_Admin user ID (which is configured in the PeopleSoft BusinessObjects Enterprise PIA page).

- “BOE Viewing”

This role is associated with the BOE\_Viewing user ID (which is configured in the PeopleSoft BusinessObjects Enterprise PIA page).

*PeopleSoft Users*

You will have to create 3 PeopleSoft users in the PeopleSoft database. They work hand-in-hand with the three PeopleSoft roles described above. For ease of supportability we strongly suggest that you create the users with exactly the names specified. The users are:

- **BOE\_Admin**

This user is used:

- to run the Crystal 2008 or Crystal 2011 to Crystal XI report convert/publish utility
- by Process Scheduler to run reports in SAP BusinessObjects Enterprise XI 3.1
- to make QAS web service calls to the PeopleSoft application from BusinessObjects Enterprise. It is known only within the PeopleSoft application. SAP BusinessObjects Enterprise XI 3.1 is not aware of this user.

This user is specified in the PeopleSoft BusinessObjects Enterprise PIA configuration page. The user will be created in SAP BusinessObjects Enterprise XI 3.1 automatically by specifying its corresponding role (that is, “BOE Admin”) in that application. This user is considered a named user in BusinessObjects Enterprise. Additionally, this user must also be in the SAP BusinessObjects Enterprise XI 3.1 administrators group.

- **BOE\_Viewing**

PeopleSoft Report Manager logs in to SAP BusinessObjects Enterprise XI 3.1 InfoViewer as this user in order to permit viewing dynamic report output. This user is specified in the PeopleSoft BusinessObjects Enterprise XI 3.1 PIA configuration page.

The user will be created automatically in SAP BusinessObjects Enterprise XI 3.1 by specifying its corresponding role (that is, “BOE Viewing”) in that application.

This user id is a concurrent user in SAP BusinessObjects Enterprise XI 3.1, which means that each time it logs into SAP BusinessObjects Enterprise XI 3.1 it will use a BOE concurrent access license.

Please note that multiple end-users (that is, real people) accessing reports concurrently in the BusinessObjects Enterprise XI 3.1 InfoViewer via the PeopleSoft Report Manager will appear from the perspective of the BusinessObjects XI InfoViewer to be concurrent logins from the same user – BOE\_Viewing.

## **Task 16-6-1: Changing the Data Source of the SAP BusinessObjects Enterprise XI 3.1 Report Repository**

This section discusses:

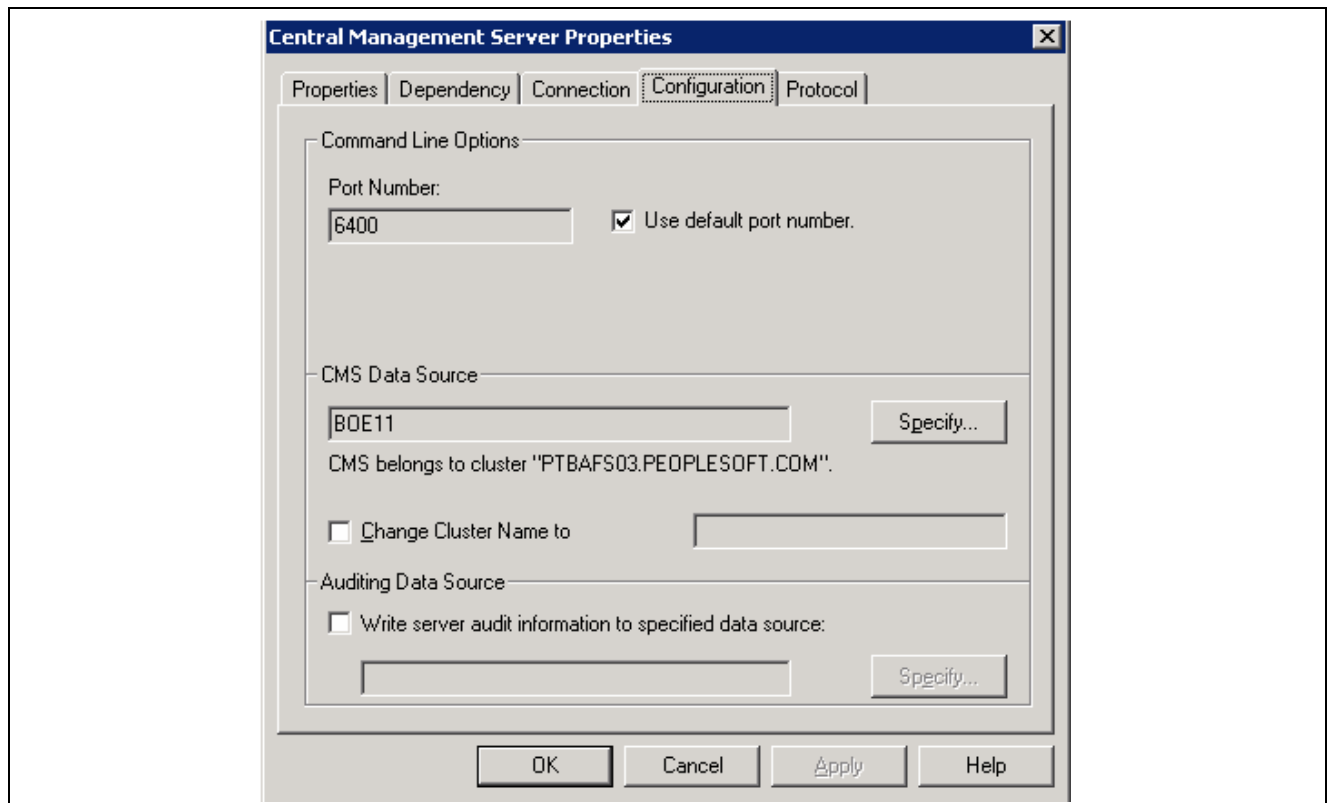
- Changing the Data Source on Windows
- Changing the Data Source on UNIX or Linux

### **Changing the Data Source on Windows**

Use the steps in this section if you want to change the data source after you have completed the installation and integration.

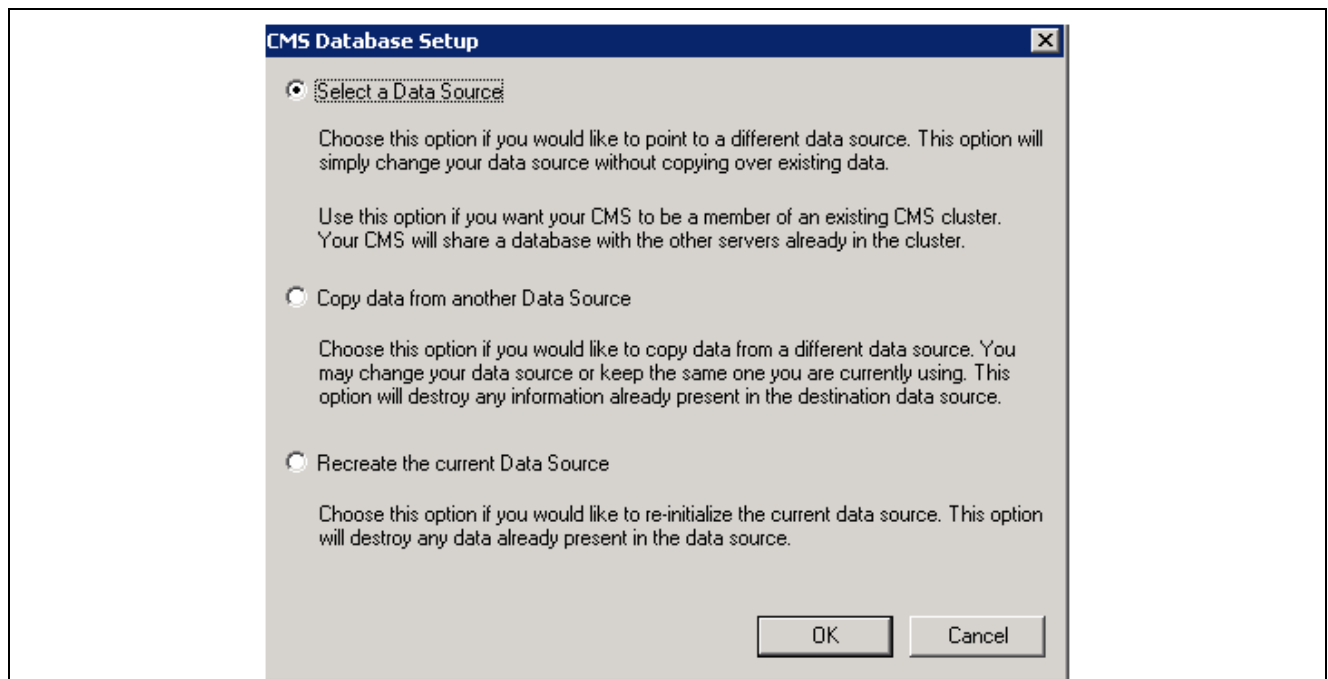
1. Select Start, Programs, Business Objects XI, Business Objects Enterprise, Central Configuration Manager.
2. Right-click the Central Management Server and choose the Stop option.
3. Right-click the Central Management Server and select Properties.
4. Select the Configuration tab.

5. Click the Specify button in the CMS Data Source area.



Central Management Server Properties dialog box: Configuration tab

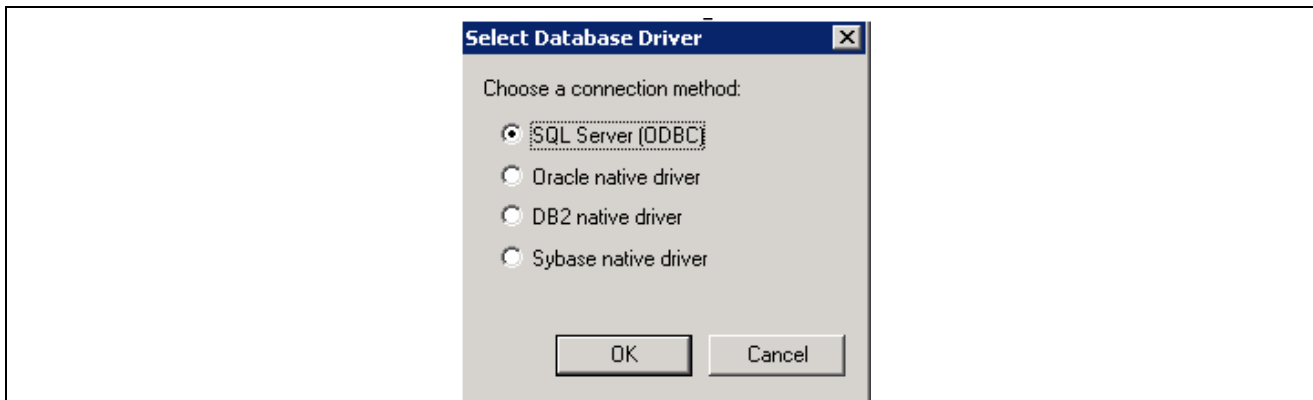
6. Select the radio button Select a Data Source and click OK.



CMC Database Setup window



- Specify whether you want to connect to the production CMS database through ODBC or through one of the native drivers, and then click OK.



Select Database Driver dialog box

- If you select ODBC, the Windows “Select Data Source” dialog box appears.  
Select the ODBC data source that corresponds to your CMS database; then click OK. If prompted, provide your database credentials and click OK.
  - If you select a native driver, you are prompted for your database server name, user id and password.
- Click OK.  
The SvcMgr dialog box notifies you when the CMS database setup is complete.
  - Start the Central Management Server.

## Changing the Data Source on UNIX or Linux

Use the steps in this section if you want to change the data source after you have completed the installation and integration.

- Use the script `ccm.sh` to stop the Central Management Server.
- Run `cmsdbsetup.sh`.  
When prompted, enter the CMS name or press Enter to select the default one.
- Type 6 in order to specify source CMS.
- Select the type of database connection.
- Enter the database server name, user ID and password.
- The script notifies you when the setup is complete.

## Task 16-6-2: Returning to SAP Crystal Reports from SAP BusinessObjects Enterprise XI 3.1

Use the instructions in this section if you need to switch your environment to run Crystal Reports using the SAP Crystal Reports 2008 or Crystal Reports 2011 runtime instead of the SAP BusinessObjects Enterprise XI 3.1 server.

To switch from using SAP BusinessObjects Enterprise XI 3.1 to SAP Crystal Reports:

- Run the DMS script `boetocr.dms` in `PS_HOME\scripts`.
- Run the project `BOETOCR` in `PS_HOME\projects`.

Running this script and project will change your delivered Crystal process type back to use SAP Crystal Reports.

---

**Note.** This will not change any process types that you created.

---

You cannot run any reports converted to SAP BusinessObjects Enterprise XI 3.1 format using SAP Crystal Reports. You have to run your original Crystal reports.

## Task 16-6-3: Enabling Logging in SAP BusinessObjects Enterprise XI 3.1

This section discusses:

- Enabling SAP BusinessObjects Enterprise XI 3.1 Server Logging
- Enabling Security Plug-in Logging
- Enabling SAP BusinessObjects Enterprise XI 3.1 Services Tracing

### Enabling SAP BusinessObjects Enterprise XI 3.1 Server Logging

Each of the SAP BusinessObjects Enterprise XI 3.1 servers is designed to log messages to your operating system's standard system log.

*Windows:*

SAP BusinessObjects Enterprise XI 3.1 logs to the Event Log service. You can view the results with the Event Viewer (in the Application Log).

*UNIX or Linux:*

SAP BusinessObjects Enterprise XI 3.1 logs to the syslog daemon as a User application. Each server prepends its name and PID to any messages that it logs.

Each server also logs assert messages to the logging directory of your product installation. The programmatic information logged to these files is typically useful only to Business Objects support staff for advanced debugging purposes. The location of these log files depends upon your operating system:

- On Windows, the default logging directory is C:\Program Files\Business Objects\BusinessObjects Enterprise 12.0\Logging.
- On UNIX, the default logging directory is the *BOE\_HOME*/bobje/logging directory of your installation.

---

**Note.** The log files are cleaned up automatically, so there will never be more than approximately 1 MB of logged data per server.

---

For more information on logging SAP BusinessObjects Enterprise XI 3.1 server activity consult the BusinessObjects Enterprise administration guide.

### Enabling Security Plug-in Logging

The procedure to turn on security plug-in logging varies by operating system.

---

**Note.** Return the log mode to a value of 0 when you do not need logging. Performance will be impacted otherwise.

---

- *Windows:*

To turn on logging, edit the Windows registry.

```
HKLM\SOFTWARE\BusinessObjects\12.0\BusinessObjects Enterprise for PeopleSoft⇒
Enterprise
Log Mode REG_SZ
```

- a. Change the Log Mode value from 0 to 1.
- b. Restart all the BusinessObjects Enterprise services.

This will then generate log files in the directory specified in Path Log. You may want to clean up that directory first, if logging had been turned on before.

- *UNIX or Linux:*

To turn on logging you need to update the Log Mode setting in the registry file.

The registry file is located at: *BOE\_HOME*/bobje/data/.bobj/registry

- a. Open the file in a text editor and set the value of "Log Mode" to "1".
- b. Restart all the BusinessObjects Enterprise services. This will turn on the driver/security plug-in tracing.

## Enabling SAP BusinessObjects Enterprise XI 3.1 Services Tracing

It is also possible to turn on tracing for the SAP BusinessObjects Enterprise XI 3.1 services. This involves updating the command line for each of the services and adding `-trace` at the end.

Remove the `-trace` from the command line after your testing is complete as it can cause performance issues with the servers because of the large number of log files created.

### *Windows*

1. Log on to the Central Manager Console with an account with administrative privileges.
2. Select Servers.
3. Highlight the server you would like to enable tracing on and click the Stop button.
4. Double-click the server, add `-trace` to the command line parameters, and click the Start button.

Completing these steps will enable advanced logging on a Crystal Enterprise, Crystal Reports Server, or SAP BusinessObjects Enterprise XI 3.1 server. You can find the logs in the following directory:

*BOE\_HOME*\\BusinessObjects Enterprise 12.0\\Logging

### *UNIX or Linux:*

1. Go to the *BOE\_HOME*/bobje directory.
2. Open the file `ccm.config` for editing.
3. Add “-trace” at the end of the lines for those servers where you want to enable logging, and save the file.
4. Restart all servers.

You can find the log files in the following directory:

*BOE\_HOME*/bobje/logging

## Task 16-6-4: Deploying Manually with Wdeploy Tool

Use the wdeploy tool found in *BOE\_HOME*\deployment to manually deploy the war files to the web server. On Microsoft Windows, the tool is wdeploy.bat. If you are running on UNIX or Linux, substitute wdeploy.sh in the following steps. If your web server is on IBM WebSphere, substitute the appropriate version, websphere6 or websphere7, for websphere<version> in the following steps.

To use manual deployment:

1. Go to *BOE\_HOME*\deployment and locate the wdeploy configuration file corresponding to the web server that you installed.
2. Open the file in a text editor and make the changes detailed in the next steps.
3. If you are using Oracle WebLogic, the file is config.weblogic10.

Update the following items:

- as\_admin\_port: Administration port of the application server (for example 7001).
- as\_admin\_username: WebLogic administrator account username (for example *weblogic*).
- as\_admin\_password: WebLogic administrator account password (for example *password*).
- as\_instance: The name of your WebLogic application server instance (for example *AdminServer*).
- as\_domain\_dir: WebLogic domain directory (for example *C:\bea\weblogic10\user\_projects\domains\base\_domain*).

4. If you are using IBM WebSphere, the file is config.websphere<version>.

Update the following items:

- as\_soap\_port: SOAP port for application server administration. If not set, the default SOAP port will be used (for example 8880).
- as\_admin\_username: WebSphere administrator account username (for example *websphere*).
- as\_admin\_password: WebSphere administrator account password (for example *password*).
- as\_instance: The name of your WebSphere application server instance (for example *server1*).
- as\_virtual\_host: The virtual host to which the application must be bound (for example *default\_host*).
- as\_admin\_is\_secure: Instructs wdeploy that WebSphere security is enabled (for example *true*).
- as\_dir: WebSphere installation directory (for example *"C:\Program Files\IBM\WebSphere\AppServer"*).
- enforce\_file\_limit: Indicates to wdeploy whether or not the web application server may encounter issues loading applications that contain more than 65,535 files (for example *true*).

5. In a command prompt, go to *BOE\_HOME*\deployment.
6. If you want to deploy all war files, use these commands:

- For Oracle WebLogic:

```
wdeploy.bat (sh) weblogic10 -Das_admin_password=<password> deployall
```

- For IBM WebSphere:

```
wdeploy.bat (sh) websphere<version> -Das_admin_password=<password> deployall
```

7. If you want to deploy one war file, use these commands:

- For Oracle WebLogic:

```
wdeploy.bat (sh) weblogic10 -Das_admin_password=<password> -DAPP=<Application⇒
Name> deploy
```

- For IBM WebSphere:

```
wdeploy.bat (sh) websphere<version> -Das_admin_password=<password> -DAPP=>
<Application Name> deploy
```

8. If you want to undeploy all war files, use these commands:

- For Oracle WebLogic:

```
wdeploy.bat (sh) weblogic10 -Das_admin_password=<password> undeployall
```

- For IBM WebSphere:

```
wdeploy.bat (sh) websphere<version> -Das_admin_password=<password> undeployall
```

9. If you want to undeploy one war file, use these commands:

- For Oracle WebLogic:

```
wdeploy.bat (sh) weblogic10 -Das_admin_password=<password> -DAPP=<Application⇒
Name> undeploy
```

- For IBM WebSphere:

```
wdeploy.bat (sh) websphere<version> -Das_admin_password=<password> -DAPP=>
<Application Name> undeploy
```

10. To review the logs for wdeploy, go to *BOE\_HOME*\deployment\workdir.

## Task 16-6-5: Deploying Manually Through IBM WebSphere Console

When using IBM WebSphere as the web server for SAP BusinessObjects Enterprise XI 3.1, you must deploy any web applications manually. The following table lists the SAP BusinessObjects Enterprise XI 3.1 web applications that must be deployed to the WebSphere Application server manually, along with the context roots for each:

| Web Application Name | Context Root         |
|----------------------|----------------------|
| AdminTools           | /AdminTools          |
| AnalyticalReporting  | /AnalyticalReporting |
| bobjpsenterprise     | See step 15          |
| BusinessProcessBI    | /BusinessProcessBI   |
| CmcApp               | /CmcApp              |
| CmcAppActions        | /CmcAppActions       |
| CrystalReports       | /CrystalReports      |
| dswsbobje            | /dswsbobje           |
| InfoViewApp          | /InfoViewApp         |
| InfoViewAppActions   | /InfoViewAppActions  |
| OpenDocument         | /OpenDocument        |

| Web Application Name   | Context Root            |
|------------------------|-------------------------|
| PartnerPlatformService | /PartnerPlatformService |
| PerformanceManagement  | /PerformanceManagement  |
| PlatformServices       | /PlatformServices       |
| PMC_Help               | /PMC_Help               |
| VoyagerClient          | /VoyagerClient          |
| XCelsius               | /XCelsius               |

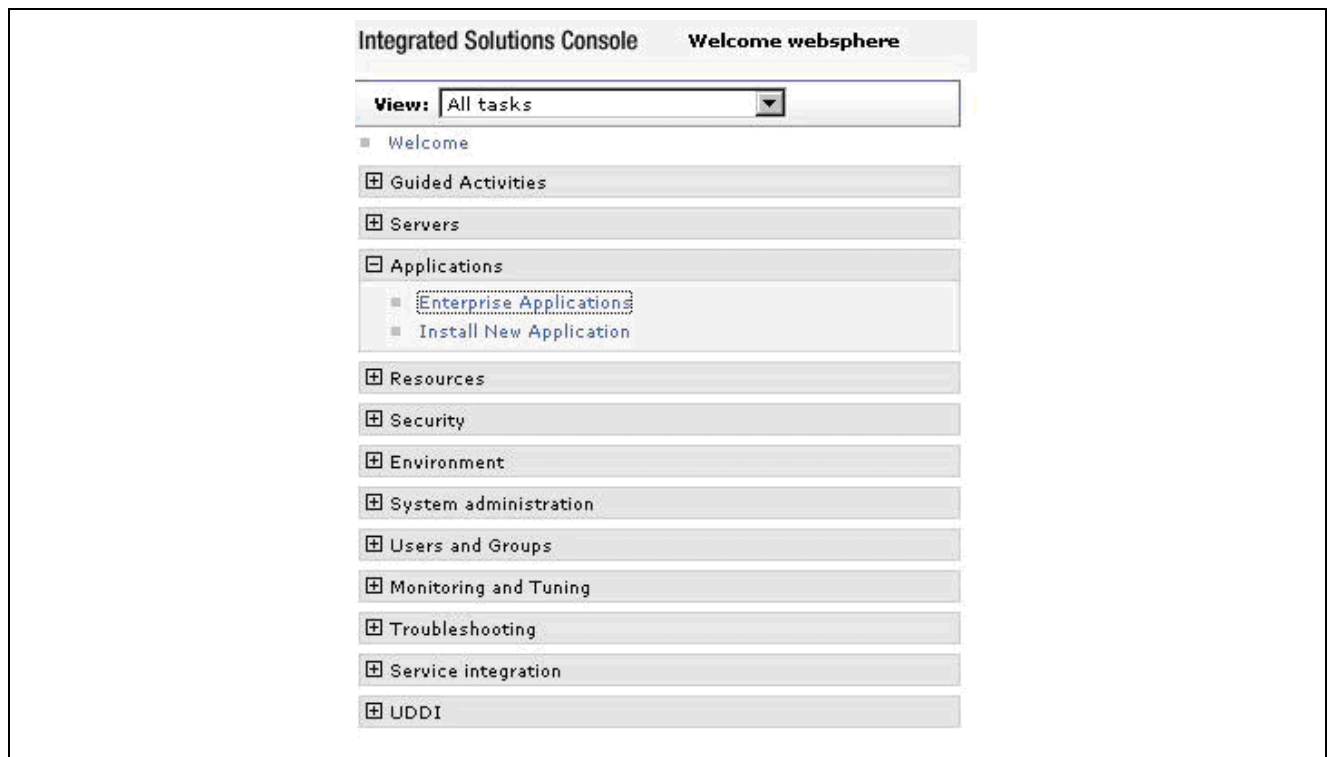
Before using the IBM WebSphere console, you must use the wdeploy tool to predeploy the web applications. To manually deploy web applications through the IBM WebSphere console:

1. Go to *BOE\_HOME*\deployment and locate the wdeploy configuration file config.websphere6.
2. Open the file in a text editor, and update it as described in step 4 in the previous section, Deploying Manually with Wdeploy Tool.
3. Use the following command to pre-deploy the web applications (if you are running on UNIX or Linux, substitute wdeploy.sh):

```
wdeploy.bat websphere6 predeployall -Das_admin_password=<password>
```

The web applications are placed in *BOE\_HOME*/deployment/workdir/websphere6/application.

4. Log on to the IBM WebSphere Application Server Administrative Console using this URL:  
`http://<machine_name>:<port>/ibm/console`
5. Expand Applications and then select Enterprise Applications.



IBM WebSphere Integrated Solutions Console menu

6. Click Install, and then elect Remote File System.

7. Select the node cell that is being used and navigate to the location of the EAR file to deploy.  
The files are in *BOE\_HOME*/deployment/workdir/websphere6/application.
8. Enter the context root for the web application from the table at the beginning of this section, and then click Next.

**Preparing for the application installation**

Specify the EAR, WAR, JAR, or SAR module to upload and install.

**Path to the new application**

☐ Local file system

Full path:

☒ Remote file system

Full path:

Context root:  Used only for standalone Web modules (.war files) and SIP modules (.sar files)

**How do you want to install the application?**

☒ Prompt me only when additional information is required.

☐ Show me all installation options and parameters.

Specifying the context root for manual deployment

9. Accept the defaults and click Next.
10. Select the server to use and click Next.

**Install New Application**

Specify options for installing enterprise applications and modules.

**Step 1: Select installation options**

**Step 2: Map modules to servers**

**Step 3: Summary**

**Map modules to servers**

Specify targets such as application servers or clusters of application servers where you want to install the modules that are contained in your application. Modules can be installed on the same application server or dispersed among several application servers. Also, specify the Web servers as targets that serve as routers for requests to this application. The plug-in configuration file (plugin-cfg.xml) for each Web server is generated, based on the applications that are routed through.

Clusters and Servers:

| Select                              | Module                                  | URI                                | Server                                                                 |
|-------------------------------------|-----------------------------------------|------------------------------------|------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Business Objects Crystal Report Plugins | CrystalReports.war,WEB-INF/web.xml | WebSphere:cell=st-ibm22bNode01Cell,node=st-ibm22bNode01,server=server1 |

Map modules to servers page in the IBM WebSphere administrative console

11. Click Finish at the summary page.
12. When the installation is complete, select Save directly to the Master.

13. Select the recently installed web application and click the Start button.  
Ensure that the web application starts successfully.
14. Repeat steps 4–13 for each web application in the table at the beginning of this section.
15. Use the instructions in the previous section to deploy bobjpsenterprise using the wdeploy tool.

## Task 16-6-6: Deploying Manually on Oracle WebLogic 10.3

This section discusses:

- Determining Whether Manual Deployment is Required
- Deploying Web Applications Manually

### Determining Whether Manual Deployment is Required

You only need to follow the instructions in this section if you are deploying PeopleSoft web applications on Oracle WebLogic 10.3, and if the deployment of a web application fails. See the earlier tasks in this chapter for more information on the following steps.

To determine whether manual deployment is necessary:

1. Install and configure an Oracle WebLogic 10.3 domain.
2. Configure a BOE database.
3. Install the BusinessObjects Enterprise XI 3.1 base installer.  
During the installation, select the option to deploy a pre-installed web application server at the step to select a web application server (the exact wording of the prompt varies depending upon the operating system).
4. After deployment verify whether fifteen web applications have been deployed, by checking the Oracle WebLogic console.
5. Install the PeopleSoft Integration Kit on the base installation.  
During the installation, select the option to deploy a pre-installed web application server at the step to select a web application server (the exact wording of the prompt varies depending upon the operating system).
6. If any of the web applications, for example bobjpsenterprise, fails to deploy, use the following procedure to manually deploy the web application.

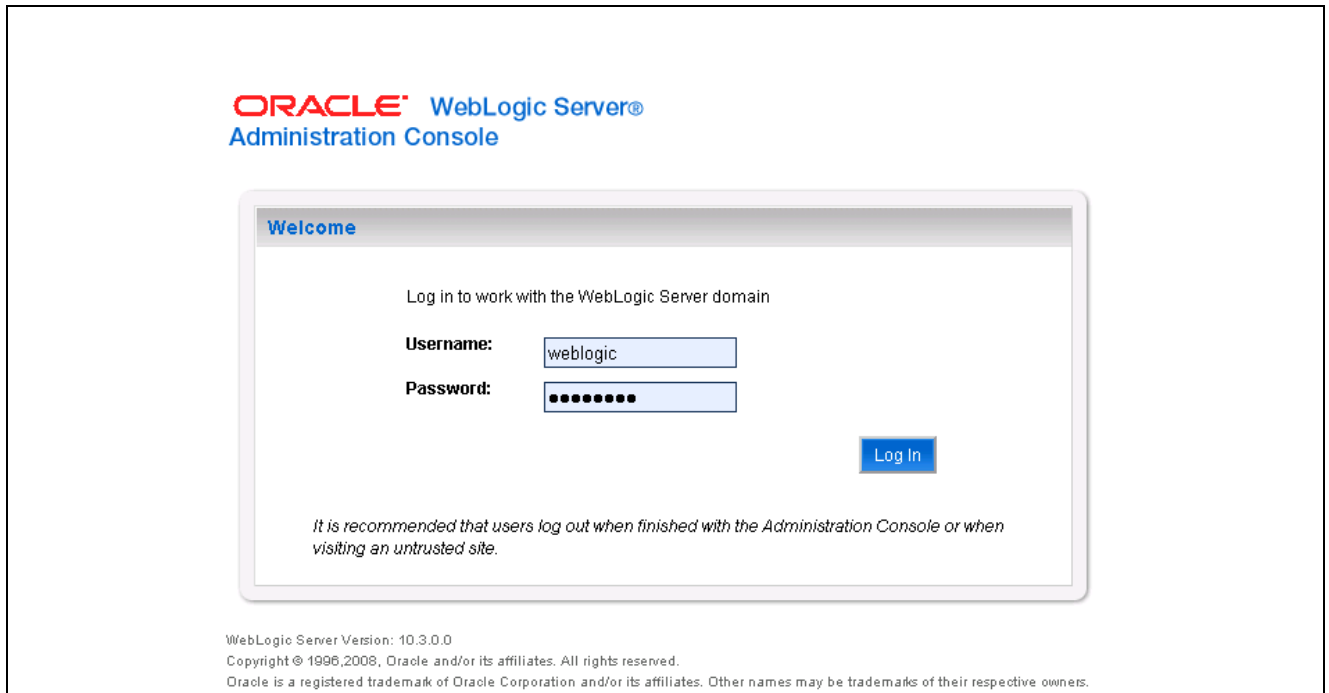
If the web application deploys successfully, you do not need to carry out the manual deployment.

### Deploying Web Applications Manually

If any web application deployment failed after carrying out the previous set of steps, use this procedure for manual deployment. To deploy manually:

1. Log in to the Oracle WebLogic application server console with the username and password.

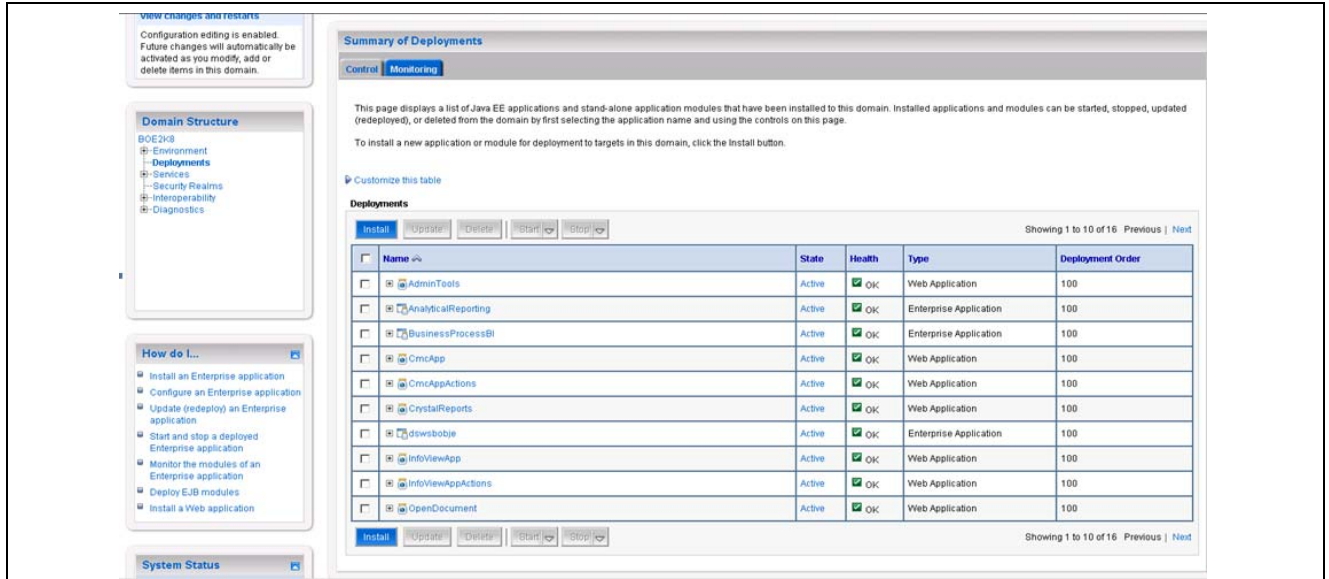




Oracle WebLogic Server Administration Console Log In window

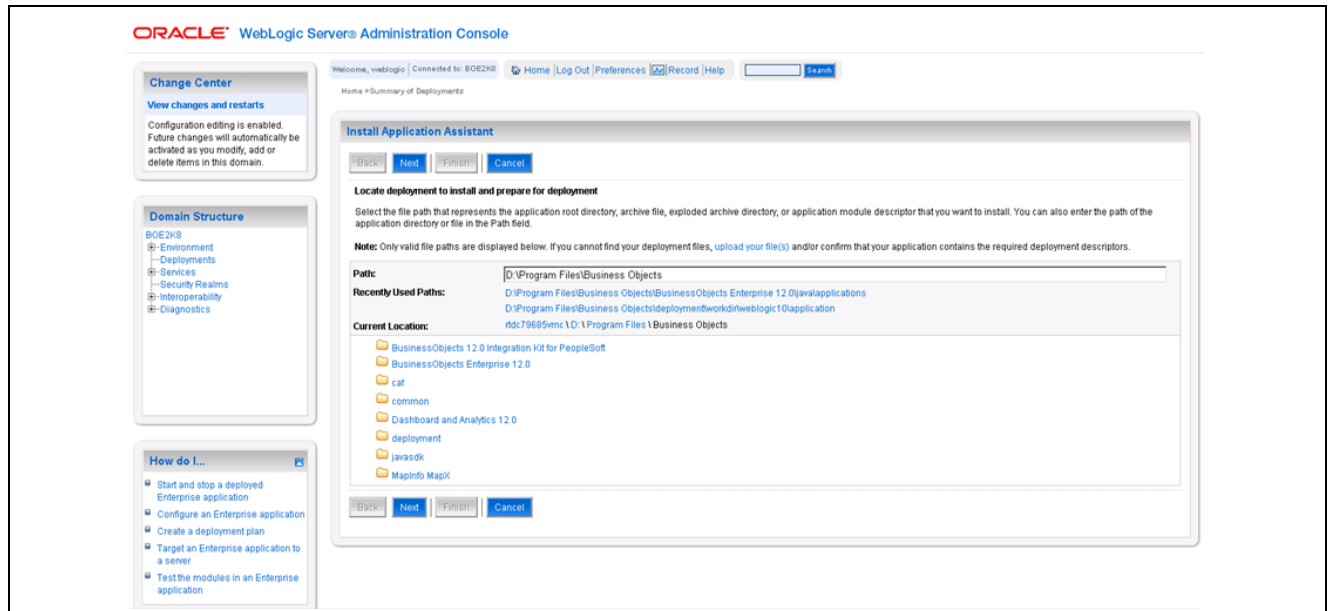
2. Select Domain Structure, Deployments from the menu on the left.

**Note.** For the sake of visibility, only a portion of the browser window is shown in these examples.



Summary of Deployments page on the Oracle WebLogic Administration Console

3. Click the Install button on the bottom of the page.
4. For Path, enter the following:

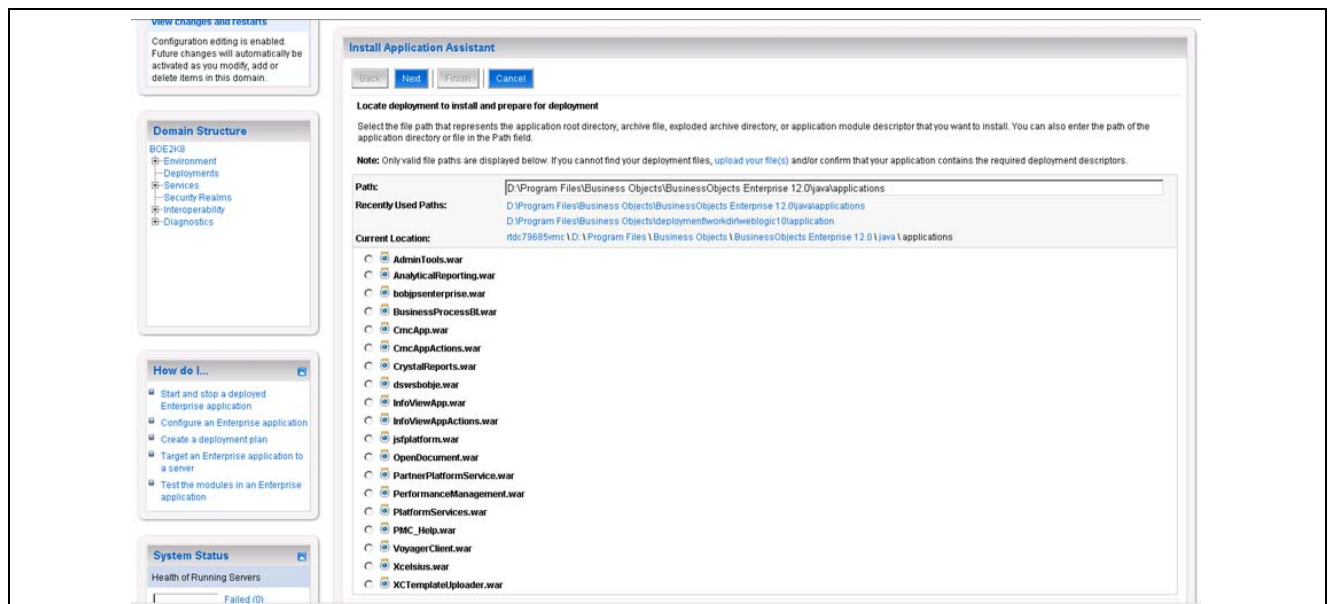


Install Application Assistant page

- On Microsoft Windows: *BOE\_Install\_Directory*\BusinessObjects Enterprise 12.0\java\applications.
  - On Linux or UNIX: *BOE\_Install\_Root\_Path*/bobje/enterprise120/java/applications.
5. Choose the application that you want to deploy from the Current Location list, for example bobjpsenterprise.war.

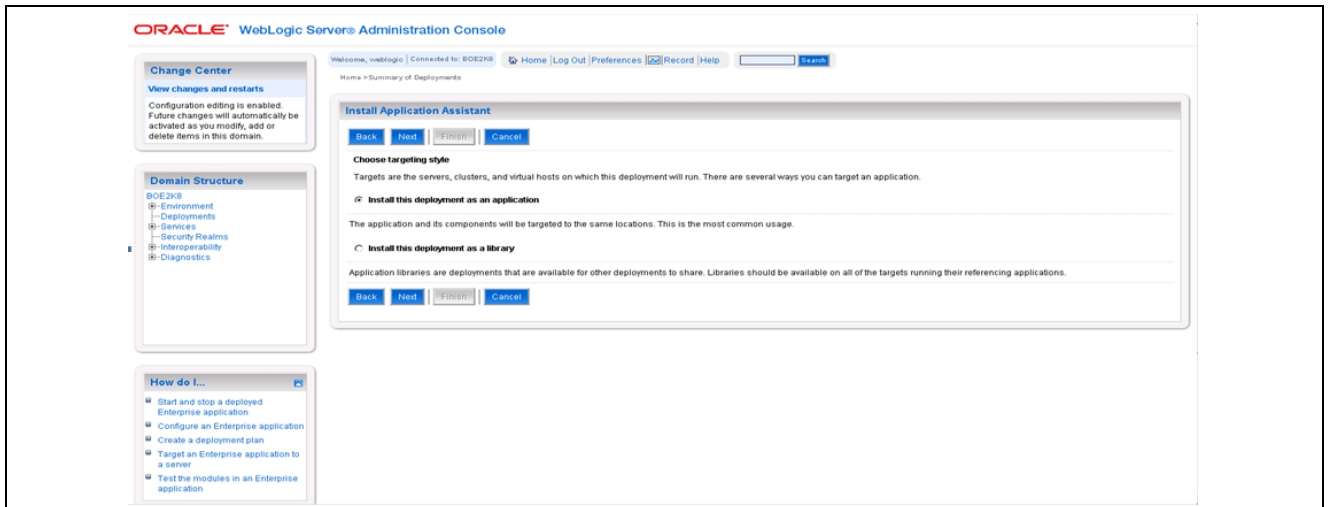
In this example, on Microsoft Windows, the complete path is D:\Program Files\Business Objects\BusinessObjects Enterprise 12.0\java\applications\bobjpsenterprise.war.

On Linux or UNIX, a sample path is /home/BOE\_HOME/SLR103/bobje/enterprise120/java/applications.



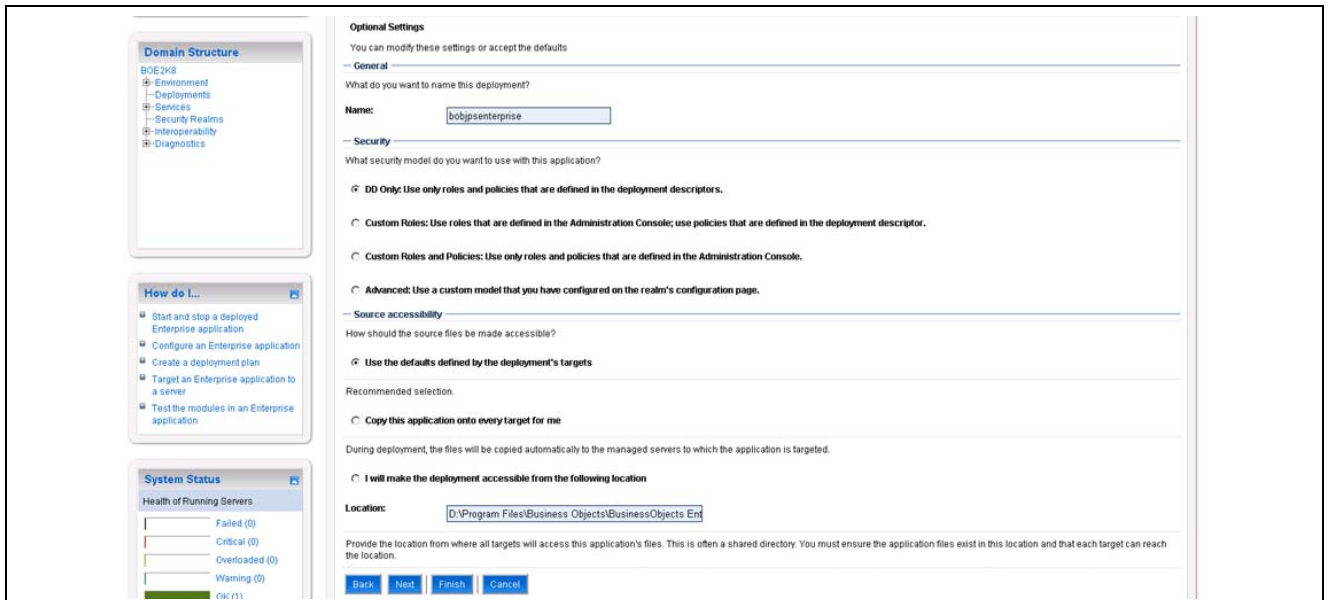
Install Application Assistant page with list of deployments

6. Click Next and then select Install this deployment as an application.



Selecting the targeting style on the Install Application Assistant page

7. Click Next and select the following options:



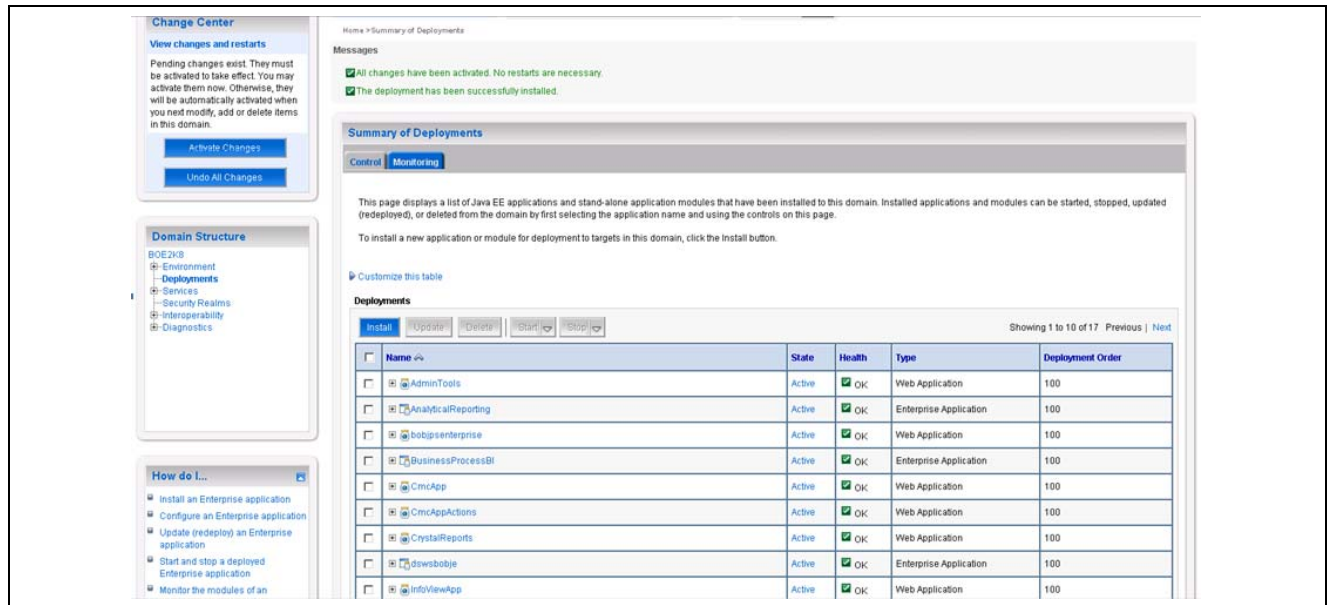
Choosing optional settings for deployment

- Under General: What do you want to name this deployment?  
Name: bobjpsenterprise
- Under Security: What security Policies model do you want to use with this application?  
DD Only: Use only roles and policies that are defined in the deployment descriptors.
- Under Source accessibility: How should the source files be made accessible?  
Use the defaults defined by the deployment's targets.

8. Click Finish.

You see the following Deployment Complete messages:

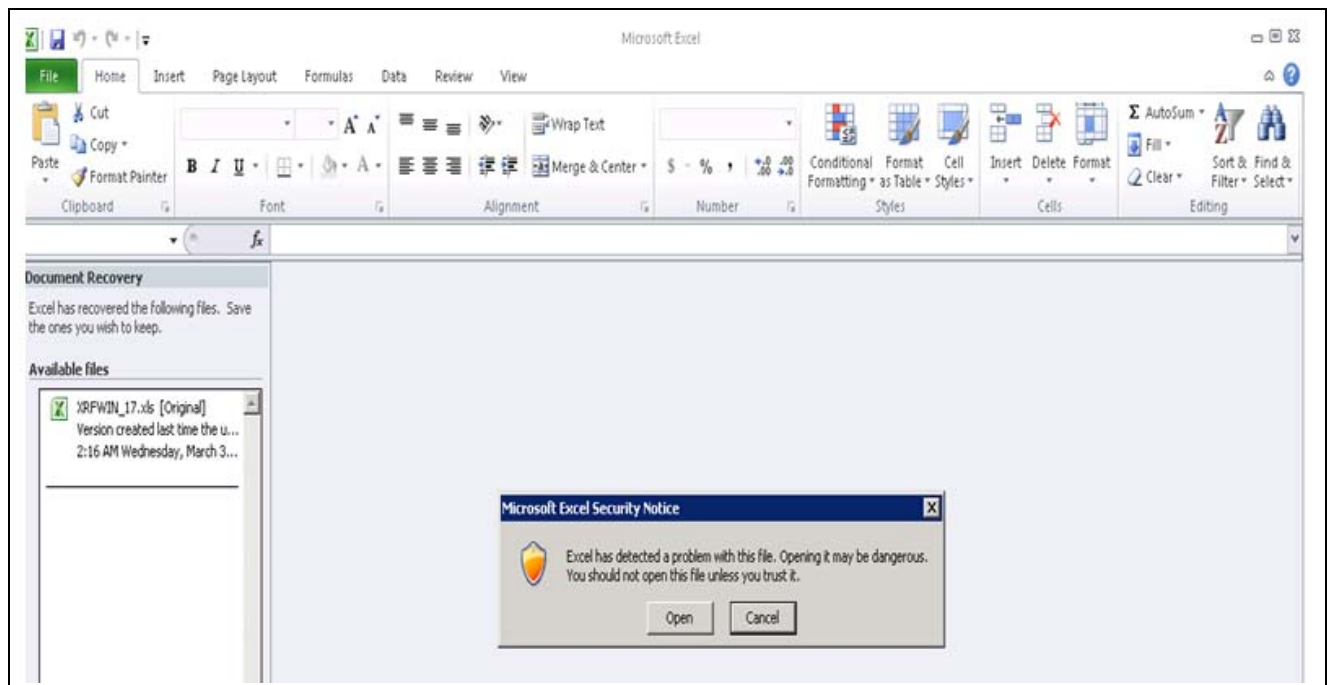
All changes have been activated. No restarts are necessary.  
The deployment has been successfully installed.



Deployment Complete messages

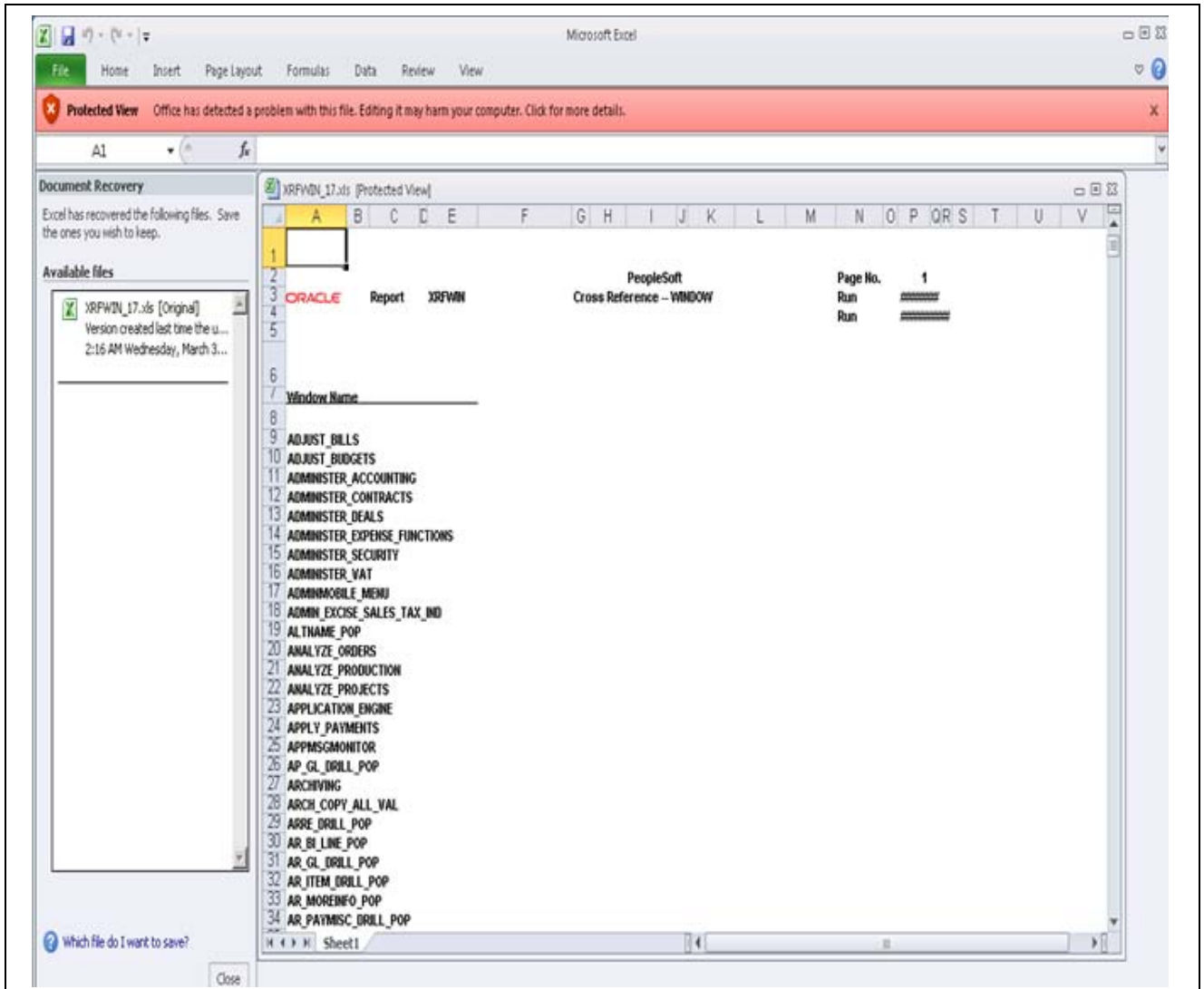
## Task 16-6-7: Configuring Microsoft Office 2010 to Read Crystal Reports

When using Microsoft Excel 2010 or Microsoft Word 2010 to open a Crystal report created with SAP BusinessObjects Enterprise, the report may open in read-only mode, with the security message shown in this example: “Excel has detected a problem with this file. Opening it may be dangerous. You should not open this file unless you trust it.”



Microsoft Excel Security Notice message

After you click Open on the Microsoft Excel Security notice, you see the Protected View banner on the Microsoft Excel 2010 or Microsoft Word 2010 window, with this message: “Protected View. Office has detected a problem with this file. Editing it may harm your computer. Click for more details.”



Microsoft Excel 2010 window with Protected View banner

The information in this section applies to Crystal reports run with output formats .doc and .xls and viewed with Microsoft Word 2010 and Microsoft Excel 2010. In order to edit the report, disable the protected view and file blocking settings. For more information on Protected View, see the Microsoft Office support information.

See "View or modify Protected View settings in the Trust Center," Microsoft Office Support <http://office.microsoft.com/en-us/excel-help/what-is-protected-view-HA010355931.aspx#BM5>

See "How do I edit a blocked file?" Microsoft Office Support <http://office.microsoft.com/en-us/excel-help/what-is-file-block-HA010355927.aspx#BM2>

To change the Microsoft Office 2010 settings to disable Protected View and allow editing of the report files:

1. Access the Trust Center in Microsoft Excel 2010 or Microsoft Word 2010.
2. Select Protected View from the frame on the left.
3. Clear these check boxes:

- Enable Protected View for files that fails validation
  - Enable Protected View for files originating from the Internet
4. Select File Block Settings in the Trust Center window.
  5. Select Open selected file types in Protected View and allow editing.
  6. In the File Type list, select the Open and Save options for the following:
    - Word 2007 and later Documents and Templates
    - Word 2003 Binary Documents and Templates
    - Excel 2007 and later Documents and Templates
    - Excel 2003 Binary Documents and Templates

---

## Task 16-7: Removing the Integrated SAP BusinessObjects Enterprise XI 3.1 Installation

This section discusses:

- Uninstalling PeopleSoft for BusinessObjects Enterprise XI 3.1 on Windows
- Uninstalling SAP BusinessObjects Enterprise XI 3.1 on Windows
- Uninstalling PeopleSoft for BusinessObjects Enterprise XI 3.1 on UNIX or Linux
- Uninstalling SAP BusinessObjects Enterprise XI 3.1 on UNIX or Linux

### Task 16-7-1: Uninstalling PeopleSoft for BusinessObjects Enterprise XI 3.1 on Windows

To uninstall the SAP BusinessObjects Enterprise XI 3.1 integration to PeopleSoft on Windows, you must first uninstall the PeopleSoft for BusinessObjects Enterprise XI 3.1 integration, then uninstall SAP BusinessObjects Enterprise XI 3.1.

To uninstall PeopleSoft for BusinessObjects Enterprise XI 3.1 on Windows:

1. Select Start, Settings, Control Panel.
2. Select Add/Remove Programs.
3. Select BusinessObjects XI Integration for PeopleSoft Enterprise.
4. Click Remove.

### Task 16-7-2: Uninstalling SAP BusinessObjects Enterprise XI 3.1 on Windows

After removing the BusinessObjects Enterprise XI 3.1 Integration Kit for PeopleSoft, use these steps to uninstall SAP BusinessObjects Enterprise XI 3.1:

---

**Note.** These instructions assume that Crystal Reports XI is not installed on the same machine as SAP BusinessObjects Enterprise XI 3.1.

---

1. Select Start, Settings, Control Panel, Add or Remove Programs.
2. Remove SAP BusinessObjects Enterprise XI 3.1.
3. Remove the following directories:
  - *BOE\_HOME*\Business Objects, where *BOE\_HOME* is the directory where you installed SAP BusinessObjects Enterprise XI 3.1. If you accepted the defaults during installation, this is C:\Program Files\Business Objects.
  - *BOE\_HOME*\Common Files\Business Objects
4. If you have both SAP BusinessObjects Enterprise XI 3.1 and Crystal Reports installed on your system, you must also delete the Crystal Reports folders, and delete the Crystal Reports registry key, following a similar procedure to that described above.
5. Reboot your system.

### Task 16-7-3: Uninstalling PeopleSoft for BusinessObjects Enterprise XI 3.1 on UNIX or Linux

To uninstall the SAP BusinessObjects Enterprise XI 3.1 integration to PeopleSoft on UNIX or Linux, you must first uninstall the BusinessObjects Enterprise XI 3.1 Integration Kit for PeopleSoft, then uninstall SAP BusinessObjects Enterprise XI 3.1. To uninstall the BusinessObjects Enterprise XI 3.1 Integration Kit for PeopleSoft on UNIX or Linux:

1. Run the following script, where *<BOE\_HOME>* is the directory where you installed SAP BusinessObjects Enterprise XI 3.1:  

```
<BOE_HOME>/AddOrRemoveProducts.sh
```
2. Select 2 for BusinessObjects XI Integration for PeopleSoft Enterprise.
3. Enter the information that you specified when installing SAP BusinessObjects Enterprise XI 3.1:
  - Machine name — the computer where you installed SAP BusinessObjects Enterprise XI 3.1.
  - CMS port
  - CMS Administrator password
4. Press ENTER to begin the removal process.

### Task 16-7-4: Uninstalling SAP BusinessObjects Enterprise XI 3.1 on UNIX or Linux

After removing the BusinessObjects Enterprise XI 3.1 Integration Kit for PeopleSoft, use these steps to uninstall SAP BusinessObjects Enterprise XI 3.1:

1. Run the following script:  

```
BOE_HOME/AddOrRemoveProducts.sh.
```
2. Select 1 for SAP BusinessObjects Enterprise XI 3.1.
3. Select 2, for Uninstall product.



---

## Task 16-8: Converting Crystal Reports

This section discusses:

- Selecting the Crystal Reports Conversion Method
- Converting Existing Crystal Reports to Crystal Reports 2008 or Crystal Reports 2011 Format
- Converting Existing Crystal Reports to Run with SAP BusinessObjects Enterprise XI 3.1

### Selecting the Crystal Reports Conversion Method

This section includes information on converting from Crystal Reports to various formats. Your situation will fall into one of the following scenarios:

- *Scenario 1:*

You are upgrading your PeopleSoft installation from a pre-PeopleSoft PeopleTools 8.50 or 8.51 environment to run on PeopleSoft PeopleTools 8.52 or later and you do *not* plan to use SAP BusinessObjects Enterprise XI 3.1. You will use the Microsoft Windows-based SAP Crystal Reports 2008 or SAP Crystal Reports 2011 instead.

You will have to run a conversion program to convert your Crystal reports so that they can run on PeopleSoft PeopleTools 8.52 or later.

See Converting Existing Crystal Reports to Crystal Reports 2008 Format.

- *Scenario 2:*

Your PeopleSoft installation is already running on PeopleSoft PeopleTools 8.52 or later and you want to run your Crystal reports using SAP BusinessObjects Enterprise XI 3.1.

You will have to convert your reports to enable them to run on SAP BusinessObjects Enterprise XI 3.1.

See Converting Existing Crystal Reports to Run with SAP BusinessObjects Enterprise XI 3.1.

- *Scenario 3:*

You are upgrading your PeopleSoft installation from PeopleSoft PeopleTools 8.49 or earlier to PeopleSoft PeopleTools 8.52 or later and you plan to use SAP BusinessObjects Enterprise XI 3.1.

You will have to run a conversion program that converts your Crystal Reports to the Crystal Reports format supported for PeopleSoft PeopleTools 8.50 or later, and to enable them to run on SAP BusinessObjects Enterprise XI 3.1.

See Converting Existing Crystal Reports to Run with SAP BusinessObjects Enterprise XI 3.1.

- *Scenario 4:*

You are upgrading your PeopleSoft installation from PeopleSoft PeopleTools 8.50 or 8.51 to PeopleSoft PeopleTools 8.52 and are already running your reports on SAP BusinessObjects Enterprise XI 3.1.

No report conversion is necessary.

### Task 16-8-1: Converting Existing Crystal Reports to Crystal Reports 2008 or Crystal Reports 2011 Format

This section discusses:

- Understanding the PeopleTools RPT Conversion Utility



- Converting RPT Files
- Repairing RPT Files

## Understanding the PeopleTools RPT Conversion Utility

The PeopleTools RPT Conversion utility is a standalone program that converts your .rpt files from the format used in previous PeopleSoft releases to the format used for PeopleSoft PeopleTools 8.50 and later. You only need to run this program if you are upgrading from previous versions of PeopleSoft PeopleTools. This section discusses how to:

- Convert .rpt files
- Repair .rpt files

## Converting RPT Files

Before you run the PeopleTools RPT Conversion utility, you should move your report files to a specific directory. You can then point the conversion utility to that directory.

You should also back up your report files. If any problem occurs while you run this program, your report files may become corrupted.

To run the conversion:

1. Select Start, Programs, PeopleSoft 8.53, PeopleTools RPT Converter.  
Alternatively, run `pscvtrpt.exe` from `PS_HOME\bin\client\winx86`.
2. Accept the default directory or browse to select a new directory.  
The Selected Report directory default is the location of your Crystal Reports as specified in the Configuration Manager. If you wish to convert files in a different location, select the new directory.
3. Select the check box Convert RPT files in subdirectories.  
The database information is automatically removed from older reports that are converted. After the conversion, reports that were successfully converted appear in the Files Converted list box.
4. Select Convert.  
If you have not signed into the PeopleSoft database, you are prompted to do so. After you successfully sign into a database, you can see a progress window.
5. At the prompt "Successful conversion of *x* files. Skipped *x* files," click OK.  
When the conversion is complete, a Close button is enabled.
6. Select Close.  
Before closing, take note of any .rpt files that failed to convert. This is usually due to read-only access.

## Repairing RPT Files

You can use the RPT Conversion utility when you are experiencing problems with a report that has already been converted as part of the upgrade procedure.

---

**Note.** Select the Run Verify Database option first. If the problem is still not resolved, select the Remove database info from current Crystal reports option.

---

To repair RPT files:

1. Select Start, Programs, PeopleSoft 8.53, PeopleTools RPT Converter.

2. Accept the default directory or browse to select a different directory.  
The Selected Report directory default is the location of your Crystal Reports as specified in the Configuration Manager. If you wish to repair files in a different location, select the new directory.
3. Select either the Run Verify Database or the Remove database info from current Crystal reports check box.  
The Run Verify Database option verifies whether the query information saved in the report is in sync with the query definition.  
When it is complete, reports that were current and had the database information removed appear in the Files Converted list box, with a \* to the left of the report name.
4. Select Convert.  
A progress window appears.
5. At the prompt “Successful conversion of *x* files. Skipped *x* files,” click OK.  
When the conversion is complete, a Close button is enabled.
6. Select Close.  
Before closing, take note of any .rpt files that failed. This is usually due to read-only access.

## Task 16-8-2: Converting Existing Crystal Reports to Run with SAP BusinessObjects Enterprise XI 3.1

This section discusses:

- Understanding the Conversion to Crystal Reports 2008 or Crystal Reports 2011
- Preparing for Conversion of Existing Crystal Reports
- Converting Reports to the SAP BusinessObjects Enterprise/Crystal Reports Repository
- Publishing Reports to the SAP BusinessObjects Enterprise/Crystal Reports Repository
- Converting and Publishing Reports to the SAP BusinessObjects Enterprise/Crystal Reports Repository
- Verifying the Conversion and Publish
- Reviewing Common Conversion Errors and Warning Messages

### Understanding the Conversion to Crystal Reports 2008 or Crystal Reports 2011

The PeopleTools RPT conversion utility `psrconv.exe` is a program that converts your Crystal Reports .rpt files from the format that PeopleSoft software used in previous PeopleSoft PeopleTools releases to the PeopleSoft PeopleTools format for use with SAP Crystal Reports 2008 or Crystal Reports 2011. This utility also publishes the converted Crystal Reports files by moving them into the BusinessObjects Enterprise Repository so that they can run in the PeopleSoft database.

---

**Note.** The PeopleTools RPT conversion utility is not intended to be run on reports with non-PeopleSoft data sources.

---

#### *Overview of the Conversion and Publish Processes*

There are two key processes:

- Converting report definition files from Crystal 9 to SAP Crystal Reports 2008 or Crystal Reports 2011 format

- Publishing SAP Crystal Reports 2008 or Crystal Reports 2011 report definition files into the BusinessObjects Enterprise XI 3.1 Report Repository

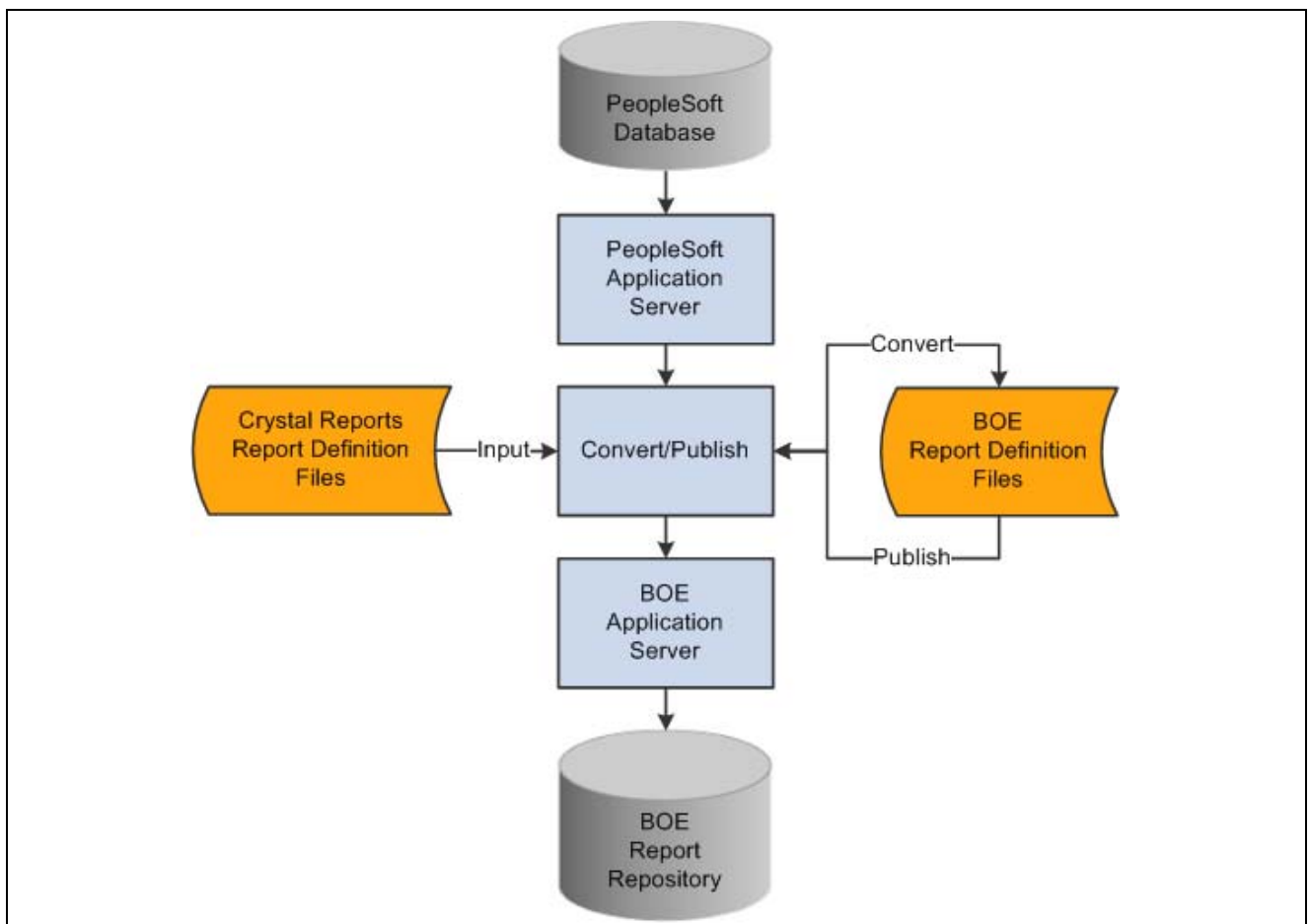
In order to run reports using SAP BusinessObjects Enterprise XI 3.1 through the PeopleSoft software, the SAP Crystal Reports 2008 or Crystal Reports 2011 report definitions must reside in the BusinessObjects Enterprise XI 3.1 Report Repository.

You can perform each process individually or both together. Here are some examples that might make this clear:

- In a development environment you might run convert and publish together to populate your development environment.
- In a test environment you may want to run the conversion by itself, and then run the publish process multiple times in order to publish the same reports to different test environments.

The following diagram illustrates the process flow involved in the conversion and publishing process, moving from the PeopleSoft database to the BusinessObjects Enterprise report repository:

**Note.** In this flowchart, “BOE” refers to SAP BusinessObjects Enterprise XI 3.1, and “Crystal Reports” refers to SAP Crystal Reports 2008 or Crystal Reports 2011.



PeopleSoft PeopleTools conversion or publish process

### *Understanding Report Conversion*

The conversion process performs the following:

- Prompts the user for inputs:

- PeopleSoft sign-on information
- The action that they would like to take
- Source folder with Crystal Reports 9 report definition files
- Destination folder for Crystal Reports 2008 report definition files
- For each report to be converted in the source folder the program:
  - Reads a Crystal 9 report from a folder
  - Runs a Verify Database on that report
  - Removes database information from the report definition and verifies whether the query information saved in the reports is in sync with their query definitions.
  - For every field on the report the program determines the name by which QAS recognizes it.  
The program identifies all the possible field names that could be used in a report (as either a selected field, parameter field, expression field) and then provides the name QAS will use for those same fields.
  - Calls a Business Objects-supplied conversion routine to convert report definition contents from Crystal 9 format to Crystal 2008 format
  - Runs a Verify Database on the converted report definition

### *Understanding Report Publishing*

Report publishing can be accomplished by:

- Publishing reports automatically after converting them
- Publishing reports in a separate execution of the program

If you are publishing SAP Crystal Reports 2008 or Crystal Reports 2011 report files for the first time to the BusinessObjects Enterprise XI 3.1 Report Repository for a PeopleSoft database, folders are created in the BusinessObjects Enterprise XI 3.1 Repository under the database name. Report definitions must be published for each PeopleSoft database for which you plan to run reports. Published report definitions cannot be shared across databases. SAP BusinessObjects Enterprise XI 3.1 security on these folders is set with full access granted to the BusinessObject Enterprise Administrative User (BOE\_Admin) identified on the PeopleTools, Query Access Services, Configure, BusinessObject Enterprise page. Read access is granted to individual users.

The publish process:

- Requires login information for the administrative PeopleSoft user (user BOE\_Admin)
- Requires as input the user for the source folder with SAP Crystal Reports 2008 or Crystal Reports 2011 reports
- Stores (publishes) the converted report in the BusinessObjects Enterprise XI 3.1 Report Repository
- Updates information in the PeopleSoft Report Manager so that the Report Manager is aware of the report definitions in the BusinessObjects Enterprise XI 3.1 Report Repository

---

**Note.** If you publish a report that has been previously published to the BusinessObjects Enterprise XI 3.1 Repository for a PeopleSoft database, the earlier version will be overwritten.

---

In order to successfully convert and publish you must have the following environment in place:

- A properly installed SAP BusinessObjects Enterprise XI 3.1 server
- A properly installed PeopleSoft application (database and application server)

- Integration between the PeopleSoft application and the SAP BusinessObjects Enterprise XI 3.1 server properly installed and configured
- A designated machine on which you will run the conversion program

See the PeopleSoft upgrade guide for your platform.

## Preparing for Conversion of Existing Crystal Reports

Before running the conversion, there are several steps you must complete.

To prepare the conversion workstation:

1. Download and install the BusinessObjects Enterprise report migration file.

---

**Note.** Make sure that you have the correct version of the file for your operating system and software versions.

---

- a. To download the conversion routine, follow the previous instructions for obtaining installation files.

See Obtaining SAP BusinessObjects Enterprise and Crystal Reports Software.

- b. The file for the BusinessObjects Enterprise conversion is `crpsenterprisemigratereport.exe`. Copy this file into `PS_HOME\bin\client\winx86` on the Microsoft Windows computer that will be used to run the conversion.
2. If the computer that you use for conversions is different from the computer hosting the SAP BusinessObjects Enterprise XI 3.1 server where you are publishing the reports:
    - Install the SAP BusinessObjects XI 3.1 Integration Kit for PeopleSoft on the computer.
    - Ensure that the machine name of the Microsoft Windows computer used for conversion can be pinged from the SAP BusinessObjects Enterprise XI 3.1 server box and vice versa. If not, add the full machine name and the IP address of the computer where conversions are run to the host file of the computer where SAP BusinessObjects Enterprise XI 3.1 is installed.
  3. Confirm the operating system of the workstation.

The conversion program must be run on a machine with one of the Microsoft Windows operating systems platforms that is supported for running SAP BusinessObjects Enterprise XI 3.1 on PeopleSoft PeopleTools 8.52 and later.

See My Oracle Support, Certifications.

4. Confirm access to the PeopleSoft application.

The workstation must have connectivity to the PeopleSoft application (that is, you can log on to the application through the PeopleSoft logon page).

5. Confirm access to the SAP BusinessObjects Enterprise XI 3.1 application.

The workstation must have connectivity to the SAP BusinessObjects Enterprise XI 3.1 application. Users can verify connectivity by logging in to the SAP BusinessObjects Enterprise XI 3.1 server Central Management Console (CMC) on the workstation.

---

**Note.** When you log in to the CMC, select the Servers link and review the list of servers and their status. If the Web Intelligence Processing Server shows status as failed, delete the server from the list as it is not necessary in the integration between SAP BusinessObjects Enterprise XI 3.1 and PeopleSoft software.

---

See Confirming Access to the SAP BusinessObjects Enterprise XI 3.1 Administration and Central Management Console.

6. Confirm that the win32\_x86 path is included in the PATH environment variable of the workstation.
7. Install PeopleSoft PeopleTools on the workstation.

The way to install the conversion program on the conversion workstation is to simply install PeopleSoft PeopleTools on the workstation. PSCRCNV.EXE is one of the files installed on the machine.

8. Install Crystal Reports XI on the workstation.

Install the latest version of Crystal Reports XI and any hotfixes. Crystal Reports XI will install certain dynamic link libraries that are required for the installation program.

9. Install the PeopleSoft ODBC driver by running psodbcinst.exe.

PSODBC provides connectivity between Crystal 9 or higher reports and the PeopleSoft application database.

See "Setting Up the Install Workstation," Installing PeopleSoft ODBC Driver and Configuring the SAP Crystal Reports .NET Runtime.

To confirm the PeopleSoft Application environment:

1. Confirm the application version of the database and application version of the Crystal 9 Reports.

The PeopleSoft database that you have must be associated with the Crystal 9 or higher reports that you want to convert. That is, the database must have the queries that the Crystal 9 or higher reports access. And the application version of the database must match the application version of the reports that you plan to convert.

2. Verify that the user that will convert the reports has Query access for all the reports that you are planning to convert.

The simplest way to do this is to assign the PeopleSoft Administrator role to user BOE\_Admin. That role allows the user access to run all queries. To assign this role to BOE\_Admin:

- a. Log in to the PeopleSoft application in a browser and select PeopleTools, Security, User Profiles.
- b. Open the User Profile for BOE\_Admin and select the Roles tab.
- c. If not already present in the list of Roles, add Role *PeopleSoft Administrator* to the roles assigned to BOE\_Admin and save the page.

---

**Note.** The PeopleSoft Administrator Role should be removed from BOE\_Admin as soon as you are done converting reports to minimize security concerns.

---

- d. If you do not want to assign the PeopleSoft Administrator Role to user BOE\_Admin, there are two options:

*Option one:* Run the conversion by running the conversion program logged on as a PeopleSoft user who does have the PeopleSoft Administrator role assigned to it.

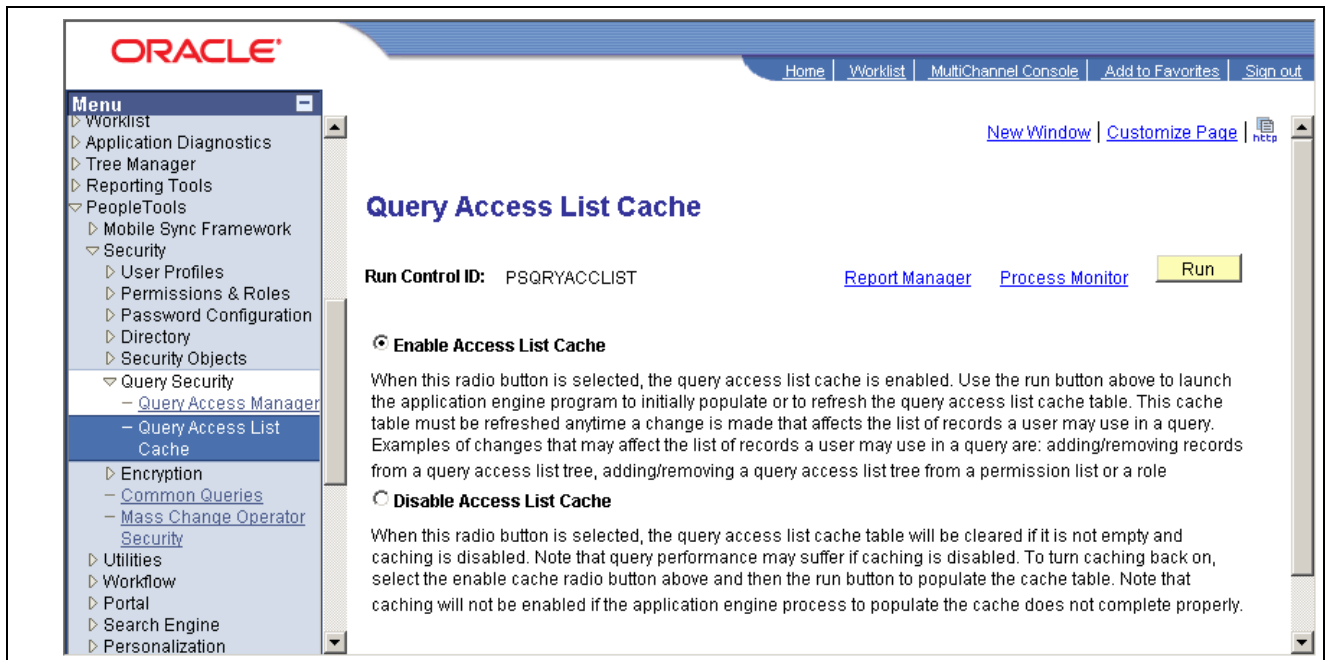
*Option two:* Manually assign query security to user BOE\_Admin such that BOE\_Admin has security access to all queries used in Crystal reports. This can be time consuming and error prone, however.

3. Assign Administrator rights to user BOE\_Admin in CMC, as follows:

- a. Log in to CMC and navigate to Home, Users and Groups.
- b. In Group Hierarchy, right-click *Domain\BOE Admin* group (where *Domain* is the domain you added in Authentication) and select Join Group.

- c. Select the Administrators group as a destination group and click OK.
4. If you logged out, log in to the PeopleSoft application in a browser.
5. Run the process to update the Query Access List Cache as follows:

**Note.** When the Enable Access List Cache option is selected and roles of a user Profile or permission list of a role has been modified, which affect the Query Access List Cache, you must rerun the QRYACCLIST Application Engine process to properly update the cache. Otherwise, the Query Access List Cache is not up-to-date and will be switched off automatically.



Query Access List Cache page

- a. Select PeopleTools, Security, Query Security, Query Access List Cache.
- b. On the Query Access List Cache page, verify that the radio button Enable Access List Cache is selected.
- c. Click the Run button to run the process.
6. Confirm the integrity of the PeopleSoft application database.

Verify the integrity of the PeopleSoft application database by running sysaudit.sqr on the database. In particular, there should be no anomalies in the database as regards Query definitions (SysQuery-01 through SysQuery-26).

See the information on sysaudit and data integrity in the *PeopleTools: Data Management* product documentation.

If you are swapping the base language, also run swpaudit.sqr.

See the information on the swap audit report, swpaudit.sqr, in the *PeopleTools: Global Technology* product documentation.

7. Confirm your SAP BusinessObjects Enterprise XI 3.1 environment and integration with the PeopleSoft system.

The conversion program relies on having a properly installed and configured SAP BusinessObjects Enterprise XI 3.1 so that the converted report definitions can be inserted in the SAP BusinessObjects Enterprise XI 3.1 repository. There are no special steps in this section that are not part of the basic installation steps covered elsewhere in this installation guide.

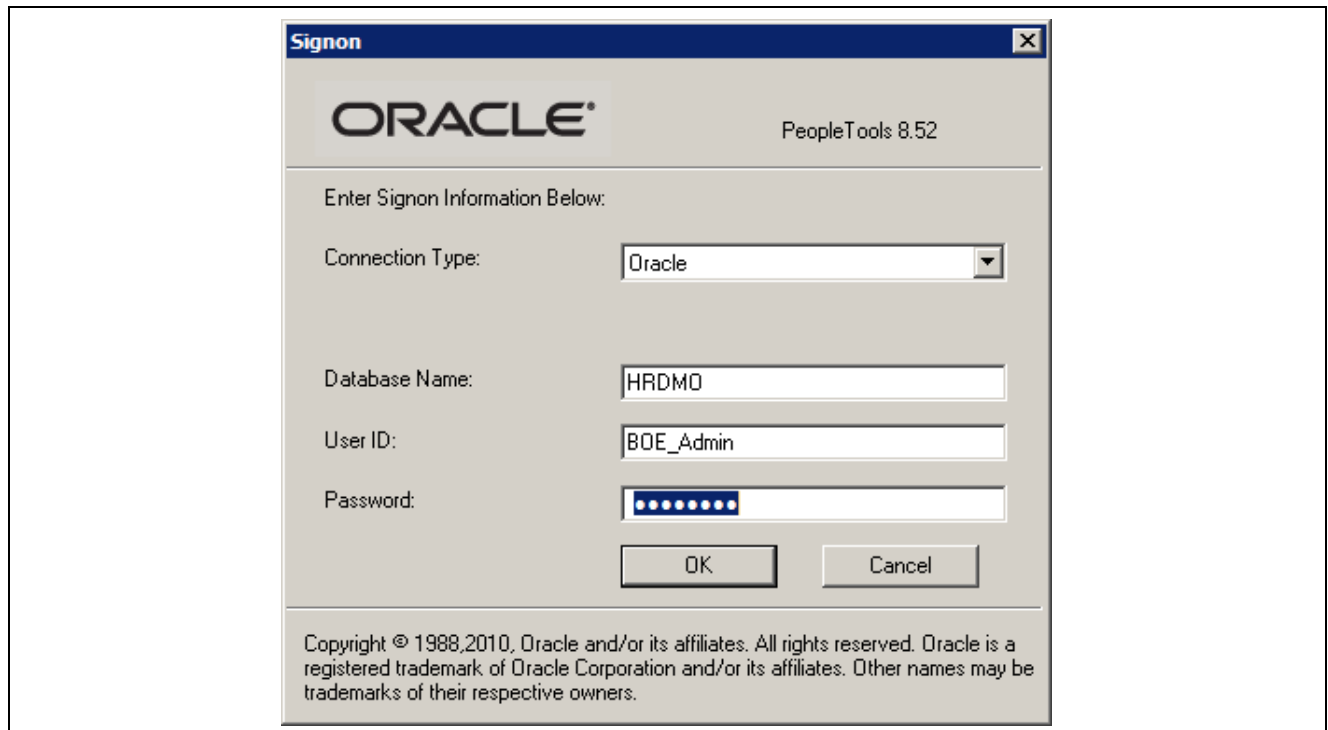
## Converting Reports to the SAP BusinessObjects Enterprise/Crystal Reports Repository

To run the conversion:

1. Run `pscrconv.exe` from `PS_HOME\bin\client\winx86` directory.
2. Sign into the PeopleSoft database, if you have not already done so.

Log in as user `BOE_Admin` as shown in this example:

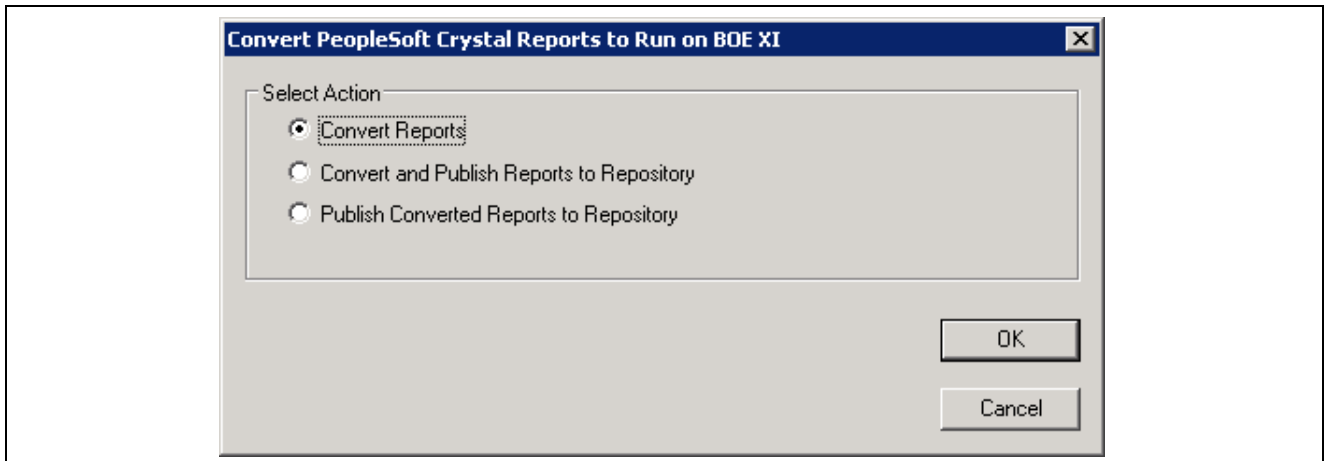
Ensure that you log into the correct database for the reports that you are converting. For example, do not sign into a Human Resources database if the reports were created against a Financials database.



Signon dialog box for Conversion Utility

3. Select Convert Reports on the Convert PeopleSoft Crystal Reports to Run on BOE XI dialog box, as shown in this example:





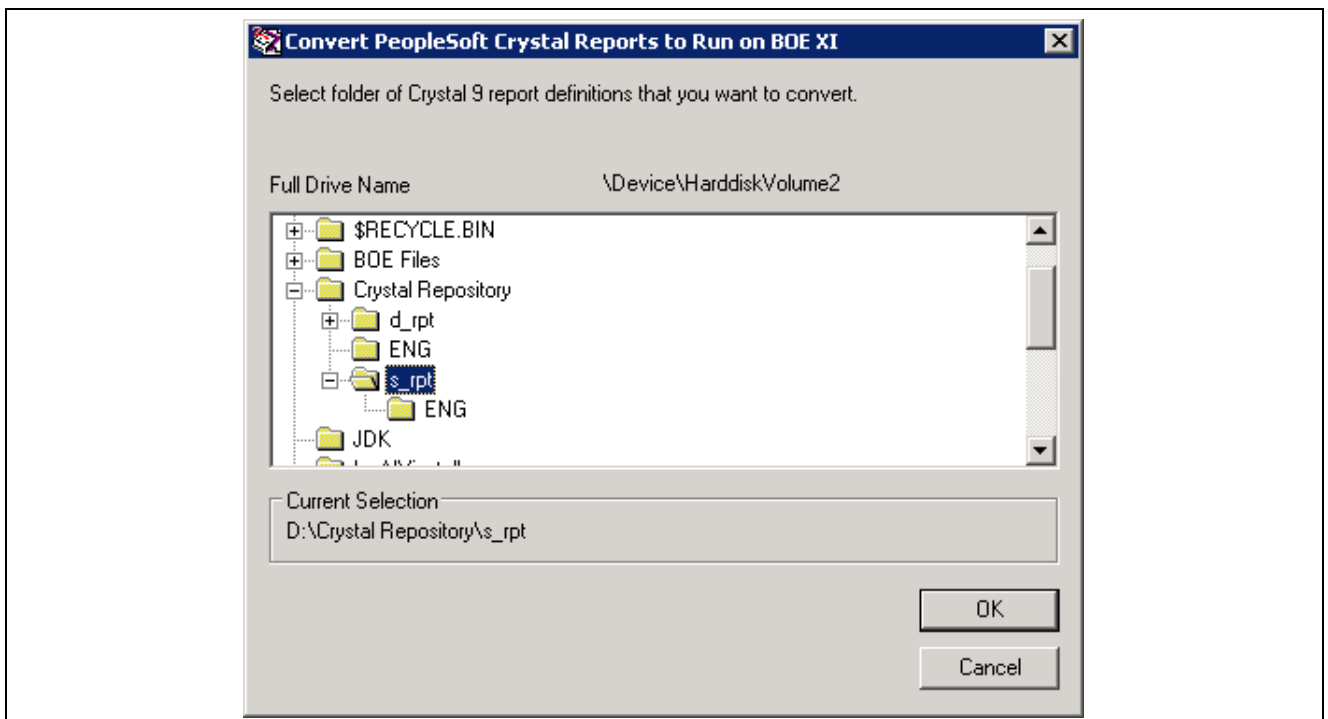
Selecting the convert option Convert PeopleSoft Crystal Reports to Run on BOE XI dialog box

Converting reports without publishing them to the SAP BusinessObjects Enterprise XI 3.1 report repository allows you to go from running Crystal Reports 9 report definitions to running SAP Crystal Reports 2008 or Crystal Reports 2011 report definitions using Crystal Reports XI on a client machine. The converted reports will be stored in a directory that you specify a little later. Converting without publishing is useful in a demonstration environment where you wish to publish reports to a production or development environment at a later time.

4. Select a report input directory and click OK.

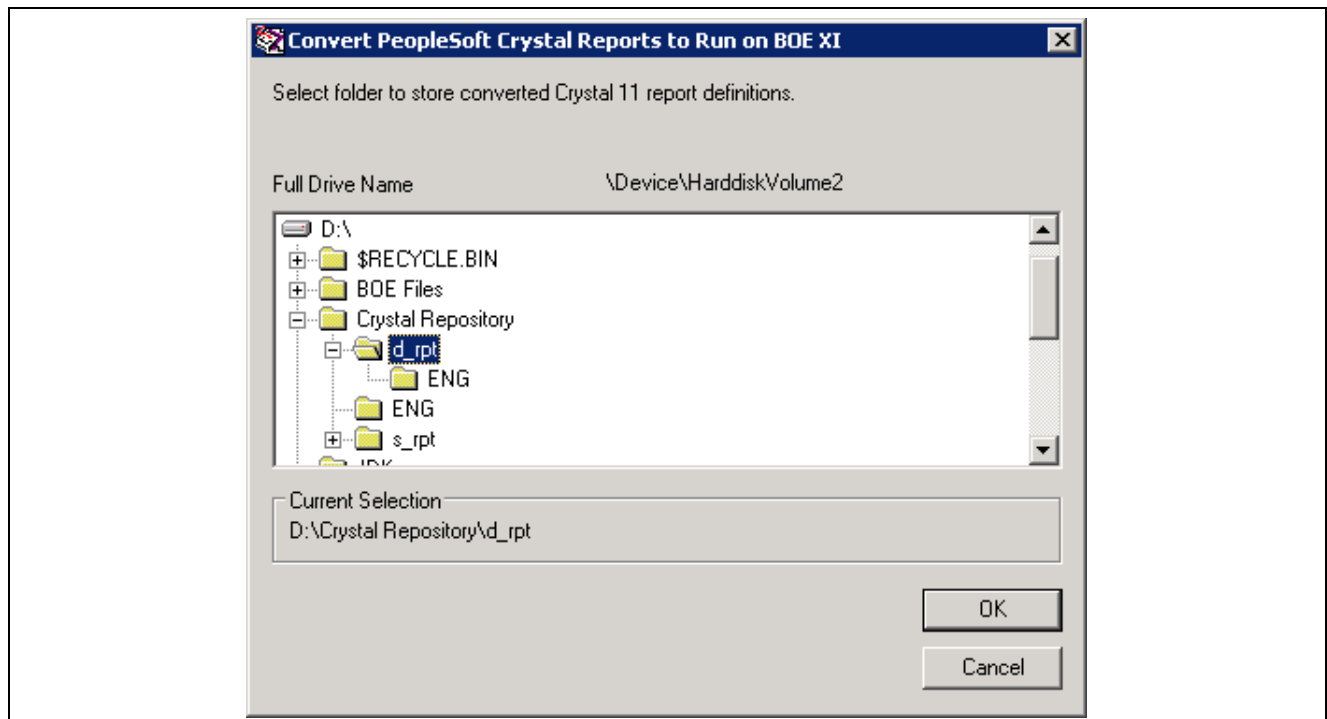
The report input directory must contain a subdirectory that is identified by a language code; the Crystal report definitions to be converted reside in this subdirectory.

For example, select D:\Crystal Repository\s\_rpt if the reports to be converted are located in D:\Report Repository\s\_rpt\ENG.



Specifying the input directory for the Crystal Reports definition conversion

5. Select a report output directory for the converted reports and click OK.



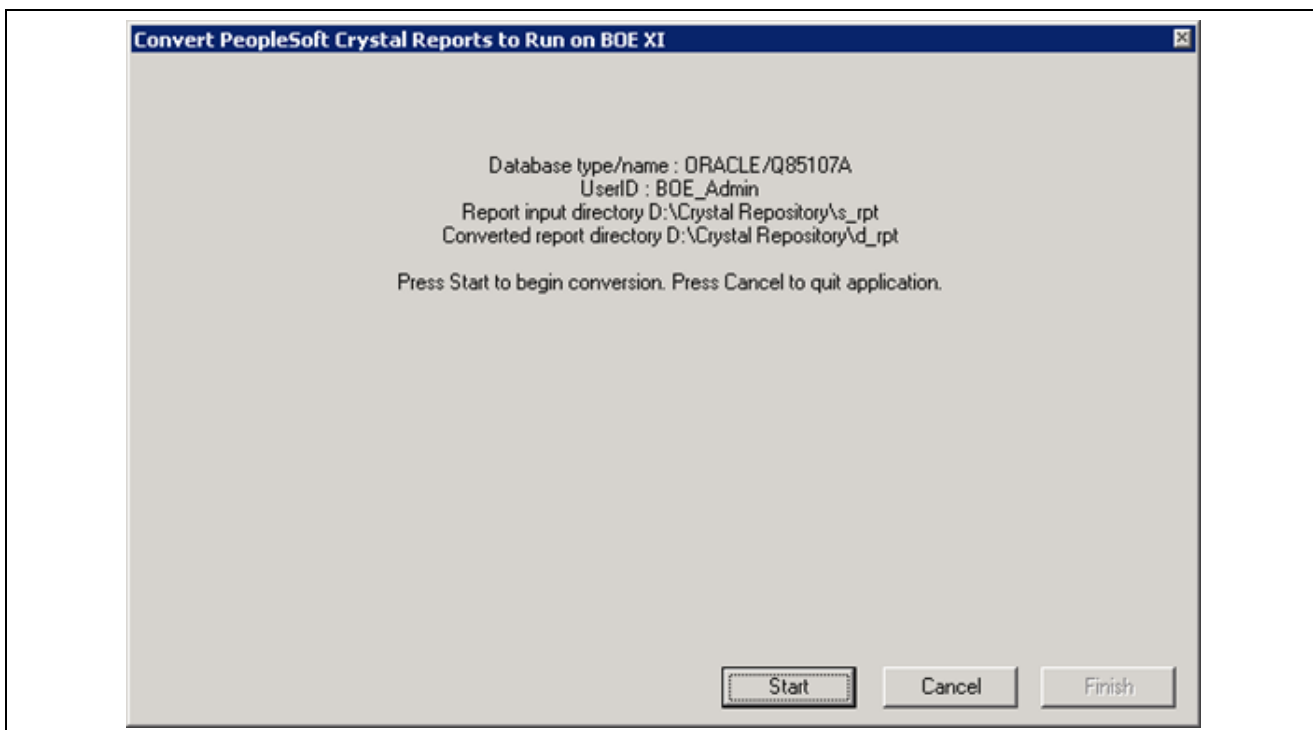
Specifying the output directory for the Crystal Reports definitions conversion

This can be any writable directory, however it cannot be a subdirectory of the report input directory. For example, if the reports to be converted are located in D:\\Crystal Repository\\s\_rpt\\ENG, the report output directory cannot be D:\\Crystal Repository\\s\_rpt\\NEW.

The conversion program will create an appropriate language subdirectory in which the converted reports will be placed. Therefore, if you want your converted reports to be placed in D:\\Crystal Repository\\d\_rpt\\ENG, enter D:\\Crystal Repository\\s\_rpt as the report output directory.

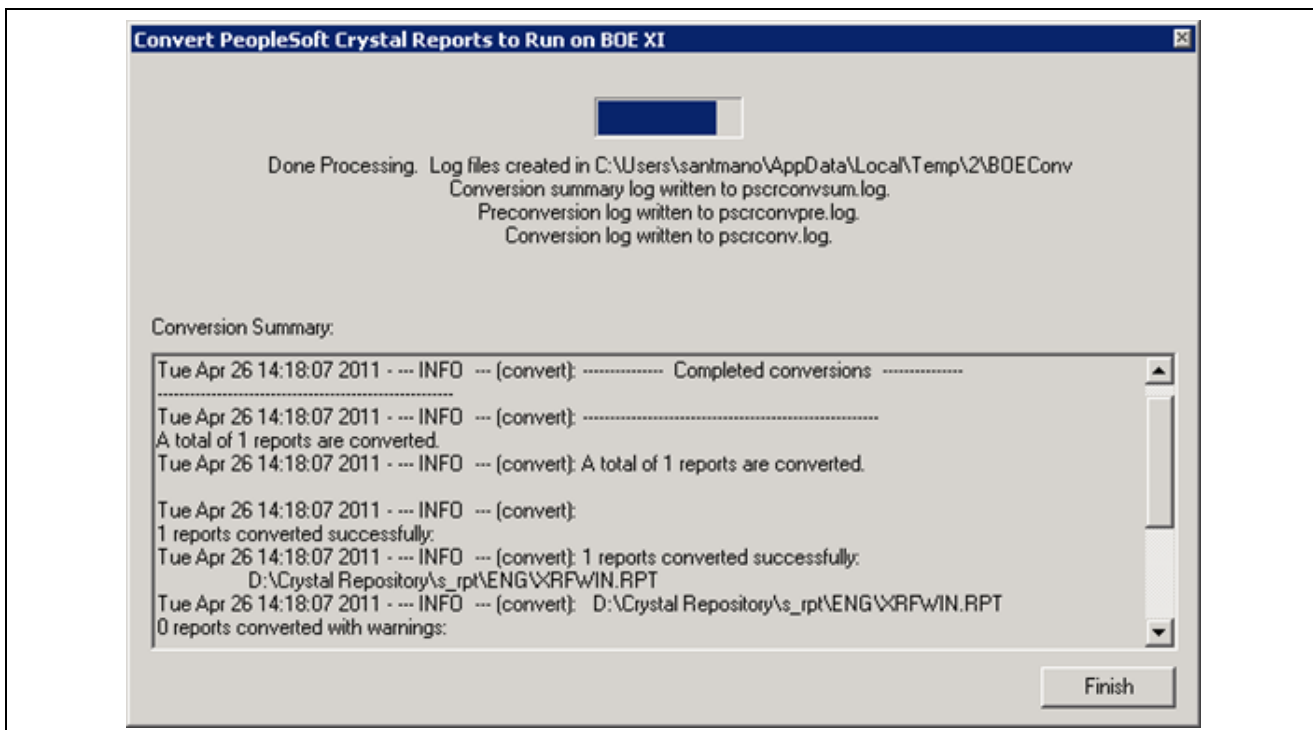
6. Review the information on the summary screen.

The summary includes the database name, user ID, report input directory, and converted report directory. After validating the information, click the Start button to begin the process. Clicking Cancel will cause you to exit from the program.



Summary information for the Crystal Reports conversion

A window appears indicating that the conversion is processing. Once the process is complete, a summary details information about the execution. This information is also written to the *PS\_HOME\bin\client\winx86\pscrconvsum.log* file.



Progress indicator for the Crystal Reports conversion

7. Click the Finish button.

8. After the report is published to the BOE Repository, right-click the published report in CMC and update the database configuration information.
9. Verify the conversion using the procedure given earlier.

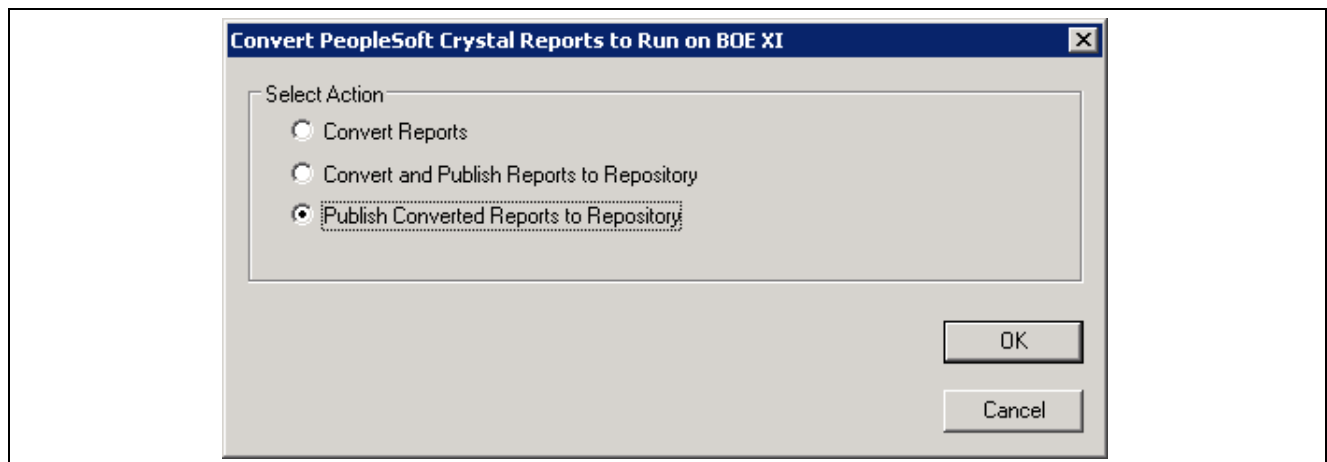
See Verifying the PeopleSoft to SAP BusinessObjects Enterprise XI 3.1 Integration.

The following section also gives information on verifying and troubleshooting the conversion process.

## Publishing Reports to the SAP BusinessObjects Enterprise/Crystal Reports Repository

To publish converted reports:

1. Run `pscrconv.exe` from `PS_HOME\bin\client\winx86` directory.
2. Sign into the PeopleSoft database, if you have not already done so.  
Log in as user `BOE_Admin`.
3. Select Publish Converted Reports to Repository on the Convert PeopleSoft Crystal Reports to Run on BOE XI dialog box, as shown in this example:

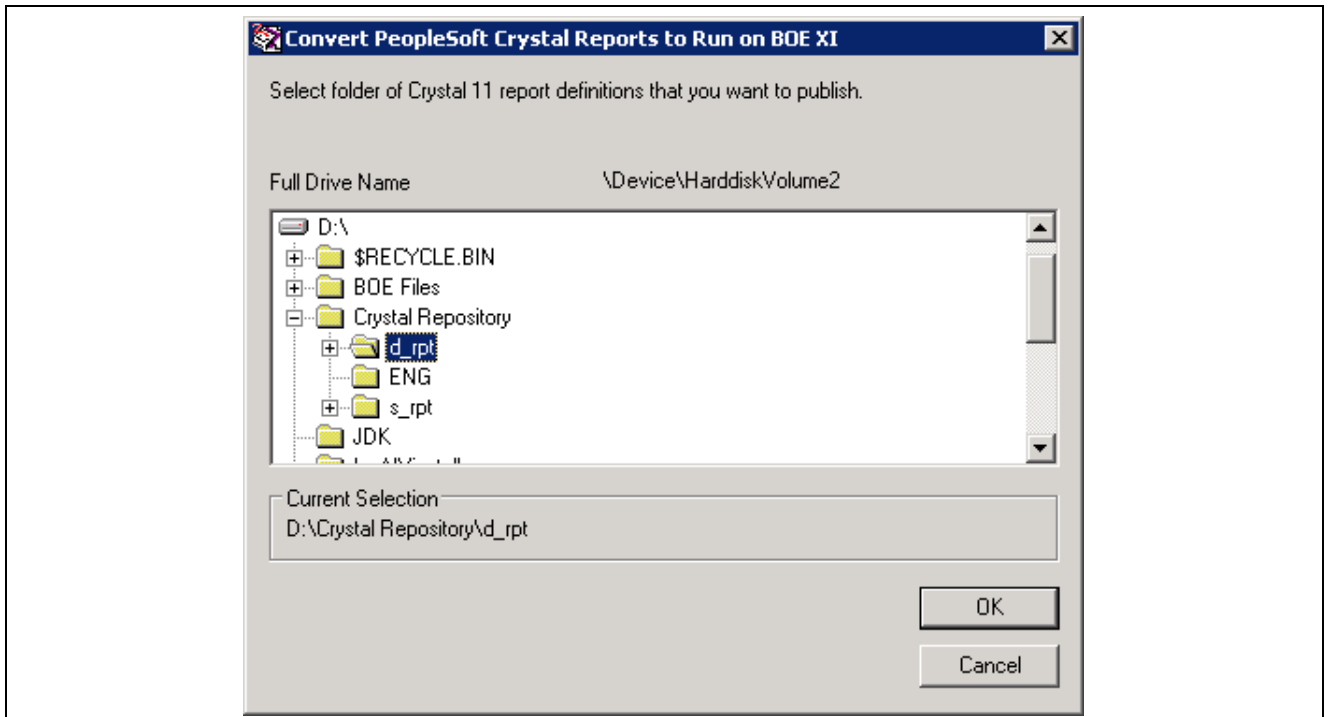


Selecting the publish option on the Convert PeopleSoft Crystal Reports to Run on BOE XI dialog box

If you choose to Publish Reports to the repository, you are publishing to the Report Repository report definitions that have already been converted to SAP Crystal Reports 2008 or Crystal Reports 2011 format

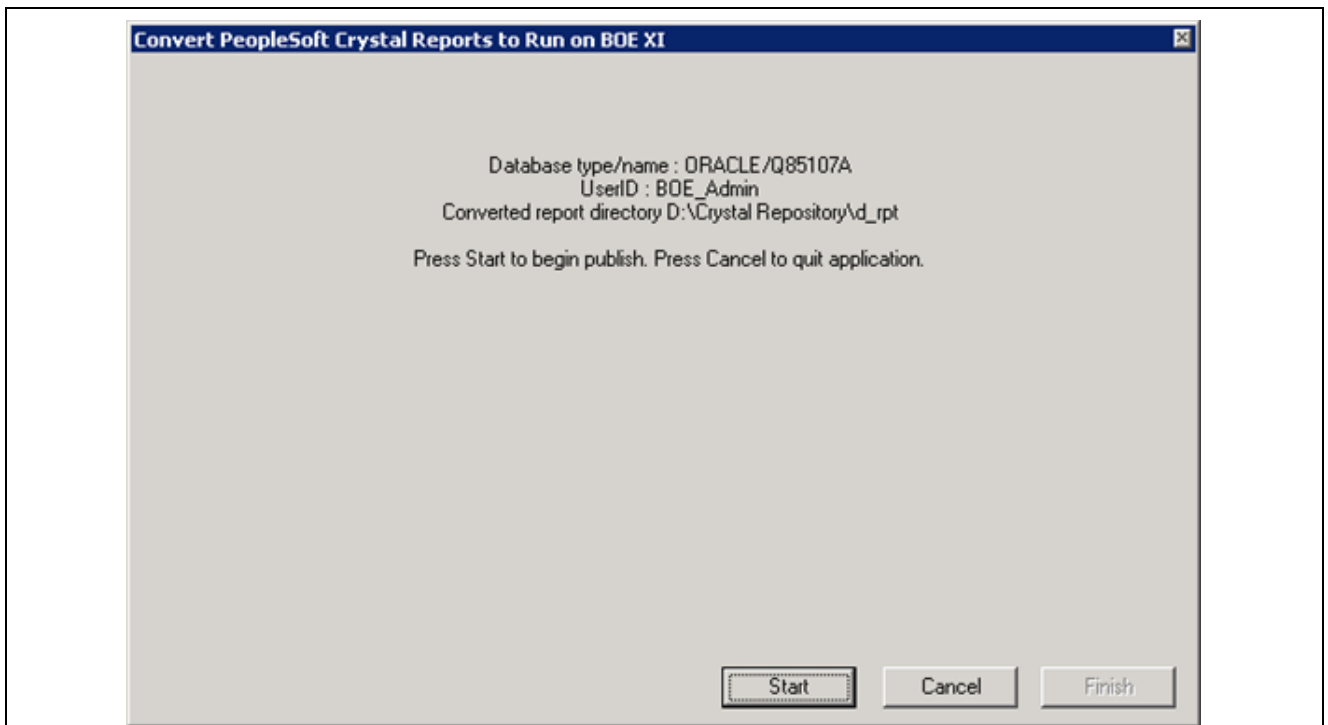
4. Select the Crystal Report definition that you want to publish, by navigating to the directory.

In this example, the report directory is `D:\Crystal Repository\d_rpt`.



Selecting the directory containing Crystal Reports to publish

5. Validate all of the information before beginning the conversion.



Summary information for the Crystal Report publishing

6. Enter the following details (only if prompted and this dialog box appears) required for publishing the report to BusinessObjects Enterprise:

The screenshot shows a configuration window titled "Oracle PeopleTools 8.48". It contains several input fields for configuring BOE integration:

- Database Name:** Q85107A
- Crystal Report Source Directory:** D:\Crystal Repository\d\_rpt
- CMS Server Address:** <BOE\_MACHINE>:<port>
- Domain:** BOEWIN
- BOE User:** BOE\_Admin
- BOE Password:** (masked with dots)

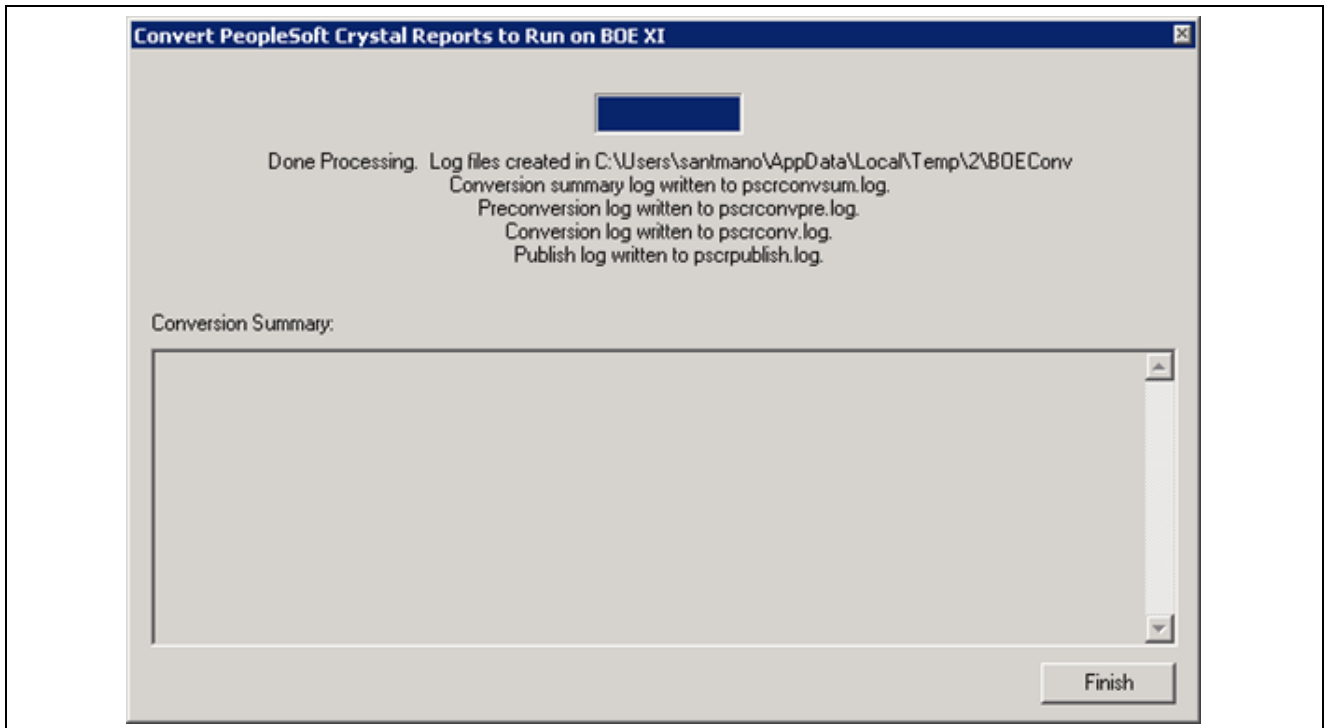
At the bottom, there are "OK" and "Cancel" buttons. Below the buttons is a copyright notice: "Copyright © 1998, 2009 Oracle. All rights reserved. PeopleSoft is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners."

Entering BOE database and domain information

- **Database Name:** Enter the name of the database used for the PeopleSoft installation for which BOE integration is being configured, Q85107A in this example.
- **Crystal Report Source Directory:** Enter the location where the converted report has been saved for publishing, D:\Crystal Repository\d\_rpt in this example.
- **CMS Server Address:** Enter the BOE CMS address, <BOE\_MACHINE>:<port> in the example.
- **Domain:** Enter the BOE domain configured in the PeopleSoft application, BOEWIN in this example.
- **BOE User/Password:** Enter the administrator user (BOE\_Admin in this example) and its password.

7. Click Finish.

The following example shows the messages for a successful conversion:

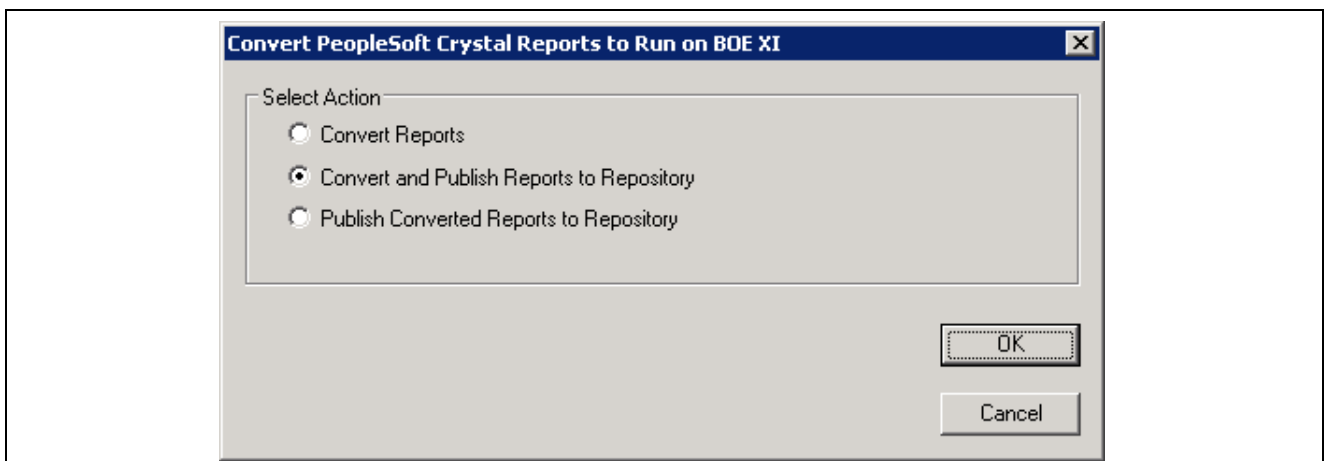


Process Complete messages

## Converting and Publishing Reports to the SAP BusinessObjects Enterprise/Crystal Reports Repository

To convert and publish reports:

1. Run `pscrconv.exe` from `PS_HOME\bin\client\winx86` directory.
2. Sign into the PeopleSoft database, if you have not already done so.  
Log in as user `BOE_Admin`.
3. Select the option `Convert and Publish Reports to Repository`, as shown in this example:



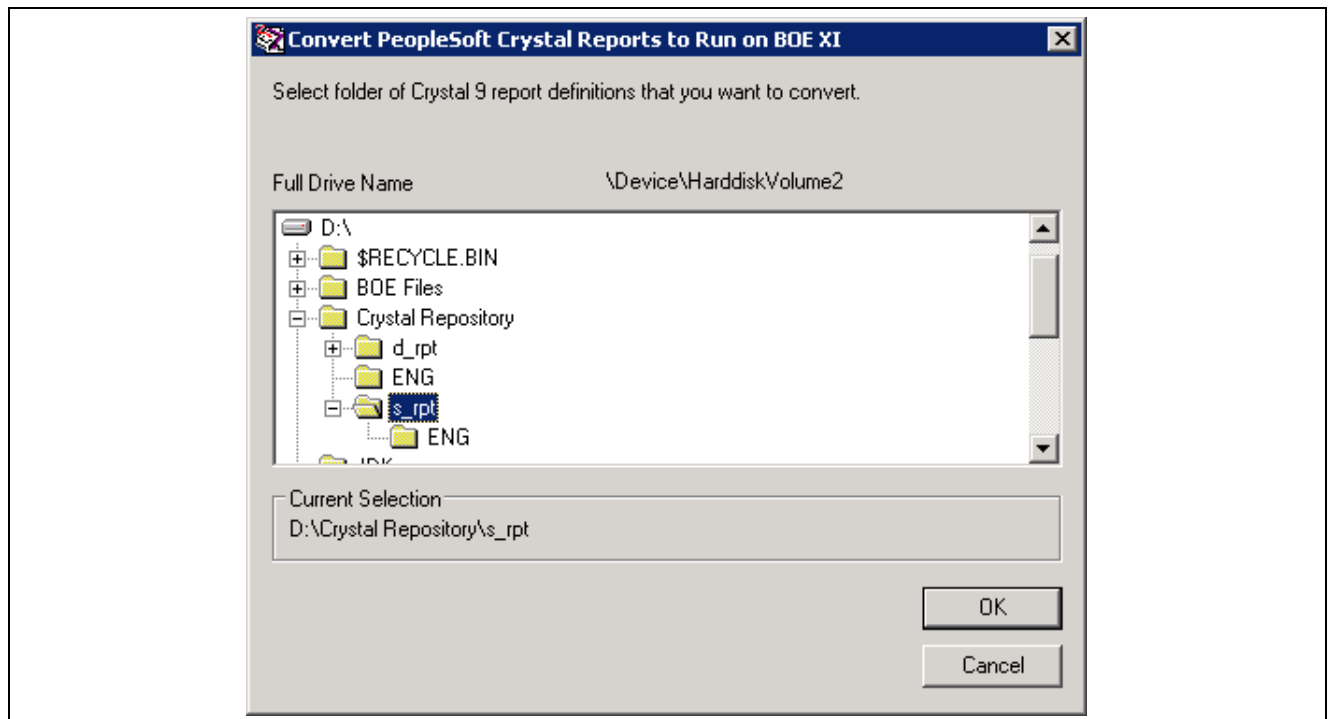
Selecting the convert and publish option on the Convert to PeopleSoft Crystal Reports to Run on BOE XI dialog box

Converting reports and publishing them to the SAP BusinessObjects Enterprise XI 3.1 report repository allows you to go from running Crystal Reports 9 report definitions to running SAP Crystal Reports 2008 or Crystal Reports 2011 report definitions using SAP BusinessObjects Enterprise XI 3.1 with the PeopleSoft Process Scheduler.

4. Select the report input directory from where the Crystal report definition needs to be converted and click OK.

The report input directory must contain a subdirectory that is identified by a language code; the reports to be converted reside in this subdirectory.

For example, select D:\Crystal Repository\s\_rpt if the reports to be converted are located in D:\Report Repository\s\_rpt\ENG.



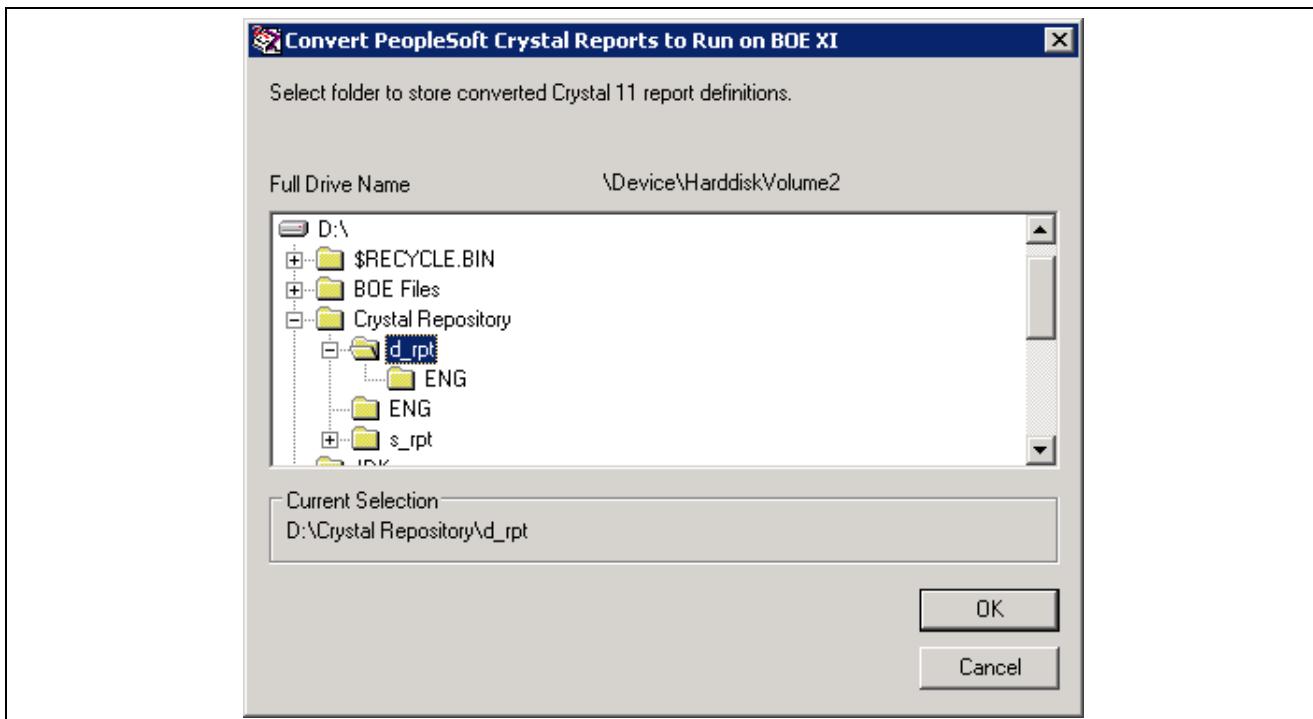
Selecting the Crystal Report input directory

5. Select a report output for the converted reports and click OK.

This can be any writable directory; however it cannot be a subdirectory of the report input directory. For example, if the reports to be converted are located in D:\Crystal Repository\s\_rpt\ENG, the report output directory cannot be D:\Crystal Repository\s\_rpt\NEW.

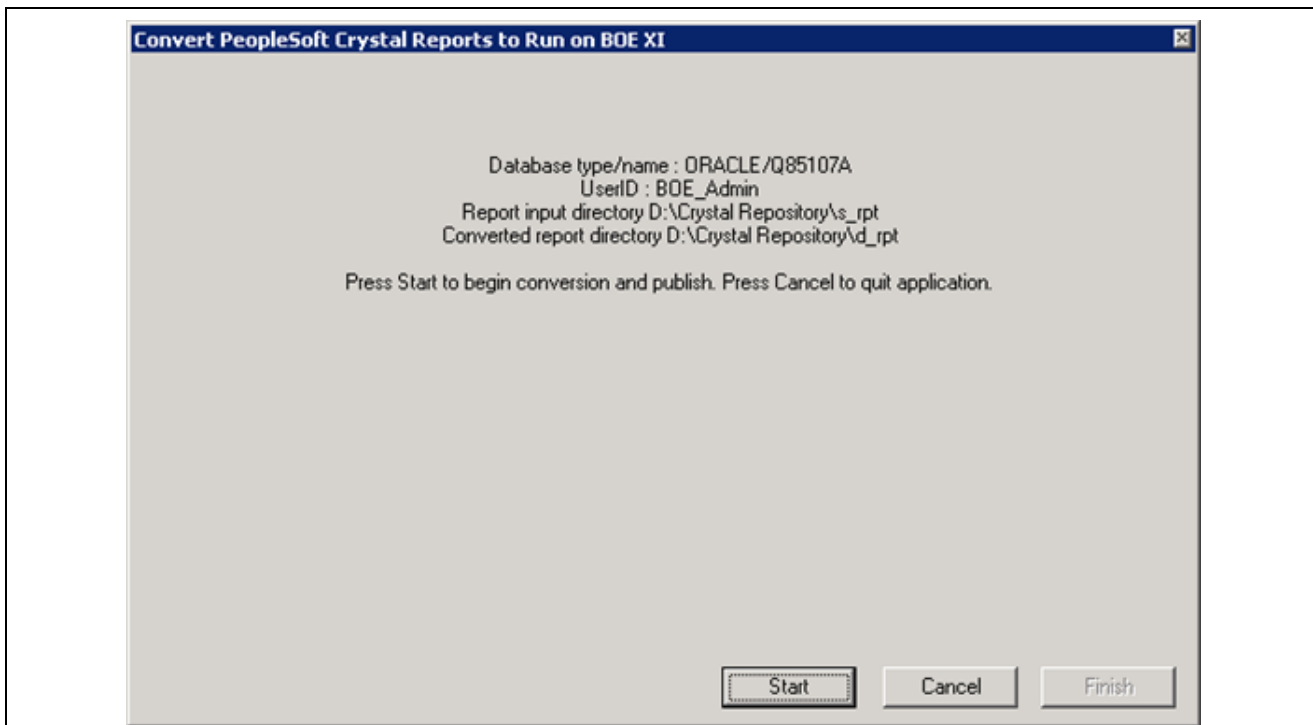
The conversion program will create an appropriate language subdirectory in which the converted reports will be placed. Therefore, if you want your converted reports to be placed in D:\Crystal Repository\d\_rpt\ENG, enter D:\Crystal Repository\s\_rpt as the report output directory.





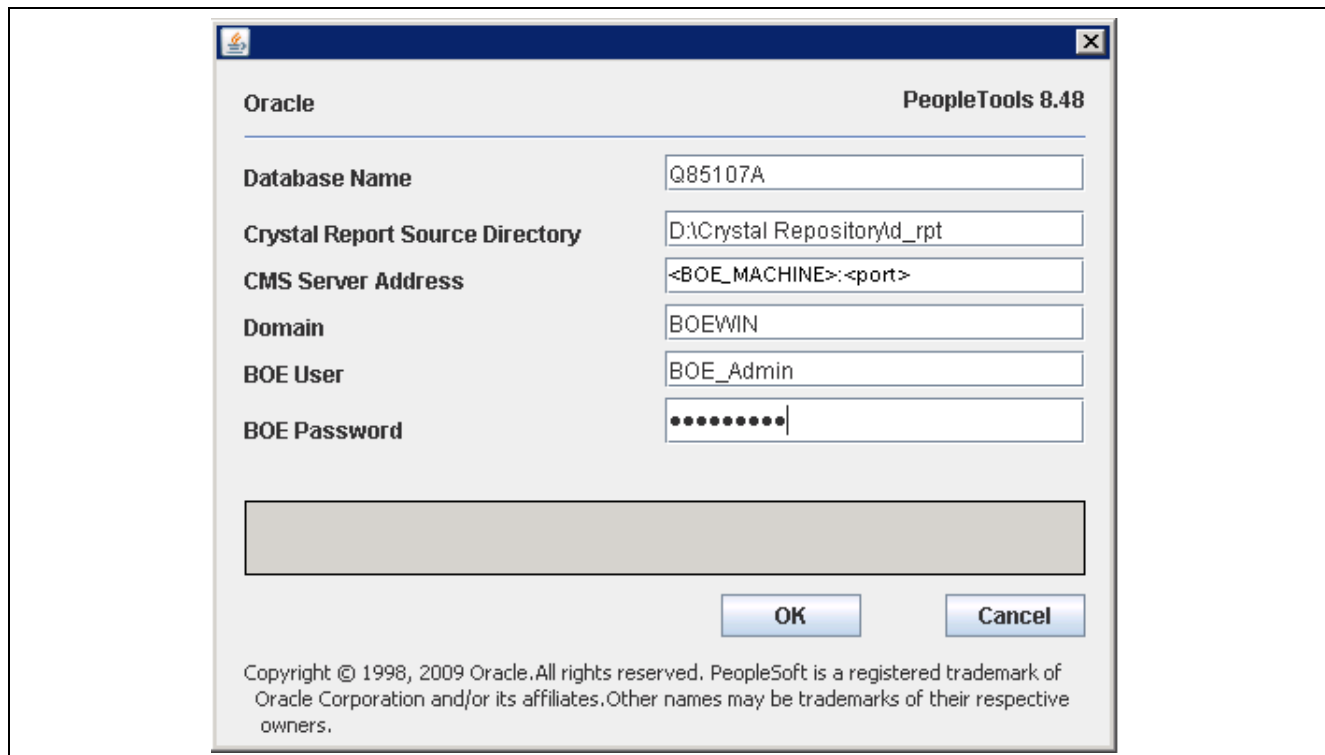
Selecting the Crystal Report output directory

6. Validate all the information before beginning the conversion as shown on this summary page:



Summary window for the Crystal Report conversion and publishing

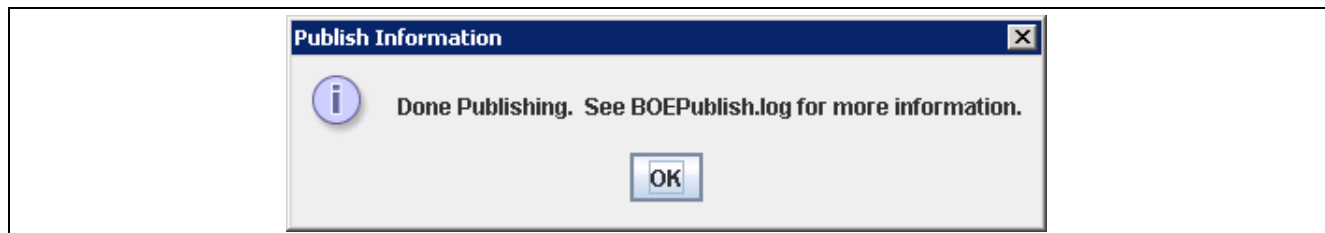
7. Enter the following details (only if prompted and this dialog box appears) required for the publication, as shown in the example:



Entering BOE database and domain information

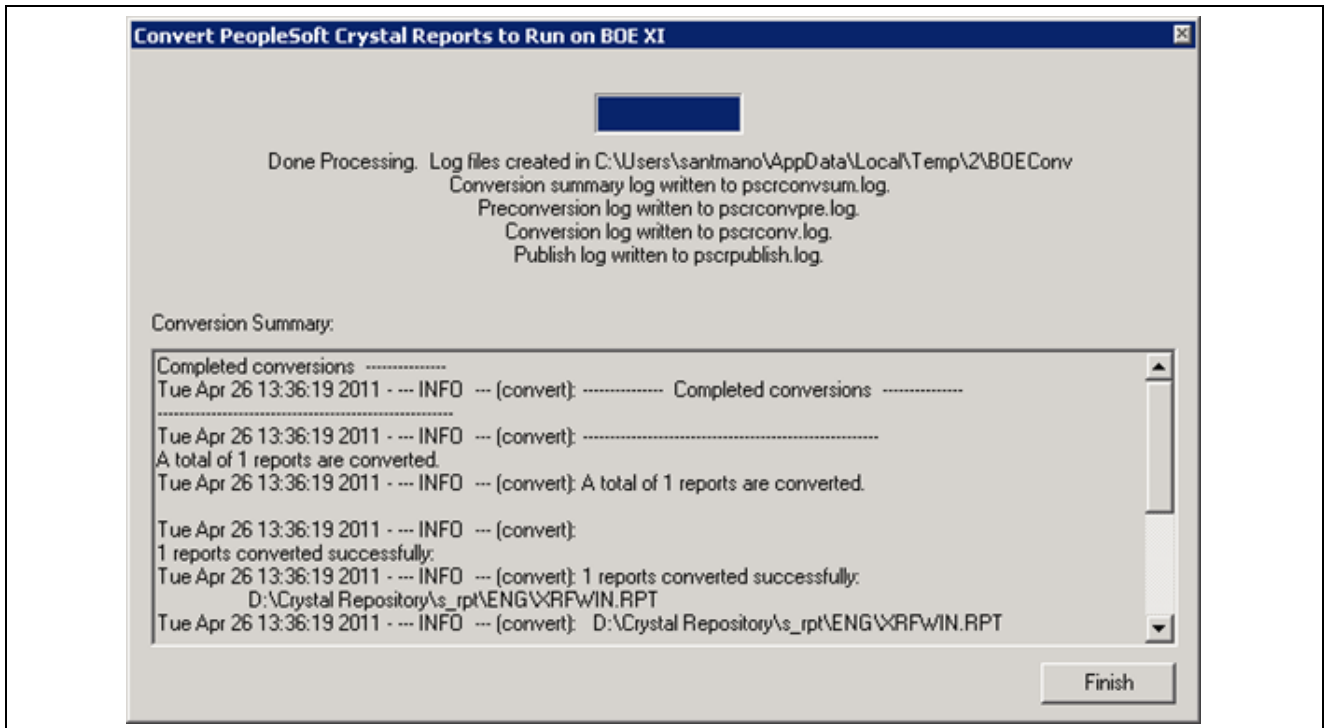
- Database Name:
- Crystal Report Source Directory:
- CMS Server Address:
- Domain:
- BOE User/Password

8. Click OK.



Done Publishing message

For a successful conversion, a window appears indicating that the conversion is processing. Once the process is complete, a summary details information about the execution. This information is also written to the *PS\_HOME\bin\client\winx86\psrconvsum.log* file.



Conversion Summary after processing completion

## Verifying the Conversion and Publish

Use these steps to verify that your reports are converted properly:

1. Review the conversion logs.

Two log files are generated every time the conversion is run.

**PSCRCONVSUM.LOG**      the summary log

**PSCRCONV.LOG**      the detailed log

These files will be found under your TEMP directory:

*TEMP*\boeconv.

---

**Note.** These files will be overwritten each time you run the conversion program. If you want to save the logs from a previous run, rename them before you run the process.

---

The log files will contain information about the conversion for all reports that you submitted for conversion in that execution of the conversion program.

- a. Review the Summary conversion log, PSCRCONVSUM.LOG.

The fastest way is to search the summary log for “Error” and “Warn”. If no reports had error or warnings then the conversion was successful. If an error or warning condition is indicated on the summary log, proceed to the next step to check the detailed log.

Here is a sample summary conversion log:

```
Completed conversions -----
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): ----- =>
Completed conversions -----
```

```

Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): -----=>

A total of 13 reports are converted.
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): A total of 13 reports=>
are converted.

Fri Jan 20 13:24:31 2006 - --- INFO --- (convert):
13 reports converted successfully:
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): 13 reports converted=>
successfully:
 C:\pt849801i1\CRW\ENG\XRFAPFL.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG=>
\XRFAPFL.RPT
 C:\pt849801i1\CRW\ENG\XRFFLPC.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG=>
\XRFFLPC.RPT
 C:\pt849801i1\CRW\ENG\XRFFLPN.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG=>
\XRFFLPN.RPT
 C:\pt849801i1\CRW\ENG\XRFFLRC.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG=>
\XRFFLRC.RPT
 C:\pt849801i1\CRW\ENG\XRFIELDS.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG=>
\XRFIELDS.RPT
 C:\pt849801i1\CRW\ENG\XRFMENU.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG=>
\XRFMENU.RPT
 C:\pt849801i1\CRW\ENG\XRFPANEL.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG=>
\XRFPANEL.RPT
 C:\pt849801i1\CRW\ENG\XRFPNFL.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG=>
\XRFPNFL.RPT
 C:\pt849801i1\CRW\ENG\XRFPNPC.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG=>
\XRFPNPC.RPT
 C:\pt849801i1\CRW\ENG\XRFRNFL.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG=>
\XRFRNFL.RPT
 C:\pt849801i1\CRW\ENG\XRFRCPN.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG=>
\XRFRCPN.RPT
 C:\pt849801i1\CRW\ENG\XRFRWIN.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG=>
\XRFRWIN.RPT
 C:\pt849801i1\CRW\ENG\XRFRWNFL.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG=>
\XRFRWNFL.RPT

```

```

0 reports converted with warnings:
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): 0 reports converted with⇒
warnings:
0 reports failed to convert:
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): 0 reports failed to⇒
convert:

Fri Jan 20 13:24:31 2006 - --- INFO --- (convert):

Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): -----⇒
⇒
⇒

```

b. If necessary review the detailed conversion log, PSCRCONV.LOG

It is not necessary to perform this step if the summary conversion log indicates that all reports converted successfully.

The detailed log contains three types of messages:

```

INFO
WARN
ERROR

```

You need to eliminate all ERROR messages. The best policy is to understand why all WARN messages are generated and eliminate them if you can.

Here's a portion of the detailed log that illustrates a successfully converted report:

```

...
...
Converting the report "C:\pt849801i1\CRW\ENG\XRFAPFL.RPT".
Fri Jan 20 13:29:46 2006 - --- INFO --- (convert): Converting the report "C:⇒
\pt849801i1\CRW\ENG\XRFAPFL.RPT".
Fri Jan 20 13:29:46 2006 - --- INFO --- (verify): Verifying the report⇒
before conversion.
Fri Jan 20 13:29:46 2006 - --- INFO --- (verify): Successfully verified⇒
the report.
Fri Jan 20 13:29:50 2006 - --- INFO --- (convert): Successfully converted⇒
report "C:\pt849801i1\CRW\ENG\XRFAPFL.RPT" to target "c:\cnew\ENG⇒
\XRFAPFL.RPT".
...
...

```

If a report has one or more ERROR messages associated with it, it failed conversion. If a report has only WARN and INFO messages associated with it, it passed conversion and will run. The WARN messages may indicate some changes you may want to make to the report definition.

See [Reviewing Common Conversion Errors and Warning Messages](#).

2. Re-run the conversion on the altered reports

After you have made changes to address the ERRORS and WARNs, re-run the conversion program. You should exclude from this execution of the conversion program any reports that were successfully converted in prior executions.

### 3. Verify report publishing.

To verify that the reports published properly, launch the BusinessObjects Enterprise XI 3.1 Admin Console (on Infoview) and locate the shared folder with the database name you used to publish. Ensure that the number of reports with the datetime of the Publish process matches the number of Crystal Reports XI report definition files that you wanted to publish.

### 4. Run the converted reports.

For final verification that the reports you converted are correct, you should run the converted reports and compare their output to their unconverted (that is, Crystal 9) counterparts. You should compare them for equivalent layouts and equivalent data.

To run the report in BusinessObjects Enterprise XI 3.1 InfoView:

- a. Log onto BusinessObjects Enterprise XI 3.1 Infoview with user BOE\_Admin.
- b. Use search edit box at top to find the report that you want to run.
- c. In the search results choose the report.
- d. Enter report parameters, if any, and the report displays.

## Reviewing Common Conversion Errors and Warning Messages

Here are some conversion errors that you may encounter as you convert your reports. For each we suggest possible ways to address the problem.

- **ERROR** — Failed to update the data source of table *[datasource(table name)]* to QUERY.*[query name]*

For example:

```
Converting the report "C:\M\CRWFDM\ENG\FORA003-.RPT".
Fri Jan 13 18:10:00 2006 - --- INFO --- (convert): Converting the report "C:\M\
\CRWFDM\ENG\FORA003-.RPT".
Fri Jan 13 18:10:00 2006 - --- INFO --- (verify): Verifying the report before⇒
conversion.
Fri Jan 13 18:10:00 2006 - --- INFO --- (verify): Successfully verified the⇒
report.
Fri Jan 13 18:10:01 2006 - --- ERROR --- (convert): Failed to update the data⇒
source of table EB_EAB(EB_EAB_GEN0) to QUERY.EB_EAB.
```

Things to check:

- Does the offending query exist in the database?
- Does the PeopleSoft user doing the conversion (that is, the PeopleSoft user that you provided to the conversion program) have security in the PeopleSoft database to access the query?
- **WARN** — Encountered a duplicate table *[table name]*. Skipping element.
- **WARN** — Encountered an element "field" within an invalid "table" element. Skipping element.

For example:

```
Thu Jan 19 11:07:29 2006 - --- INFO --- (parse): -----⇒

```

```

Thu Jan 19 11:07:29 2006 - --- INFO --- (parse): ----- Reading⇒
command file -----
Thu Jan 19 11:07:29 2006 - --- INFO --- (parse): -----⇒

Thu Jan 19 11:07:29 2006 - --- INFO --- (parse): Parse commands from file⇒
pscrconv.xml
Thu Jan 19 11:07:29 2006 - --- WARN --- (parse): Encountered a duplicate⇒
table WFA0001_AVERAGES_BY_BP_WL. Skipping element.
Thu Jan 19 11:07:29 2006 - --- WARN --- (parse): Encountered an element⇒
"field" within an invalid "table" element. Skipping element.
Thu Jan 19 11:07:29 2006 - --- WARN --- (parse): Encountered an element⇒
"field" within an invalid "table" element. Skipping element.
Thu Jan 19 11:07:29 2006 - --- WARN --- (parse): Encountered an element⇒
"field" within an invalid "table" element. Skipping element

```

These two warnings are often seen together. They can be generated when two reports being converted in the same execution of the conversion program use the same query.

There is no need to take action on these warnings.





## CHAPTER 17

# Adding New Product Modules

---

### Task 17-1: Adding New Modules to PeopleSoft 8.4 Installations

This task explains how to add new application modules to an existing PeopleSoft installation. Follow this procedure if, for example, you already installed HCM Benefits Administration and now you need to install Pension Administration.

When you add new application modules to an existing installation, you may overwrite files that were included as part of a patch or fixes, or customizations that you applied. For example, suppose you customize a report that is updated in a subsequent PeopleSoft release. If you install the update into your current working directory, your customized report will be overwritten with the newly installed, updated report.

The PeopleSoft system does not currently provide an automated way to notify you before overwriting customized modules or patch files. You can make preparations to protect important files from being overwritten. For your customized modules, you need to maintain a backup of any customizations. It is also a good idea to make a copy of your *PS\_HOME* directory before beginning this process, so that you can find and restore necessary patch files. Check My Oracle Support to identify any patches or fixes required for your installation.

See My Oracle Support, Patches & Updates.

To add new module(s) to PeopleSoft 8.4 installations:

1. Back up the database, file server, application server, Process Scheduler Server, and web server components of your current system.
2. Make sure you have the new license code that includes the new module(s). The new license code allows you to load the batch components for the new module(s).

See "Using the PeopleSoft Installer," Obtaining License Codes.

3. Install the PeopleSoft Application software on the file server.
4. When prompted, enter the new license code for your applications.

Initially, all installation options will be selected. You must deselect those programs you do not wish to install.

5. Launch Data Mover in bootstrap mode by logging on with the access ID and password).

Data Mover is located in *PS\_HOME\bin\client\winx86\psdmt.exe*.

See Checking the Log Files and Troubleshooting, Running Data Mover, in the chapters on creating a database.

6. Select File, Database Setup and choose your database type in the resulting dialog.
7. Select Next and select add new product.

8. Select Finish and a Data Mover script that updates the license code will be generated in Data Mover.
9. Select File, Run script and your database updates are complete.
10. Install software to your batch server.

See "Setting Up Process Scheduler."

11. Reapply all code customizations if needed.

---

**Note.** Remember to maintain backup copies of your customizations.

---

12. Compile and link COBOL.

See "Installing and Compiling COBOL <on Windows or UNIX>".

13. Verify that the appropriate Installation Records are selected.

If they are not checked, check them and save the page. To open the page, select Setup <apptype>, Install, Installation Options, where <apptype> is HCM, CRM, Financials/Supply Chain Management, and so on. (For HCM the navigation is Setup <apptype>, Install, Installation Table.)

14. Run the dddaudit and sysaudit SQR reports.

If you are swapping the base language, also run swpaudit.sqr.

See "Completing the Database Setup," Checking the Database.

15. Shut down all application servers.
16. Install software to your application server.
17. Restart all required application servers.
18. Shut down all web servers.
19. Install software to your web server.

See "Setting Up the PeopleSoft Pure Internet Architecture."

## CHAPTER 18

# Installing PeopleSoft Online Help

This chapter discusses:

- Understanding PeopleSoft Online Help (PeopleBooks)
- Installing and Accessing PeopleSoft Online Help
- Configuring Context-Sensitive Help
- Using Oracle Secure Enterprise Search for Full-Text Searches

---

## Understanding PeopleSoft Online Help (PeopleBooks)

The documentation for PeopleSoft PeopleTools and PeopleSoft software applications, formerly known as PeopleBooks, is now available in a dynamic, interactive, accessible HTML version, PeopleSoft Online Help. PeopleSoft Online Help documentation that is accessed with the Help link in the PeopleSoft navigation bar, and Oracle's PeopleSoft Hosted Documentation, are developed for advanced users, administrators, and implementers of the application. End users should utilize embedded help or licensed UPK content for more specific help assistance.

PeopleSoft software applications will include translated embedded help. With the PeopleSoft 9.2 release, PeopleSoft documentation will align with the other Oracle applications by focusing on embedded help. We will be offering very direct translated help at crucial spots within our application through our embedded help widgets. Additionally, we will have a one-to-one mapping of application and help translations. This means that the software and embedded help translation footprint will be identical, something we were never able to accomplish in the past.

The PeopleSoft Online Help is delivered with PeopleSoft PeopleTools and every PeopleSoft application. You have several options for deploying PeopleSoft Online Help to benefit your organization. This chapter describes the methods for accessing, installing, and configuring PeopleSoft Online Help.

- *PeopleSoft Hosted Documentation:* Use PeopleSoft Online Help over the Internet with the PeopleSoft Hosted Documentation web site.
- *Local installation:* Install and configure PeopleSoft Online Help so you can deploy the documentation at your site.
- *Full-text Search:* Install and configure a search tool to take advantage of full-text search in your local installation. This documentation describes how to set up full-text search using Oracle Secure Enterprise Search (SES).
- *Context-sensitive help:* Configure PeopleSoft PeopleTools to call PeopleSoft Online Help as context-sensitive help from both Internet applications and Microsoft Windows-based programs. For instance, when a user clicks the Help link in a browser or presses F1 in Windows, the appropriate documentation appears. You can set up context-sensitive help for both local installations and to access PeopleSoft Hosted Documentation.

---

**Note.** The F1 button accesses PeopleSoft Online Help only for the PeopleTools Development Environment (the Windows-based client). If you press F1 while using the portal, you invoke the help for your current browser. For context-sensitive help in the portal, users need to click the Help link to call PeopleSoft Online Help.

---

- *PDF format:* You can download a PDF version of PeopleSoft Online Help, organized in the traditional PeopleBooks format, from the Oracle Technology Network (OTN).

## See Also

Oracle Documentation, Oracle Technology Network, <http://www.oracle.com/technetwork/documentation/index.html>

"Preparing for Installation," Planning Multilingual Strategy

*PeopleTools: PeopleSoft Applications User's Guide*, "Accessing Embedded Help"

---

## Task 18-1: Installing and Accessing PeopleSoft Online Help

This section discusses:

- Prerequisites
- Accessing PeopleSoft Hosted Documentation
- Obtaining PeopleSoft Online Help and Installation Files from Oracle Software Delivery Cloud
- Installing the PeopleSoft Online Help Locally

## Prerequisites

PeopleSoft Online Help is immediately available for use over the Internet at the PeopleSoft Hosted Documentation web site (<http://www.oracle.com/pls/psft/homepage>). The prerequisite for using this site is an Internet connection available to your server where PeopleSoft PeopleTools is installed.

Alternatively, you can install PeopleSoft Online Help to a file server hosting web server software, as described in the section Installing the PeopleSoft Online Help Locally. For full-text searching capability, you must also set up SES or another search tool.

## Task 18-1-1: Accessing PeopleSoft Hosted Documentation

Open a browser and enter this URL: <http://www.oracle.com/pls/psft/homepage>. Here you can see all the hosted documentation currently available. Select the link for your product application.

You can configure your PeopleSoft server to use PeopleSoft Hosted Documentation for context-sensitive help. Each page in your PeopleSoft applications includes a Help icon that, when clicked, opens a new browser window displaying help topics that discuss that page. To enable the Help link from application pages:

1. Log in to your PeopleSoft application in a browser.
2. Select PeopleTools, Web Profile, Web Profile Configuration.
3. Click Search and select the Profile Name you specified during your PeopleSoft Pure Internet Architecture installation, for example, PROD.

4. On the General page in the Help URL field, enter the URL for your product.

The URLs are available on the PeopleSoft Hosted Documentation web page. Select the link View the simple steps to set up the context sensitive help.

See "View the simple steps to set up the context sensitive help," PeopleSoft Hosted Documentation, [http://download.oracle.com/docs/cd/E17566\\_01/epm91pbr0/eng/psbooks/EnablingtheHelpLinkfromApplicationPages.pdf](http://download.oracle.com/docs/cd/E17566_01/epm91pbr0/eng/psbooks/EnablingtheHelpLinkfromApplicationPages.pdf)

This example shows the top portion of the Web Profile Configuration page with a sample URL:

[http://<HostName>/web/help-PB/help.html?ContextID=%CONTEXT\\_ID%&LangCD=%LANG\\_CD%](http://<HostName>/web/help-PB/help.html?ContextID=%CONTEXT_ID%&LangCD=%LANG_CD%)

The screenshot displays the 'Web Profile Configuration' page, specifically the 'General' tab. The breadcrumb trail at the top reads: 'Main Menu > PeopleTools > Web Profile > Web Profile Configuration'. The Oracle logo is visible in the header. Below the tabs, the 'Profile Name' is set to 'PROD', and the 'Description' is 'Installation Defaults'. The 'Authentication Domain' is empty. The 'Help URL' field contains the sample URL: `http://<HostName>/web/help-PB/help.html?ContextID=%CONTEXT_ID%&LangCD=%LANG_CD%`. Several checkboxes are checked, including 'Compress Responses', 'Compress Response References', 'Compress Query', 'Enable Processing Message', 'Enable New Window', 'Enable PPM Agent', and 'Single Thread Netscape'. The 'PPM Monitor Buffer Size' is set to 51,200 KB, and the 'Single Thread Delay' is 1,000 milliseconds. The 'Non-standard Base Path' field is empty.

Web Profile Configuration General page with a sample PeopleSoft Hosted Documentation URL

5. Save and exit the Web Profile Configuration page.
6. Restart the following servers:
  - If your PeopleSoft Pure Internet Architecture (PIA) is running on Oracle WebLogic, restart the PIA and admin web servers.
  - For IBM WebSphere, restart the PeopleSoft Pure Internet Architecture server.
  - If the Help link does not appear in the next step, it may be necessary to also stop and restart the application server.

7. Test the help functionality by clicking the Help icon on a PeopleSoft application page.

PeopleTools Application Designer also has context sensitive help available through the user's F1 key. To enable this help functionality, the PeopleTools Options must be configured to access the PeopleSoft Hosted Documentation as follows:

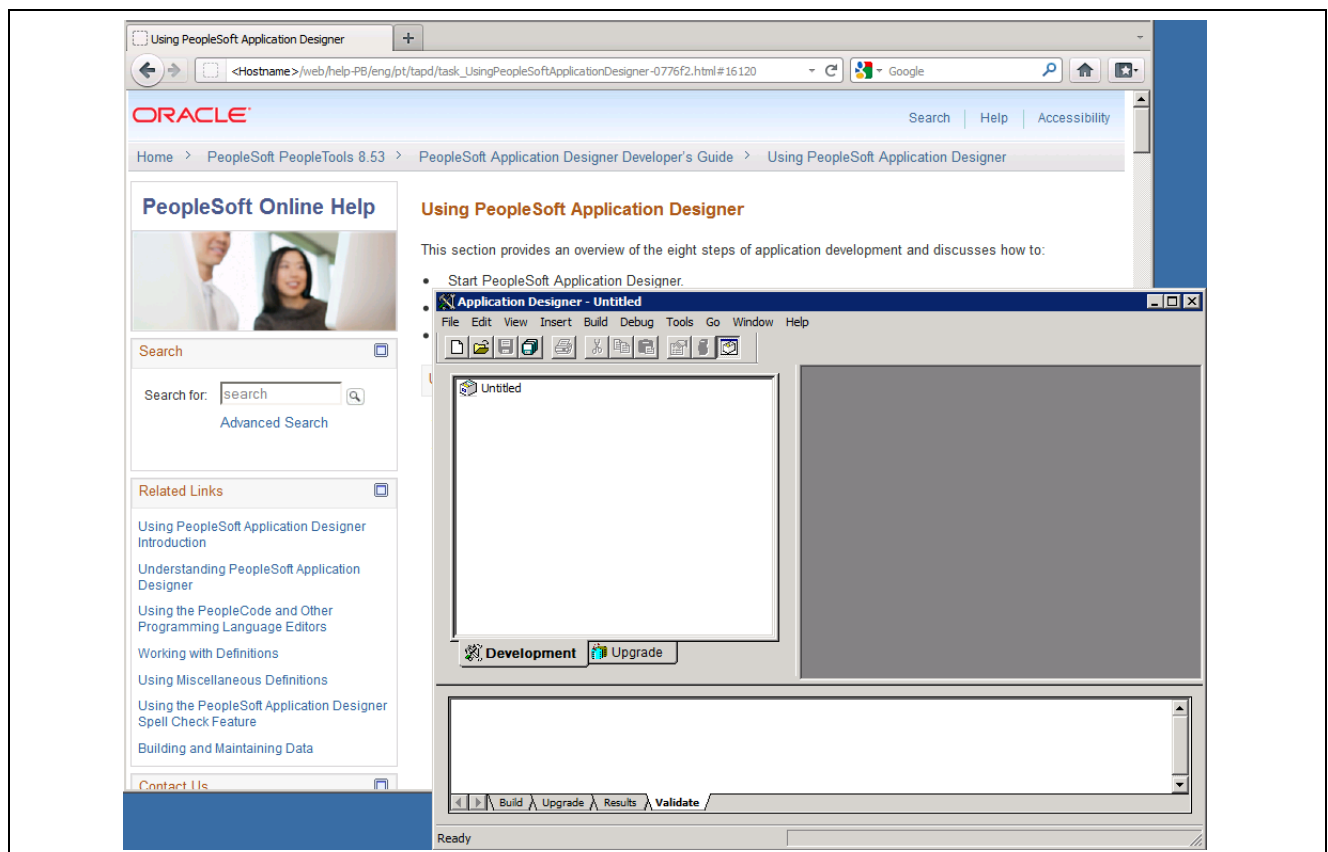
1. In your PeopleSoft application, navigate to the PeopleTools, Utilities, Administration, PeopleTools Options.
2. Scroll down to the Help Options group.
3. Enter the value for the F1 URL field. The URL should be similar to the following:

`http://<HostName>/web/help-PB/help.html?ContextID=%CONTEXT_ID%&LangCD=%LANG_CD%`

**Note.** The correct URL for this field is available on the PeopleSoft Hosted Documentation web page. Select the link View the simple steps to set up the context sensitive help, and select the link for PeopleTools 8.53.

4. Save and exit the PeopleTools Options page.
5. Open Application Designer. Press F1 to display general information on using Application Designer.

This example shows the a browser with the documentation for using Application Designer.



Application Designer with browser showing F1 Help

6. For context sensitive help, open an object, such as a panel or PeopleCode, then press F1.

## Task 18-1-2: Obtaining PeopleSoft Online Help and Installation Files from Oracle Software Delivery Cloud

This section explains locating and using the installation files for PeopleSoft Online Help.

To obtain files for the PeopleSoft Online Help installation from Oracle, after logging in to Oracle Software Delivery Cloud, on the Media Search Pack page, select the *PeopleSoft Enterprise* media pack from the Select a Product Pack drop-down list. Download the zip files for PeopleSoft PeopleTools 8.53 PeopleBooks (Online Help), or for your PeopleSoft Application.

## Task 18-1-3: Installing the PeopleSoft Online Help Locally

PeopleSoft Online Help can be installed directly to a Microsoft Windows, Linux, or UNIX machine. The machine hosting the help must have web server software set up. You may use the web server software supported for PeopleSoft PeopleTools, Oracle WebLogic and IBM WebSphere, or another software of your choosing.

It is not possible to merge the PeopleBooks from previous releases with the PeopleSoft Online Help that is delivered for PeopleSoft PeopleTools 8.53 and later. However, you can use previous PeopleBooks releases in these ways:

- You can add a link to the PeopleSoft Online Help home page to access PeopleBooks from prior PeopleSoft releases. See the product documentation *Using and Managing the PeopleSoft Online Help* for information. To access this documentation, select the Help link at the top of any page in the PeopleSoft Hosted Documentation web site.
- If your local installation of the PeopleSoft Online Help is set up for full-text search, you can include previous PeopleBooks releases in a search source group. See the section Using Oracle Securing Enterprise Search for Full-text Searches for information on setting up source groups.

To install the PeopleSoft Online Help software on a file server with web server:

1. Go to the directory where you downloaded the PeopleSoft Online Help installation files.
2. Extract the contents of the zip file to your web server root, where you want the PeopleSoft Online Help to reside.

After the extraction, there will be a folder with the sku number, such as pt853pbr1. This documentation refers to this folder as *help\_folder*.

For example, `PS_HOME\websrv\peoplesoft\applications\peoplesoft\PORTAL.war` is the web root folder of an Oracle WebLogic-based PeopleSoft PeopleTools web server installation. If you extract to the Oracle WebLogic web server root, the help installation files will be found in the `PORTAL.war\pt853pbr1` folder.

3. To view PeopleSoft Online Help, open a browser and navigate to an URL comprised of the web root of your server (server name and port number) plus *help\_folder/eng/pt/index.html*:

`http://<server_name>:<port_number>/<help_folder>/eng/pt/index.html`

For example, when the web root is `http://mywebserver:5080`, and the downloaded folder name, based on the sku number, is `pt853pbr1`, the URL for viewing is:

`http://myserver:5080/pt853pbr1/eng/pt/index.html`

4. For full-text search, see the section Using Oracle Secure Enterprise Search for Full-Text Searches.

## Task 18-2: Configuring Context-Sensitive Help

This section discusses:

- Enabling the Help Link from the Application Pages
- Enabling F1 Help

### Task 18-2-1: Enabling the Help Link from the Application Pages

You can configure your PeopleSoft installation so that each page in your PeopleSoft software applications includes a Help link. Clicking the Help link opens a new browser window displaying help topics that discuss that page. Use the instructions in this section to enable the Help link for locally-installed PeopleSoft Online Help only. See the section Accessing PeopleSoft Hosted Documentation for setting up help with PeopleSoft Hosted Documentation.

To enable the Help link from application pages:

1. In your PeopleSoft application, navigate to the PeopleTools, Web Profile, Web Profile Configuration page.
2. Click Search and select the Profile Name you specified during your PeopleSoft Pure Internet Architecture installation.
3. Specify the value for the Help URL field as follows:

```
http://<server_name>:<port_number>/<help_folder>/help.html?ContextID=%CONTEXT_ID%&LangCD=%LANG_CD%
```

---

**Note.** If you do not want the Help icon to display in your applications, clear the Help URL field value.

---

For example, if your web server is called mywebserver, you are using port 5080, and your *help\_folder* is help-PB, the Help URL value would be:

```
http://mywebserver:5080/help-PB/help.html?ContextID=%CONTEXT_ID%&LangCD=%LANG_CD%
```

- Change *<server\_name>* to reflect your installation.
  - Enter the web server port for *<port\_number>*.
  - Enter the folder where you installed the help system files for *<help\_folder>*.
  - The system resolves %CONTEXT\_ID% to the page name from which you called help. The system resolves %LANG\_CD% to the signon language of the user.
4. Save and exit the Web Profile Configuration page.
  5. Before testing help functionality, purge the browser cache on the client and close all web browsers. Restart the application server and web server for PIA.
  6. Test the help functionality by clicking the Help link on a PeopleSoft application page.

### Task 18-2-2: Enabling F1 Help

This procedure describes how to enable F1 help for Application Designer, PeopleCode Editor, and other Microsoft Windows-based PeopleSoft programs.

To enable F1 help:



1. Sign on to your PeopleSoft application using your browser.
2. Select the PeopleTools, Utilities, Administration, PeopleTools Options page.
3. Enter the same URL as in the previous procedure (where *<server\_name>*, *<port\_number>*, and *<help\_folder>* reflect your installation) into the F1 Help URL field:

```
http://<server_name>:<port_number>/<help_folder>/help.html?ContextID=%CONTEXT_ID%&LangCD=%LANG_CD%
```

For example:

```
http://myserver:5080/help-PB/help.html?ContextID=%CONTEXT_ID%&LangCD=%LANG_CD%
```

4. Save the page.

---

## Task 18-3: Using Oracle Secure Enterprise Search for Full-Text Searches

This section discusses:

- Understanding Oracle Secure Enterprise Search and PeopleSoft Online Help
- Prerequisites
- Crawling a Source to Generate Full-Text Search

### Understanding Oracle Secure Enterprise Search and PeopleSoft Online Help

Using Oracle Secure Enterprise Search (SES) for full-text searches allows you to build full-text search for your PeopleSoft Online Help installation and perform advanced searches.

### Prerequisites

Prior to implementing full text search with SES, you must first implement SES. Record the following information, as it will be required when configuring integration between SES and PeopleSoft Online Help:

- SES server host name, and the port on which SES is listening.  
For example, `sesserver.mycompany.com:7779`
- SES administrator user ID and password, that is, the credentials you use to sign on to the SES administration console.
- PeopleSoft Online Help documentation URL

```
http://<server_name>:<port_number>/<help_folder>/eng/pt/index.html
```

### See Also

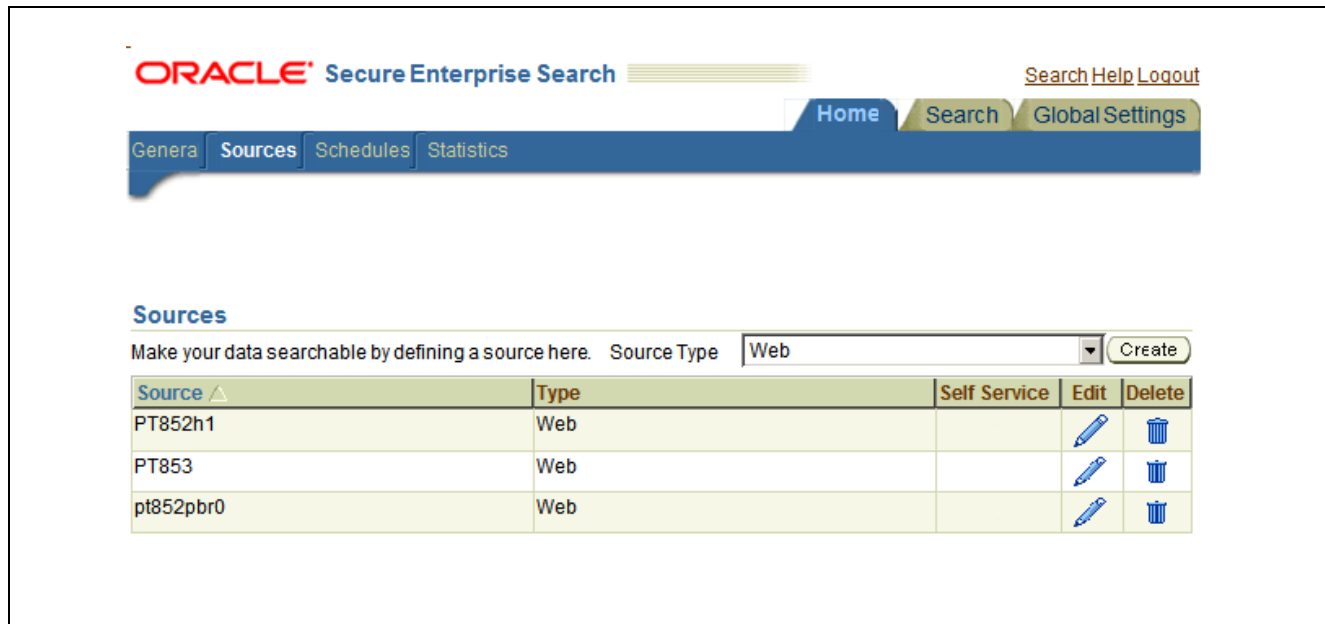
*Oracle® Secure Enterprise Search Installation and Upgrade Guide 11g Release 1 (11.1.2.0.0) for <your operating system>*

"Configuring Integration Between PeopleSoft PeopleTools and Oracle SES"

## Task 18-3-1: Crawling a Source to Generate Full-Text Search

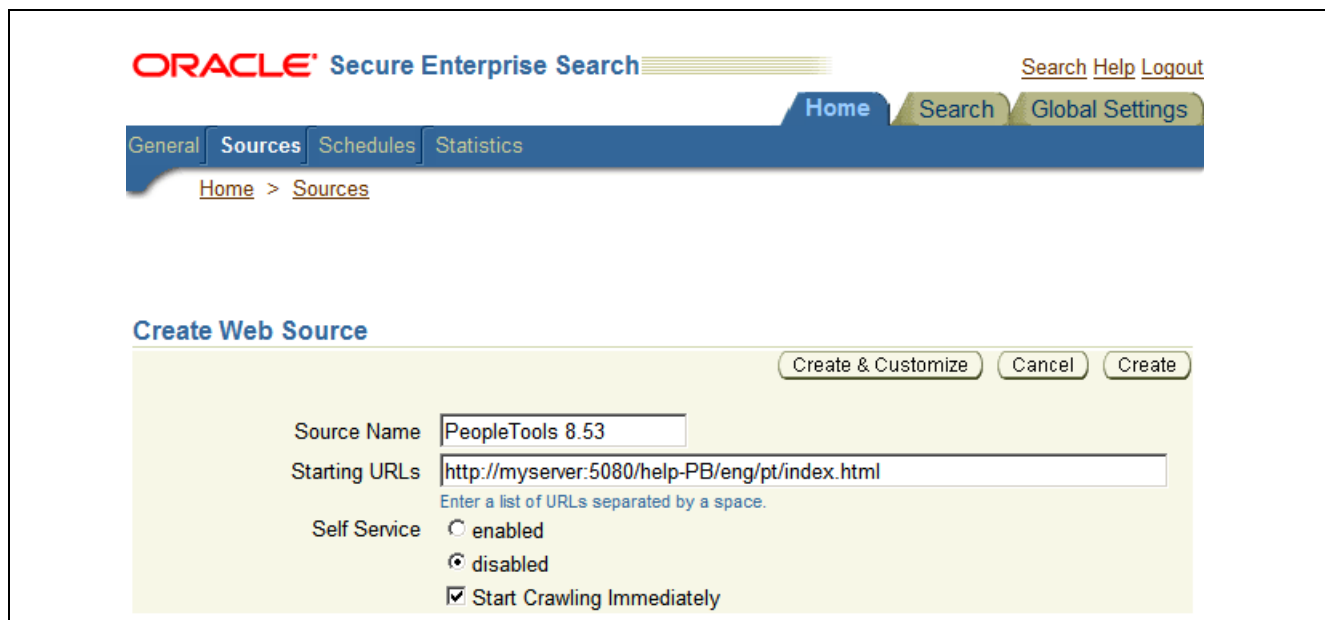
To configure SES for full-text search:

1. Log in to your SES portal.
2. Select Sources at the top left.



SES Sources page with web source types

3. Select the Source Type from the drop-down box, and click the Create button.  
Select Web as the Source Type, as shown in the previous example.
4. Enter a value for Source Name.  
This may be any name you like. In this example, the source name is PeopleTools 8.53.



SES Create Web Source page

- In the Starting URLs field, enter the URL for your PeopleSoft Online Help folder, followed by index.html.  
For example: `http://<server_name>:<port_number>/<help_folder>/eng/pt/index.html`.
- Click the Create button.

You return to the Sources page, which now includes your new source.



**ORACLE Secure Enterprise Search** [Search Help Logout](#)

[Home](#) [Search](#) [Global Settings](#)

[General](#) [Sources](#) [Schedules](#) [Statistics](#)

### Sources

Make your data searchable by defining a source here. Source Type

| Source ▲         | Type | Self Service | Edit | Delete |
|------------------|------|--------------|------|--------|
| PT852h1          | Web  |              |      |        |
| PT853            | Web  |              |      |        |
| PeopleTools 8.53 | Web  |              |      |        |
| pt852pbr0        | Web  |              |      |        |

SES Sources page including PeopleTools 8.53 source

- Select Schedules at the top.
- Locate the search index name in the Schedule Name column.



**ORACLE Secure Enterprise Search** [Search Help Logout](#)

[Home](#) [Search](#) [Global Settings](#)

[General](#) [Sources](#) [Schedules](#) [Statistics](#)

### Crawler Schedules

| Select                | Schedule Name ▲       | Status    | Sources                  | Type         | Log File | Last Crawled             | Next Crawl | Edit | Delete |
|-----------------------|-----------------------|-----------|--------------------------|--------------|----------|--------------------------|------------|------|--------|
| <input type="radio"/> | Mailing list Schedule | Disabled  | All mailing list sources | Mailing list |          |                          |            |      |        |
| <input type="radio"/> | PT852h1               | Scheduled | PT852h1                  | Web          |          | Oct 25, 2012 12:05:45 PM |            |      |        |
| <input type="radio"/> | PT853                 | Scheduled | PT853                    | Web          |          | Nov 4, 2012 7:37:35 PM   |            |      |        |
| <input type="radio"/> | PeopleTools 8.53      | Scheduled | PeopleTools 8.53         | Web          |          | Nov 30, 2012 1:20:01 PM  |            |      |        |

SES Crawler Schedules page

- Select the Edit icon (pencil) in the row for the search index you added.

10. On the Edit Schedule page, under Update Crawler Recrawl Policy, make sure that you have selected the Process All Documents radio button.

Click Update Recrawl Policy, and then click the Finish button.

**ORACLE** Secure Enterprise Search

Home Search Global Settings

General Sources Schedules Statistics

Home > Schedules

**Edit Schedule**

Schedule Name: PeopleTools 8.53

**Assignment**

To add sources to the schedule, select them from the list of available sources and click ">>". To remove sources from the schedule, select them from the list of assigned sources and click "<<". After a source has been assigned to a schedule, it cannot be assigned to another schedule.

Get Available Sources for Type: Database

Available Sources Assigned Sources

>> <<

Note: \* indicates source with "Delete password after crawl" option set

**Update Crawler Recrawl Policy**

When the crawler retrieves a Web, file, or table source document, it checks to see if that document has changed. By default, if the document has not changed, then the crawler does not process it. This significantly speeds up the crawling process. However, in certain situations, it might be desirable to force the crawler to reprocess all documents.

☐ Process Documents That Have Changed  
☒ Process All Documents

**Update Crawling Mode**

This section lets you update the crawling mode.

☒ Automatically Accept All URLs for Indexing  
☐ Examine URLs Before Indexing  
☐ Index Only

Edit Schedule page

11. On the Crawler Schedulers page, click the link in the Status column for your index.

In the previous example, the status for the search index PeopleTools 8.53 is Scheduled.

---

**Note.** When the status on this page is Scheduled, you can select the radio button and then click the Start button. The status will change to Launching, then Executing.

---

12. On the Synchronization Schedule Status page, click the Refresh Status button to monitor job progress.

To see detailed information, click the Statistics icon when it appears in the log file table, as shown below.

**ORACLE® Secure Enterprise Search** [Search](#) [Help](#) [Logout](#)

[Home](#) [Search](#) [Global Settings](#)

[General](#) [Sources](#) [Schedules](#) [Statistics](#)

[Home](#) > [Schedules](#)

[Refresh Status](#)

### Synchronization Schedule Status

Schedule Name: PeopleTools 8.53  
 Status: Executing  
 Next Attempt At: none selected  
 Last Attempt At: Nov 30, 2012 1:20:01 PM

[Stop Schedule](#)

### Crawler Progress Summary and Log Files by Source

For each source associated with this schedule, the crawler logs all activity in a log file. The following table lists all sources with their corresponding log files. Click Statistics to view the crawler progress summary for this source.

Log File Directory: Z:\oracle\product\11.1.2.0\ses\oradata\ses\log\

| Source                    | Log File Name                                                         | Statistics                 |
|---------------------------|-----------------------------------------------------------------------|----------------------------|
| PeopleTools 8.53<br>[Web] | Z:\oracle\product\11.1.2.0<br>\ses\oradata\ses\log\ids22.11301327.log | <a href="#">Statistics</a> |

SES Synchronization Schedule Status page

## 13. Create a Source Group.

Search source groups allow the user to select which index(es) to search. To create a search group:

- Click the Search tab at the top right of the Synchronization Schedule Status page.
- Select Source Groups in the banner at the top, and click Create.

**ORACLE** Secure Enterprise Search

[Search](#) [Help](#) [Logout](#)

[Home](#)
[Search](#)
[Global Settings](#)

[Relevancy](#)
[Suggested Links](#)
[Suggested Content](#)
[Alternate Words](#)
[Source Groups](#)

## Source Groups

Source groups are logical entities exposed to the end user. In the process of specifying a search request, the end user can be asked to select one or more source groups to search from.

A source group consists of one or more sources. Source groups are sorted first by name. Within each source group, individual sources are listed and can be sorted by name or type.

Create

| Group Name | Assigned Sources | Type | Edit | Delete |
|------------|------------------|------|------|--------|
| PT852      | pt852pbr0        | Web  |      |        |
| PT853      | PT853            | Web  |      |        |

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[About Oracle Secure Enterprise Search Version 11.1.2.2.0](#)

SES Source Groups page

- c. Enter a meaningful name to represent the index group.

The name, PeopleTools 8.53 in this example, will be visible to end users. Click Proceed to Step 2.

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[Home](#) [Search](#) [Global Settings](#)

[Relevancy](#) [Suggested Links](#) [Suggested Content](#) [Alternate Words](#) [Source Groups](#)

[Search](#) > [Source Groups](#)

## Create New Source Group: Step 1

Specify an arbitrary name for the group.

Name

[Proceed to Step 2](#)

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Create New Source Group: Step 1 page

- d. Confirm that the source type Web is selected.
- e. From the Available Sources column, highlight the index you just created, then click the double right arrow between the two columns to move the index to the Assigned Sources column.



**ORACLE** Secure Enterprise Search [Search](#) [Help](#) [Logout](#)

[Home](#) [Search](#) [Global Settings](#)

[Relevancy](#) [Suggested Links](#) [Suggested Content](#) [Alternate Words](#) [Source Groups](#)

[Search](#) > [Source Groups](#)

[Finish](#)

## Create New Source Group: Step 2

### Assign Sources to Group

To add sources to the group, select them from the list of available sources and click ">>". To remove sources from the group, select them from the list of assigned sources and click "<<".

Select Source Type

Web

-----Available Sources-----  
PT852h1  
PT853  
pt852pbr0

>>  
<<

-----Assigned Sources-----  
[Web] PeopleTools 8.53

**Note: Successfully updated source group assignments.**

Create New Source Group: Step 2 page

14. Click the Finish button and it will return you to the list of source group names.





**ORACLE** Secure Enterprise Search [Search Help](#) [Logout](#)

Home Search Global Settings



Relevancy Suggested Links Suggested Content Alternate Words **Source Groups**

## Source Groups

Source groups are logical entities exposed to the end user. In the process of specifying a search request, the end user can be asked to select one or more source groups to search from.

A source group consists of one or more sources. Source groups are sorted first by name. Within each source group, individual sources are listed and can be sorted by name or type.

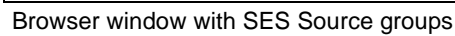
Create

|  Group Name |  Assigned Sources |  Type | Edit                                                                                  | Delete                                                                                |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| PT852                                                                                        | pt852pbr0                                                                                          | Web                                                                                    |    |    |
| PT853                                                                                        | PT853                                                                                              | Web                                                                                    |   |   |
| PeopleTools 8.53                                                                             | PeopleTools 8.53                                                                                   | Web                                                                                    |  |  |

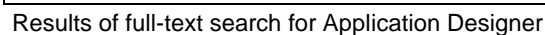
SES Source Groups page with newly created group

15. To test the search index, click the Search link, not tab, at the top right of the screen.

On the browser window that opens, click the name of the Search Source group you created (if applicable) and note the resulting URL, which will serve as the search home for the PeopleSoft Online Help. In this example PeopleTools 8.53 has been selected.



In this example, the Search Source PeopleTools 8.53 is selected and displays results for the search phrase “Application Designer”.




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The screenshot shows the Oracle PeopleTools 8.53 search interface. At the top, the Oracle logo is on the left, and navigation links for 'All', 'PT853', 'PT852', and 'PeopleTools 8.53' are on the right. A search bar contains the text 'Application Designer', with a 'Search' button and links for 'Attribute Filters' and 'Browse'. Below the search bar, a header indicates 'Results 1 - 10 of about 691 matches for Application Designer.' On the left side, there is a 'Narrow Top 100 Results By' section with a 'Hide' link, showing a tree of topics like 'peoplesoft application designer (53)', 'development (46)', 'definitions (42)', 'tools (37)', and 'application (36)'. The main content area displays three search results. The first result is titled 'Application Designer' and describes it as the main application development tool. The second result is 'Using PeopleSoft Application Designer', providing an overview of the development steps. The third result is 'PeopleSoft Application Designer Overview', describing the core development capabilities. Each result includes source group, path, and file size information. At the bottom of the results, there is a link for 'PeopleSoft Application Designer'.

Search Results with filtering options

17. Select a result title to see the online help topic, in this example for Application Designer.

When the Search link on the top of an online help topic is enabled, it allows you to return to the selected Source Group on the SES Search portal. To enable this Search link, see the *Using and Managing the PeopleSoft Online Help* documentation for information on modifying the `<help_folder>/js/common.js` file. The *Using and Managing the PeopleSoft Online Help* documentation can be accessed by selecting the Help link on any PeopleSoft Online Help page.

Search | Help | Accessibility

Home > PeopleSoft PeopleTools 8.53 > Getting Started with PeopleTools > Application Designer

## Application Designer

Application Designer is the main application development tool of the Enterprise PeopleTools suite. It offers a rich set of lifecycle management features that you will use frequently when upgrading, applying updates provided by Oracle, or applying customizations to your production database. These features enable you to:

- Copy projects between databases.
- Compare definitions in one database to like definitions in another to assess the upgrade or update impact.
- Merge definitions from one database to another.
- Create change packages to apply updates to your system automatically using Change Assistant.

### Related Links

[PeopleSoft Application Designer Lifecycle Management Guide](#)

Online help topic for Application Designer

## CHAPTER 19

# Installing Software for PS/nVision Drilldowns

This chapter discusses:

- Understanding PS/nVision DrillDown Add-ins
- Installing the DrillToPIA Add-In
- Installing the nVisionDrill Add-In
- Installing the nVisionDrill Add-Ins for Multi-Language Installations
- Setting Up PeopleSoft Integration Broker for Using Web Service Capability with nVisionDrill Add-in

---

## Understanding PS/nVision DrillDown Add-ins

When you use PS/nVision to view reports, you can use the DrillDown feature to select a cell in your report and expand it according to criteria contained in a special DrillDown layout.

See *PeopleTools: PS/nVision*, "Using DrillDown."

To use the PS/nVision DrillDown feature with Microsoft Excel reports, you need to install one of the following add-ins, as described in this appendix:

---

**Note.** DrillToPIA and nVisionDrill VSTO add-ins do not coexist. You can use only one add-in at a time.

---

- DrillToPIA add-in
- nVisionDrill VSTO add-in (Visual Studio tools for Microsoft Office SE Runtime).

See *PeopleTools: PS/nVision*, "Understanding PS/nVision Reporting on the Web."

Here is the way the two drilldown add-ins work with the supported version of Microsoft Excel:

If the nVisionDrill VSTO add-in was installed, the nVisionDrill add-in runs and the nVisionDrill VSTO drilldown menu is available when Microsoft Excel opens.

Optionally, you can disable the nVisionDrill VSTO add-in and run the DrillToPIA add-in.

---

**Note.** To disable the nVisionDrill VSTO add-in and use the DrillToPIA add-in, access the Add-Ins dialog box and select the DrillToPIA check box. This selection replaces the nVisionDrill VSTO add-in with the DrillToPIA add-in, and the DrillToPIA drilldown menu appears until you reinstall the nVisionDrill VSTO add-in.

To reinstall the nVisionDrill VSTO, double-click the setup.exe file and select the Repair option.

---

---

## Task 19-1: Installing the DrillToPIA Add-In

This section discusses:

- Understanding Drilldown with DrillToPIA Add-in
- Installing the DrillToPIA Add-in on the Microsoft Excel Environment

### Understanding Drilldown with DrillToPIA Add-in

DrillDowns are run on the PS/nVision report server – like Report Requests and Report Books – and are accessible through Report Manager. You can also select to run the DrillDown using the output type of *Window*, which automatically delivers the results to a new browser window. A copy of the results will also be accessible through Report Manager.

You can drill down on individual cells within the report by selecting the cell and using Drill from the nVisionDrill menu for a Microsoft Excel report.

---

**Note.** A drilldown result report inherits the output format of its parent report. So, if the parent instance is in Excel format, then the drilldown result is in Excel format.

---

DrillDown in a web browser does not include the AutoDrill, Drill-to-Query, and Drill-to-Panel options.

### Task 19-1-1: Installing the DrillToPIA Add-in on the Microsoft Excel Environment

To drill down on Microsoft Excel reports, the Microsoft Visual Basic Application (VBA) add-in DrillToPIA.xla file needs to be installed on the Microsoft Excel environment. This file is stored in the *PS\_HOME*\Excel directory on the Application Server. Your System Administrator needs to distribute a copy of this file to all users who need to drill down on Microsoft Excel reports on the Web.

---

**Note.** If a non-English version of Microsoft Excel is used, translated versions of DrillToPIA.xla can be found in the *<PS\_HOME>\Excel\<Language>* directory on the Application Server.

---

In Apple Macintosh systems, PS/nVision DrillToPIA add-in launches Microsoft Internet Explorer for the drilldown page when drilling is performed on a Microsoft Excel report, regardless of the browser from which the original report is opened.

To install the add-in DrillToPIA.xla file into the Microsoft Excel environment:

1. Copy the *PS\_HOME*\Excel\DrillToPIA.xla file, and paste it into the Excel add-in directory.  
If Microsoft Office is installed in the directory *MS\_OFFICE*, the Excel add-ins directory is *MS\_OFFICE*\Office\Library.
2. Launch Microsoft Excel and select Tools, Add-ins from Excel toolbar.
3. Select the DrillToPIA option in the Add-ins dialog box.  
The nVisionDrill menu appears in the Excel menu bar.

---

**Note.** To remove the add-in from the Excel menu, clear the DrillToPIA option from the Add-Ins dialog box.

---

---

## Task 19-2: Installing the nVisionDrill Add-In

This section discusses:

- Understanding PS/nVision DrillDown Using Web Services
- Understanding Security for DrillDown Using nVisionDrill VSTO Add-in
- Installing the nVisionDrill Add-in for Microsoft Excel

### Understanding PS/nVision DrillDown Using Web Services

Starting with PeopleSoft PeopleTools 8.50 and later, you are able to use the web service capability when drilling from summarized to detailed PS/nVision reports using the nVisionDrill VSTO add-in.

To enable DrillDown to use web services, you must install these software items on the machine where drilldown is performed:

- Microsoft Excel 2007 or Excel 2010

The minimum supported version for PeopleSoft PeopleTools 8.53 is Microsoft Excel 2007.

- Visual Studio Tools for Microsoft Office SE Runtime (VSTO add-in)
- Microsoft Office 2007 Primary Interop Assemblies
- nVisionDrill add-in

In addition, take note of the following requirements:

- You must set up and configure Integration Broker to use the nVision Drilldown feature as a web service.  
See *Setting Up Integration Broker for Using Web Service Capability with nVisionDrill Add-in*.
- The web servers should be SSL enabled.

This is because all the web service calls happen through secure channels.

When you create the SSL-enabled web server domain, you need to provide the optional parameter Authentication Token Domain with the appropriate domain name.

---

**Note.** The new nVisionDrill VSTO add-in is mainly designed for remote standalone file drilldown (where the end user doesn't have access to the PeopleSoft Pure Internet Architecture system). For all other purposes and Web drilldown, the nVision users are still encouraged to use the DrillToPIA add-in.

---

### Understanding Security for DrillDown Using nVisionDrill VSTO Add-in

The nVisionDrill VSTO Add-in allows users to perform drilldown without having to access the PeopleSoft Pure Internet Architecture pages. This necessitates that the end users of nVisionDrill must sign in to the PeopleSoft system to be able to submit the drilldown process and access the subreports. The users of nVisionDrill VSTO add-in will be prompted to enter a user ID and password for the first time. This user ID and password are validated. If the users have access, they are taken to the menu with the list of DrillDown layouts for further drilldown operation.

When the users attempt another drilldown using the same parent report instance which is already open, the system does not prompt for the credentials, and the credentials of the first login are re-used. But for each new report instance or new drilldown report instance, the credentials must be entered again.

---

**Note.** All web service calls between the Microsoft Excel and PeopleSoft applications are SSL-enabled.

---

## Task 19-2-1: Installing the nVisionDrill Add-in for Microsoft Excel

To install the nVisionDrill VSTO add-in for Microsoft Excel:

1. Go to *PS\_HOME\setup\nVisionDrill*.
2. Run the *nVisionDrillSetup.msi* file.

If all required software items have been installed, the nVisionDrill add-in installation will run to success.

If any of the items, for example, Visual Studio 2005 SE Runtime *vstor.exe* or Microsoft Office 2007 PIA *o2007pia.msi*, are not installed on the machine, the add-in installer displays an appropriate message that asks you to run the corresponding executable. If necessary, you can find the files *vstor.exe* and *o2007pia.msi* in *PS\_HOME\setup\nVisionDrill*.

3. Ensure that the web server domain's SSL Root certificate is installed on the machine where the nVisionDrill VSTO add-in is installed.

The Root Certificate should be installed correctly on the default browser of the machine. For example, on Microsoft Internet Explorer 8 the SSL Root Certificate should be installed under Trusted Root Certification Authorities.

---

## Task 19-3: Installing the nVisionDrill Add-Ins for Multi-Language Installations

If you have a multi-language installation, first install *NVisionDrillSetup.msi* for English, as described above, and then install the *NVisionDrillSetup\_xxx.msi* for the desired languages, where the extension *xxx* is the three-letter language code.

See *PeopleTools: Global Technology*.

---

## Task 19-4: Setting Up PeopleSoft Integration Broker for Using Web Service Capability with nVisionDrill Add-in

To set up Integration Broker for using web service capability with PS/nVision DrillDown:

1. Select PeopleTools, Integration Broker, Configuration, Gateways.
2. Select the Integration Gateway ID for which the Local Gateway is enabled from the search results.

An enabled Local Gateway is marked as "Y" in the search results.

3. In the URL field, enter the following value, where *<machine\_name>* is the Web server machine name, including the domain name, and *<port>* is the HTTP port number of the PeopleSoft web server:

`http://<machine_name>:<port>/PSIGW/PeopleSoftListeningConnector`



This example shows the Integration Broker Gateways page with the URL `http://webs07.dom1.com:8000/PSIGW/PeopleSoftListeningConnector`, where `webs07.dom1.com` is the combined machine name and domain name, and 8000 is the HTTP port:

**Gateways**

Gateway ID: LOCAL [Inbound Gateways](#)

☒ Local Gateway ☐ Load Balancer

URL:  [Ping Gateway](#)

[Gateway Setup Properties](#)

[Load Gateway Connectors](#)

| Connectors |               |             |                                     | Personalize | Find | First | 1-9 of 9 | Last |
|------------|---------------|-------------|-------------------------------------|-------------|------|-------|----------|------|
|            | *Connector ID | Description | *Connector Class Name               | Properties  | +    | -     |          |      |
| 1          | AS2TARGET     |             | AS2TargetConnector                  | Properties  | +    | -     |          |      |
| 2          | FILEOUTPUT    |             | SimpleFileTargetConnector           | Properties  | +    | -     |          |      |
| 3          | FTPTARGET     |             | FTPTargetConnector                  | Properties  | +    | -     |          |      |
| 4          | GETMAILTARGET |             | GetMailTargetConnector              | Properties  | +    | -     |          |      |
| 5          | HTTPTARGET    |             | HttpTargetConnector                 | Properties  | +    | -     |          |      |
| 6          | JMSTARGET     |             | JMSTargetConnector                  | Properties  | +    | -     |          |      |
| 7          | PSFT81TARGET  |             | ApplicationMessagingTargetConnector | Properties  | +    | -     |          |      |
| 8          | PSFTTARGET    |             | PeopleSoftTargetConnector           | Properties  | +    | -     |          |      |
| 9          | SMTPTARGET    |             | SMTPTargetConnector                 | Properties  | +    | -     |          |      |

[Save](#) [Return to Search](#)

Integration Broker Gateways page

- Click Ping Gateway.

A message appears saying “Gateway URL has changed. Existing connector information will be cleared”. Click OK on this message.

You should see a message with the status ACTIVE, indicating a successful connection. Close this message.

- On the Gateways page, click the Load Gateway Connectors button to load the list of connectors, and then click Save.

If the ping is unsuccessful, check the Web server URL entered, and also make sure Pub/Sub servers are enabled in the Application Server configuration.

- Select PeopleTools, Integration Broker, Service Operations Monitor, Administration, Domain Status.
- Purge the unnecessary domains and enable the required domain.

You should be able to see at least three dispatchers under Dispatcher Status. This is required for running asynchronous requests through Integration Broker.

---

**Note.** PeopleSoft Integration Broker must process all nVision web service requests that are sent from nVisionDrill VSTO add-in, so the Local PeopleSoft Node of PeopleSoft Integration Broker gateway must include at least three dispatchers.

---

- Select PeopleTools, Integration Broker, Configuration, Gateways.  
Select the same Integration Gateway ID that you chose in step 1.

- On the Gateways page, select the link Gateway Setup Properties.

The Gateways Properties page appears.

10. Enter the Integration Gateway administrator user ID and password.

The default User ID is administrator, as shown in this example. Enter the password that you specified when setting up the PeopleSoft Pure Internet Architecture.

**Gateway Properties**

Sign on to access integrationGateway.properties file.

The default user ID is 'administrator' and the default password is 'password'.

User ID: administrator

Password: [masked]

☐ Change Password

OK Cancel

Gateway Properties sign on page

11. Add a new node in the PeopleSoft Node Configuration page.

**PeopleSoft Node Configuration**

URL: http://webs07.dom1.com:8000/PSIGW/PeopleSoftListeningConnector

**Gateway Default App. Server**

|                              |                |          |               |                 |                     |
|------------------------------|----------------|----------|---------------|-----------------|---------------------|
| App Server URL               | User ID        | Password | Tools Release | Domain Password | Virtual Server Node |
| //<machine name>:<jolt port> | <database use> | [masked] | <peopletools> | [masked]        |                     |

**PeopleSoft Nodes**

| Node Name  | App Server URL               | User ID         | Password | Tools Release | Domain Password |               |
|------------|------------------------------|-----------------|----------|---------------|-----------------|---------------|
| \$NODENAME | //<machine name>:<jolt port> | <database user> | [masked] | <peopletools> | [masked]        | Ping Node + - |

Advanced Properties Page

OK Cancel Save

PeopleSoft Node Configuration page

Node Name: Enter the name of the active default node.

This example uses \$NODENAME.

To find the active default node, navigate to Integration Broker, Integration Setup, Nodes. Do a search, and choose the node for which the Local Node value is "1" and the Default Local Node value is "Y".

Enter the following values to complete the page:

---

**Note.** The following information can be retrieved by pressing CTRL+J on the PeopleSoft Node Configuration page.

---

- App Server URL: Enter the application server machine name and the Jolt port.
- User ID: Enter PeopleSoft user ID
- Password: Enter the password for the PeopleSoft user ID specified in the User ID field.
- Tools Release: Provide the exact PeopleSoft PeopleTools release that your application server is using.

12. Click Save.

13. Click Ping Node to be sure the node is accessible, and then exit.

See *PeopleTools: Integration Broker Administration*.



## CHAPTER 20

# Installing Web Application Deployment Tools

This chapter discusses:

- Prerequisites
- Installing the Web Application Deployment Tools on Oracle WebLogic in GUI Mode
- Installing the Web Application Deployment Tools on IBM WebSphere in GUI Mode
- Installing the Web Application Deployment Tools on Oracle WebLogic in Console Mode
- Installing the Web Application Deployment Tools on IBM WebSphere in Console Mode
- Testing and Troubleshooting the Web Application Deployment

---

## Prerequisites

This appendix includes instructions for installing the Web Application Deployment tools on Oracle WebLogic and IBM WebSphere. Complete the instructions for the web server you selected when you carried out the PeopleSoft PeopleTools installation. Typically, you would choose GUI mode for Microsoft Windows platforms and console mode for UNIX or Linux platforms.

Consult the product-specific installation guide for your product application to determine whether Web Application Deployment tools are required.

Before you install the Web Application Deployment tools, confirm that you have completed the following requirements.

If you use Oracle WebLogic as your web server, you must fulfill these requirements:

- Java 7 must be installed and working properly. Your PATH environment variable must include an entry for Java 7 (for example, <java7>/bin). If you do not install Java 7 the deployment will fail due to the absence of a Java compiler.
- You must install the PeopleSoft web server during the PeopleSoft PeopleTools installation.
- Oracle WebLogic 10.3.6 must be installed.

If you use IBM WebSphere as your web server, you must fulfill these requirements:

- Java 7 or above must be installed and working properly. You can use the Java software that is supplied with the PeopleSoft PeopleTools installation.
- You must install the PeopleSoft web server during the PeopleSoft PeopleTools installation.
- The IBM WebSphere 8.5.0.0 software must be installed and the web server must be up and running when you carry out the Web Application Deployment tools installation.

- If you are running on UNIX or Linux, run the Web Application Deployment install with a user who owns IBM WebSphere, and who owns *PS\_HOME*. Here are two examples:
  - If IBM WebSphere is owned by "root" and group "system", the Web Application Deployment install must be run with "root" and group "system."
  - If WebSphere is owned by user "wsadmin" and group "wsadmin", then the Web Application Deployment install must be run with wsadmin and wsadmin as the user and group.

### See Also

"Installing Web Server Products"

"Using the PeopleSoft Installer"

*PeopleTools: System and Server Administration*

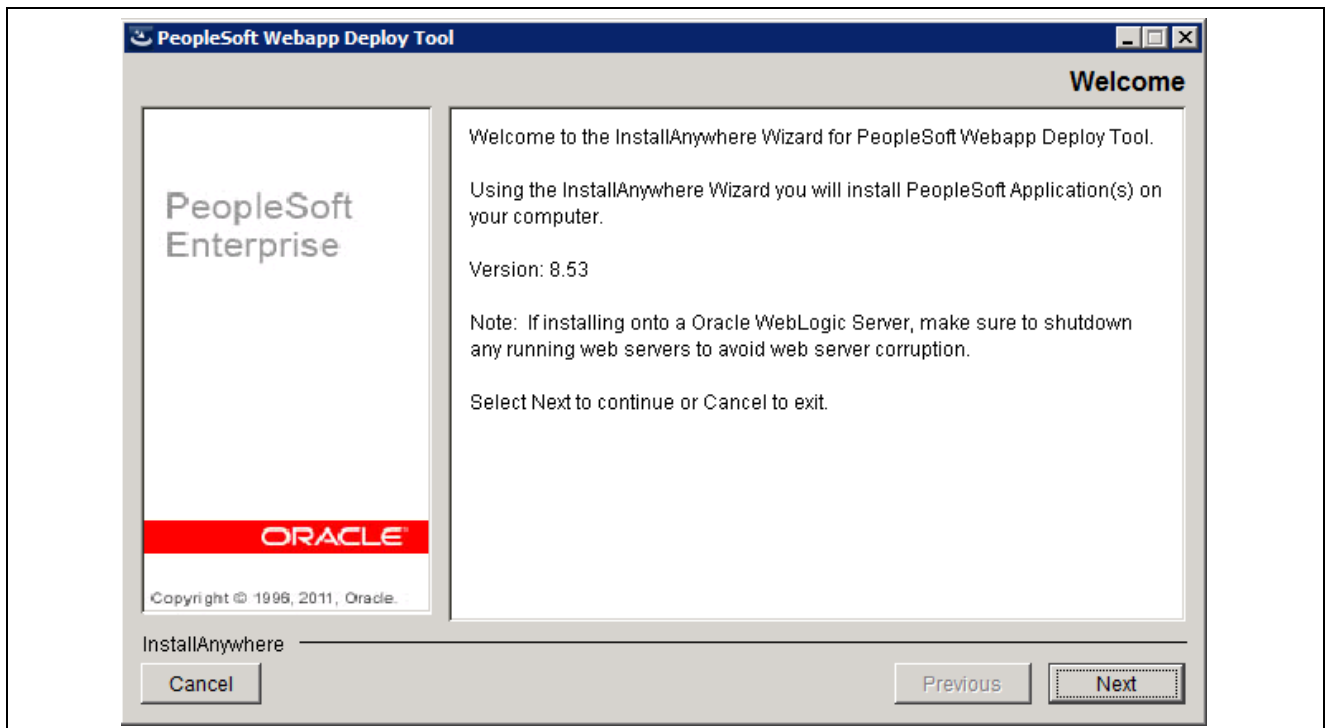
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## Task 20-1: Installing the Web Application Deployment Tools on Oracle WebLogic in GUI Mode

Use these instructions to install the Web Application Deployment Tools on Oracle WebLogic in GUI mode.

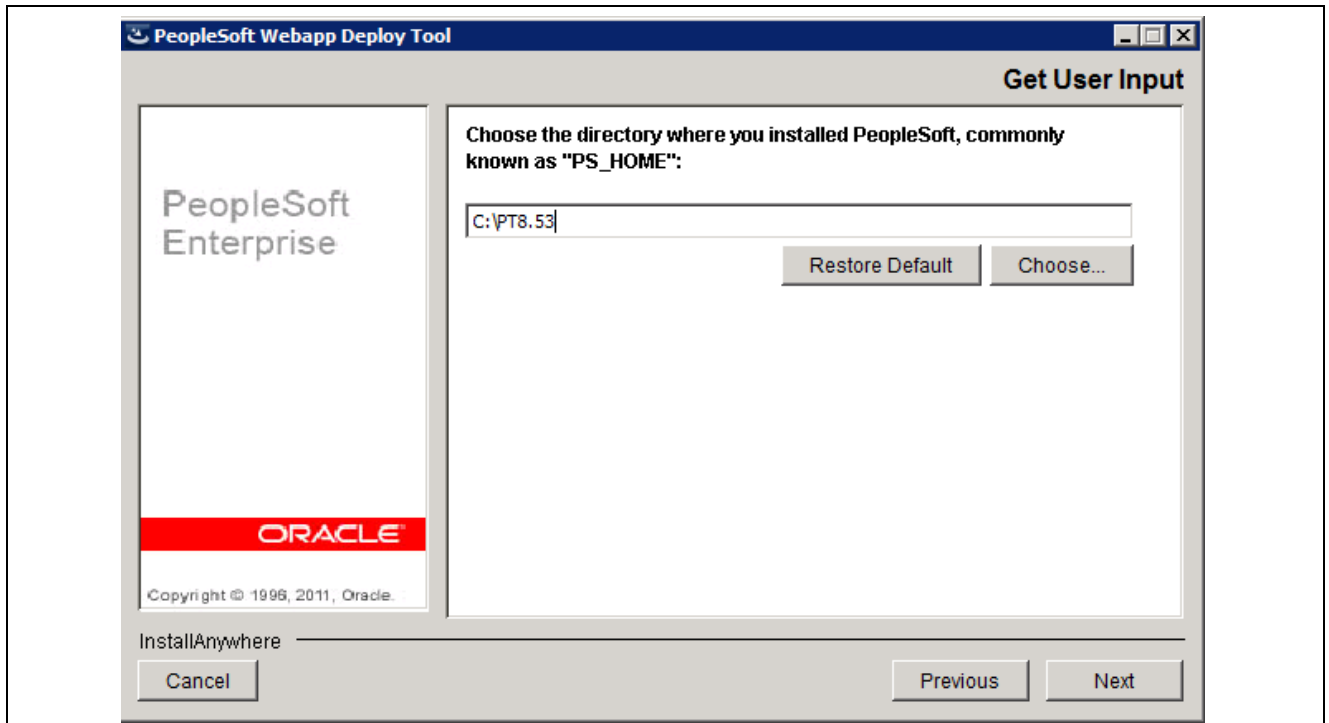
1. Copy the required Web Applications (EAR) files to *PS\_HOME/setup/PsMpWebAppDeployInstall/archive*.
2. Navigate to *PS\_HOME/setup/PsMpWebAppDeployInstall*.
3. Double-click on setup.bat.
4. Click Next on the Welcome window.

The window displays the PeopleSoft PeopleTools version, which is 8.53 in this example, and includes the note: "If installing onto a Oracle WebLogic Server, make sure to shutdown any running web servers to avoid web server corruption."



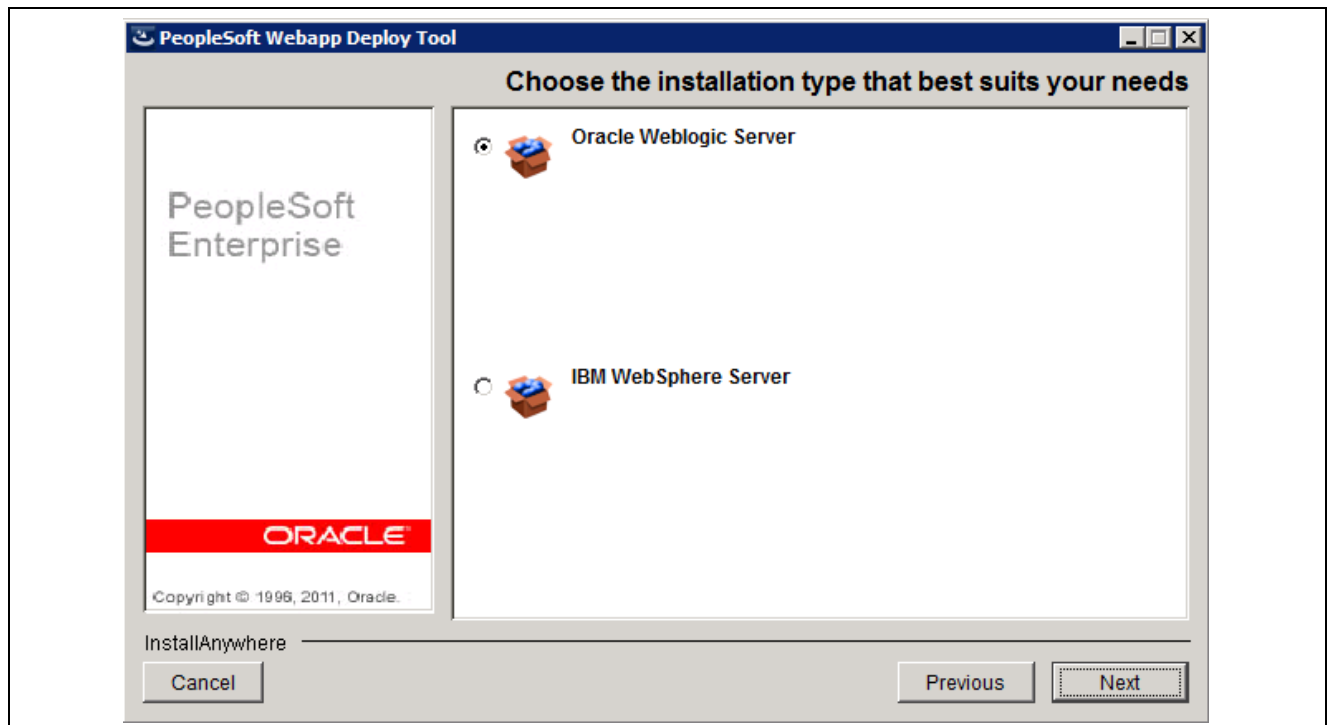
PeopleSoft Webapp Deploy Tool Welcome window

5. Enter the same *PS\_HOME* directory that you specified when you ran the PeopleSoft PeopleTools Installer. In this example, *PS\_HOME* is C:\PT8.53.



Entering PS\_HOME for the PeopleSoft Webapp Deploy Tool installation

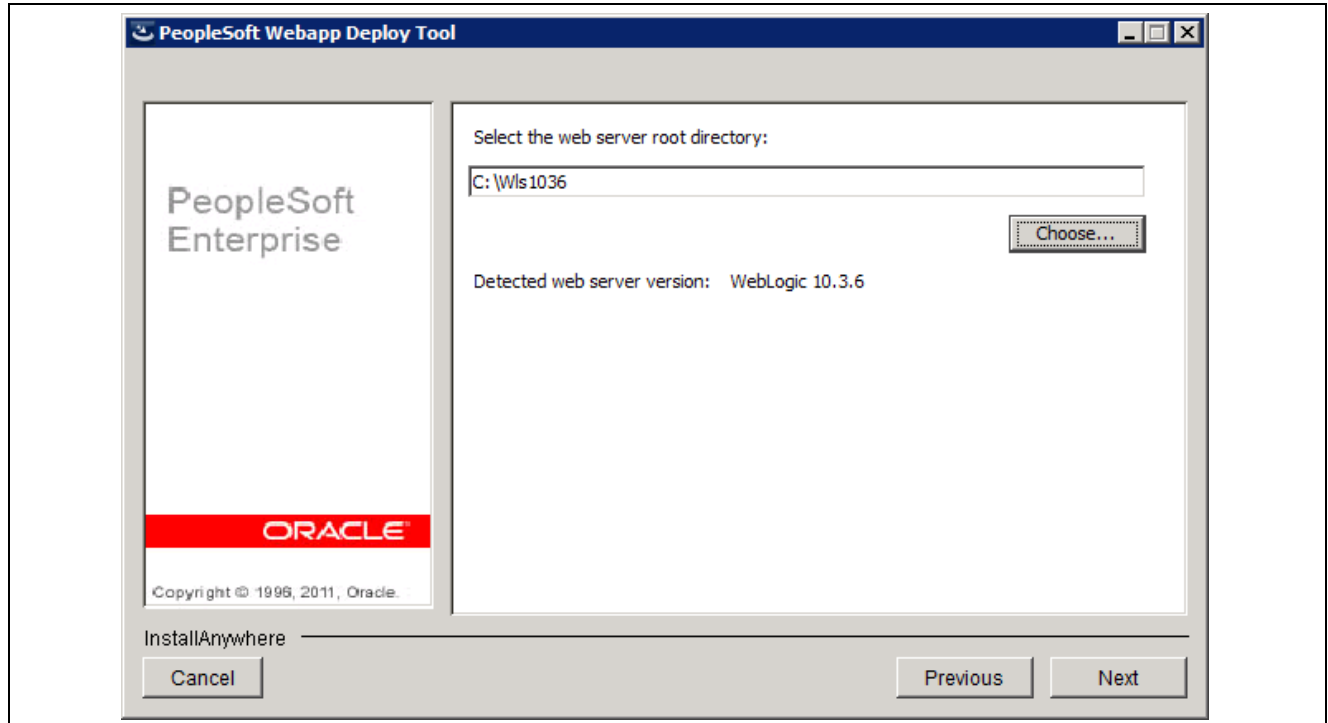
6. Select Oracle Weblogic Server and click Next.



Selecting Oracle WebLogic Server for the PeopleSoft Webapp Deploy Tool installation

7. Specify the root directory where you installed Oracle WebLogic, and click Next.

In this example, the web server root directory for Oracle WebLogic 10.3.6 is C:\Wls1036.



Specifying the Oracle WebLogic root directory for the PeopleSoft Webapp Deploy Tool installation

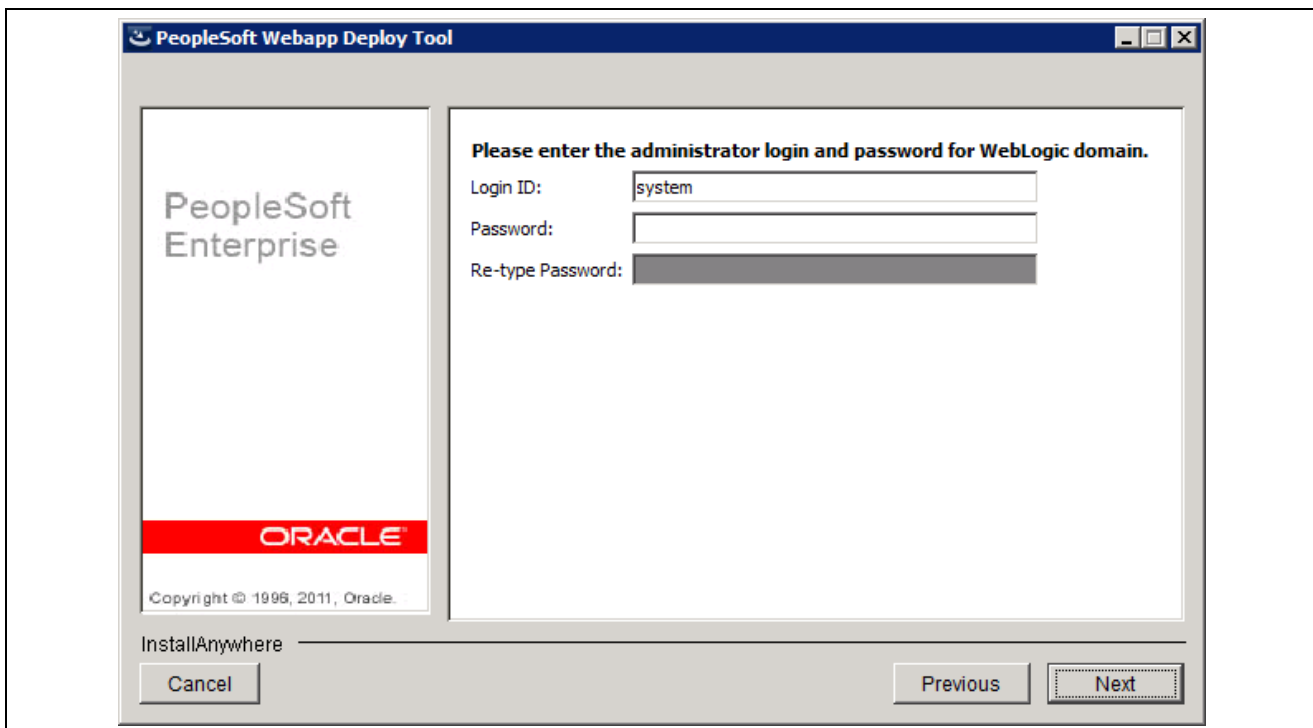
8. Enter the login ID and password for the new web server domain that you are creating, and then click Next to continue.



---

**Note.** The default login ID is system. The password, which you specified during the PeopleSoft Pure Internet Architecture setup, must be at least 8 alphanumeric characters with at least one number or special character.

---



Specifying the WebLogic domain administrator login and password for the PeopleSoft Webapp Deploy Tool installation

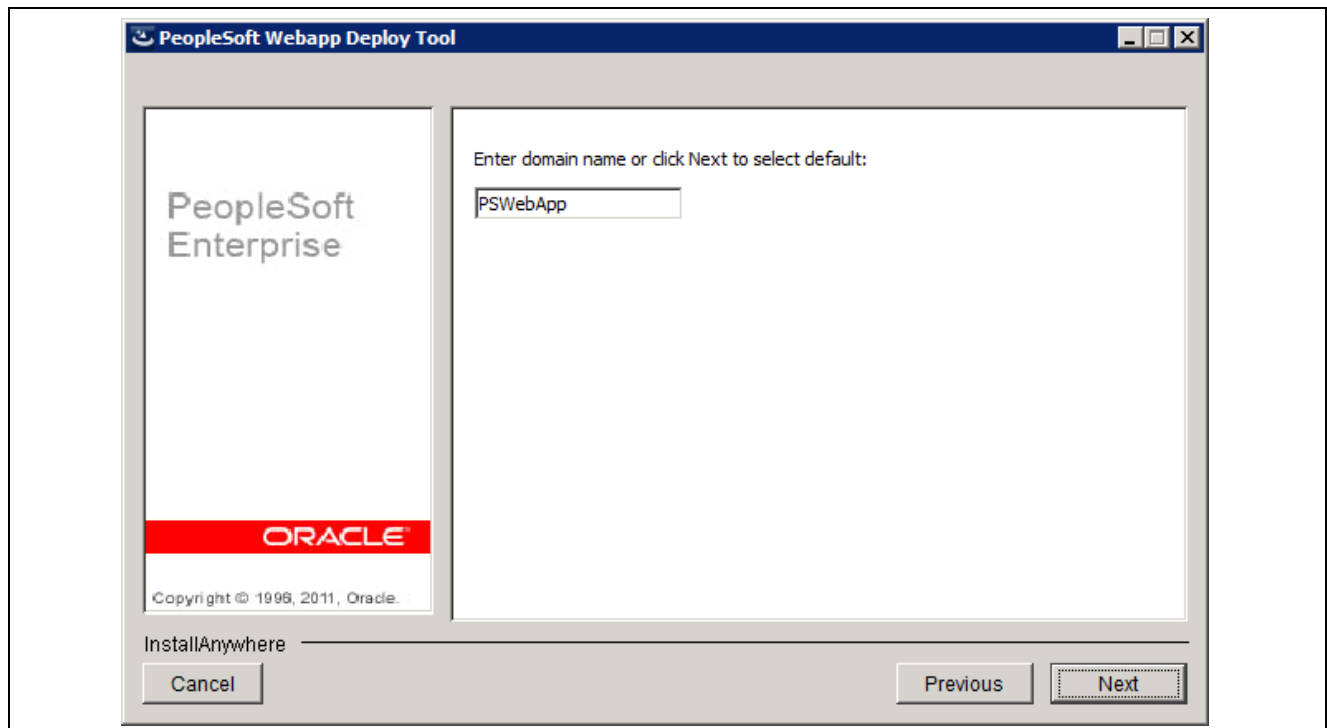
9. Enter a name for the Web Application Deploy domain, or accept the default name, PSWebApp, as shown in this example.

Use a fully qualified domain name, and do not use an IP address. Click Next to continue.

---

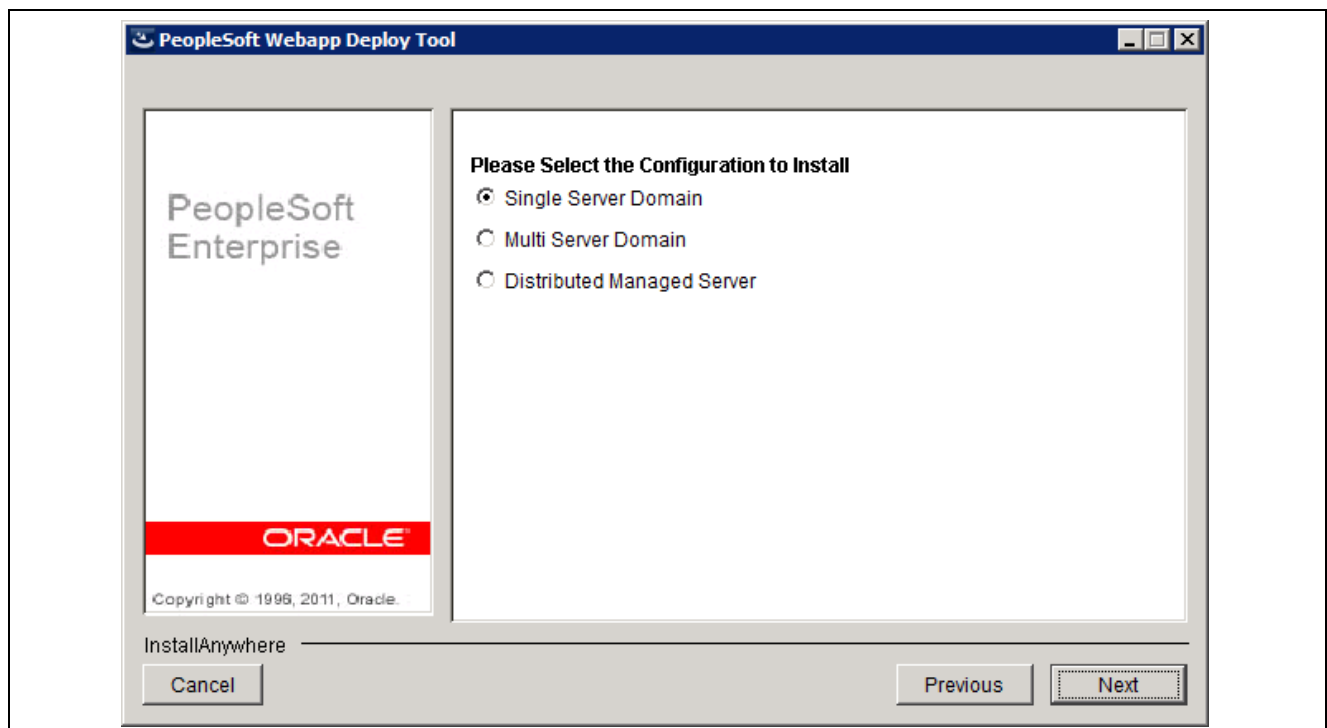
**Important!** The domain that you create for the Web Application Deploy cannot be the same as any existing PeopleSoft Pure Internet Architecture domains. Be sure you do not enter a name that you used for a PeopleSoft Pure Internet Architecture domain.

---



Entering domain name for the PeopleSoft Webapp Deploy Tool installation

10. Select the configuration from the options Single Server Domain, Multi Server Domain, or Distributed Manager Server.



Selecting the configuration for the PeopleSoft Webapp Deploy Tool installation

- *Single Server Domain*

This configuration is intended for single user or very small scale, non-production environments.

- *Multi-Server Domain*

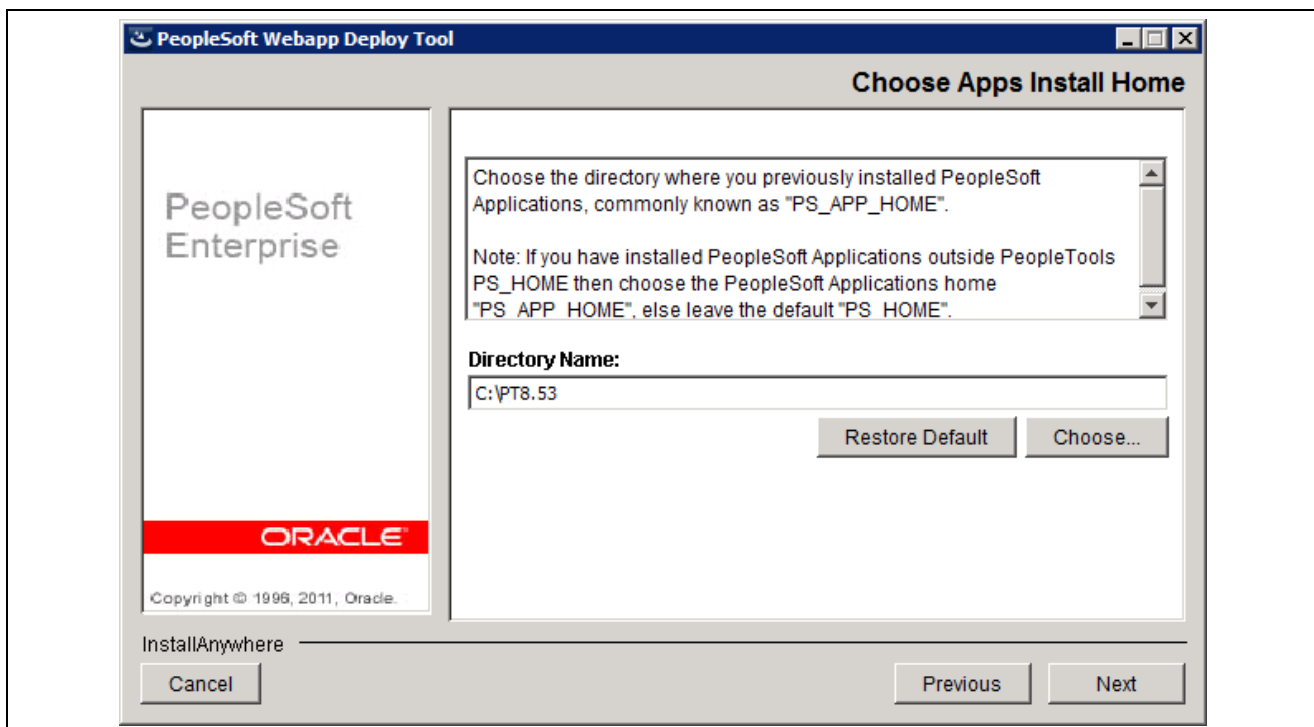
This configuration is intended for a production environment.

- *Distributed Managed Server*

This option is an extension of the Multi-Server Domain selection and installs the necessary files to boot a managed server. This option requires a Multi Server installation to be performed to some other location, which will contain the configuration for this managed server.

11. Enter the *PS\_APP\_HOME* directory that you specified when you installed the PeopleSoft Application software using the PeopleSoft PeopleTools installer.

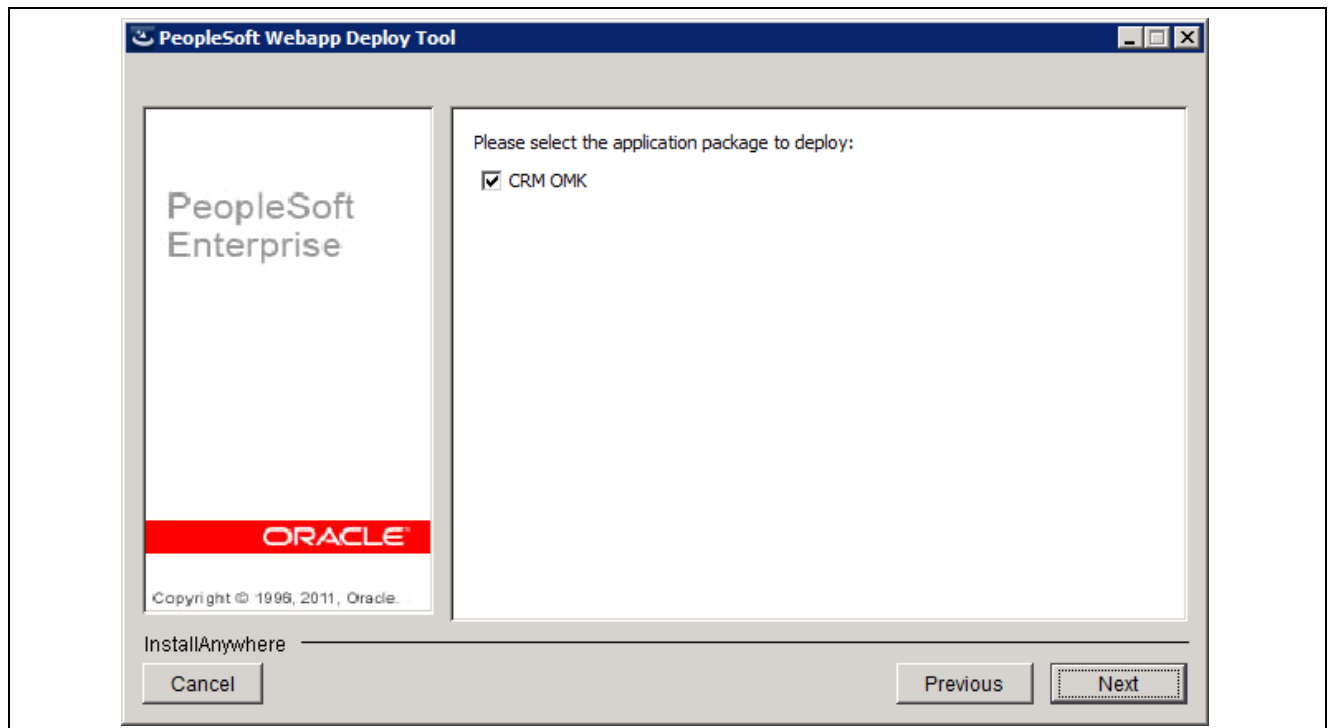
In this example, *PS\_APP\_HOME* is the same as *PS\_HOME*, that is, C:\PT8.53.



Entering *PS\_APP\_HOME* for the PeopleSoft Webapp Deploy Tool installation

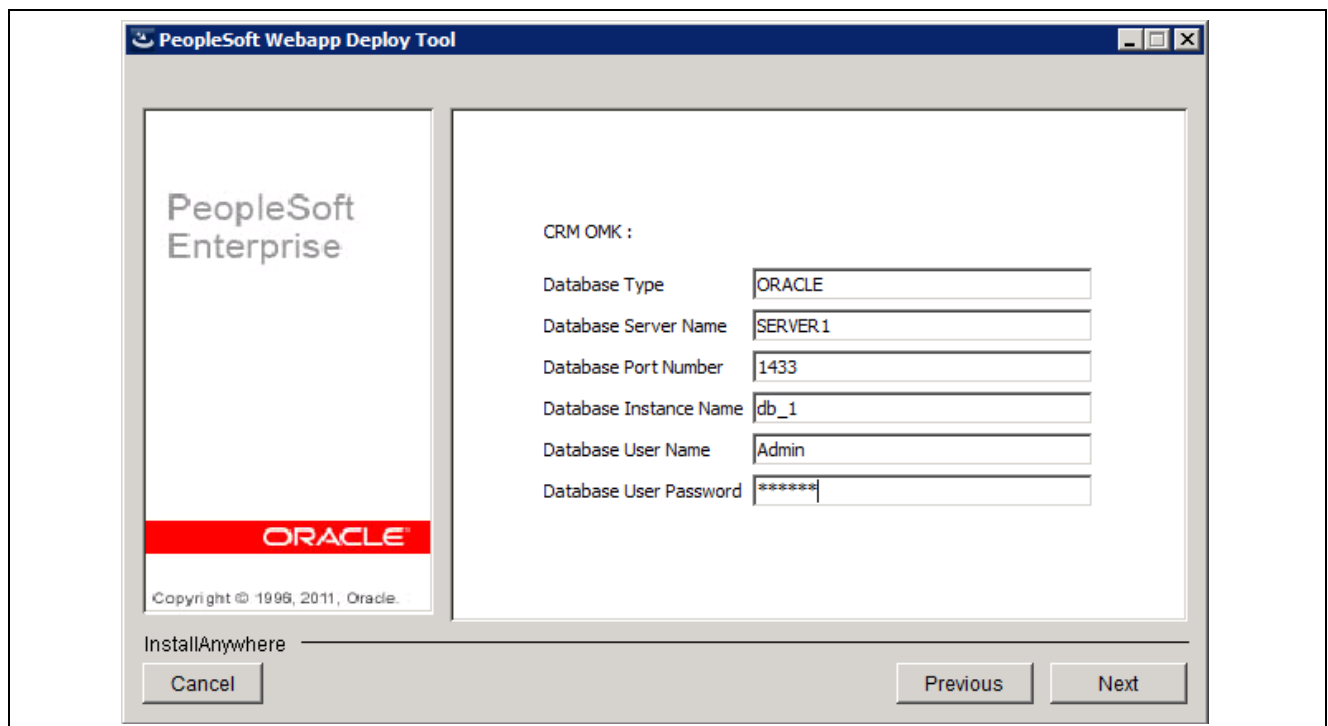
12. The next window lists all of the available application packages (EAR files).

Select the packages you want to install. *You must select at least one application package from the list.*



Selecting application packages for the PeopleSoft Webapp Deploy Tool installation

13. If the application(s) you selected in step 10 requires additional information, a window appears with entry fields for the required information.



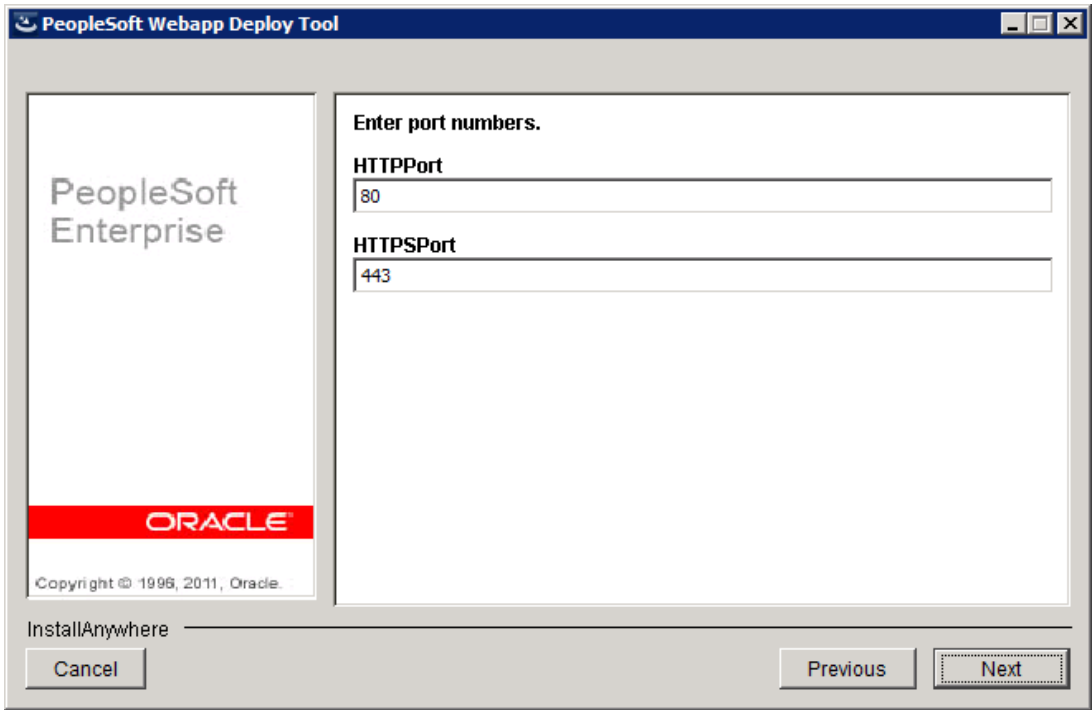
Specifying application information for the PeopleSoft Webapp Deploy Tool installation

The information required for the application in this example includes:

- Database Type  
Enter the RDBMS type; the example uses Oracle.
- Database Server Name  
Enter the name of the machine that is hosting the database.
- Database Port Number  
Consult with your database administrator for the correct port number.
- Database Instance Name  
Enter the database name.
- Database User Name
- Database User Password

14. Enter HTTP and HTTPS port numbers. Click Next to continue.

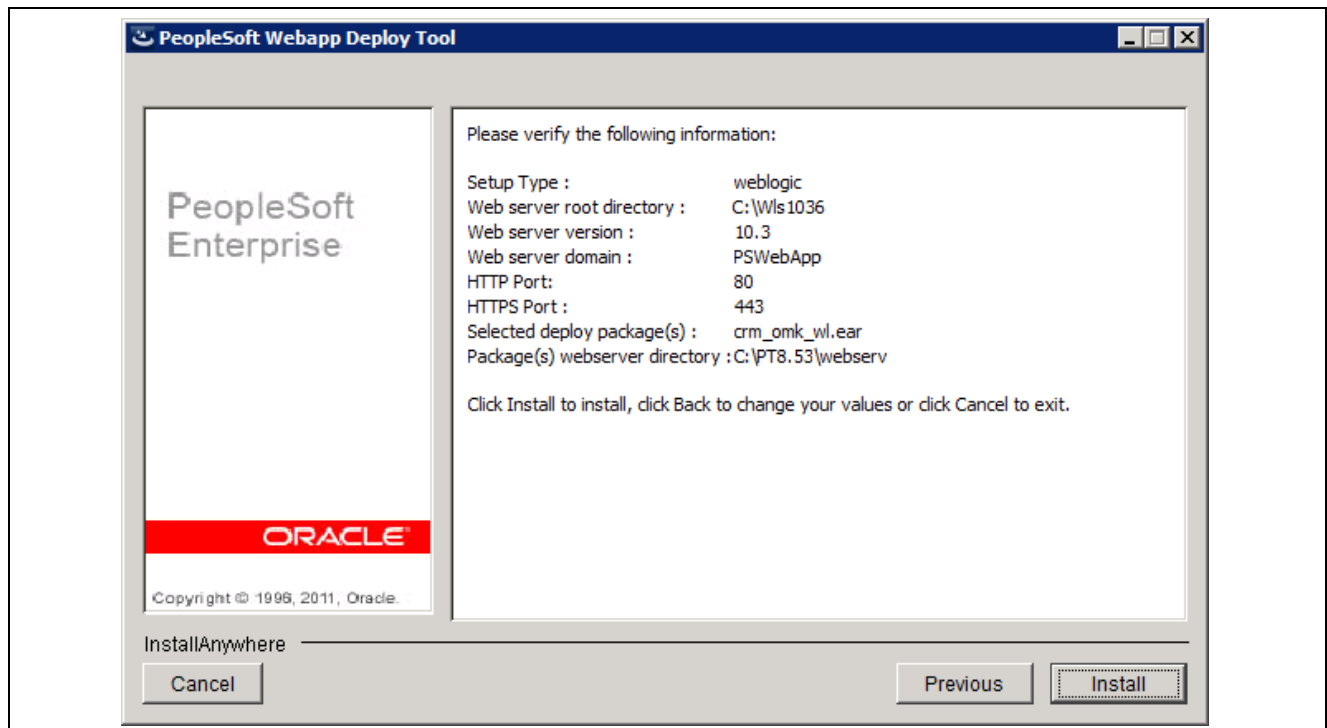
Do not use the same values that you used for the HTTP and HTTPS ports when setting up the PeopleSoft Pure Internet Architecture.



Entering port numbers for the PeopleSoft Webapp Deploy Tool installation

15. Verify your installation information, such as web server information, HTTP and HTTPS port, and application deployment package, on the summary screen that appears.

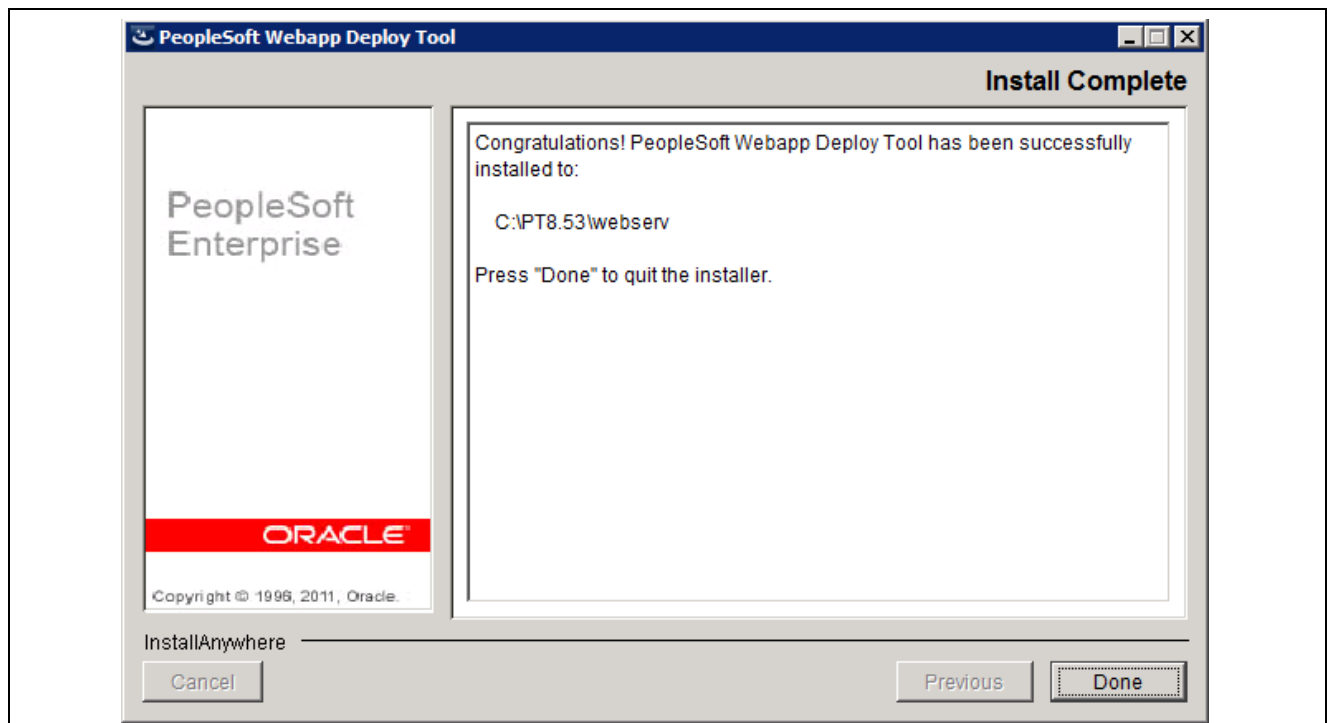
Click Install to begin the installation, Previous to go back to make changes on an earlier window, or Cancel to exit the installation.



Verifying installation information for the PeopleSoft Webapp Deploy Tool installation

16. A confirmation screen appears, which displays the installation location, C:\PT8.53\websevr in this example, when the installation completes.

Click Done to exit.



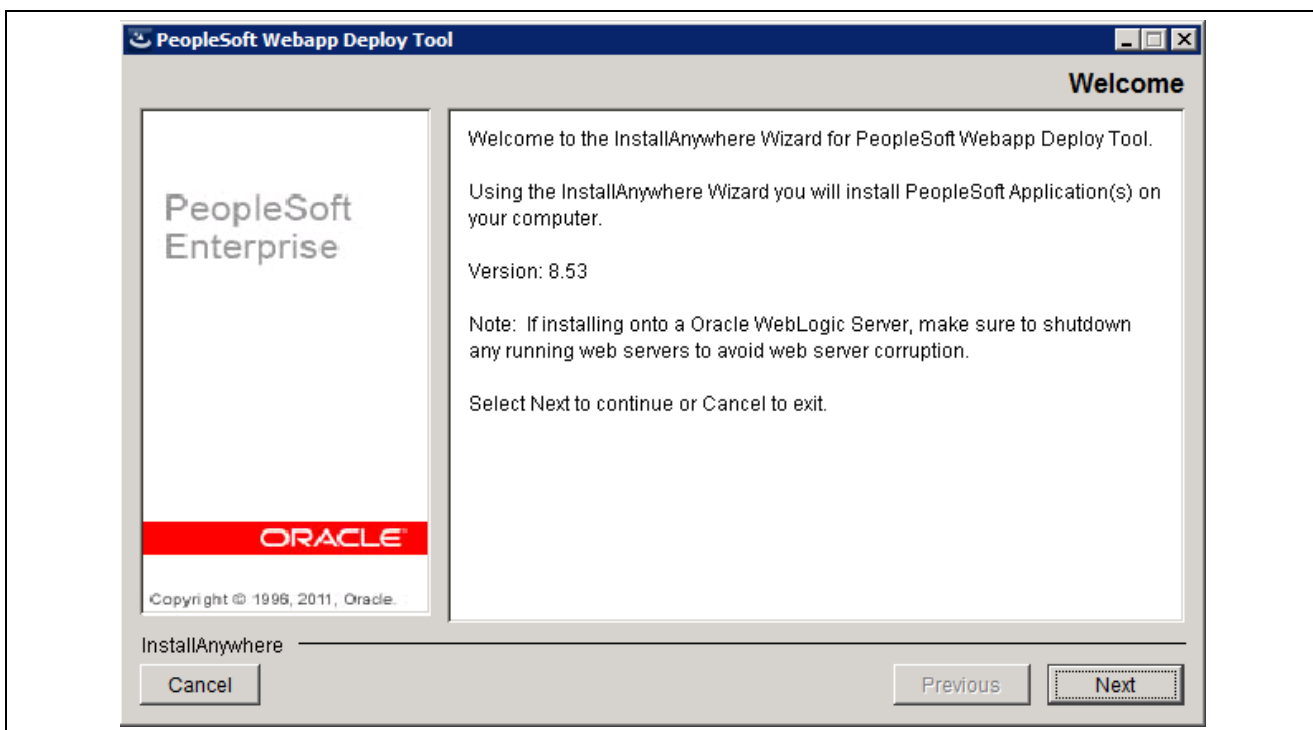
PeopleSoft Webapp Deploy Tool Install Complete window

## Task 20-2: Installing the Web Application Deployment Tools on IBM WebSphere in GUI Mode

Use these instructions to install the Web Application Deployment Tools on IBM WebSphere in GUI mode.

1. Copy the required Web Applications (EAR) files to *PS\_HOME*\setup\PsmPWebAppDeployInstall\archive.
2. Start WebSphere on the server on which you plan to deploy the Web Application Deployment tools.
  - a. Select Start, Programs, IBM WebSphere, Application Server Network Deployment V8.5, Profiles,<profile\_name>, First steps.
  - b. Select the link Start the server.
3. Navigate to *PS\_HOME*\setup\PsmPWebAppDeployInstall.
4. Double-click on setup.bat.
5. Click Next on the Welcome window.

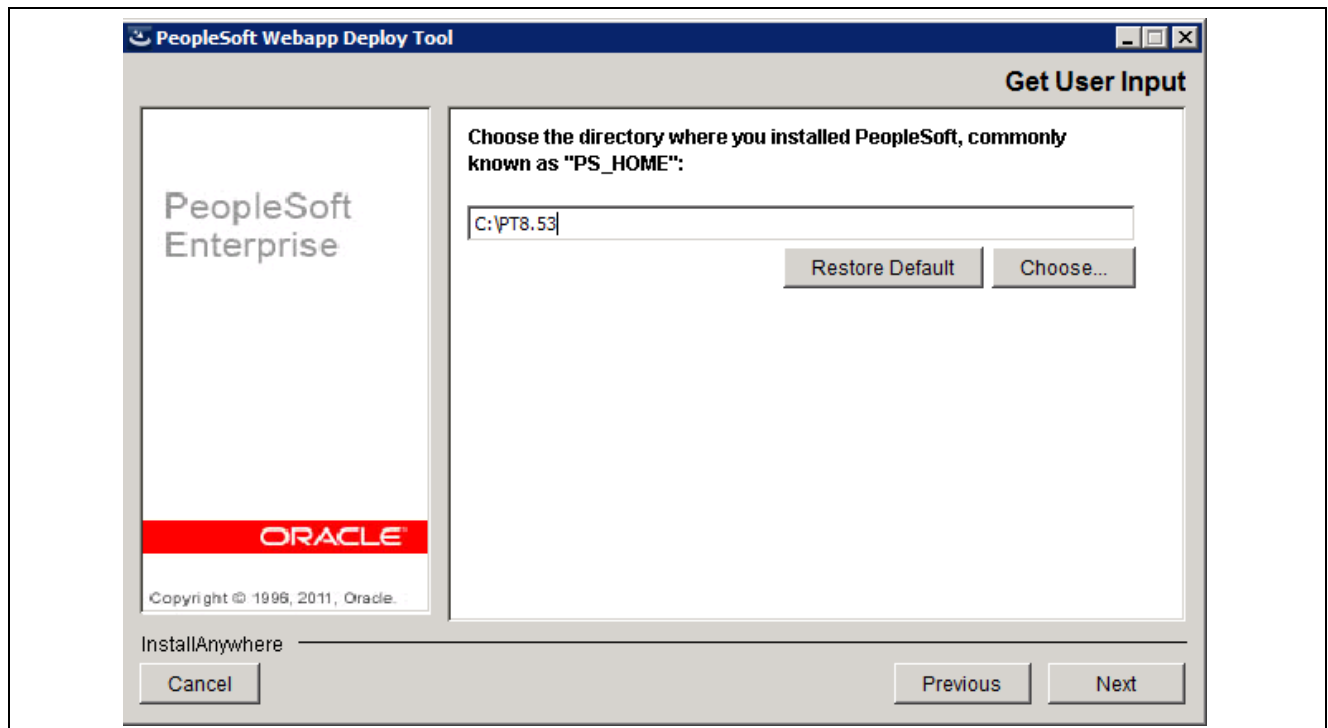
The window includes the PeopleSoft PeopleTools version number, which is 8.53 in this example, and this message: “If installing onto a Oracle WebLogic Server, make sure to shutdown any running web servers to avoid web server corruption.”



PeopleSoft Webapp Deploy Tool Welcome window

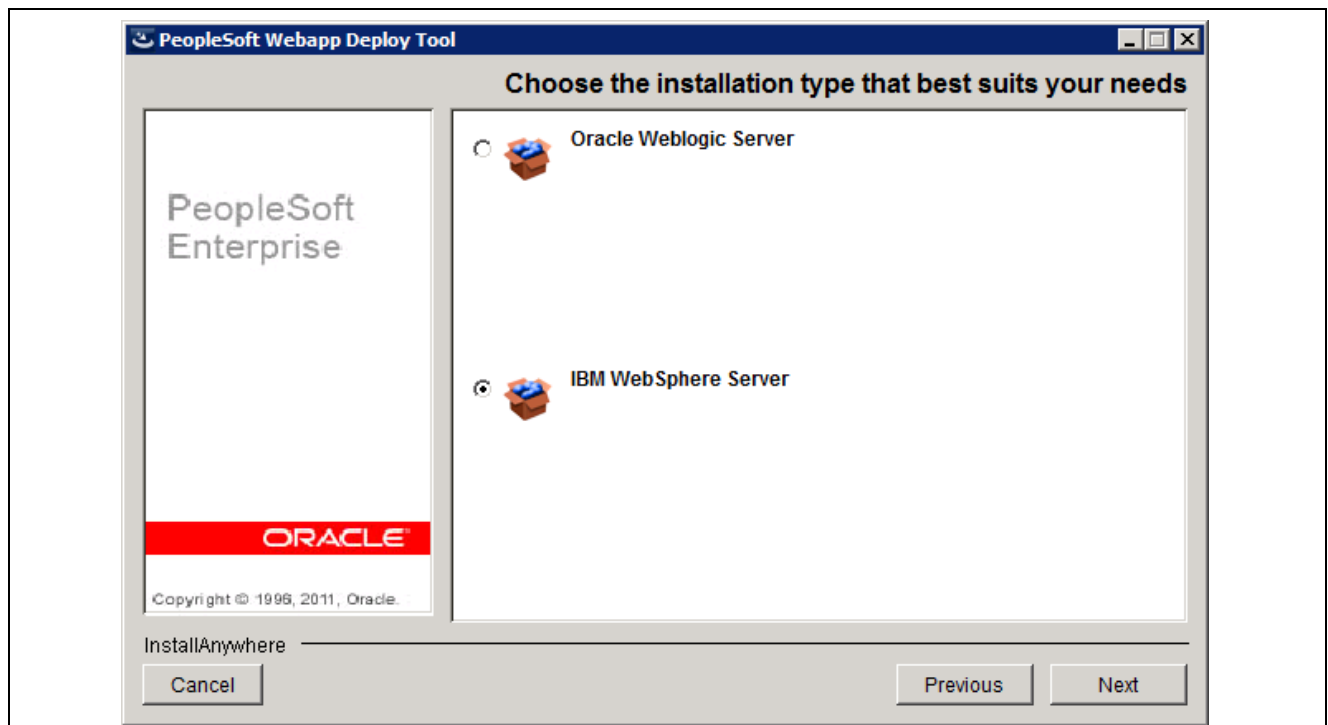
6. Enter the same *PS\_HOME* directory that you specified when you ran the PeopleSoft PeopleTools Installer and then click Next.

In this example, *PS\_HOME* is C:\PT8.53.



Entering PS\_HOME for the PeopleSoft Webapp Deploy Tool installation

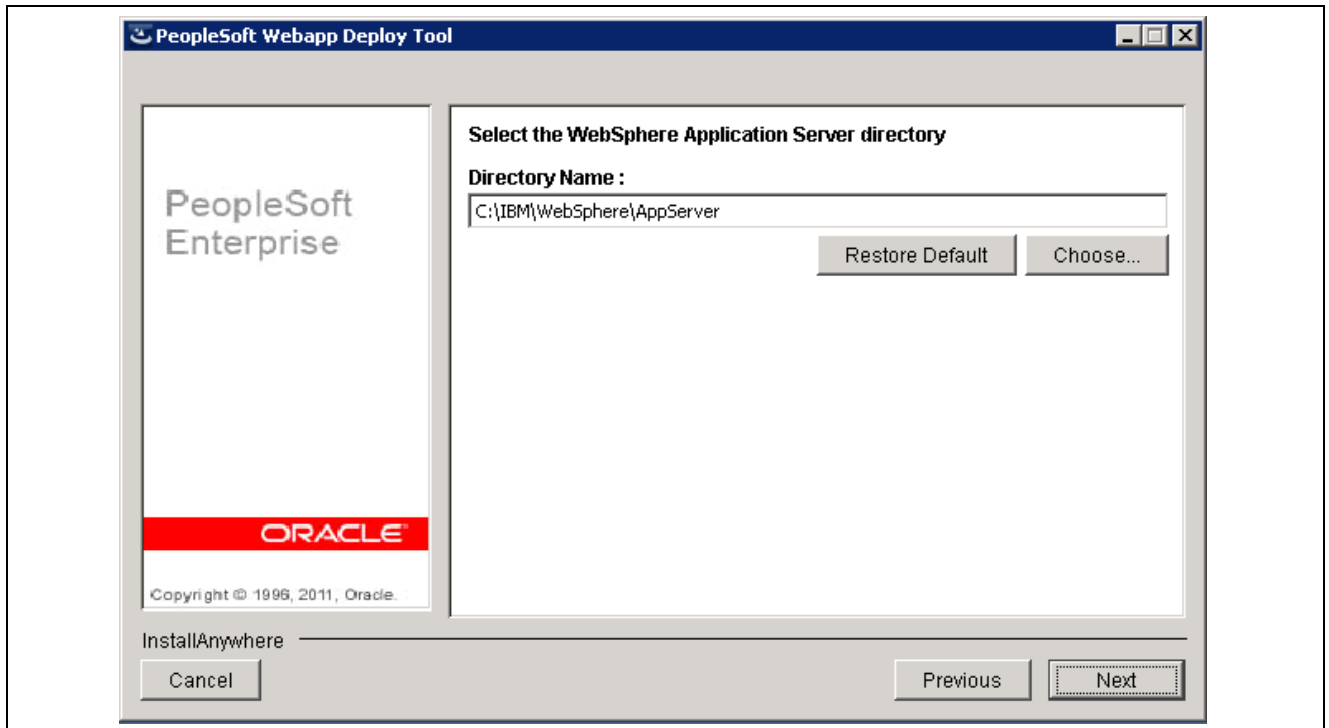
7. Select IBM WebSphere Server and click Next.



Selecting IBM WebSphere for the PeopleSoft Webapp Deploy Tool installation

8. Specify the root directory where you installed the IBM WebSphere Application server.  
In this example, the root directory is C:\IBM\WebSphere\AppServer.





Specifying the WebSphere Application Server directory on the PeopleSoft Webapp Deploy Tool window

---

**Note.** If the web server on which you are installing the Web Application Deployment tools is not up and running, you receive an error message at this point instructing you to start your web server.

---

See "Setting Up the PeopleSoft Pure Internet Architecture in GUI Mode," Testing and Administering the PeopleSoft Pure Internet Architecture Installation.

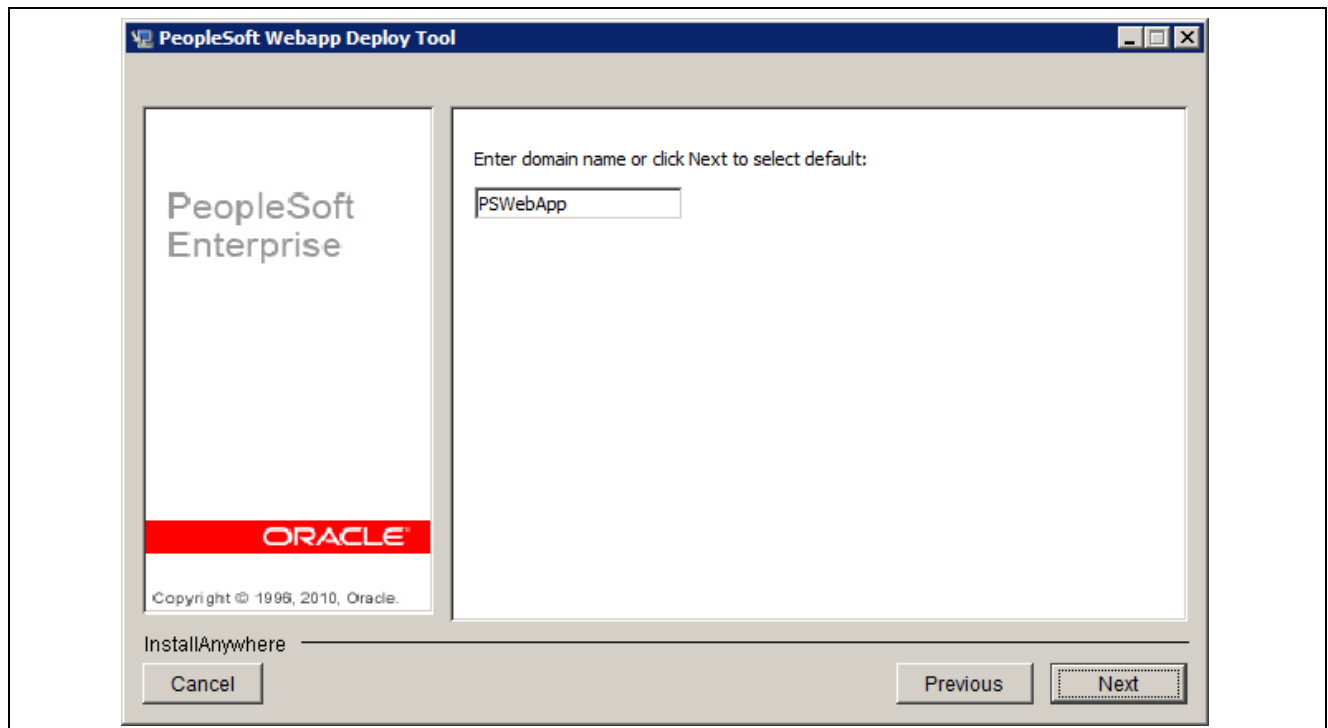
9. Enter a name for the Web Application Deploy domain, or accept the default name, PSWebApp, as in this example.

Use a fully qualified domain name, and do not use an IP address. Click Next to continue.

---

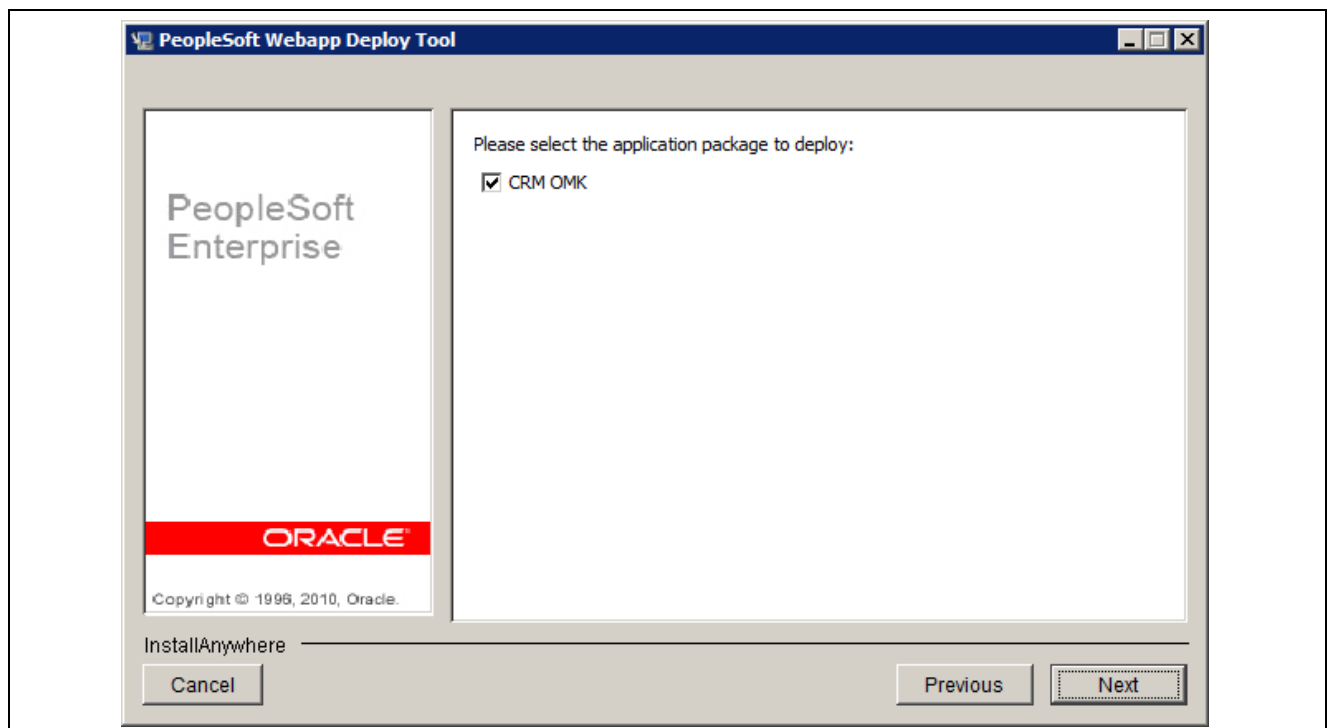
**Important!** The domain that you create for the Web Application Deploy cannot be the same as any existing PeopleSoft Pure Internet Architecture domains. Be sure you do not enter a name that you used for a PeopleSoft Pure Internet Architecture domain.

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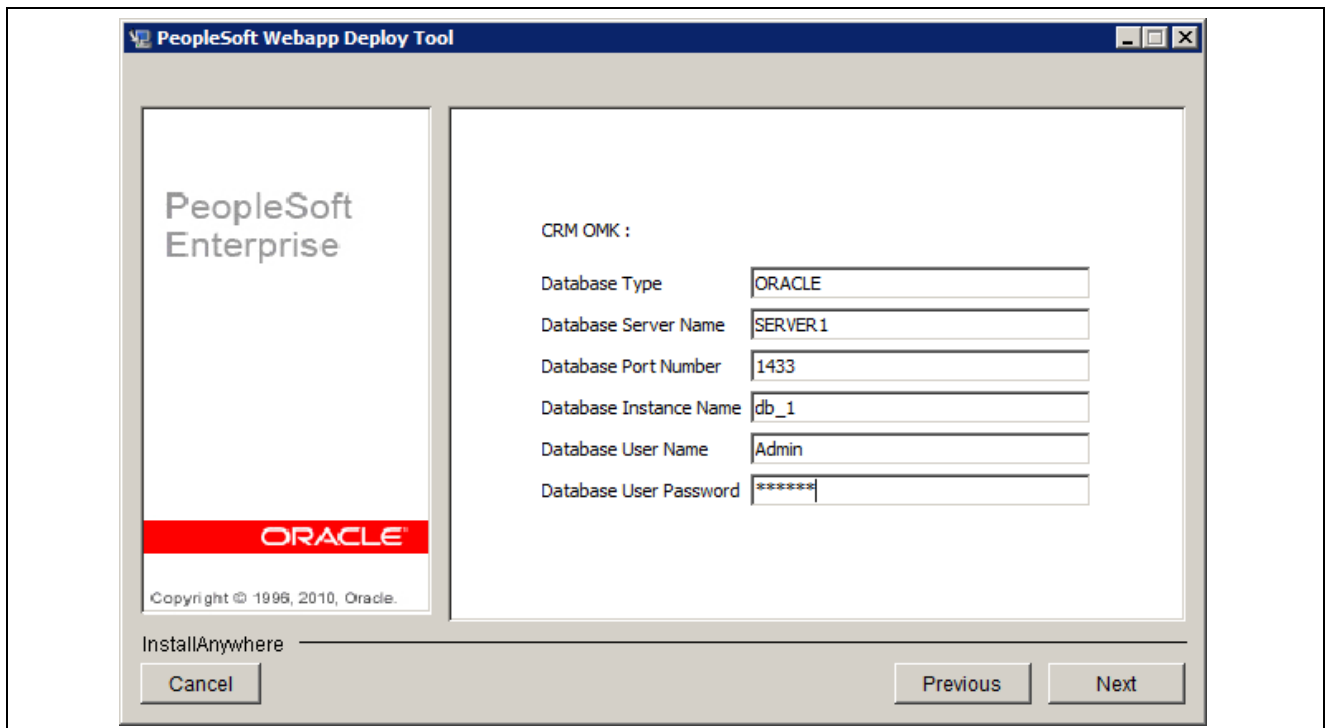
Entering the domain name on the PeopleSoft Webapp Deploy Tool window

10. The next window lists all of the available application packages (EAR files). Select the packages you want to install. *You must select at least one application package from this list.*



Selecting the application package to deploy on the PeopleSoft Webapp Deploy Tool window

11. If the application(s) you selected in the previous step requires additional information, a window appears with entry fields for the required information.



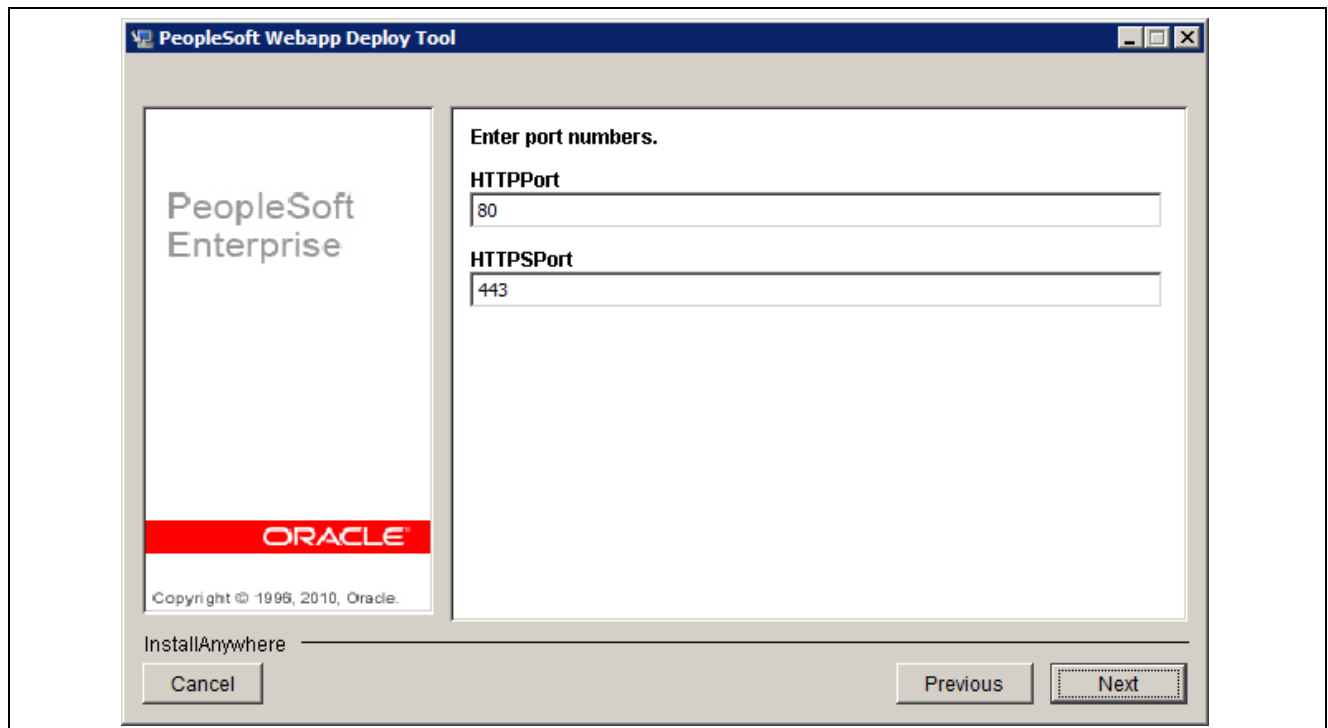
Specifying application information on the PeopleSoft Webapp Deploy Tool window

In this example, the required information includes:

- Database Type
- Database Server Name
- Database Port Number
- Database Instance Name
- Database User Name
- Database User Password

12. Enter HTTP and HTTPS port numbers, and then click Next to continue.

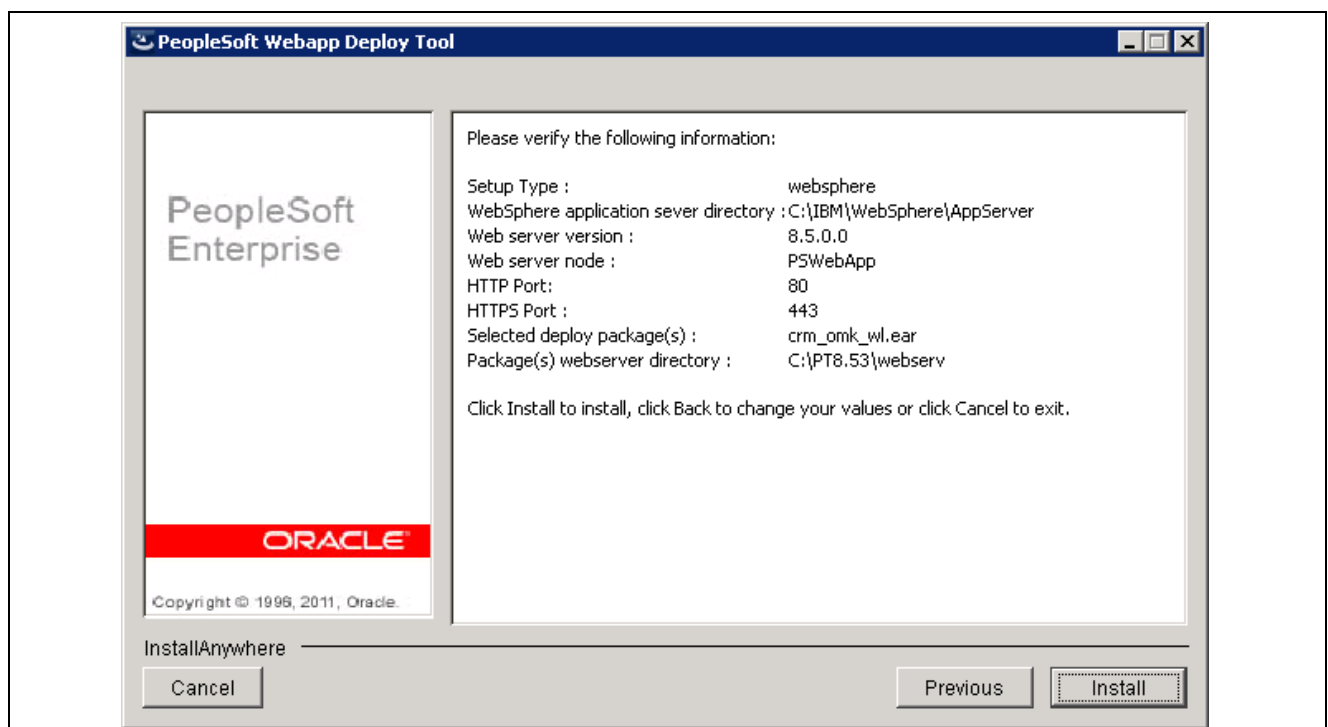
This example shows the default port numbers for HTTP = 80 and HTTPS = 443.



Entering port numbers on the PeopleSoft Webapp Deploy Tool window

13. Verify your installation information, such as the web server information, HTTP and HTTPS port numbers, and deployment packages, on the summary screen that appears.

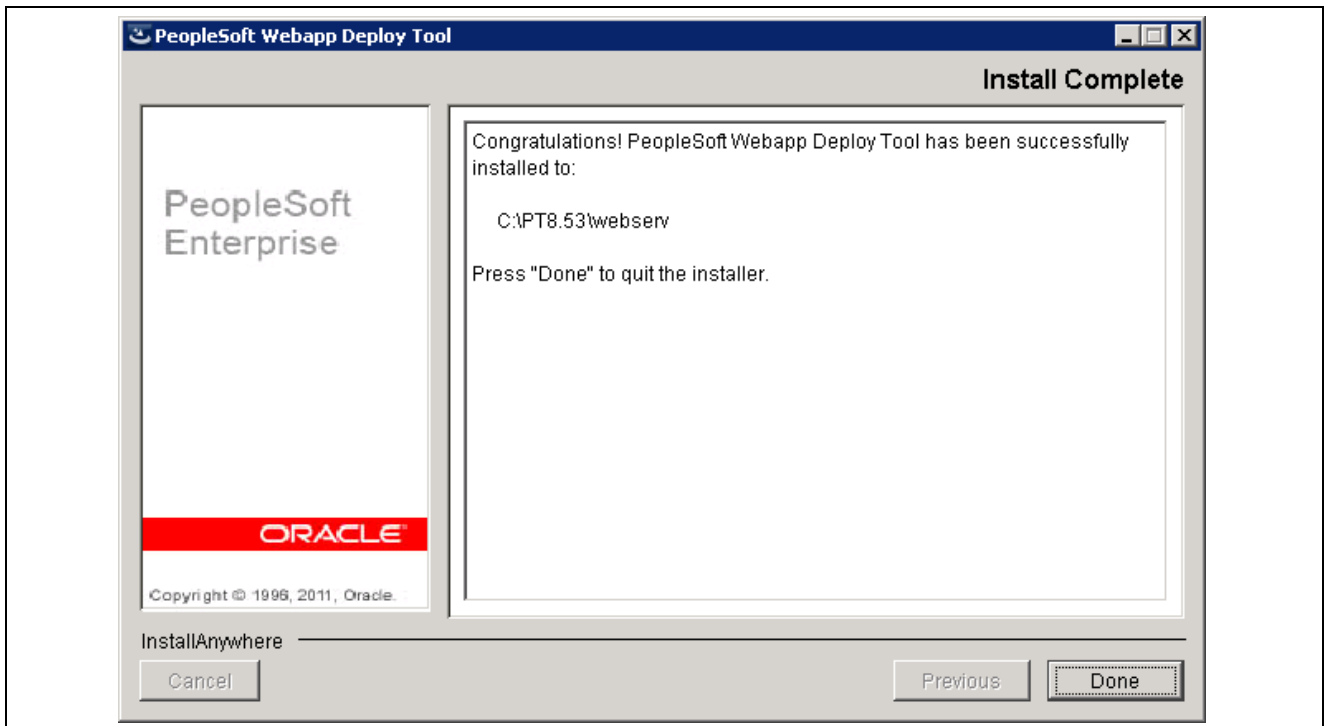
Click Install to begin the installation, Previous to go back to make changes on an earlier window, or Cancel to exit the installation.



Verifying installation information on the PeopleSoft Webapp Deploy Tool window

A window appears with a progress indicator.

14. A confirmation screen appears when the installation completes, which includes the installation directory, C:\PT8.53\webserv in this example. Click Done to exit.



PeopleSoft Webapp Deploy Tool window showing successful installation

## Task 20-3: Installing the Web Application Deployment Tools on Oracle WebLogic in Console Mode

Use these instructions to install the Web Application Deployment Tools on Oracle WebLogic in console mode.

**Note.** The console mode installation is typically used on UNIX platforms.

1. Copy the required Web Applications (EAR) files to *PS\_HOME/setup/PsMpWebAppDeployInstall/archive*.
2. Set up the PeopleSoft environment by going to *PS\_HOME* and running the following command:

```
../psconfig.sh
```

3. To run the installer, go to *PS\_HOME/setup/PsMpWebAppDeployInstall*, and run the following command:

```
setup.sh -tempdir <temporary_directory> -javahome <java_directory>
```

Use the optional flag `-javahome <javahome>` if you installed the JRE/JDK files in a directory that is different than the vendor-defined JRE search path.

4. You see a welcome message. Enter *1* to continue.

```
Welcome to the InstallShield Wizard for PeopleSoft Webapp Deploy Tool.
```

```
Using the InstallShield Wizard you will deploy PeopleSoft Application(s) on=>
```

your computer.

Note: If installing onto a Oracle WebLogic Server, make sure to shutdown any⇒  
running web servers to avoid web server corruption.

Select Next to continue or Cancel to exit.

Press 1 for Next, 3 to Cancel or 5 to Redisplay [1]

5. Choose the *PS\_HOME* directory that you specified when you installed PeopleSoft PeopleTools. Enter *1* to continue.

Choose the directory where you installed PeopleSoft, commonly known as "PS\_⇒  
HOME":

Please specify a directory name or press Enter [/opt/PS\_HOME]

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1]

6. Enter *1* to select Oracle WebLogic Server, at the following prompt, and then enter *1* to continue.

Choose the setup type that best suits your needs.

->1- Oracle WebLogic Server

2- IBM WebSphere Server

To select an item enter its number, or 0 when you are finished: [0]

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1]

7. Enter the directory where you installed Oracle WebLogic, and press ENTER to continue at the following prompt.

Select the web server root directory:

Please specify a directory name or press ENTER [/opt/bea\_ps]

---

**Note.** You receive an error message if the correct Oracle WebLogic version is not found in the directory you enter.

---

8. Enter a name for the Web Application Deploy domain, or accept the default name. Use a fully qualified domain name, and do not use an IP address.

Enter domain name or click Next to select default:

[PSWebApp]

---

**Important!** The domain that you create for the Web Application Deploy cannot be the same as any existing PeopleSoft Pure Internet Architecture domains. Be sure you do not enter a name that you used for a PeopleSoft Pure Internet Architecture domain.

---

9. Enter the administrator login and password for your Oracle WebLogic domain, and press ENTER to continue.

---

**Note.** The default login ID is system. The password, which you specified during the PeopleSoft Pure Internet Architecture setup, must be at least 8 alphanumeric characters with at least one number or special character.

---

Please enter the administrator login and password for WebLogic domain.

Login ID:

[system]

Password:

[password]

Re-type Password:

[password]

10. The next prompt lists all of the available application packages (EAR files). Enter the numbers beside the packages you want to install. *You must select at least one application package from this list.*

Please select the application package to deploy:

```
->1- CRM Package
 2- Financial Package
```

To select an item enter its number, or 0 when you are finished [0]:

11. Select the type of domain to create—single server, multi server, or distributed managed server.

See "Setting Up the PeopleSoft Pure Internet Architecture in Console Mode," Installing the PeopleSoft Pure Internet Architecture in Console Mode.

Please select the configuration to install.

```
->1- Single Server Domain
 2- Multi Server Domain
 3- Distributed Managed Server
```

To select an item enter its number, or 0 when you are finished: [0]

- *Single Server Domain*

This configuration is intended for single user or very small scale, non-production environments.

- *Multi-Server Domain*

This configuration is intended for a production environment.

- *Distributed Managed Server*

This option is an extension of the Multi-Server Domain selection and installs the necessary files to boot a managed server. This option requires a Multi Server installation to be performed to some other location, which will contain the configuration for this managed server.

12. Enter the *PS\_APP\_HOME* directory that you specified when you installed the PeopleSoft Application software using the PeopleSoft PeopleTools installer.

Choose the directory where you previously installed PeopleSoft Applications,⇒

commonly know as "PS\_APP\_HOME".

Note: If you have installed PeopleSoft Applications outside PeopleTools PS\_HOME⇒  
then choose the PeopleSoft Applications home "PS\_APP\_HOME", else leave the⇒  
default "PS\_HOME".

Please specify a directory name or press Enter [/opt/PS\_HOME]

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1]

13. If the application(s) you selected in step 11 requires additional information, supply the necessary information at the next prompt. For example:

CRM OMK :

Database Type

[ORACLE]

Database Server Name

[SERVER1]

Database Port Number

[1431]

Database Instance Name

[db\_1]

Database User Name

[Admin]

Database User Password

[]

14. Enter HTTP and HTTPS port numbers.

Enter port numbers.

HTTP Port : [80] 80

HTTPS Port : [443] 443

15. Verify your installation information on the next prompt and press ENTER to begin the installation. An indicator shows your installation progress.

Please verify the following information:

Setup Type : weblogic

Web server root directory : /opt/bea\_ps

Web server version :10.3.6



```

Web server domain : PSWebApp

HTTP Port : 80

HTTPS Port : 443

Selected deploy package(s) : CRM Package.ear

Package(s) webserver directory : /opt/PS_HOME/webserv

```

16. After the installation is complete, you must deploy the Web Application Deploy tools. Use the following commands:

```

cd <PS_HOME>/webserv/<domain_name>
startPSWEBAPPS.sh

```

For *domain\_name*, use the name you entered in step 8. The default is PsWebApp.

---

**Note.** You can choose to deploy at a later time using the same commands.

---

## Task 20-4: Installing the Web Application Deployment Tools on IBM WebSphere in Console Mode

Use these instructions to install the Web Application Deployment Tools on IBM WebSphere in console mode.

---

**Note.** The console mode installation is typically used on UNIX platforms.

---

1. Copy the required Web Applications (EAR) files to *PS\_HOME*/setup/PsMpWebAppDeployInstall/archive.
2. Set up the PeopleSoft environment by going to *PS\_HOME* and using the following command:

```

../psconfig.sh

```

3. Start IBM WebSphere on the server on which you plan to deploy the Web Application Deployment tools. Navigate to the bin directory under the directory where you installed IBM WebSphere, *WAS\_HOME*. Use the following commands:

```

cd WAS_HOME/bin
startServer.sh server_name

```

4. To run the installer, go to *PS\_HOME*/setup/PsMpWebAppDeployInstall and run the following command:

```

setup.sh -javahome <java_directory>

```

Use the optional flag `-javahome <java_directory>` if you installed the JRE/JDK files in a directory that is different than the vendor-defined JRE search path.

5. You see a Welcome message. Enter *1* to continue.

```

Welcome to the InstallShield Wizard for PeopleSoft Webapp Deploy Tool.
Using the InstallShield Wizard you will deploy PeopleSoft Application(s) onyour=>
computer.

```

Note: If installing onto a Oracle WebLogic Server, make sure to shutdown any⇒  
running web servers to avoid web server corruption.

Select Next to continue or Cancel to exit.

Press 1 for Next, 3 to Cancel or 5 to Redisplay [1]

6. Choose the same *PS\_HOME* directory that you specified when you ran the PeopleSoft PeopleTools Installer.

Choose the directory where you installed PeopleSoft, commonly known as "PS\_⇒  
HOME":

Please specify a directory name or press Enter [/opt/PS\_HOME]

7. Enter 2, to select the IBM WebSphere Server, at the following prompt:

Choose the setup type that best suits your needs.

```
->1- Oracle WebLogic Server
 2- IBM WebSphere Server
```

To select an item enter its number, or 0 when you are finished: [0]

8. Enter the root directory where you installed IBM WebSphere at the following prompt, and press ENTER to continue:

Select the WebSphere Server directory:

Directory Name:

Please specify a directory name or press Enter [/opt/webserv]

---

**Note.** If the web server on which you are installing the Web Application Deployment tools is not up and running, you receive an error message at this point instructing you to start your web server.

---

See *PeopleTools: System and Server Administration*.

9. At the next prompts, enter a cell name, node name, and server name.
10. Enter a name for the Web Application Deploy domain, or accept the default name, PsWebApp. Use a fully qualified domain name, and do not use an IP address. Press *I* to continue.

Enter domain name or click Next to select default:

[PSWebApp]

---

**Important!** The domain that you create for the Web Application Deploy cannot be the same as any existing PeopleSoft Pure Internet Architecture domains. Be sure you do not enter a name that you used for a PeopleSoft Pure Internet Architecture domain.

---

11. The next prompt lists all of the available application packages (EAR files). Enter the number corresponding to the packages you want to install. *You must select at least one application package from this list.*

Please select the application package to deploy:

- >1- CRM Package
- 2- Financial Package

To select an item enter its number, or 0 when you are finished [0]:

12. If the application(s) you selected in the previous step requires additional information, supply the necessary information at the next prompt. For example:

CRM OMK :

Database Type  
[ORACLE]

Database Server Name  
[SERVER1]

Database Port Number  
[1431]

Database Instance Name  
[db\_1]

Database User Name  
[Admin]

Database User Password  
[]

13. Enter HTTP and HTTPS port numbers at the following prompt. Press *I* to continue.

Enter port numbers.

HTTP Port: [80] 80

HTTPS Port: [443] 443

14. Verify your installation information at the next prompt and press ENTER to begin the installation. An indicator shows your installation progress.
15. A confirmation screen appears when the installation completes. Click Finish to exit the install shield wizard.
16. After the installation is complete, you must stop and start the IBM WebSphere server. Use the following commands:

```
cd WAS_HOME/bin
../stopServer.sh <server_name>
../startServer.sh <server_name>
```

For <server\_name>, use the name of the IBM WebSphere server you used in step 3.

---

## Task 20-5: Testing and Troubleshooting the Web Application Deployment

Check the log file for any problems encountered during installation. The log file is saved in the following location:

`<PIA_HOME>/webserv/piainstall<domain_name>.log`

If you need to start or stop Oracle WebLogic or IBM WebSphere, use the commands given in the chapter on installing the PeopleSoft Pure Internet Architecture.

See "Setting Up the PeopleSoft Pure Internet Architecture (in GUI Mode or Console Mode)," Testing the PeopleSoft Pure Internet Architecture Installation.

## CHAPTER 21

# Synchronizing the ACCESSID User

This chapter discusses:

- Understanding the ACCESSID User Synchronization
- Creating the ACCESSID
- Updating the ACCESSID Information

---

## Understanding the ACCESSID User Synchronization

The following procedure applies only to Microsoft SQL Server customers upgrading from PeopleSoft PeopleTools 8.49 or earlier to PeopleSoft PeopleTools 8.50 or later. This procedure must be run by both a PeopleSoft administrator and the DBA for a PeopleSoft database. No other user should run this procedure.

As of PeopleSoft PeopleTools 8.50, the ACCESSID user does not have administrator privileges and is not the database owner. After completing the upgrade process to PeopleSoft PeopleTools 8.50 or later, customers utilizing Microsoft SQL Server need to update their ACCESSID user. The ACCESSID user is the database user utilized by PeopleSoft applications to access all the data for all the application users. The following instructions will guide you on creating the new ACCESSID and then enabling the new ACCESSID.

### See Also

*PeopleTools: Security Administration*

*PeopleTools: Data Management*

"Preparing for Installation," Planning Database Creation

---

## Task 21-1: Creating the ACCESSID

Create the new ACCESSID by editing, and then running *PS\_HOME\scripts\CREATE\_ACCESSID.sql*. This script must be executed by both a database administrator and a PeopleSoft administrator. Once the new ACCESSID is defined you must update the PeopleSoft metadata using the instructions in the next section in order to be able to log in to the database using your PeopleSoft user ID.

---

## Task 21-2: Updating the ACCESSID Information

Use these instructions after running `CREATE_ACCESSID.SQL` to update the PeopleSoft metadata:

1. Run Data Mover in bootstrap mode.

To access Data Mover in bootstrap mode log in with the database user utilized to create the database. This user is the database owner or dbo and should have all the necessary permissions to access the database with Data Mover without the need to grant any additional permissions.

---

**Note.** Use the newly created ACCESSID to log in.

---

2. Execute `PS_HOME\scripts\UPDATE_ACCESS.dms`.

This script updates the catalog information and re-encrypts the ACCESSID password. Running this script updates the necessary tables to utilize the new ACCESSID defined by `CREATE_ACCESSID.sql`.

3. Launch Application Designer and verify it is possible to log in to the database with the new ACCESSID.
4. Make sure the Connect ID information in the Configuration Manager is updated and the Data Source information is updated utilizing the ODBC Data Source Administrator.

When you connect to the database with Application Designer utilizing the new ACCESSID you validate that the update was successful. In case an error is found please verify the configuration information at Configuration Manager or run a trace to verify if there is a connection problem.

## CHAPTER 22

# Installing Microsoft SQL Server 2012

This chapter discusses:

- Understanding Microsoft SQL Server 2012 Installation
- Installing Microsoft SQL Server 2012 on the Database Server
- Starting and Stopping Microsoft SQL Server 2012
- Installing Microsoft SQL Server 2012 — Client Only
- Configuring the Connection to Use SQL Server Native Client for Microsoft SQL Server 2012
- Configuring an ODBC Data Source for 32-bit and 64-bit Connectivity Drivers

---

## Understanding Microsoft SQL Server 2012 Installation

This chapter describes how to install Microsoft SQL Server 2012 for use with a PeopleSoft installation. For complete step-by-step instructions on installing Microsoft SQL Server 2012 and for prerequisite details, refer to the SQL Server 2012 Books Online (support.microsoft.com or Microsoft support services).

---

**Note.** If you are upgrading from an existing installation on Microsoft SQL Server 2008 see the chapter “Upgrading to Microsoft SQL Server 2012” in this documentation.

---

The Microsoft SQL Server 2012 setup has the following prerequisites:

- Microsoft .NET Framework 4.0

The .NET Framework 4.0 installation is a step in the Microsoft SQL Server 2012 installation.

- Microsoft .NET Framework 3.5 SP1

If you are installing on Microsoft Windows 2008 R2 SP1, you must enable Microsoft .NET Framework 3.5 SP1 before beginning the installation. On other operating system platforms, you must download and install Microsoft .NET Framework 3.5 SP1.

- Windows PowerShell 2.0
- Service Pack 1 or later for Microsoft Windows 2008 R2 or Microsoft Windows 7

### See Also

*Hardware and Software Requirements for Installing SQL Server 2012*, MSDN Library,  
<http://msdn.microsoft.com/en-us/library/ms143506.aspx>

---

## Task 22-1: Installing Microsoft SQL Server 2012 on the Database Server

This task describes how to install Microsoft SQL Server 2012 on the database server. You may need to reboot your server after the installation.

---

**Note.** There are different editions of Microsoft SQL Server 2012. Make sure that the edition you install is appropriate for your requirements. Some editions are not compatible with certain operating systems. You can check the version and edition of your existing SQL Server installation by issuing the command `'SELECT @@VERSION'` from SQL Server Management Studio. Consult the SQL Server Books Online and Microsoft support for more information about editions.

---

To install Microsoft SQL Server 2012 on the database server:

1. If you want to uninstall your previous Microsoft SQL Server software before installing Microsoft SQL Server 2012, you can use Control Panel, Add/Remove Programs.

---

**Note.** We recommend that you install only one SQL Server version per server. This should simplify the administration. However, in some instances you may need to install multiple versions, and it is possible to have side-by-side installations of Microsoft SQL Server 2008 and Microsoft SQL Server 2012.

---

2. Insert the Microsoft SQL Server 2012 DVD into the DVD drive.

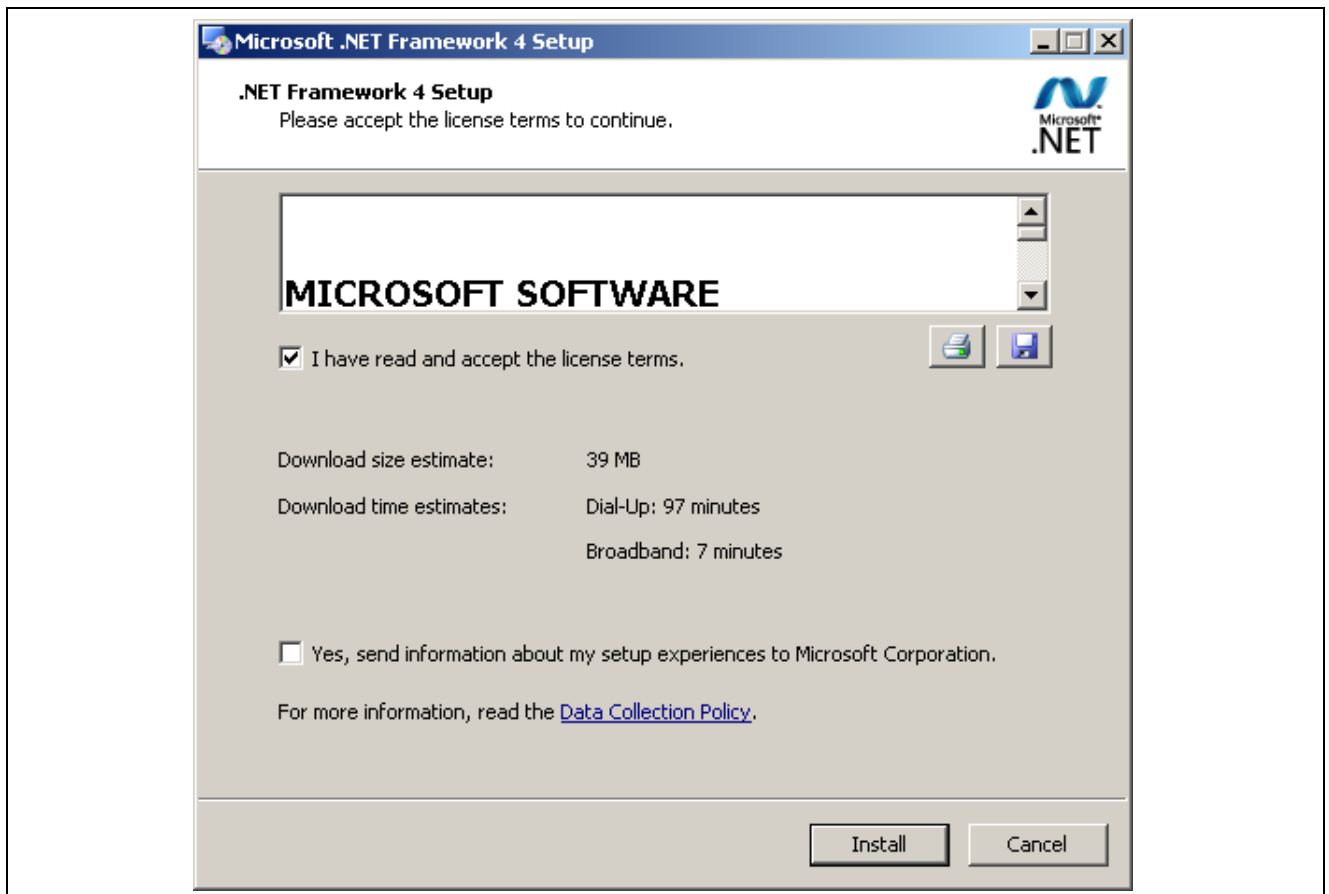
The installation should start automatically, but if it does not, run `setup.exe` from the DVD-ROM's directory.

If you downloaded the installation files, go to the directory where you saved the installation files and run `setup.exe`.

The first part of the installation procedure installs Microsoft .NET Framework 4, which is a prerequisite for the Microsoft SQL Server 2012 setup on Microsoft Windows 2008 R2.

3. In the Microsoft .NET Framework 4 Setup window, select the check box for I have read and accept the license terms, and then click Install.



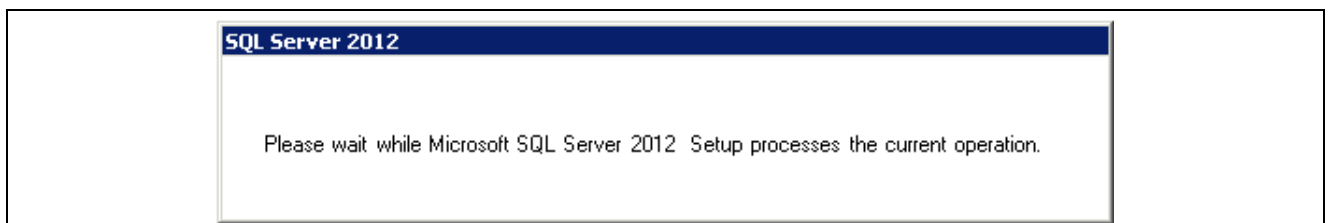


Microsoft .NET Framework 4 Setup dialog box

You see a progress indicator. Wait until the installation is complete.

4. After the Microsoft .NET Framework installation is complete, restart your computer.
5. Go to the directory containing the installation files, and select `setup.exe` again to install Microsoft SQL Server 2012.

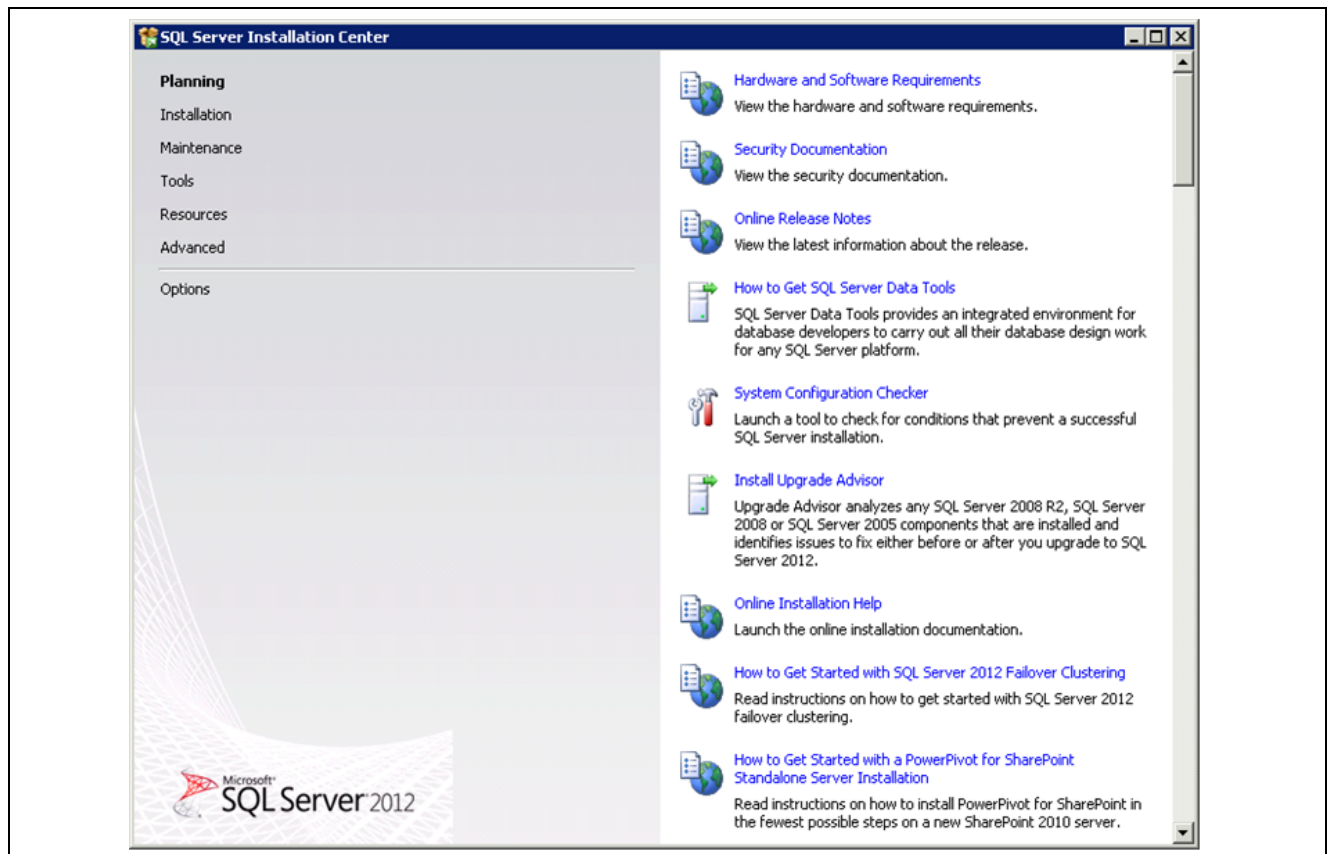
An initialization message box appears asking you to wait, as in this example.



Microsoft SQL Server 2012 initialization message box

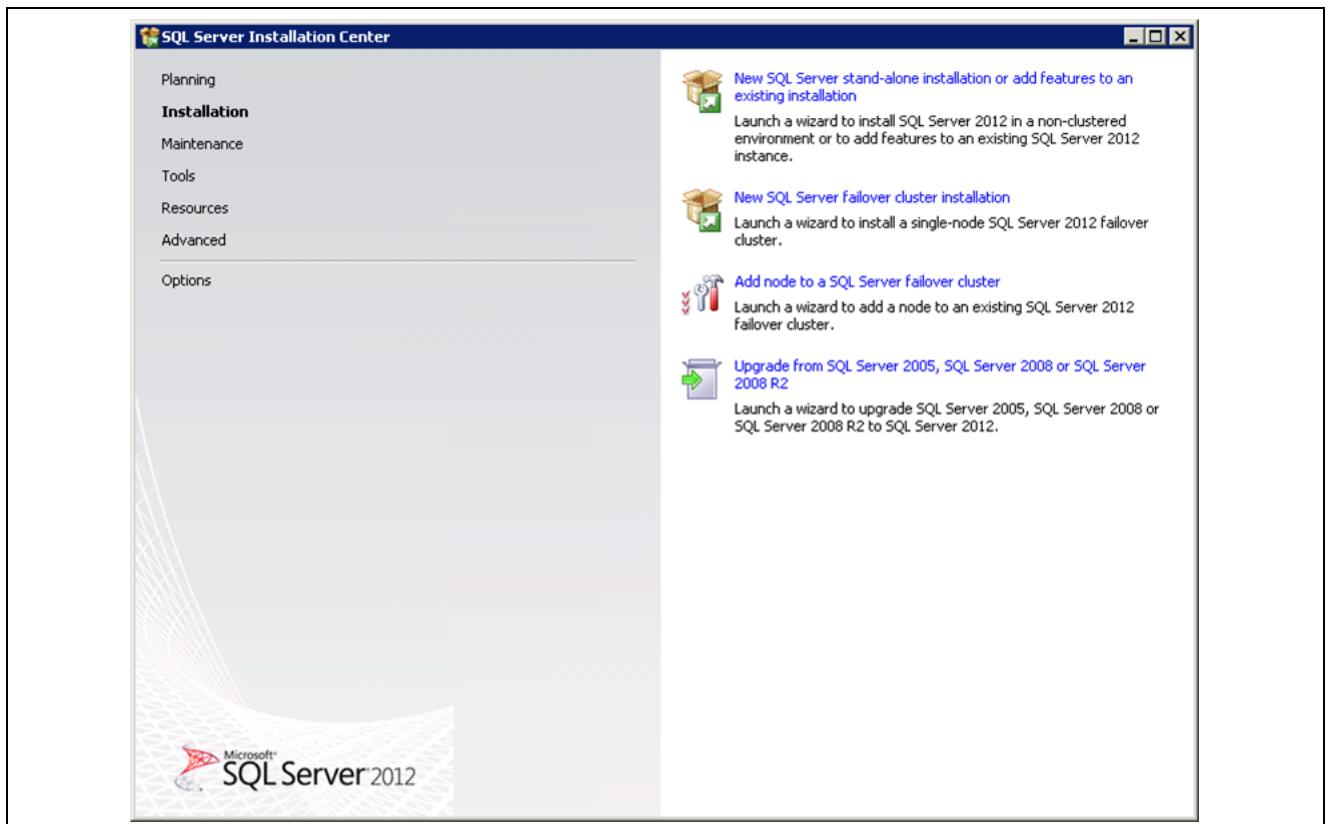
After initialization is complete, the SQL Server Installation Center window appears.

6. Select the Installation link at the top left.



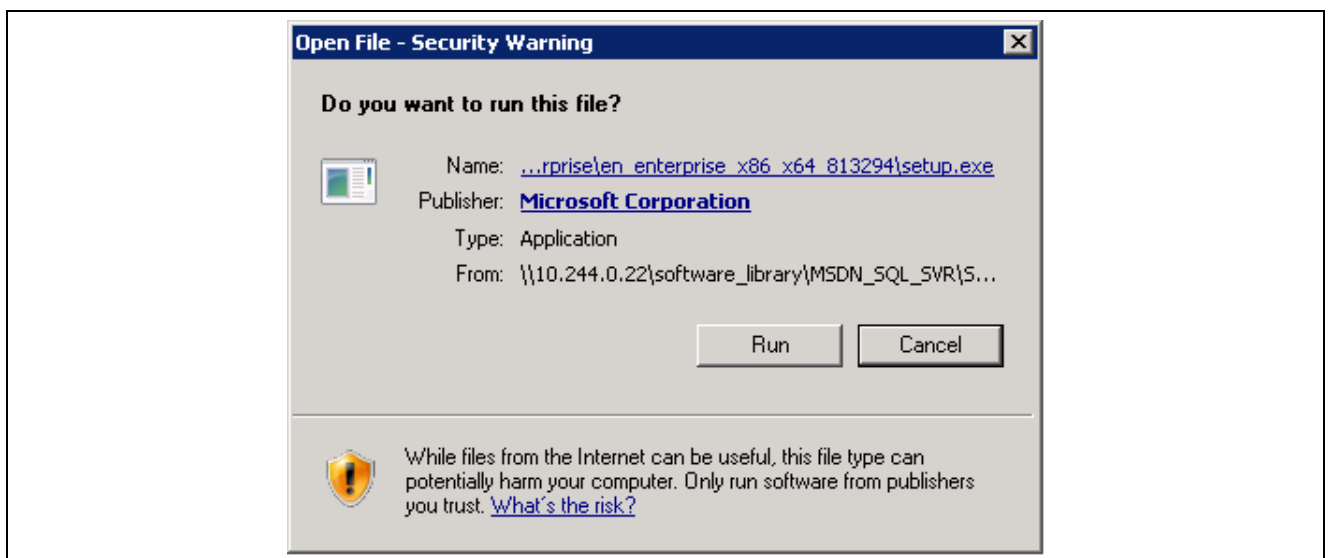
SQL Server Installation Center window for Microsoft SQL Server 2012

7. Select the link New SQL Server stand-alone installation or add features to an existing installation.



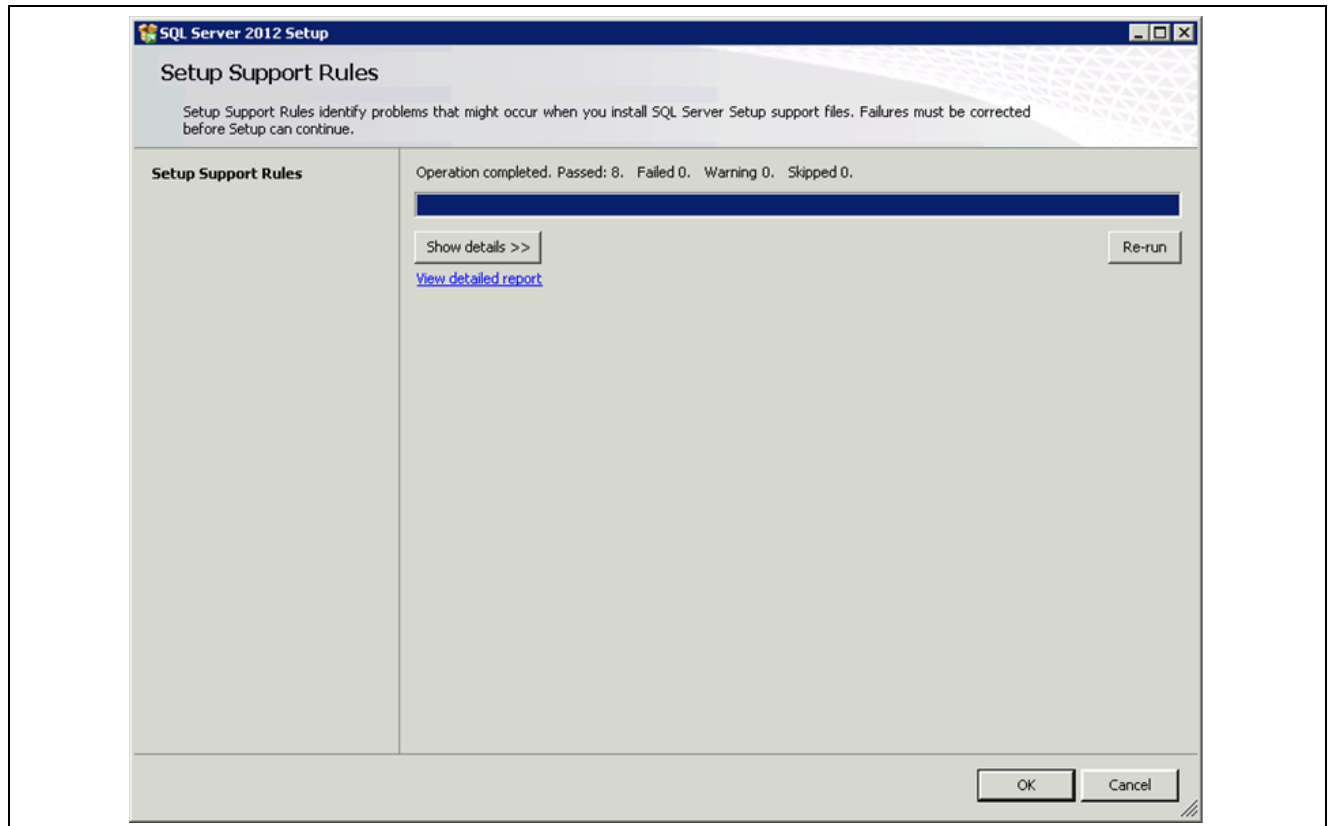
SQL Server Installation Center window with installation options

8. Click Run on the Open File - Security Warning dialog box.



Open File - Security Warning for Microsoft SQL Server 2012 installation

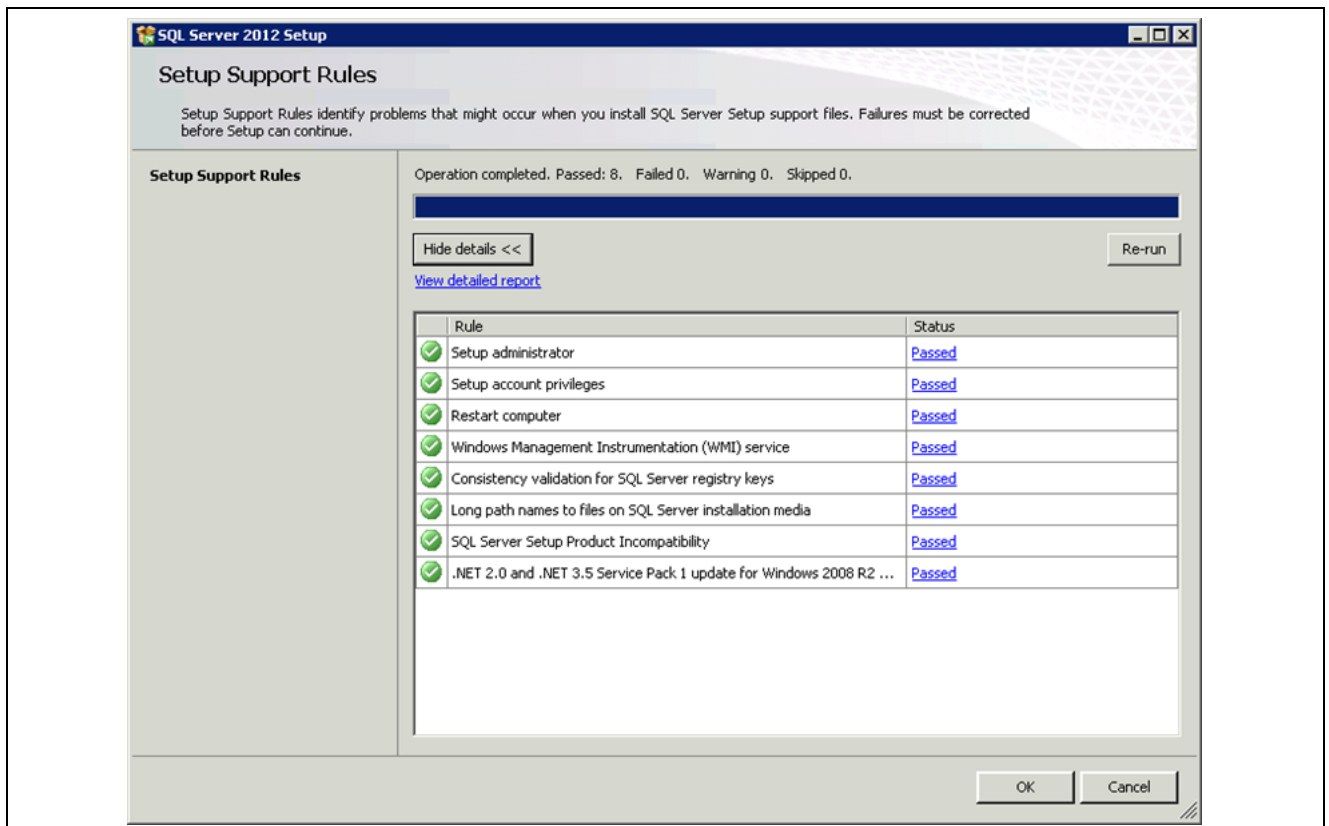
A message box appears asking you to wait. After the process is complete the Setup Support Rule window appears showing the progress of the initialization. Wait until the operation is complete, as shown in this example.



SQL Server 2012 Setup Support Rules progress indicator window

9. When the operation is complete, click Show details.

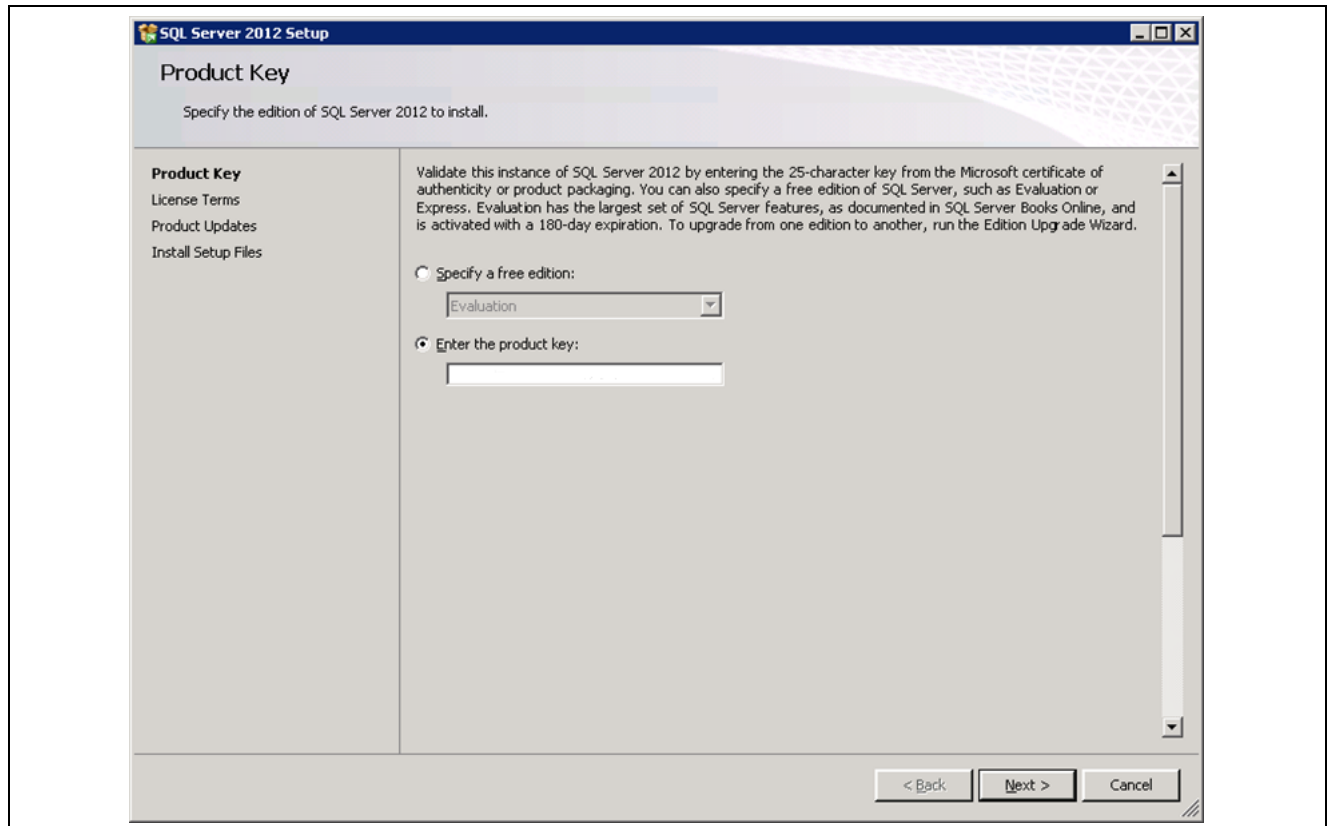
Verify that all of the listed Rules display Passed in the Status column, as shown in this example. If any one of them has not passed, select the link in the Status column to check the reason for the failure.



SQL Server 2012 Setup Support Rules window showing detailed report

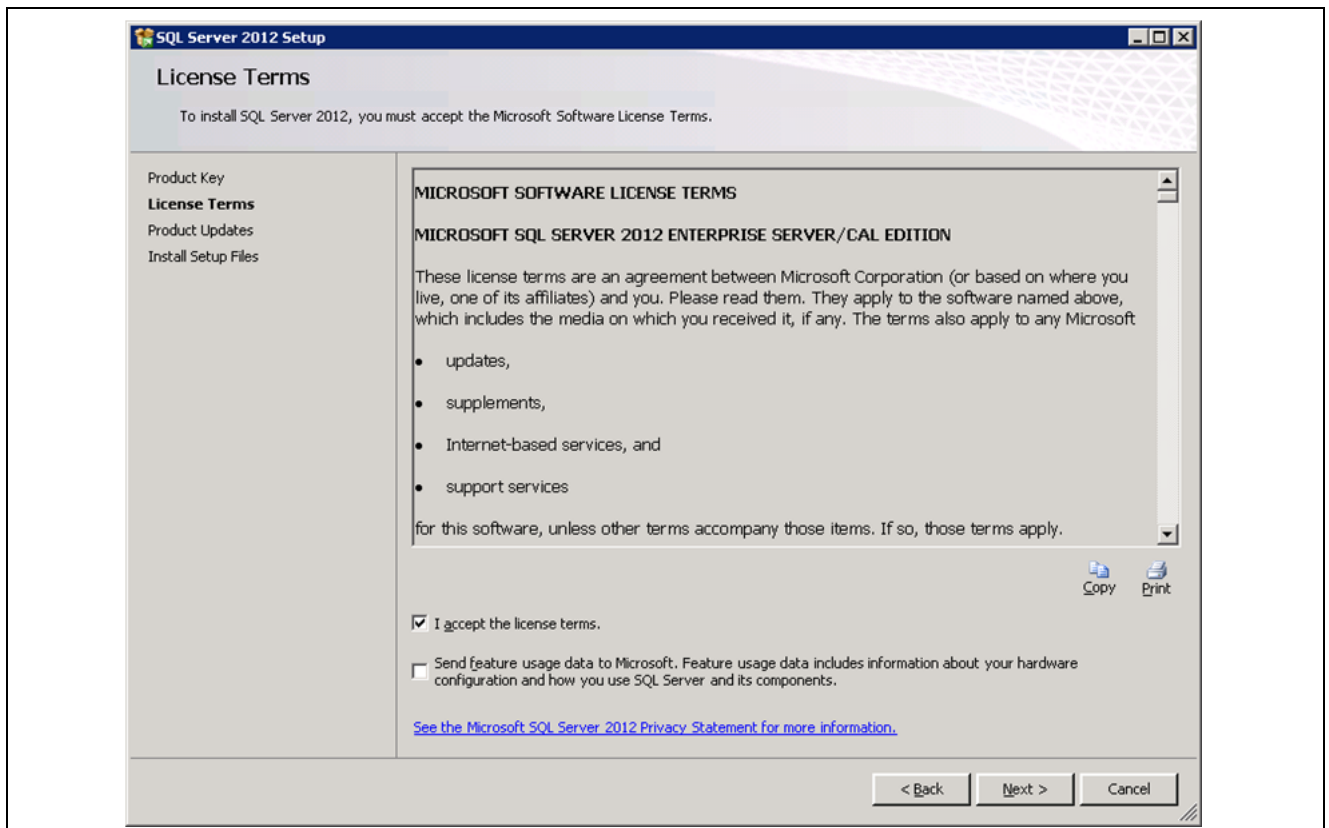
10. Click OK.

The Product Key window appears. Enter your product key value. If it is already populated, ignore this step and click Next to continue to the License Terms screen. In this example the field for Enter the product key is blank:



SQL Server 2012 Product Key window

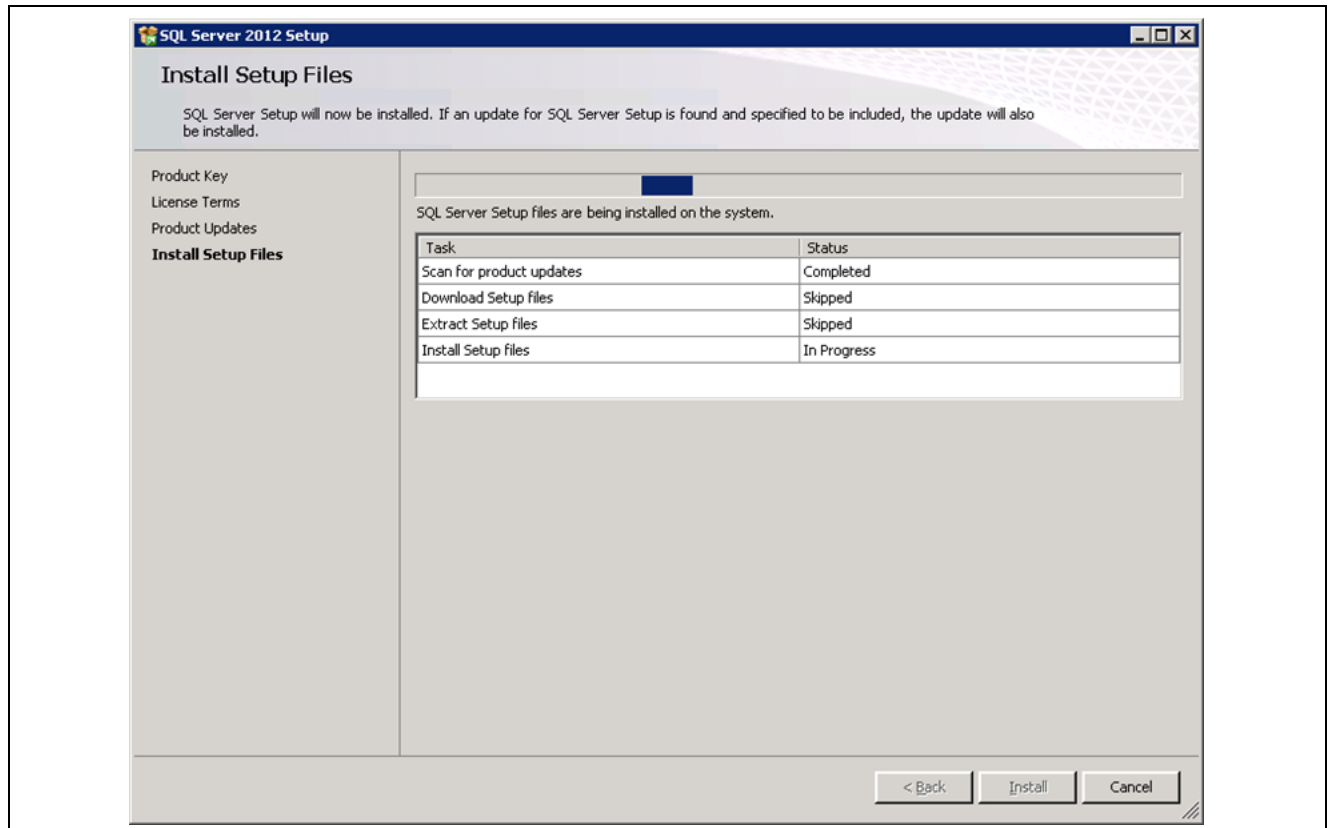
11. Read the terms and conditions carefully and select the check box I accept the license terms.



SQL Server 2012 Setup License Terms window

12. Click Next.

The Install Setup Files window appears. Wait for the process to install setup files and scan for product updates to complete, as shown in the Status column in this example.

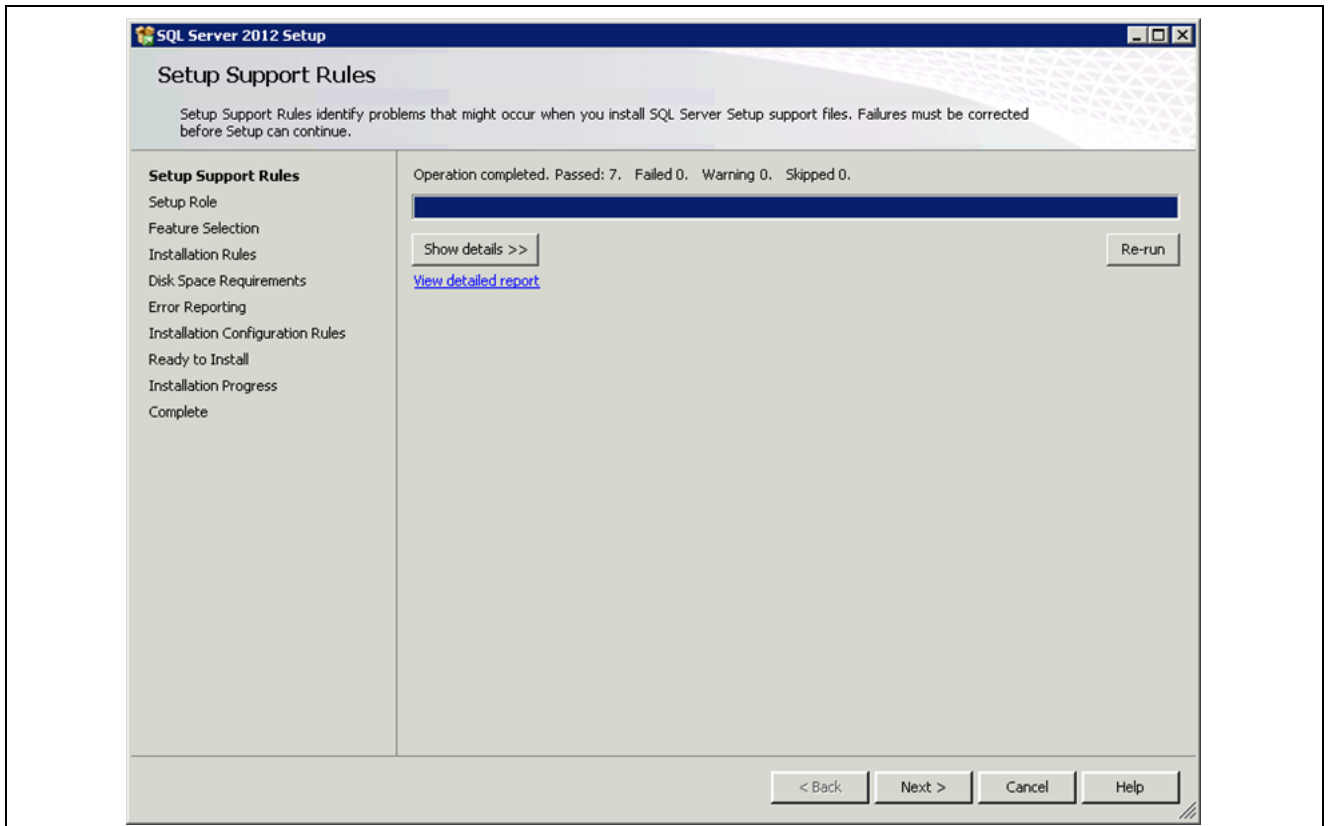


SQL Server 2012 Install Setup Files progress window

13. When the operation is complete, the Setup Support Rules window appears.

The setup operation checks for problems that might occur when you install support files. In this example all of the support rules have passed.

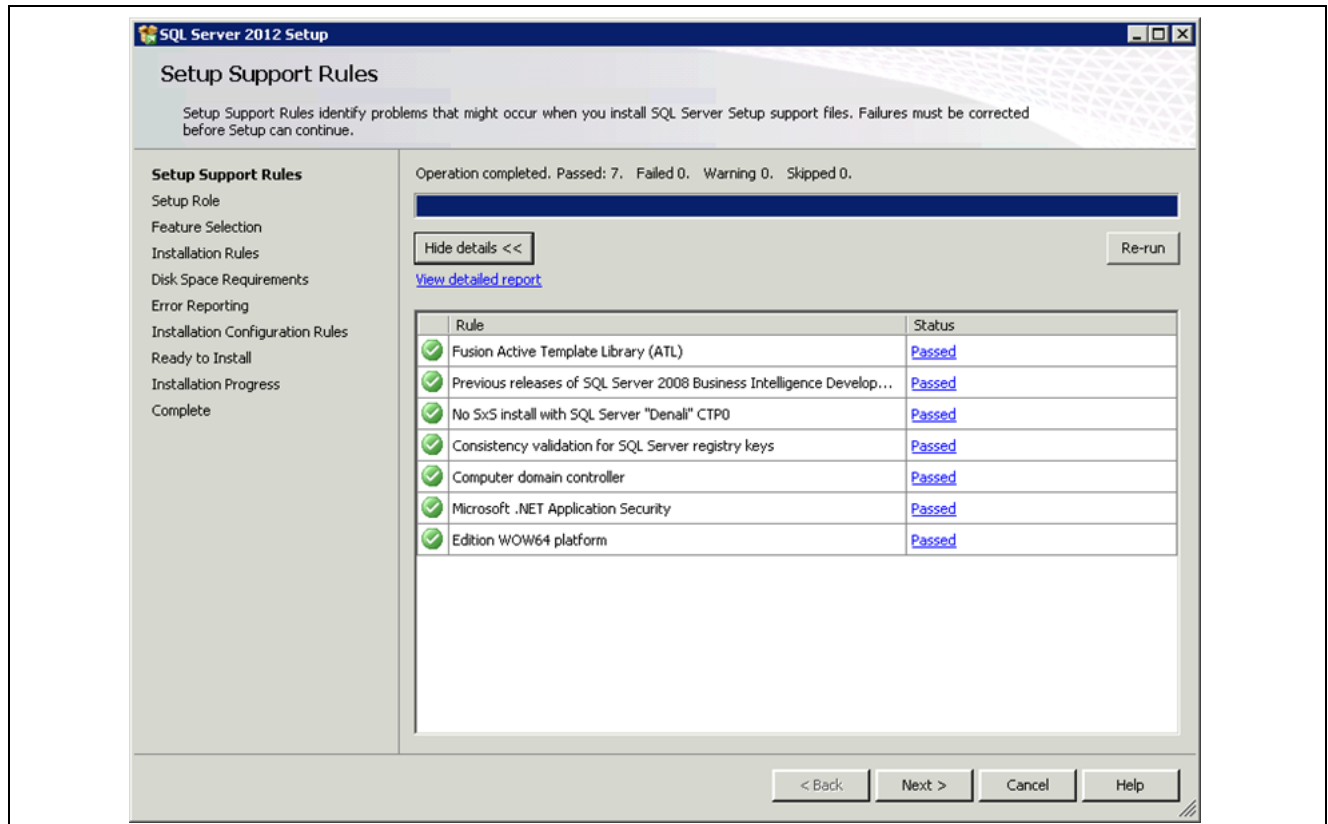




SQL Server 2012 Setup Support Rules window showing the operation completed

14. Click Show details.

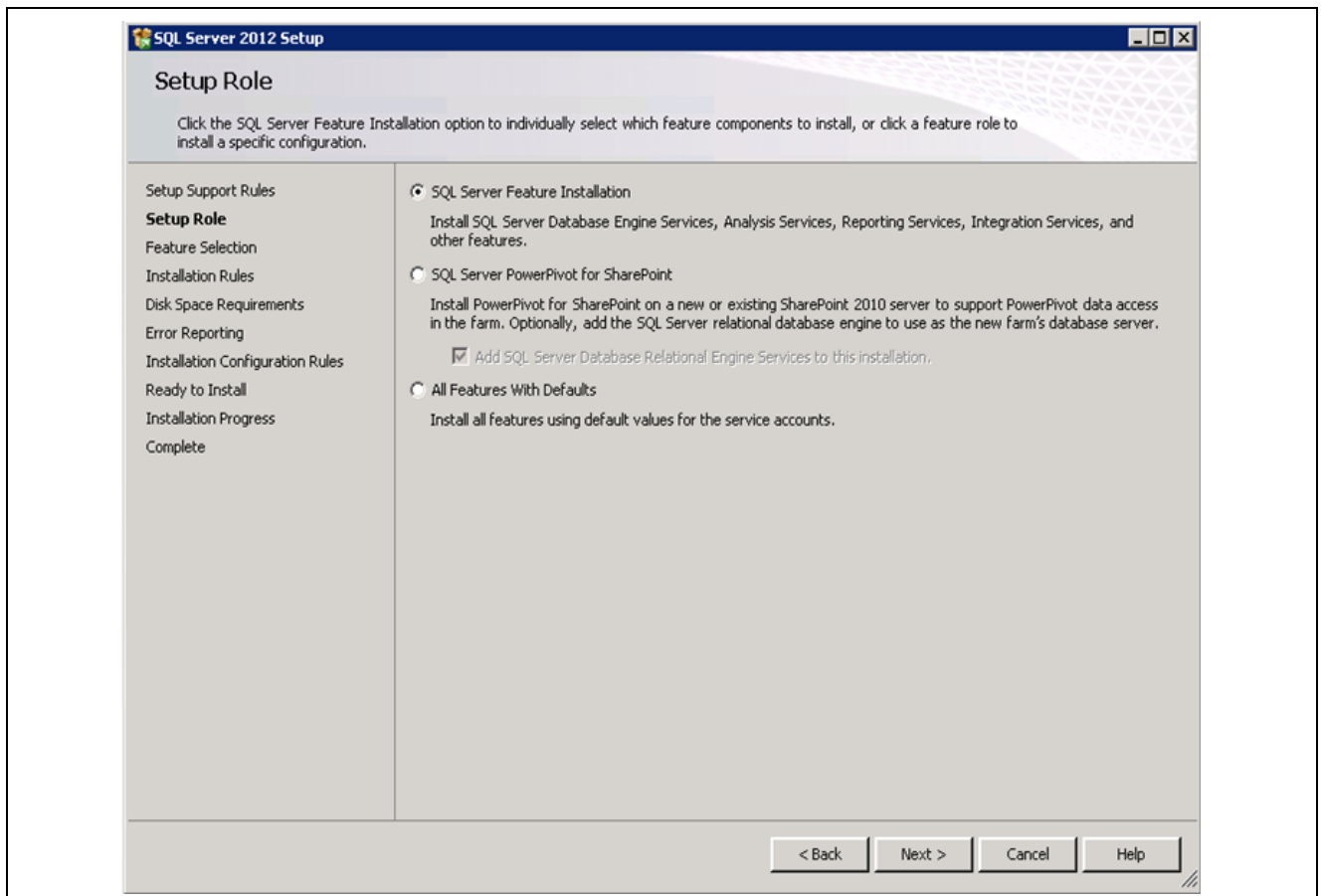
Verify that all of the listed Rules display Passed in the Status column, as shown in this example. If any one of them has not passed, select the link in the Status column to check the reason for the failure.



SQL Server 2012 Setup Support Rules window showing report details

15. Click Next to proceed.

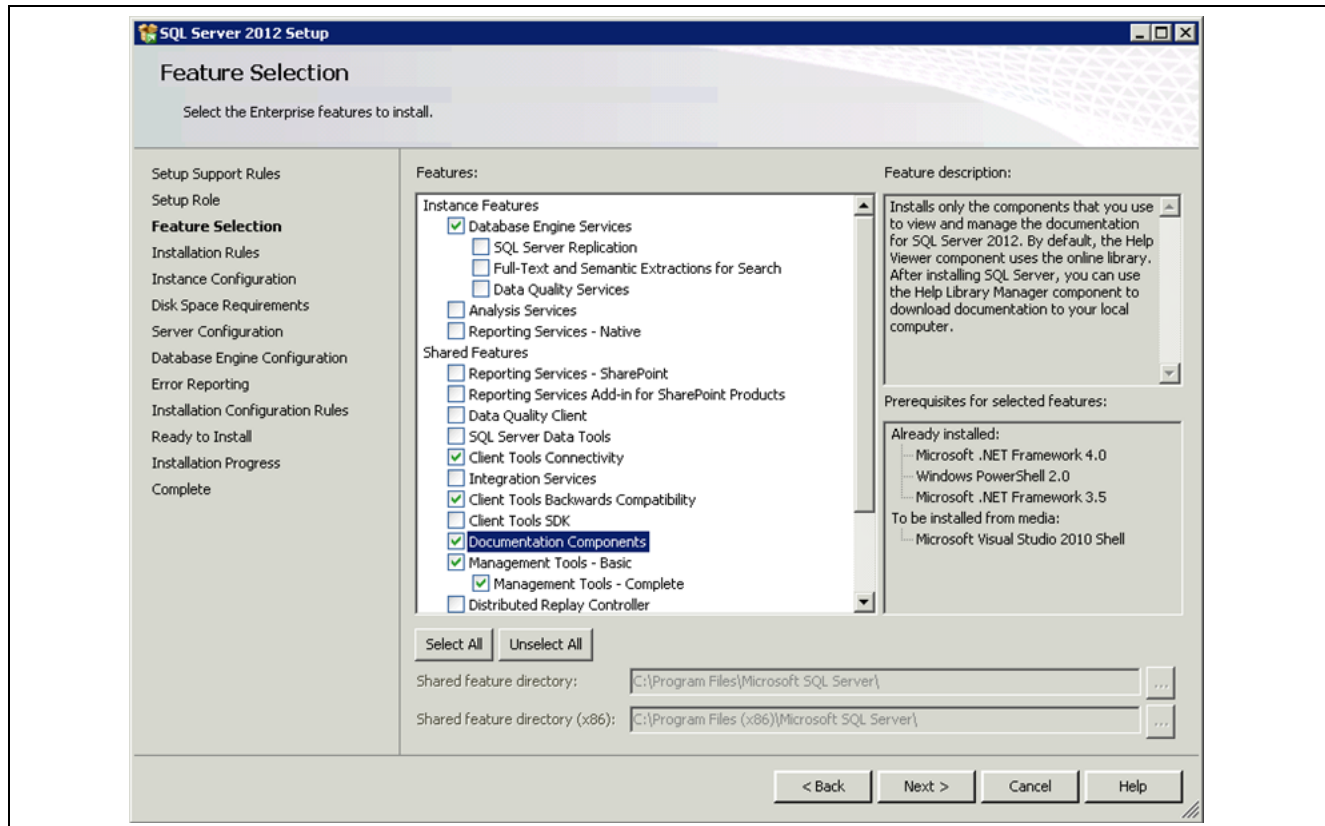
On the Setup Role window, select the option SQL Server Feature installation, as shown in this example, and click Next.



SQL Server 2012 Setup Role window with feature installation option selected

16. A Feature Selection window appears that lists all the features of Microsoft SQL Server 2012 that need to be installed.

This example shows the Feature Selection window with the features listed below selected.



SQL Server 2012 Feature Selection window with required options selected

For your PeopleSoft installation, select the following features (these are the minimum requirements):

- Database Engine Services
- Client Tools Connectivity
- Client Tools Backward Compatibility
- Management Tools - Basic
- Management Tools - Complete
- Documentation Components (Optional)

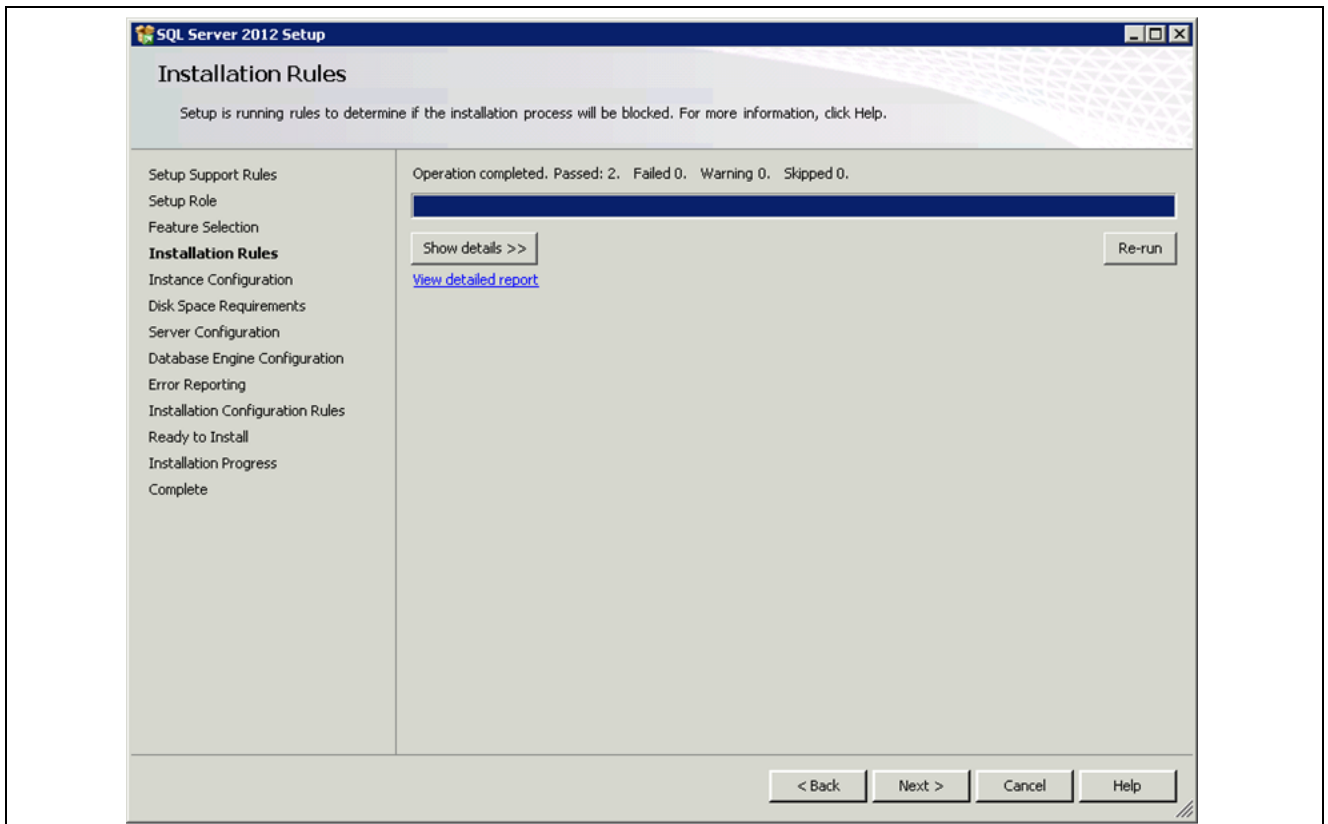
17. Clear the check boxes beside the following features:

- SQL Server Replication
- Full Text and Semantic Extractions for Search
- Data Quality Services
- Analysis Services
- Reporting Services - Native
- Reporting Services - SharePoint
- Reporting Services Add-in for SharePoint Products
- Data Quality Client
- SQL Server Data Tools
- Integration Services

- Client Tools SDK
- SQL Client Connectivity SDK
- Distributed Replay Controller
- Distributed Replay Client
- Master Data Services

18. Click Next.

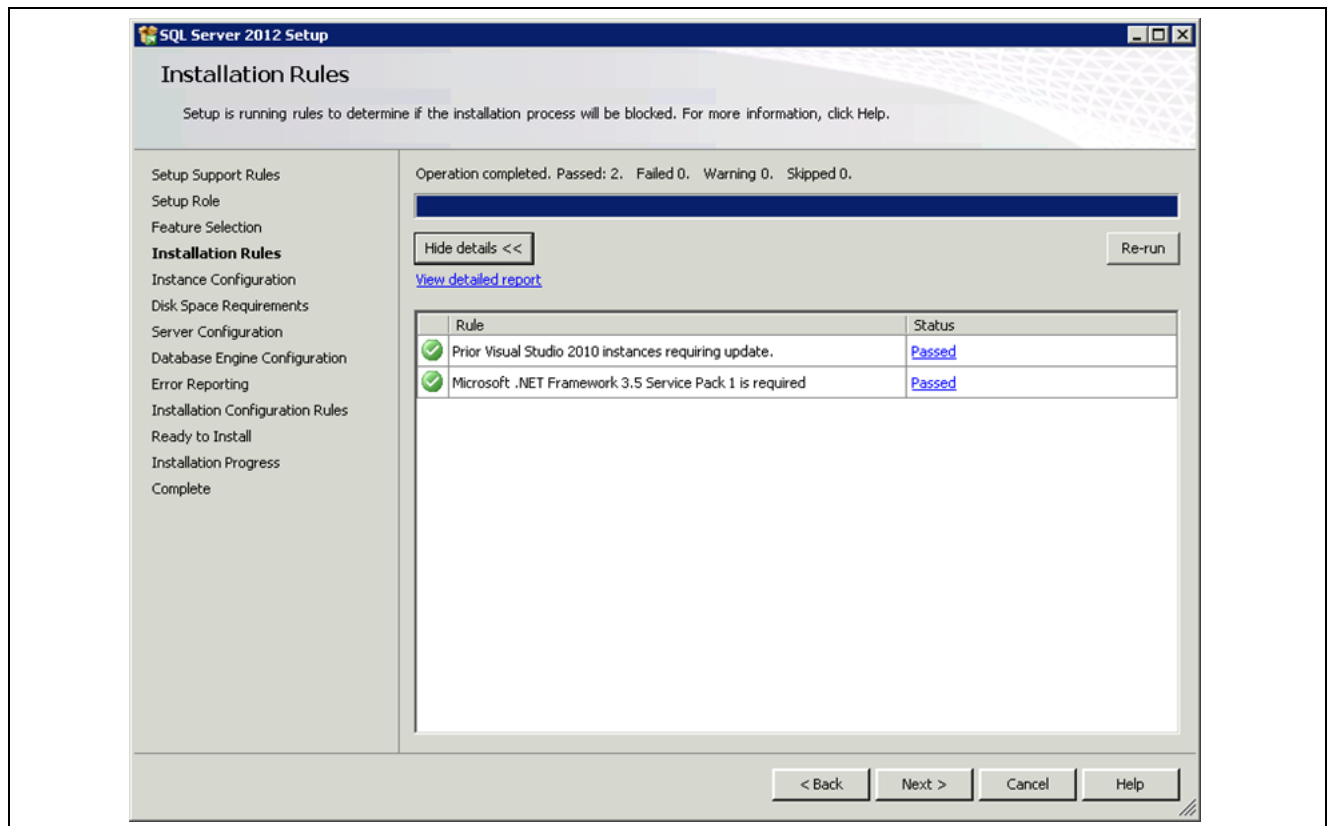
The Installation Rules window appears, and the setup operation runs rules to determine whether the installation will be blocked. The example below shows the operation is complete.



SQL Server 2012 Installation Rules window showing the operation completed

19. Click Show Details.

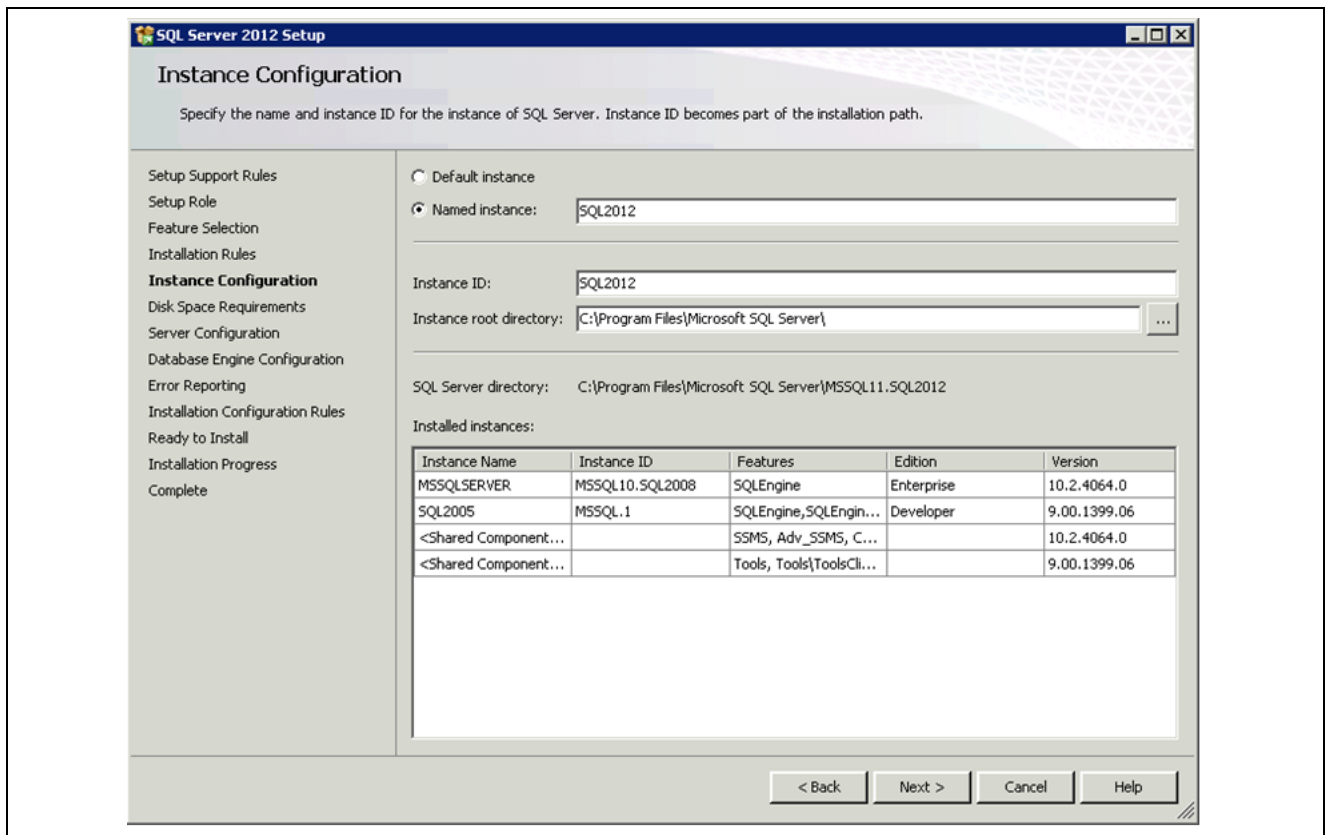
Verify that all of the listed Rules display Passed in the Status column, as shown in this example. If any one of them has not passed, select the link in the Status column to check the reason for the failure.



SQL Server 2012 Installation Rules window showing report details

20. Click Next.

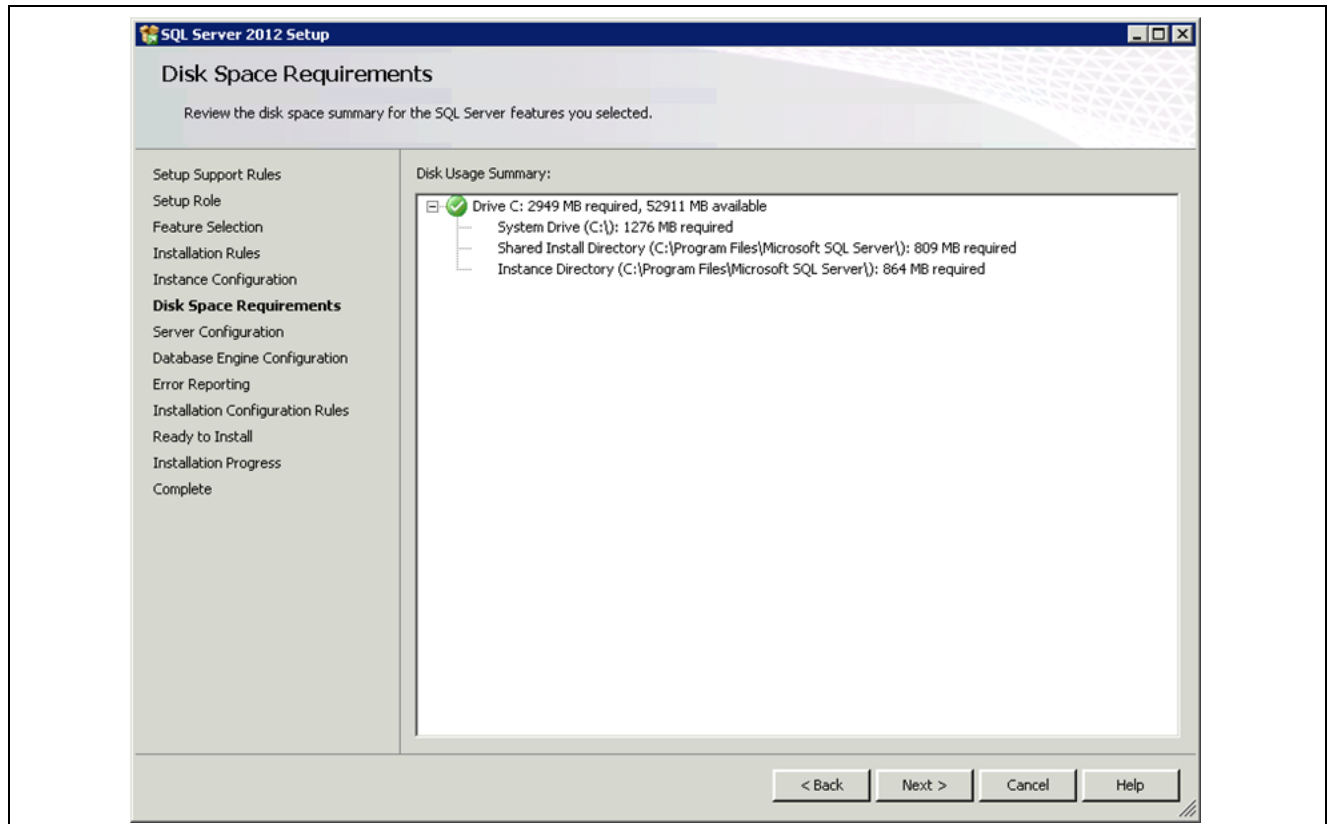
The Instance Configuration window appears. Enter *SQL2012* as the named instance, as shown in this example. In the Instance root directory field, accept the default path *C:\Program Files\Microsoft SQL Server*.



SQL Server 2012 Setup Instance Configuration window with named instance and default path

21. Click Next.

The Disk Space Requirements window appears, displaying the required and available disk space. The installation requires about 3 GB disk space, as shown in this example.

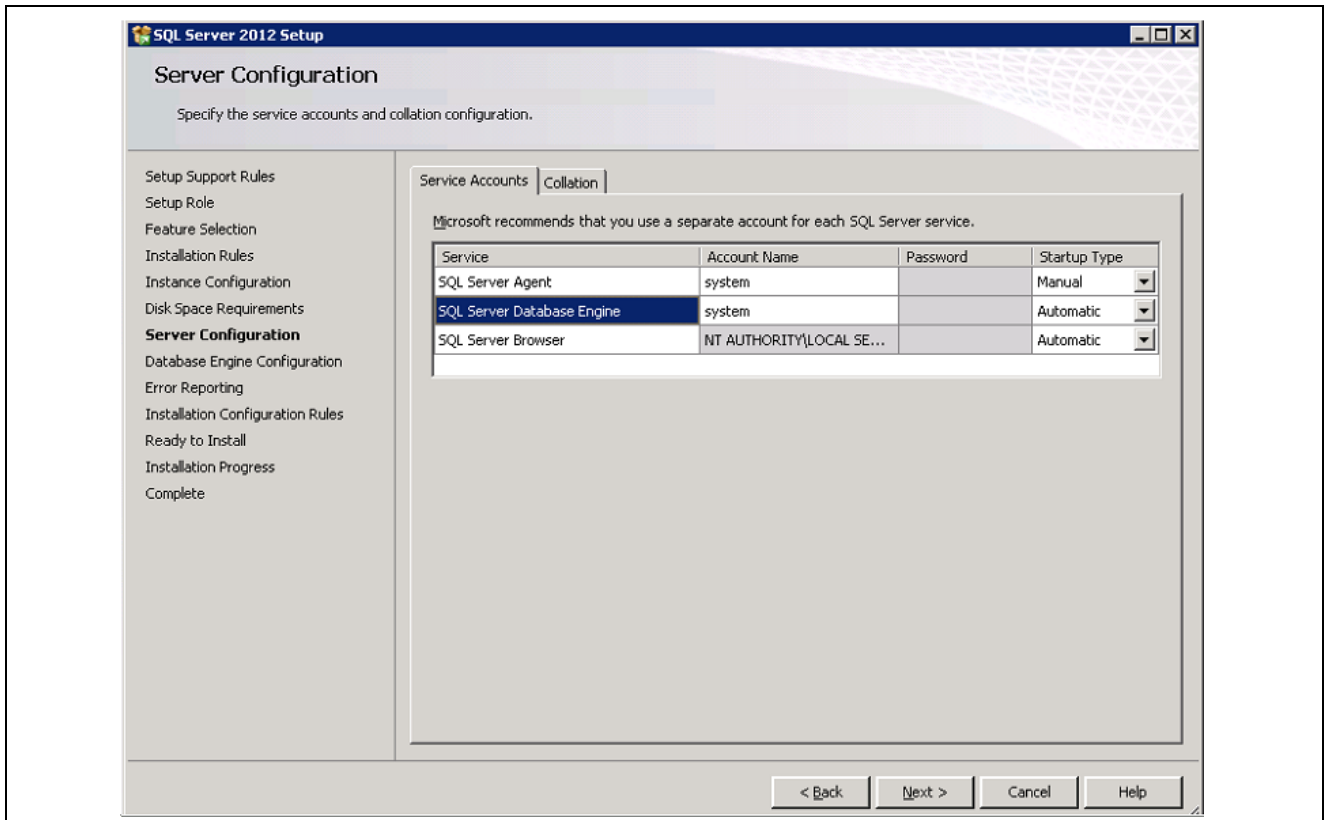


SQL Server 2012 Setup Disk Space Requirements window

22. Click Next.

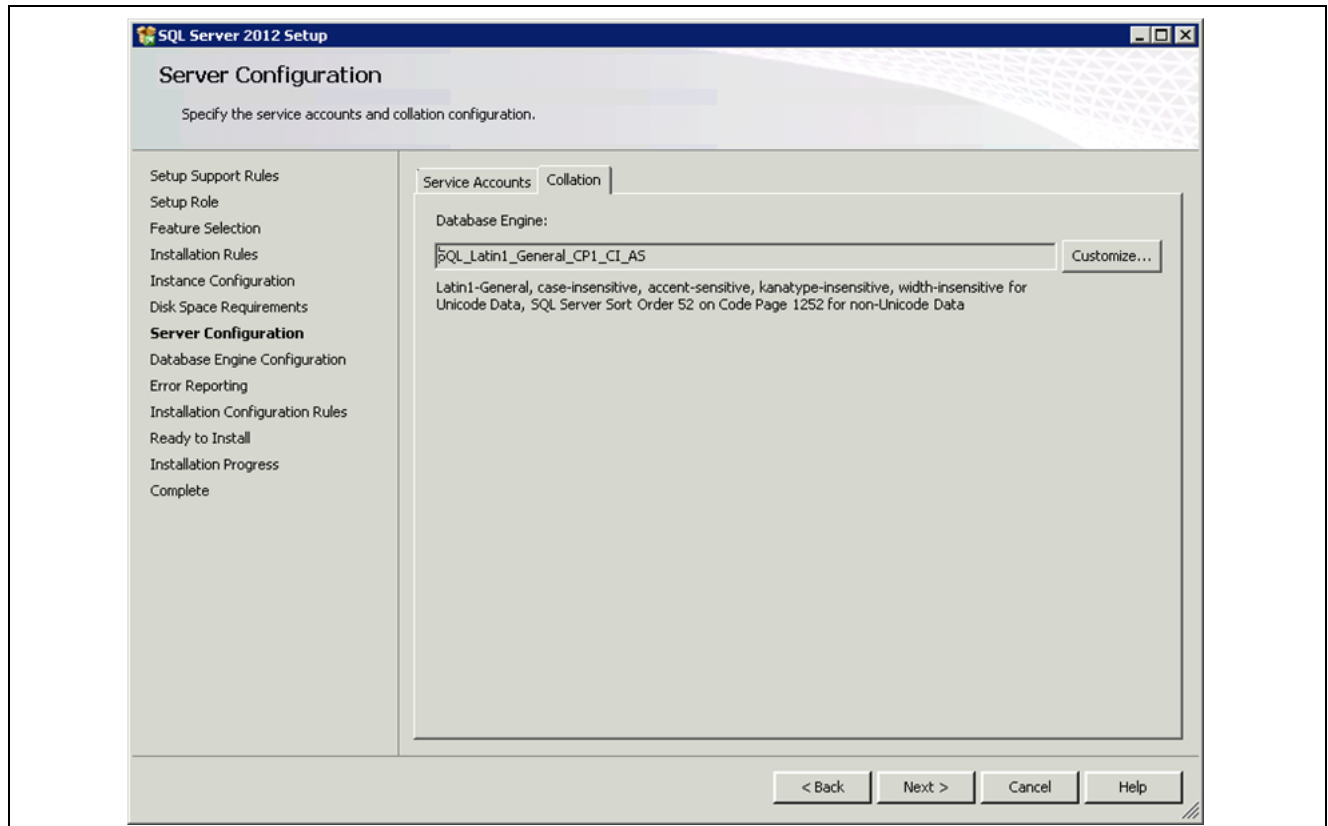
The Server Configuration window appears. Microsoft recommends that you use a separate account for the SQL Server services. This example shows the window after making the recommended selections:





SQL Server 2012 Setup Server Configuration window after changing account names

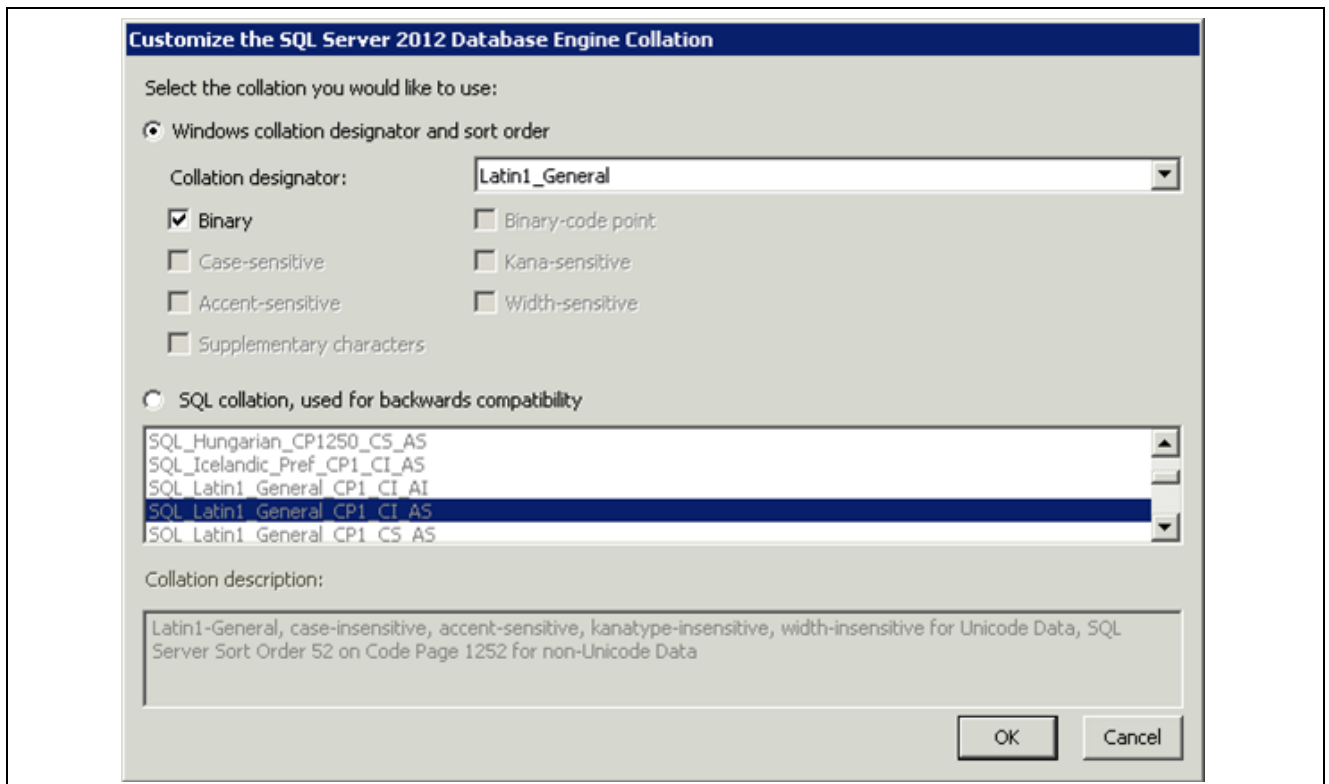
- a. To use the local system account, enter *system* as the account name for SQL Server Agent and SQL Server Database Engine.
  - b. Select Manual startup type for SQL Server Agent
  - c. Select Automatic startup type for SQL Server Database Engine
  - d. Select Automatic startup type for SQL Server Browser
23. Still on the Server Configuration window, select the Collation tab.
- This example shows the default collation, `SQL_Latin1_General_CP1_CI_AS`.



SQL Server 2012 Setup Server Configuration window: Collation page with default

24. Click Customize to change the default collation.

On the Customize the SQL Server 2012 Database Engine Collation window, select the option Windows collation designator and sort order. Select *Latin1\_General* as the Collation designator, and the Binary option, as shown in this example.

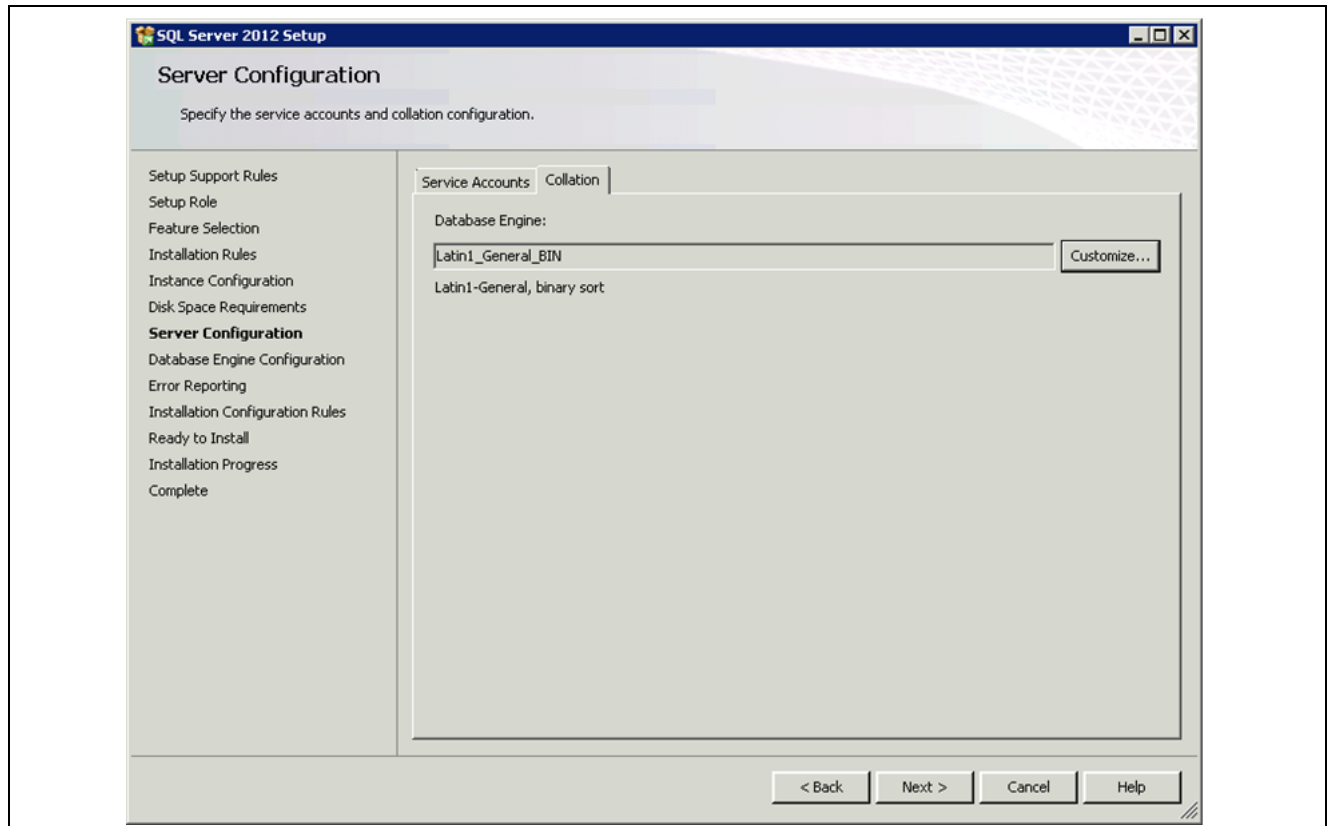


Customize the SQL Server 2012 Database Engine Collation window

Selecting these options changes the collation to Latin1\_General\_Bin. Your collation designation may vary if you are not using English.

25. Click OK.

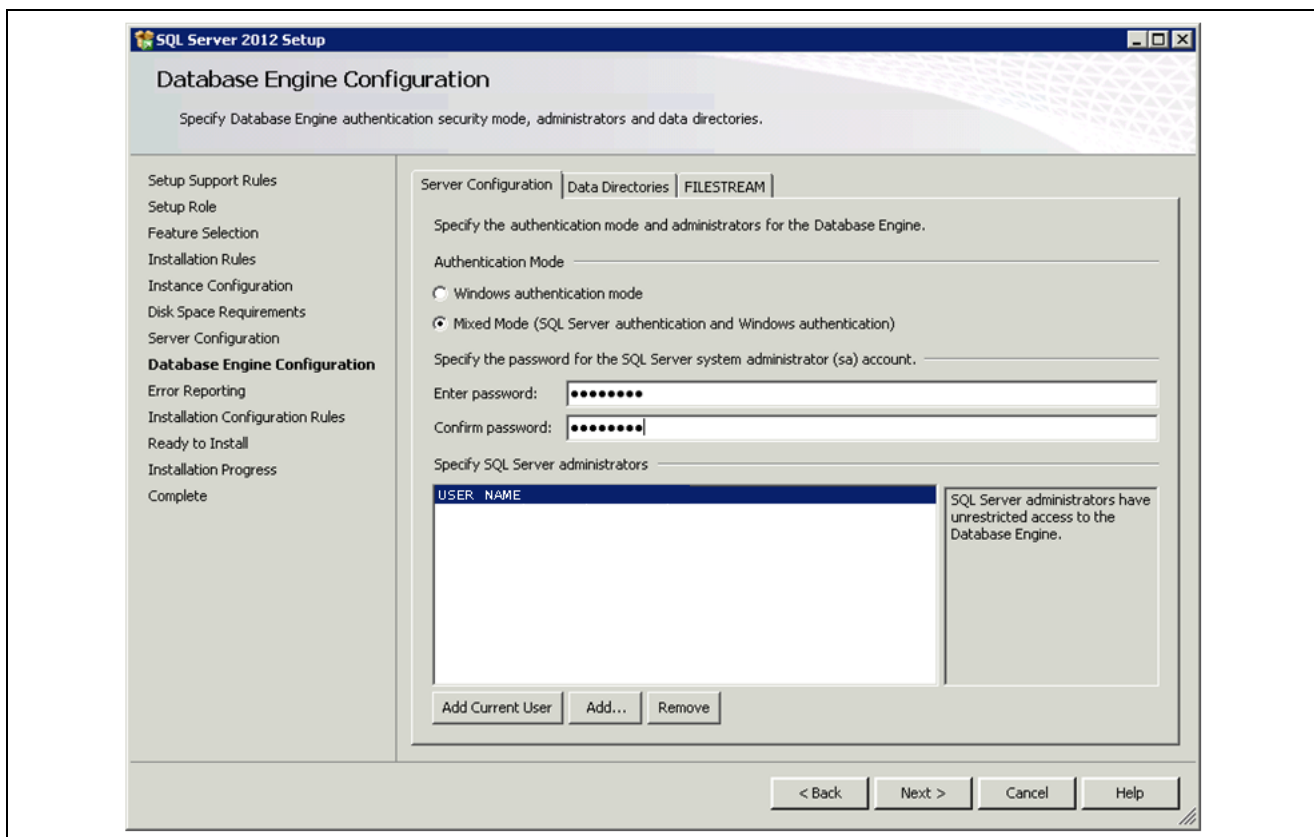
Verify on the Server Configuration Collation page that the collation is Latin1\_General\_BIN, Latin1-General, binary sort, as shown in this example.



SQL Server 2012 Setup Server Configuration: Collation page after making changes

26. Click Next.

The Database Engine Configuration window appears.



SQL Server 2012 Setup Database Engine Configuration window

Specify the following:

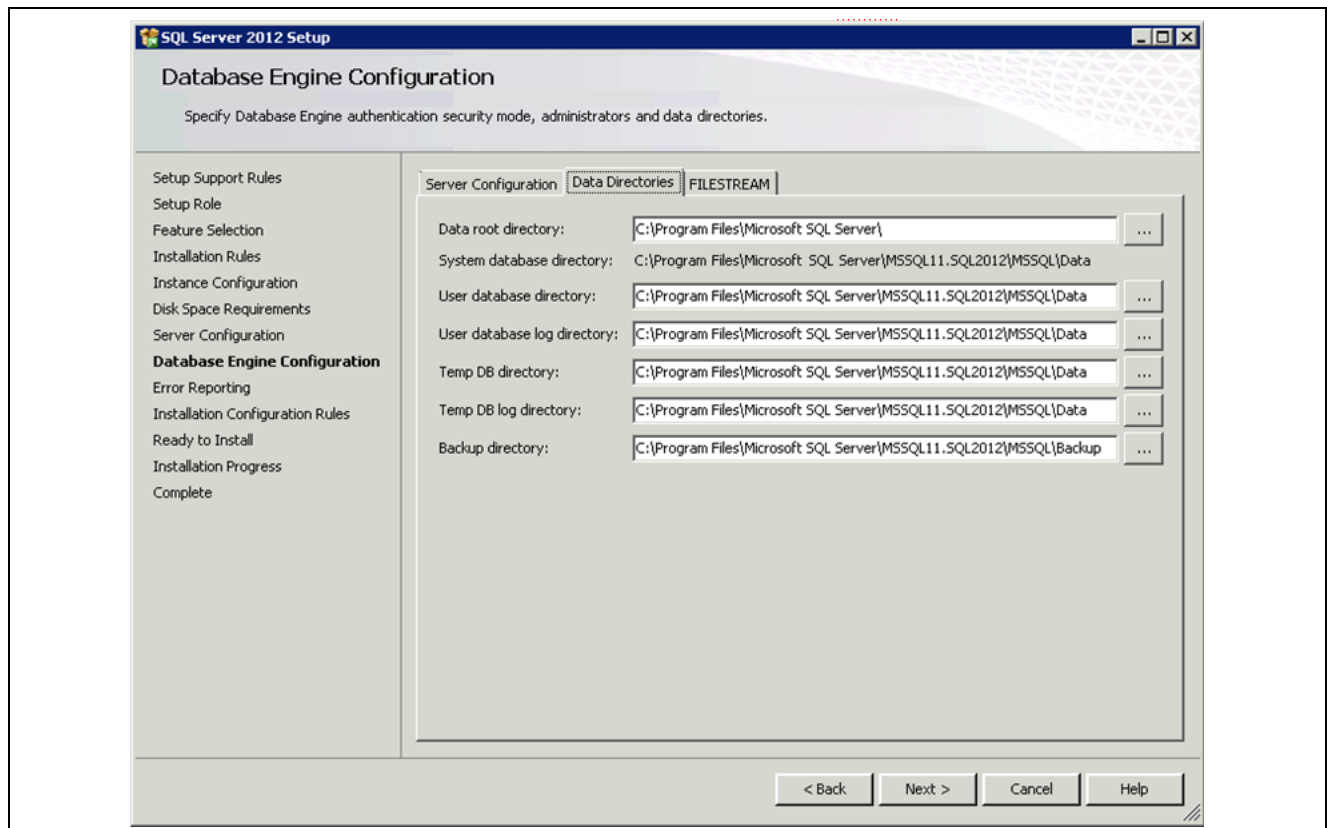
- Select the Mixed Mode option in the Authentication Mode area, as shown in this example.
- Enter and confirm a secure Microsoft SQL Server administrator (sa) password.

The password needs to meet password policy requirements given in the SQL Server 2012 Books Online.

- Click Add Current User and select the user under whose account the setup is running.

The current user shown in the example is USER NAME.

27. Select the Data Directories page.



SQL Server 2012 Setup Database Engine Configuration window: Data Directories page

This example of the Data Directories page shows all the directories on the same drive. However, Microsoft recommends that the directories included on this page reside on separate drives. Verify that the User database directory and the User database log directory are located in separate directories and on two different drives. In addition, the Temp DB directory and Temp DB log directory should be on a separate, third drive, and if possible, the Backup directory on a fourth drive.

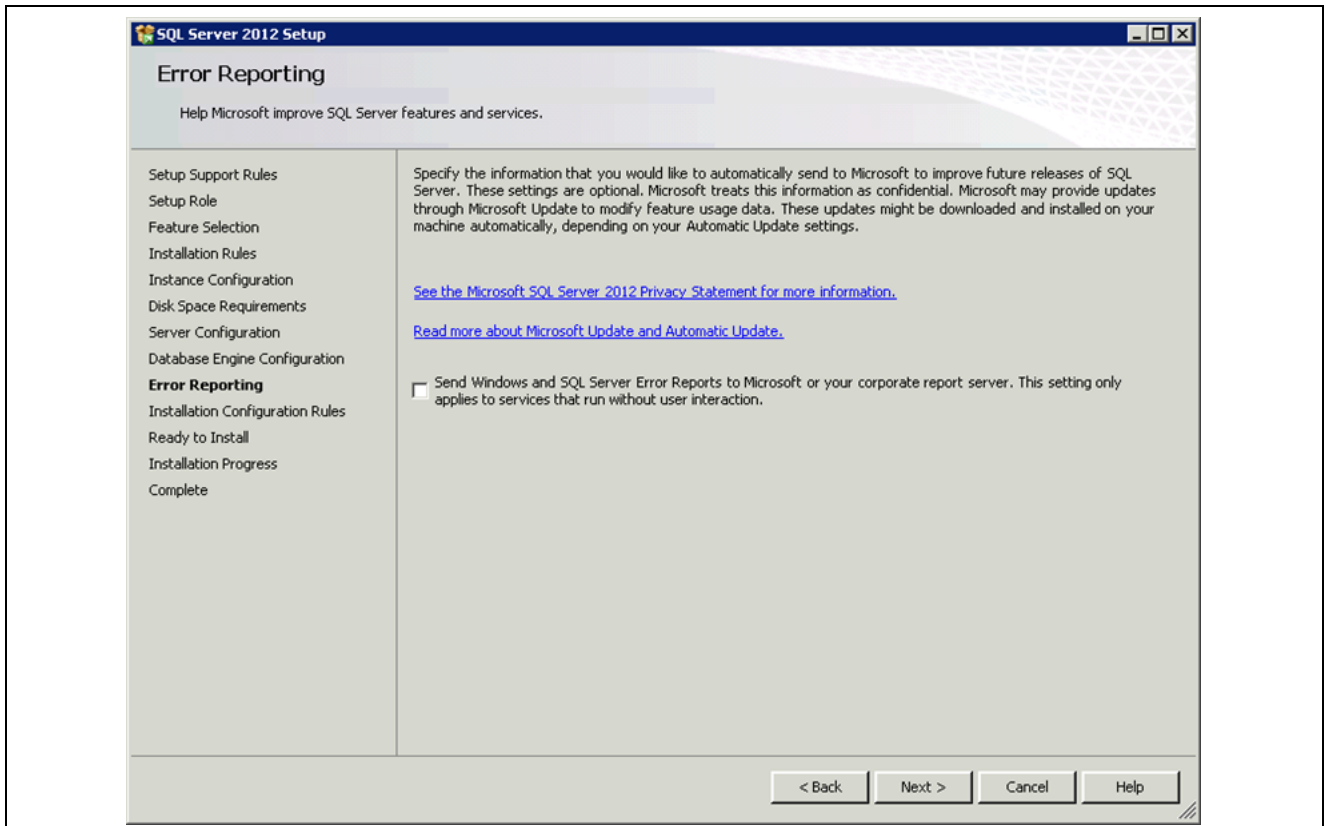
Consult the Microsoft support site, [support.microsoft.com](http://support.microsoft.com), for recommendations and best practices for the physical layout of database files, transaction log files, and temp DB.

See Microsoft SQL Server I/O subsystem requirements for the tempdb database, <http://support.microsoft.com/kb/917047/en-us>

See SQL Server 2000 Operations Guide: Capacity and Storage Management, <http://www.microsoft.com/technet/prodtechnol/sql/2000/maintain/sqlops6.mspx>

## 28. Click Next.

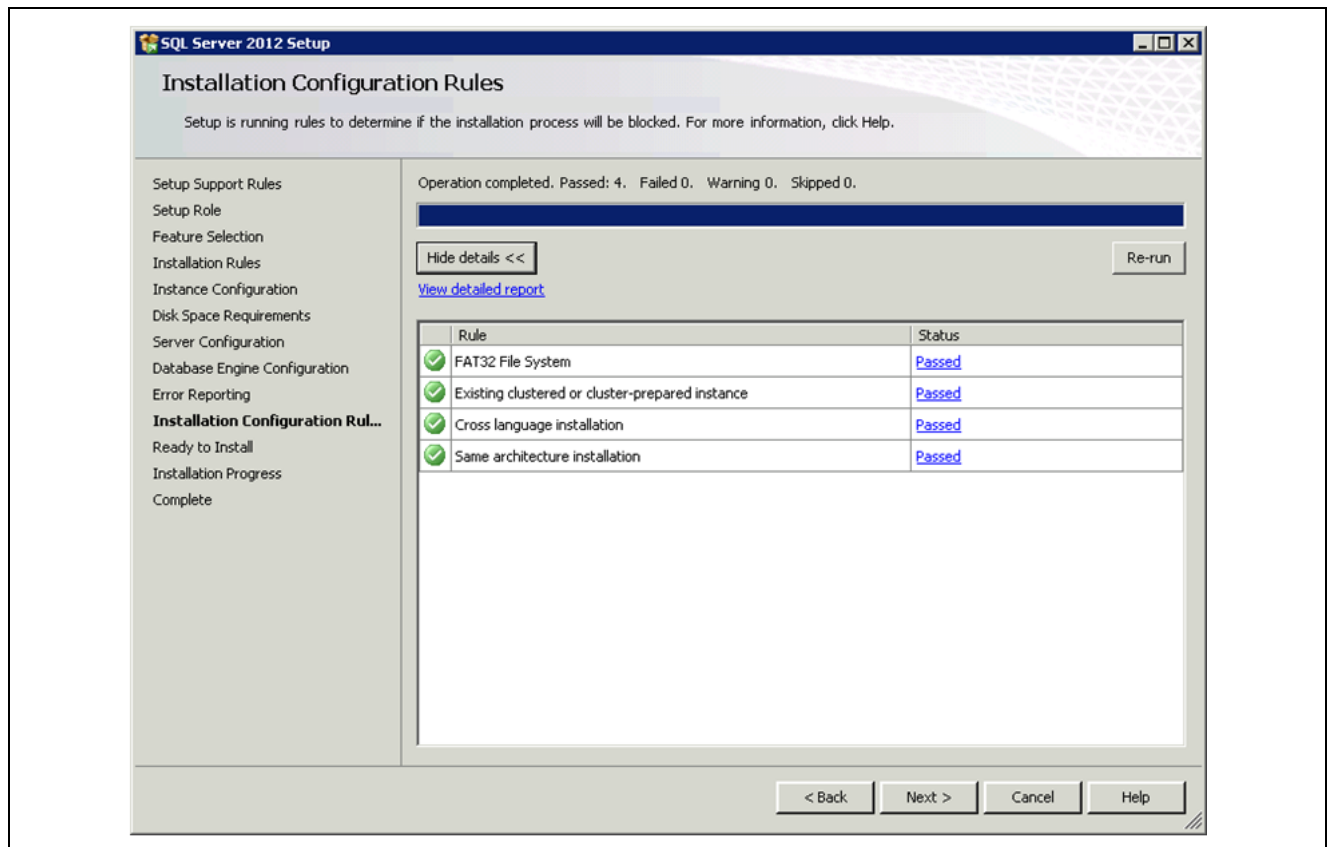
The Error Reporting window appears. If desired, select the options to send error reports to Microsoft. This example shows the option cleared.



SQL Server 2012 Setup Error Reporting window

## 29. Click Next.

The Installation Configuration Rules window appears. The setup operation runs rules to determine whether the installation will be blocked. Wait until the operation is complete, and then click Show details. Verify that all of the rules have Passed in the Status column. If any rule does not pass, click the link in the Status column to check the reason for the failure.

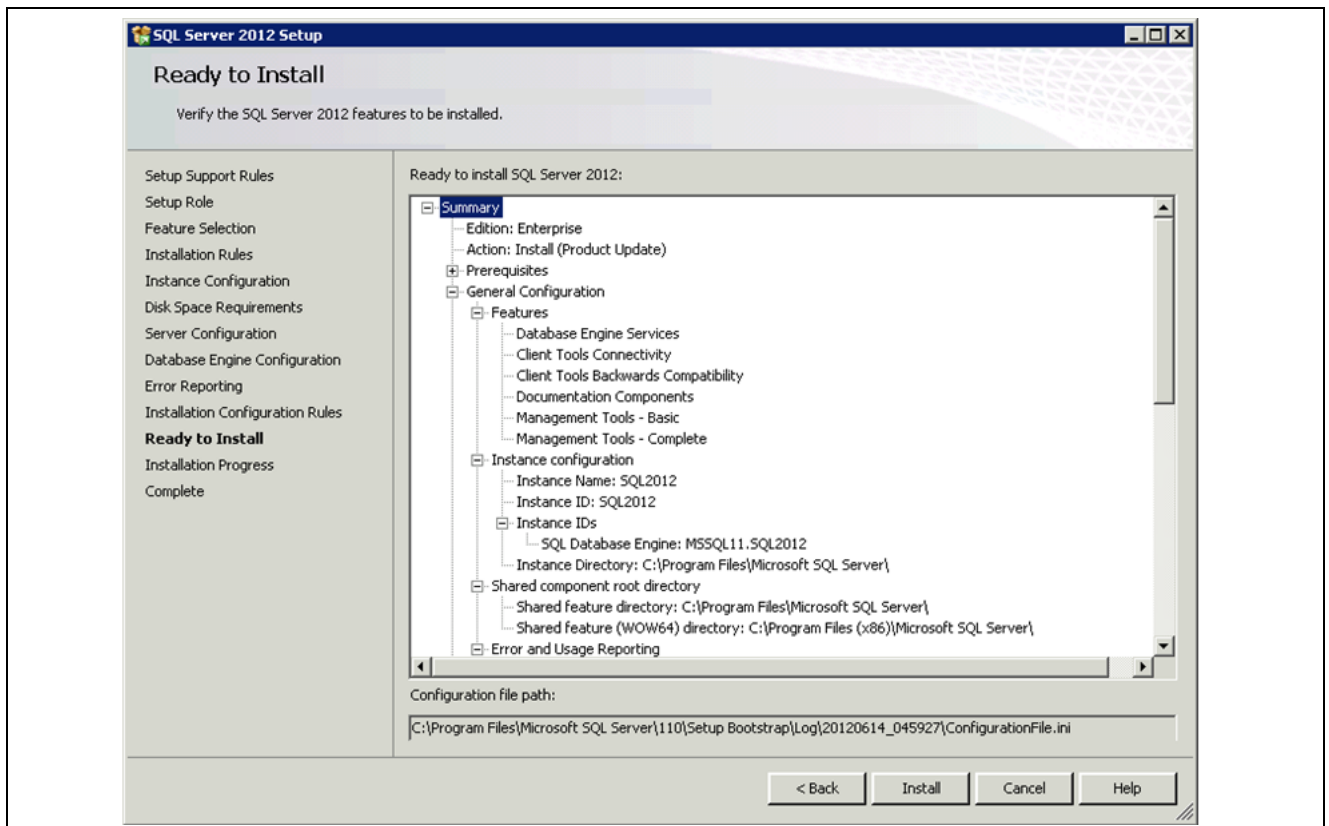


SQL Server 2012 Setup Installation Configuration Rules window showing report details

30. Click Next.

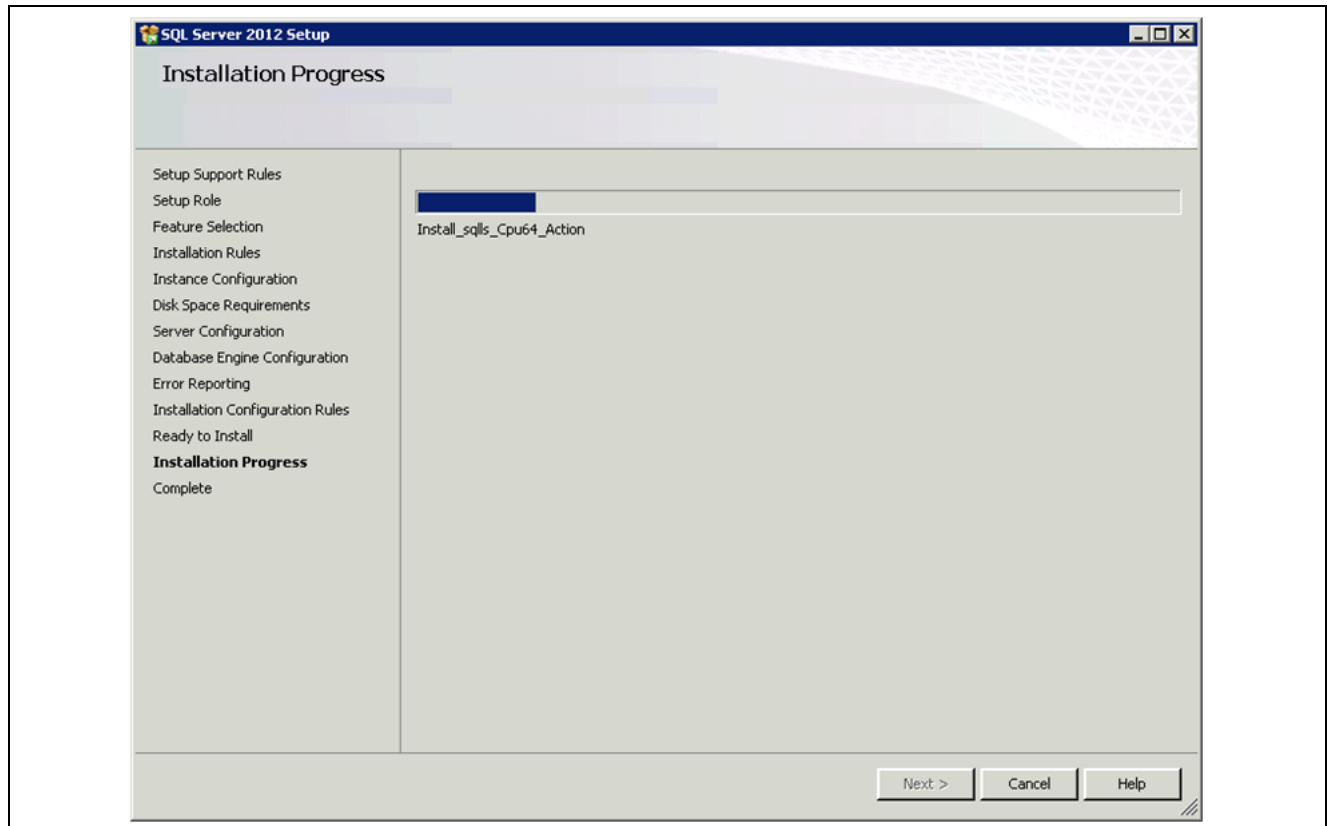
The Ready to Install window appears with a summary of the features and settings that you have selected. Select Install to proceed or Back to go back and correct a setting.





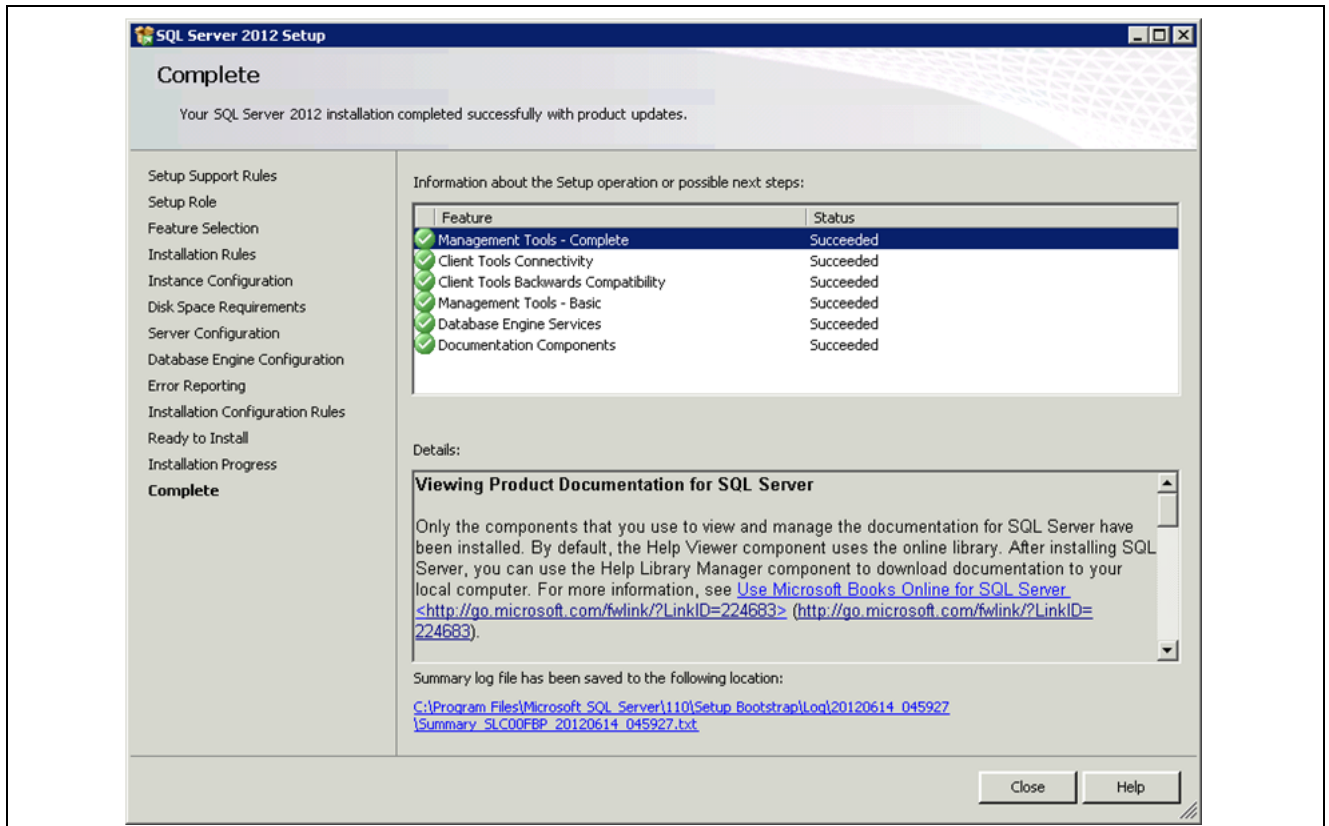
SQL Server 2012 Setup Ready to Install window

A window appears showing the progress of the installation, as shown in this example. The installation requires 10-15 minutes, and may depend upon your system configuration.



SQL Server 2012 Setup Installation Progress

Wait for all the components to install successfully. All of the components should show a status of Succeeded as shown in this example. If any one of them shows a status of Failed select the status link to check the reason for the failure



SQL Server 2012 Setup Complete window

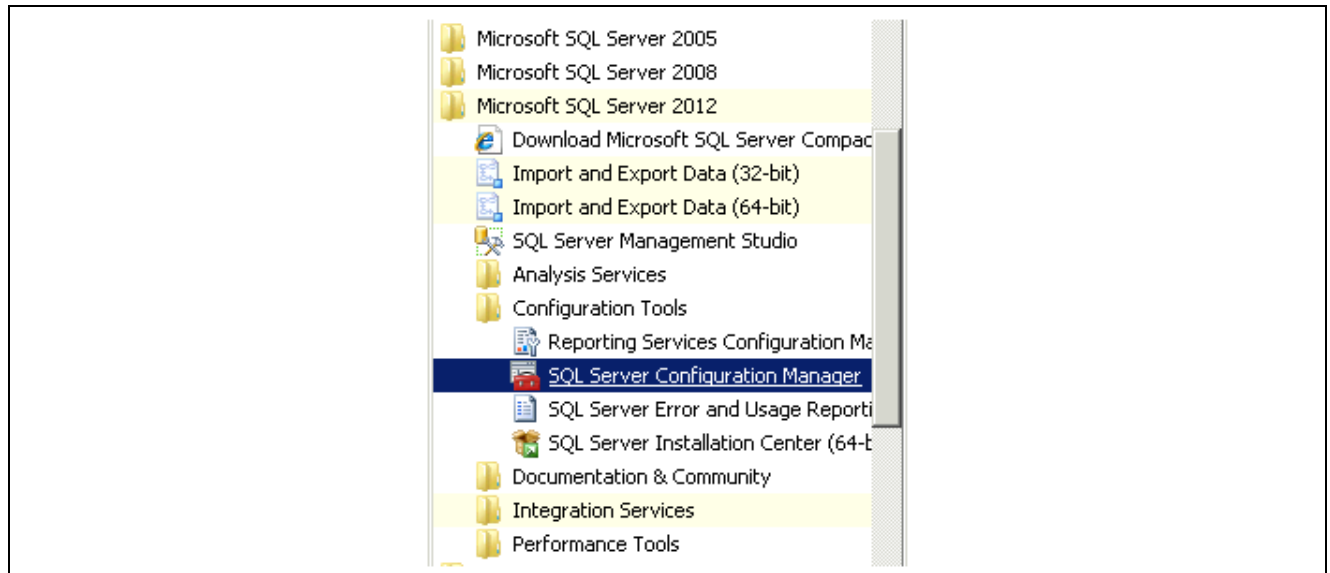
The window also includes the location of the setup log files (<identifier> is a string including a timestamp):

C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\*identifier*\Summary*identifier*.txt

## Task 22-2: Starting and Stopping Microsoft SQL Server 2012

To start or stop the server:

1. Select Start, Programs, Microsoft SQL Server 2012, Configuration Tools, SQL Server Configuration Manager, as shown in this example.

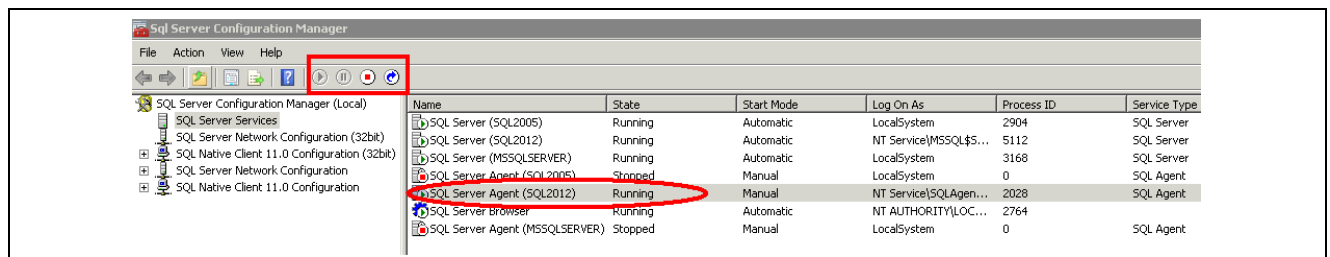


Starting SQL Server Configuration Manager

The Sql Server Configuration Manager window opens.

- On the left side of the window select SQL Server Services, and on the right side select the server or instance name you want to start or stop.
- If the service is running, highlight the service name and click the stop button on the top menu bar.

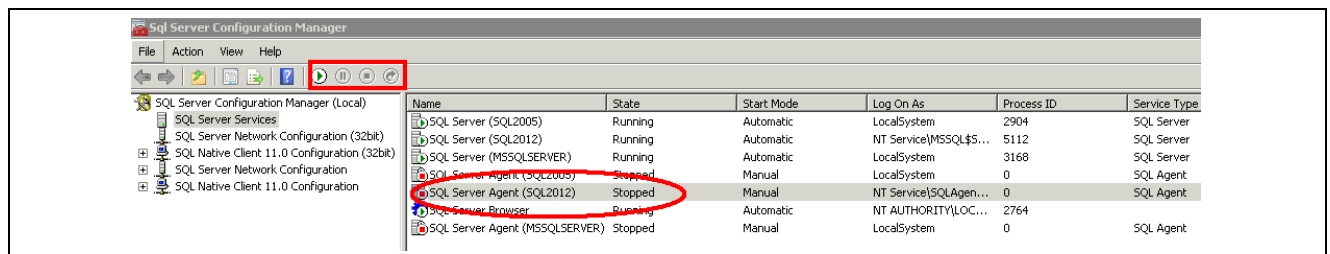
In this example, the running service SQL Server Agent (SQL2012) and the stop button are circled.



Sql Server Configuration Manager showing a running service and stop button

- If the service is stopped, highlight the name and click the start button on the top menu bar.

In this example, the stopped service SQL Server Agent (SQL2012) and the start button are circled.



Sql Server Configuration Manager showing a stopped service and start button

---

## Task 22-3: Installing Microsoft SQL Server 2012 — Client Only

Use these instructions to install only the client portion of Microsoft SQL Server 2012. You may use the client software, for example, when using a remote machine to connect to the database server on another machine.

The Microsoft SQL Server 2012 client installation on Microsoft Windows 7 operating system has these prerequisites:

- Service Pack 1 or later for Microsoft Windows 7 or Windows Server 2008 R2.

If your computer does not have at least Service Pack 1 for Microsoft Windows 7 or Microsoft Windows Server 2008 R2, you see this error message when you try to install Microsoft SQL Server 2012 client:

“The operating system on this computer does not meet the minimum requirements for SQL Server 2012. For Windows Vista or Windows Server 2008 operating systems, Service Pack 2 or later is required. For Windows 7 or Windows Server 2008 R2, Service Pack 1 or later is required. For more information, see Hardware and Software Requirements for installing SQL Server 2012 at: <http://go.microsoft.com/fwlink/?LinkID=195092>.”

- Microsoft .NET Framework 4

The first part of the installation includes a step to install Microsoft .NET Framework 4.

To install Microsoft SQL Server 2012 client software:

1. If you want to uninstall your previous Microsoft SQL Server software before installing Microsoft SQL Server 2012, you can use Control Panel, Add/Remove Programs.

---

**Note.** Oracle recommends that you install only one SQL Server version per server. This should simplify the administration. However, in some instances you may need to install multiple versions, and it is possible to have side-by-side installations of Microsoft SQL Server 2008 and Microsoft SQL Server 2012.

---

2. Download the Microsoft SQL Server 2012 Software from the Microsoft web site.
3. Install .NET Framework 4 and restart the system before installing SQL Server 2012.

See "Setting Up Process Scheduler on Windows," Installing Products for PS/nVision.

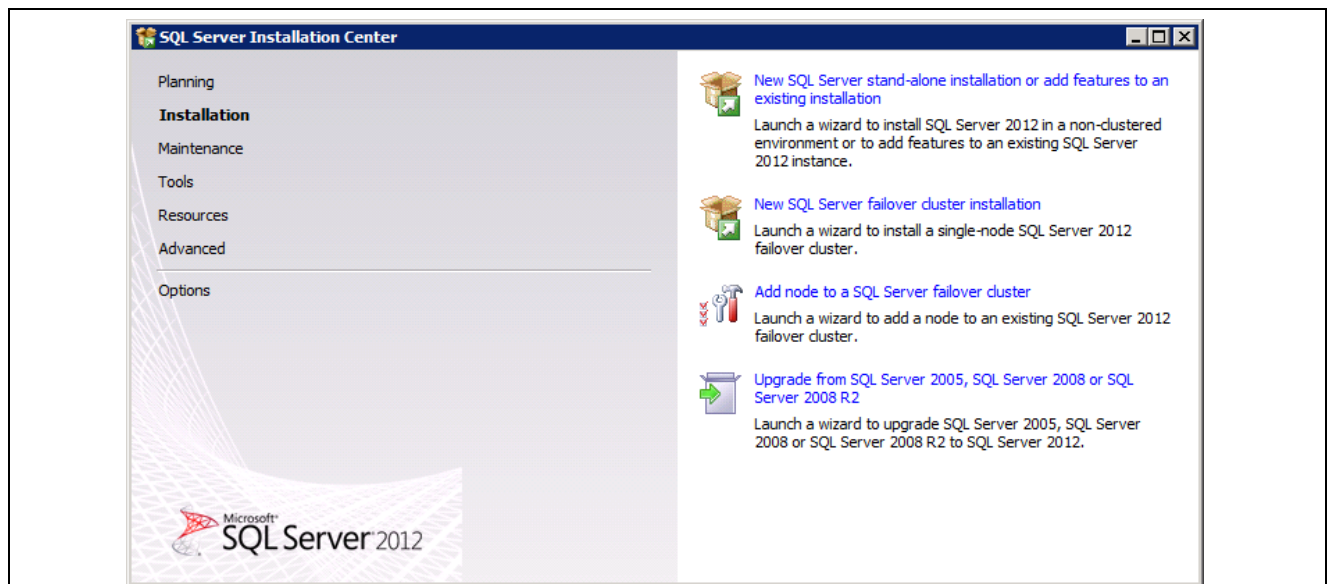
4. Select `setup.exe` from the directory where you downloaded the installation files.

An initialization window appears, followed by the SQL Server Installation Center window.



SQL Server Installation Center for Microsoft SQL Server 2012

5. Select the Installation link on the top left.



SQL Server Installation Center displaying Installation Links

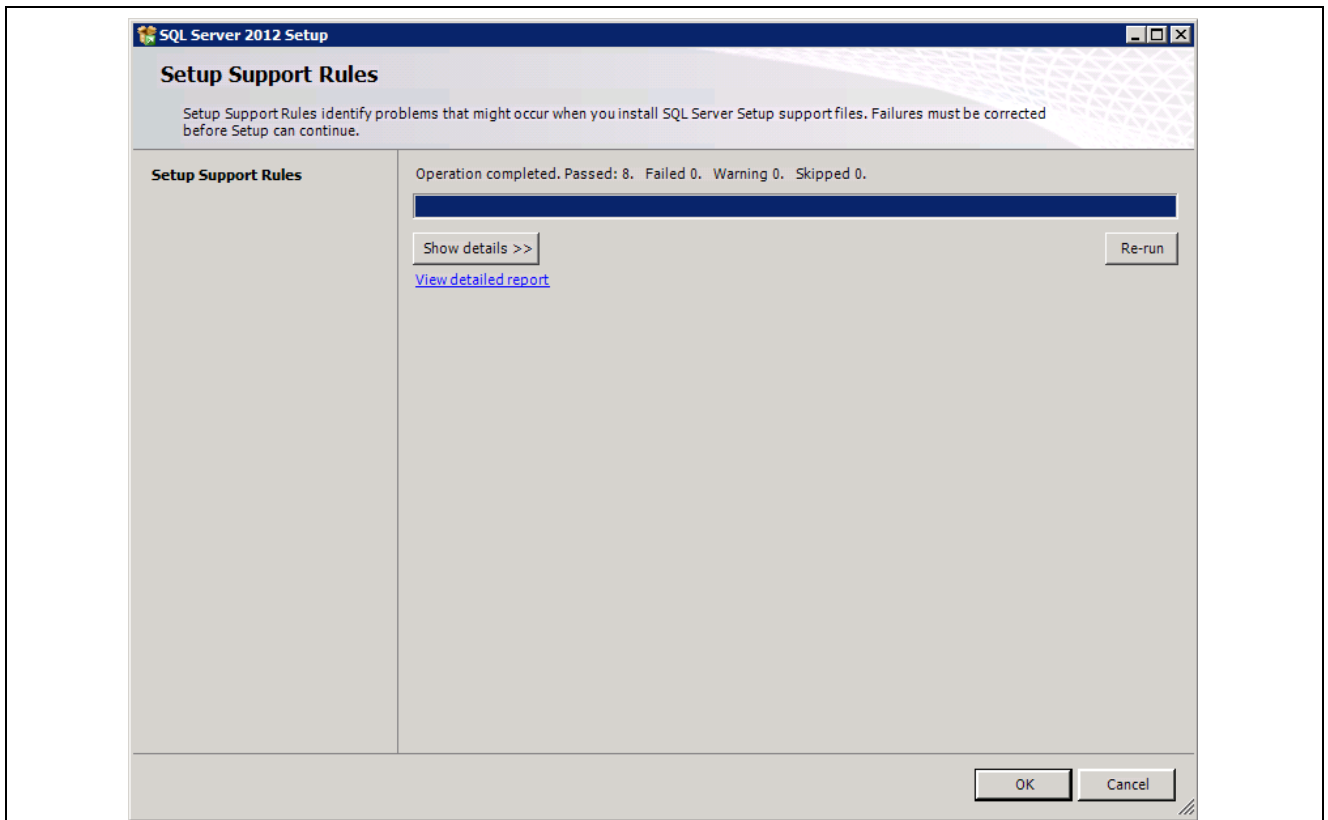
6. Select the link “New SQL Server stand-alone installation or add features to an existing installation” to proceed.
7. Click Run and choose Run Program.

A message box appears asking you to wait.



Please wait while Microsoft SQL Server 2012 Setup processes the current operation.

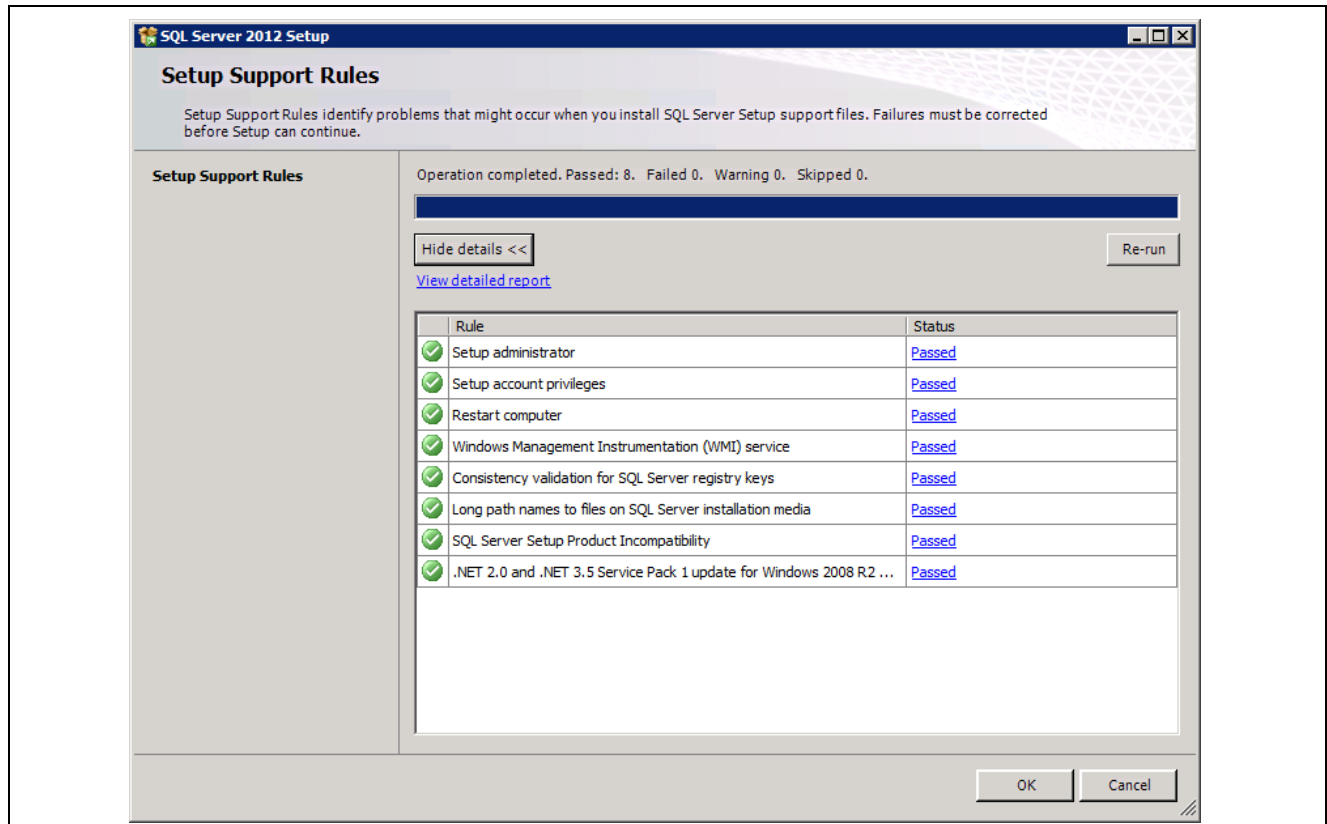
The Setup Support Rules window appears with a progress indicator.



SQL Server 2012 Setup Support Rules window

8. When the operation is complete, click Show details.

Verify that all the listed rules display *Passed* in the Status column, as shown in this example. If any one of them has not passed, select the link in the Status column to check the reason for the failure.



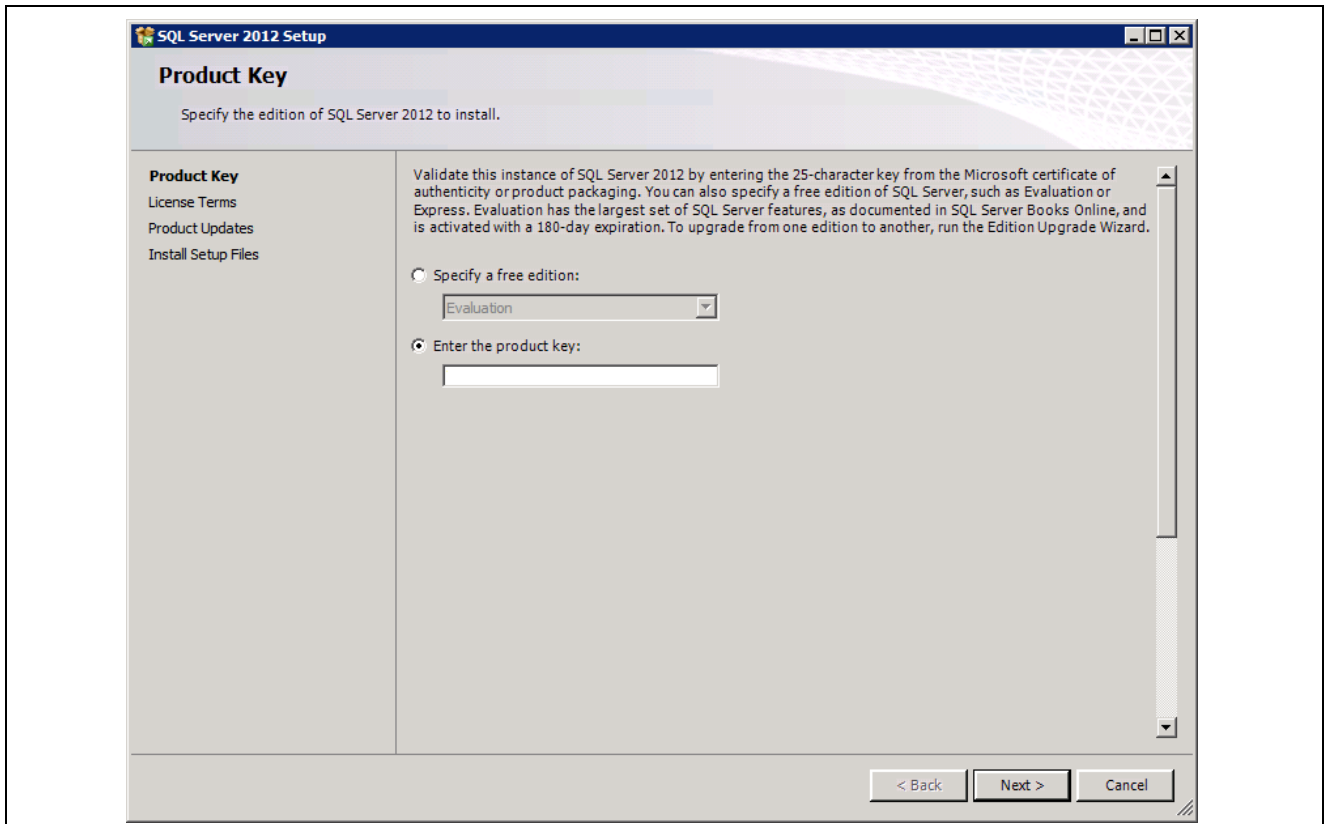
SQL Server 2012 Setup Support Rules windows with detailed report

9. Click OK to proceed.

A Product Key window appears. Enter the product key.

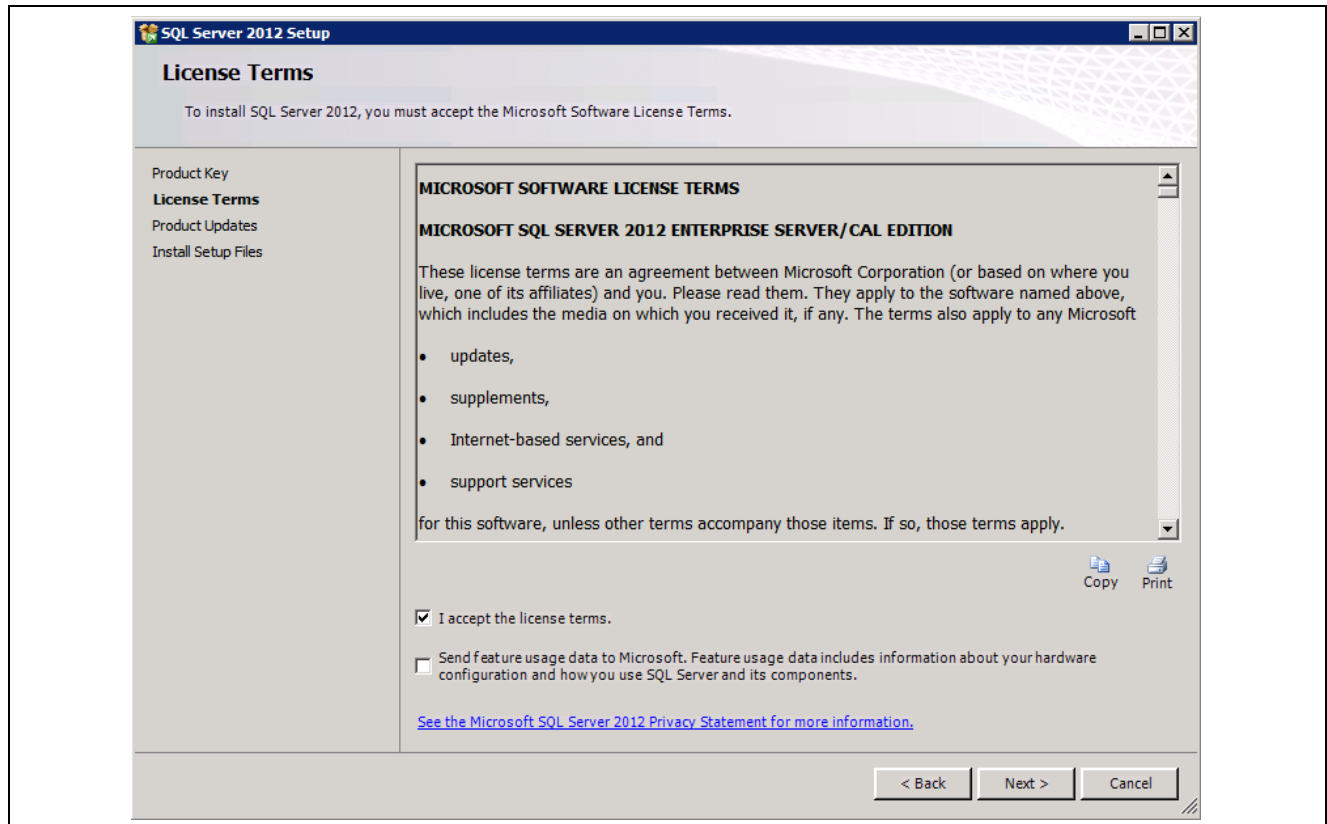
If it is already populated ignore this step and Click Next. In this example, the product key field is empty.





SQL Server 2012 Setup Product Key window

10. On the License Terms window, read the Microsoft Software license terms and conditions carefully and select the check box labeled I accept the license terms, as shown in this example.

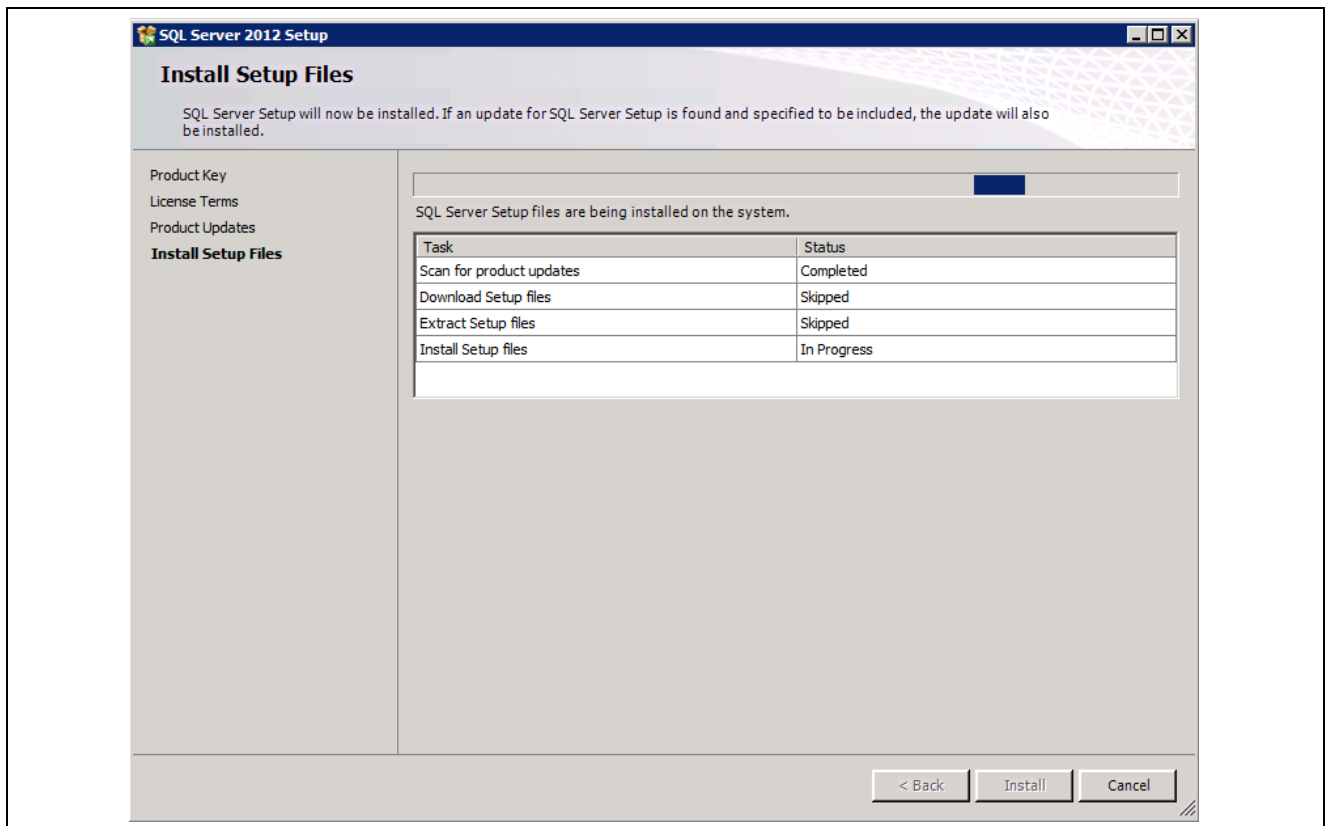


SQL Server 2012 License Terms window

#### 11. Click Next

The Install Setup Files window appears.

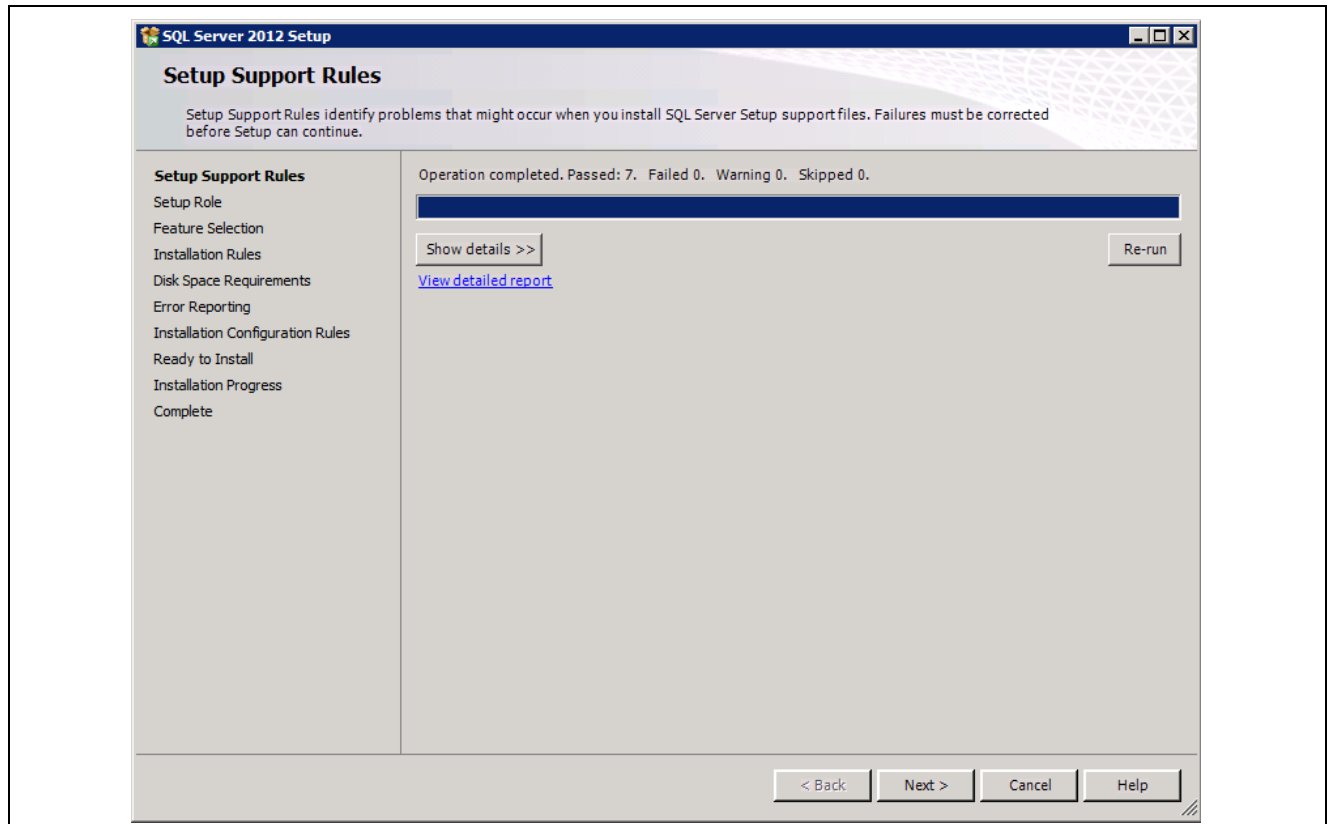
This example shows the Install Setup Files window during the process of installing the files.



SQL Server 2012 Setup Install Setup Files window

12. Click Next to begin installing the setup support files.

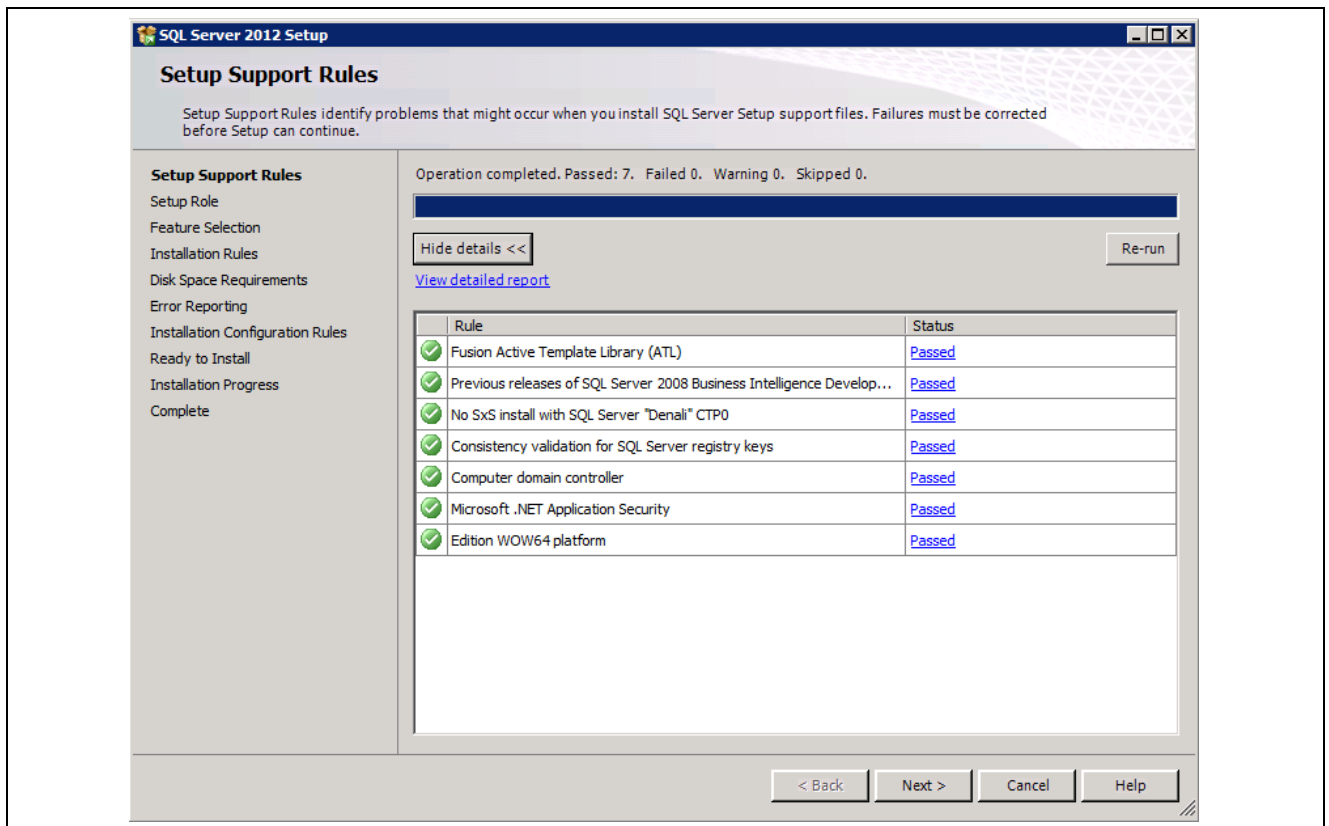
A progress bar appears at the bottom of the window. When the operation is complete, the Setup Support Rules window appears.



SQL Server 2012 Setup Support Rules window checking support files

13. Click Show details on the Setup Support Rules window.

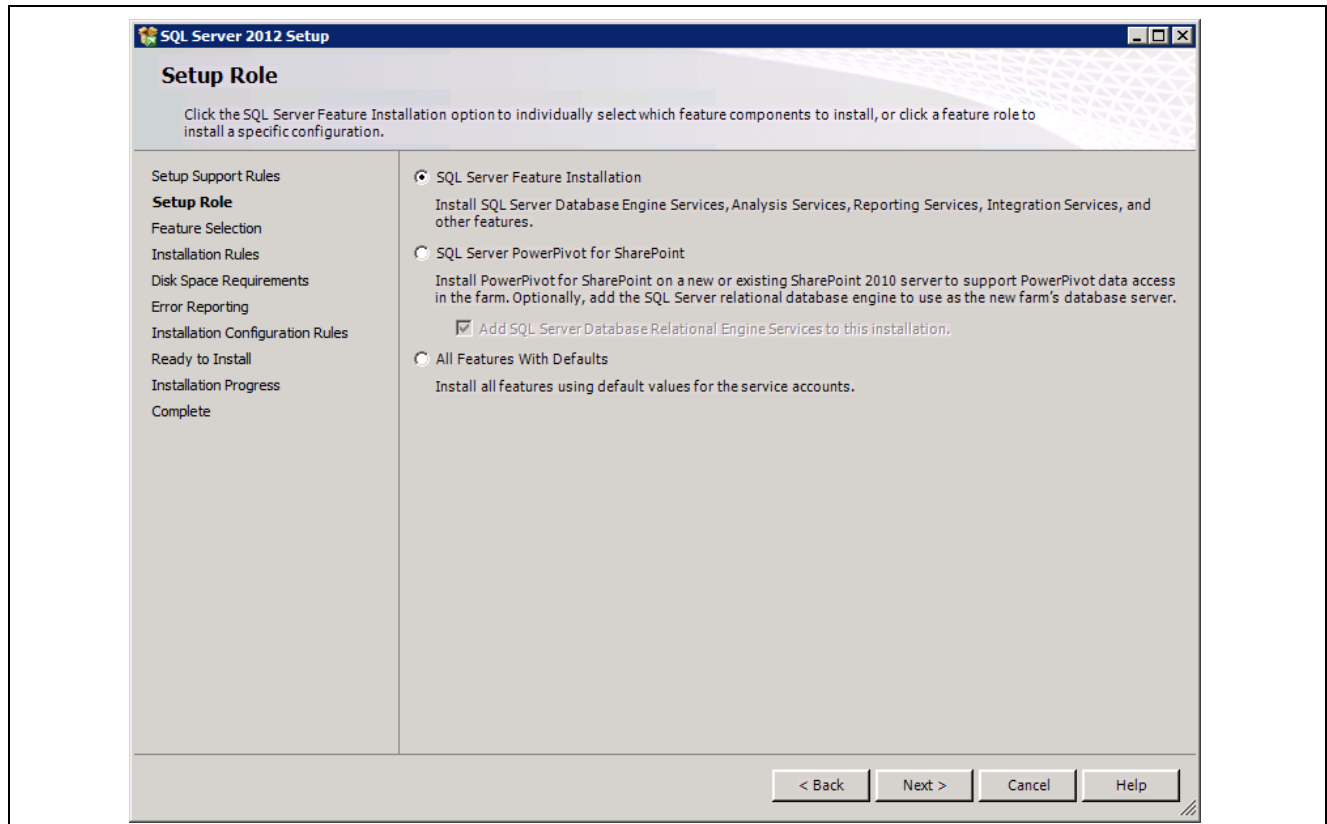
Verify that the status for all of the rules is *Passed*, as in this example. If any of the rules has not passed, select the link in the Status column to check the reason for the failure.



SQL Server 2012 Setup Support Rules window showing detailed report

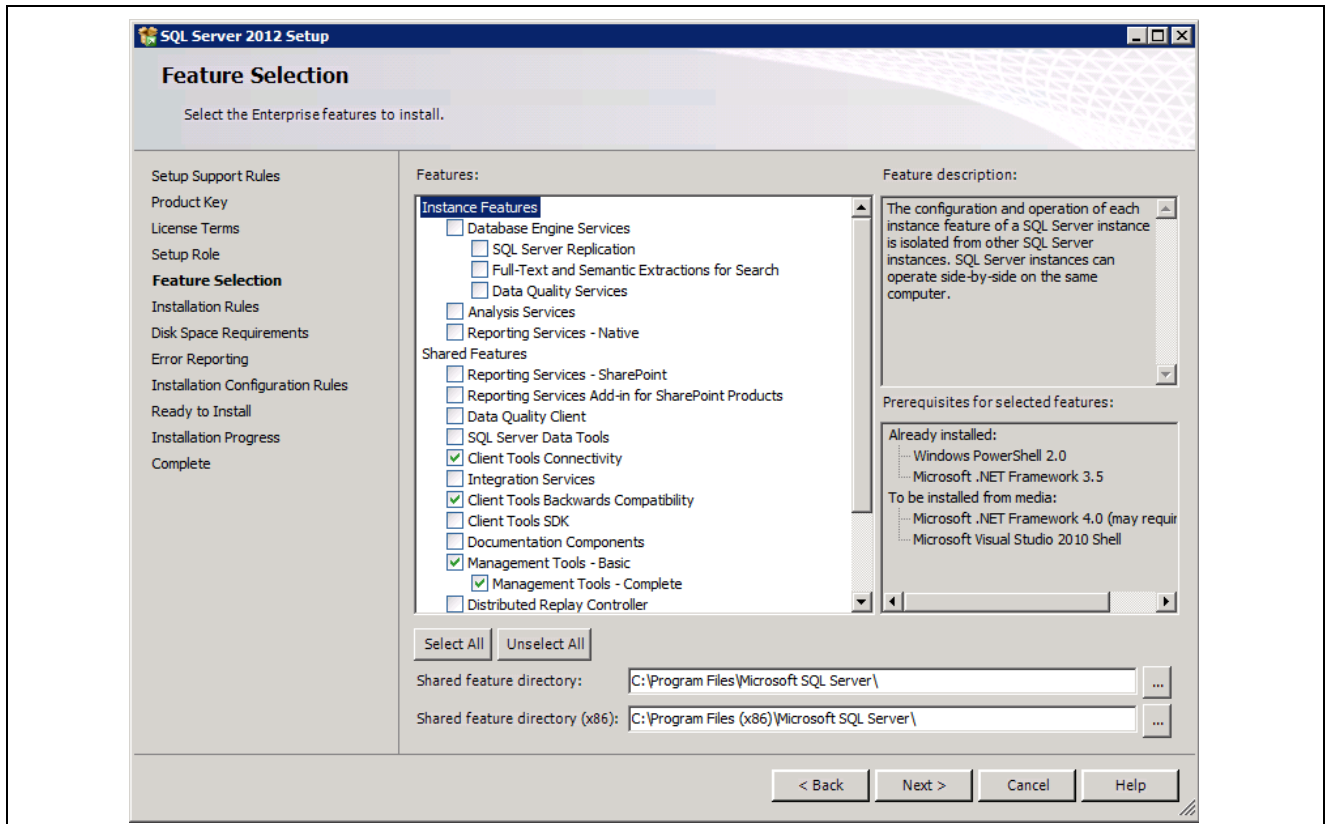
14. Click Next.

The Setup Role window appears.



SQL Server 2012 Setup Role window with SQL Server Feature Installation selected

15. Select the option SQL Server Feature Installation, and click Next.
16. A Feature Selection window appears which lists all the features of SQL Server 2012 that need to be installed.



SQL Server 2012 Feature Selection window with installation options selected

For a PeopleSoft installation, select the following features, as shown in the example:

- Client Tools Connectivity
- Client Tools Backward Connectivity
- Management Tools - Basic
- Management Tools - Complete

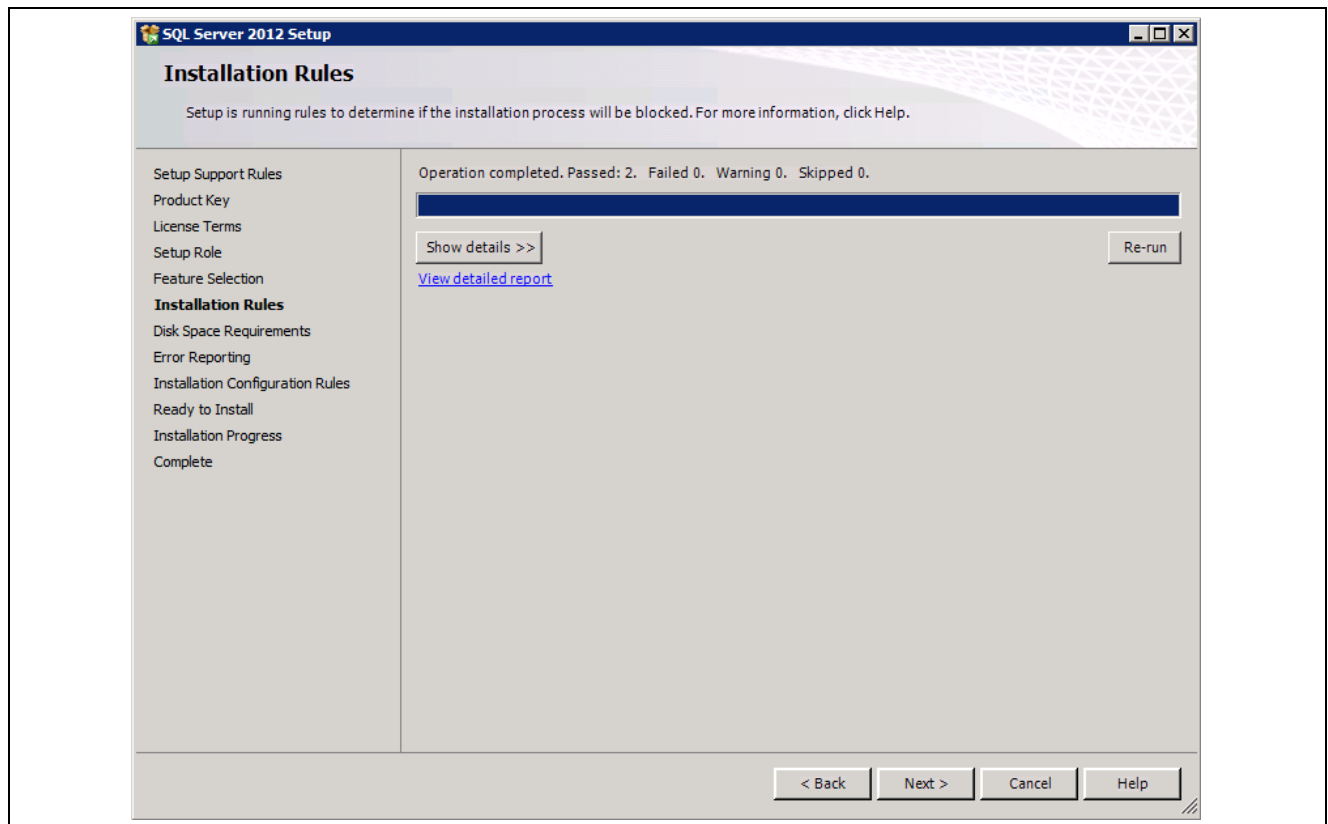
17. Clear the check boxes for the following features:

- Database Engine Services
- SQL Server Replication
- Full Text Search and Semantic Extraction for Search
- Data Quality Services
- Analysis Services
- Reporting Services - Native
- Shared Features
- Reporting Services - SharePoint
- Reporting Services Add-in for Share Point Products
- Data Quality Client
- SQL Server Data Tools
- Integration Services

- Client Tools SDK
- Documentation Components
- Distributed Replay Controller
- Distributed Replay Client
- SQL Client Connectivity SDK
- Master Data Services

18. Click Next.

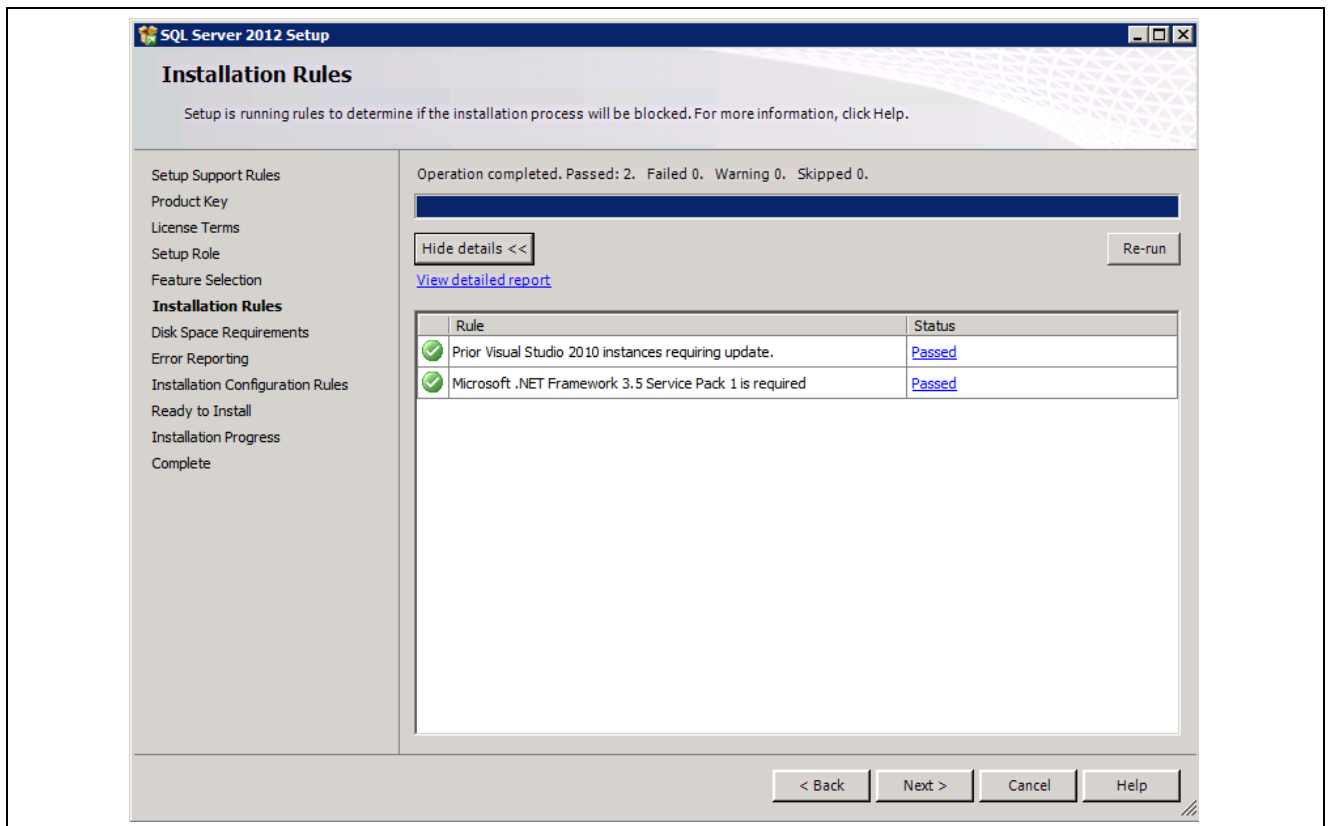
The Installation Rules window appears.



SQL Server 2012 Installation Rules window

19. Wait for the operation to be complete, and then verify that all of the rules passed successfully. If any of the rules does not have a status of *Passed*, click the link in the Status column to check the reason.

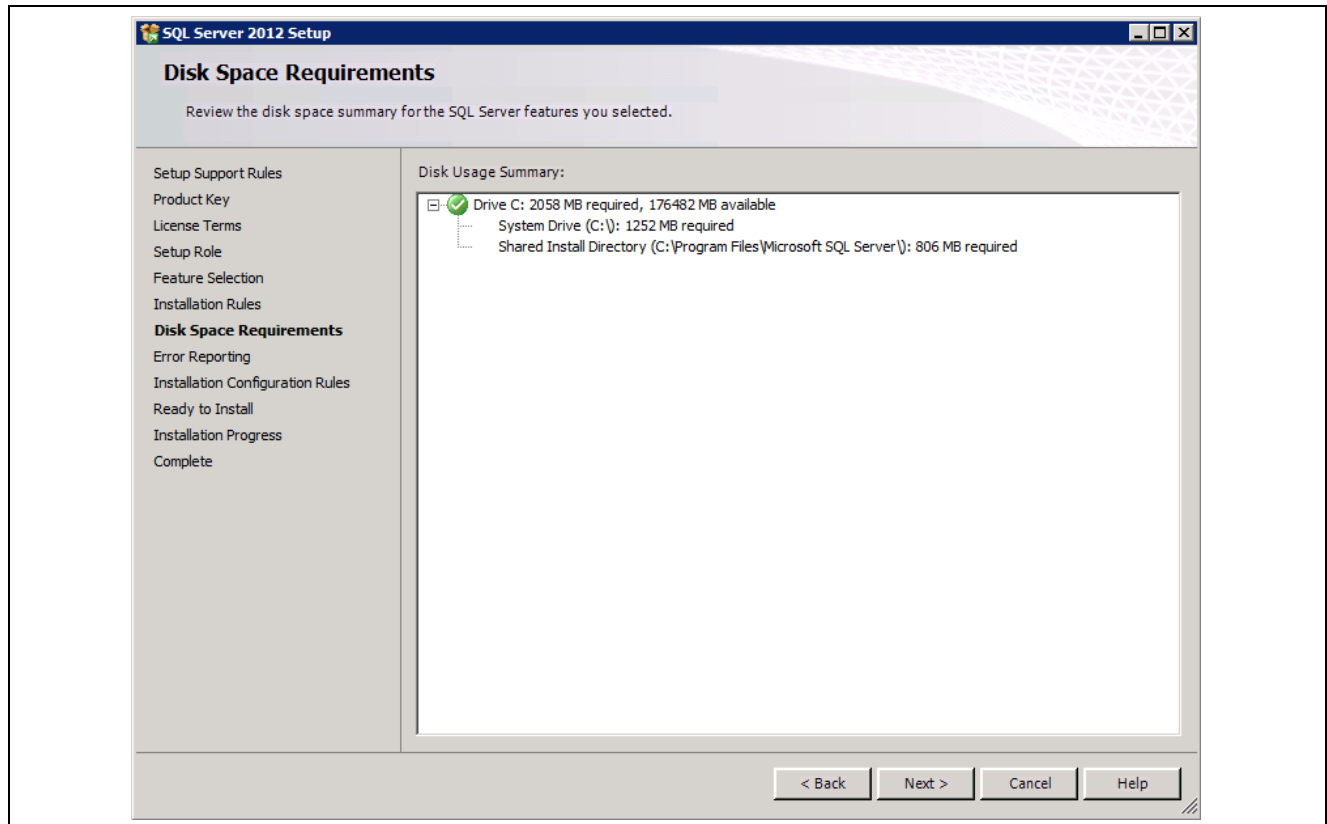




SQL Server 2012 Installation Rules showing report detail

20. Click Next.

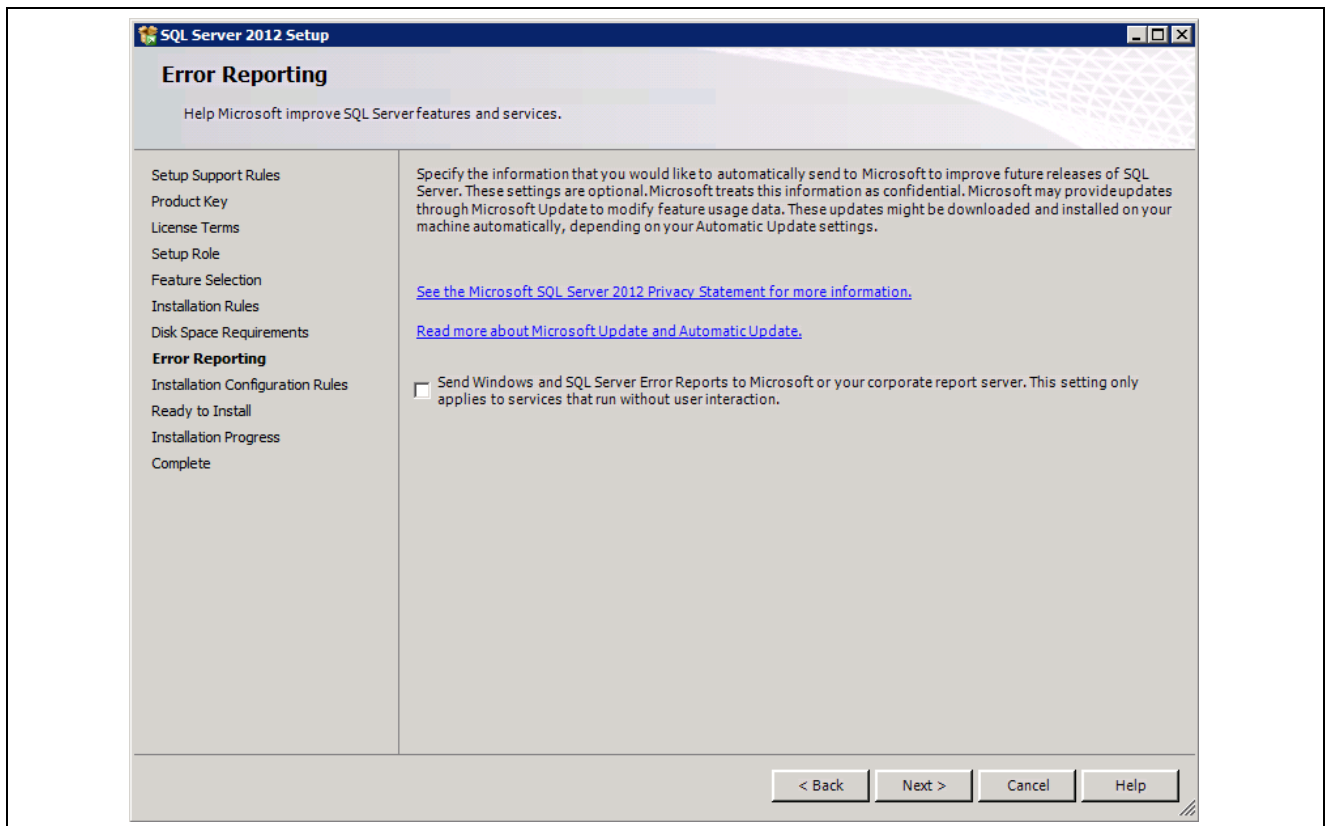
The Disk Space Requirements window appears showing the available and required disk space. Verify that you meet the disk space requirements.



SQL Server 2012 Disk Space Requirement window

21. Click Next to proceed.

The Error Reporting window appears. If desired, select the options to send error reports or anonymous feature usage data to Microsoft. In this example, the option is not selected.

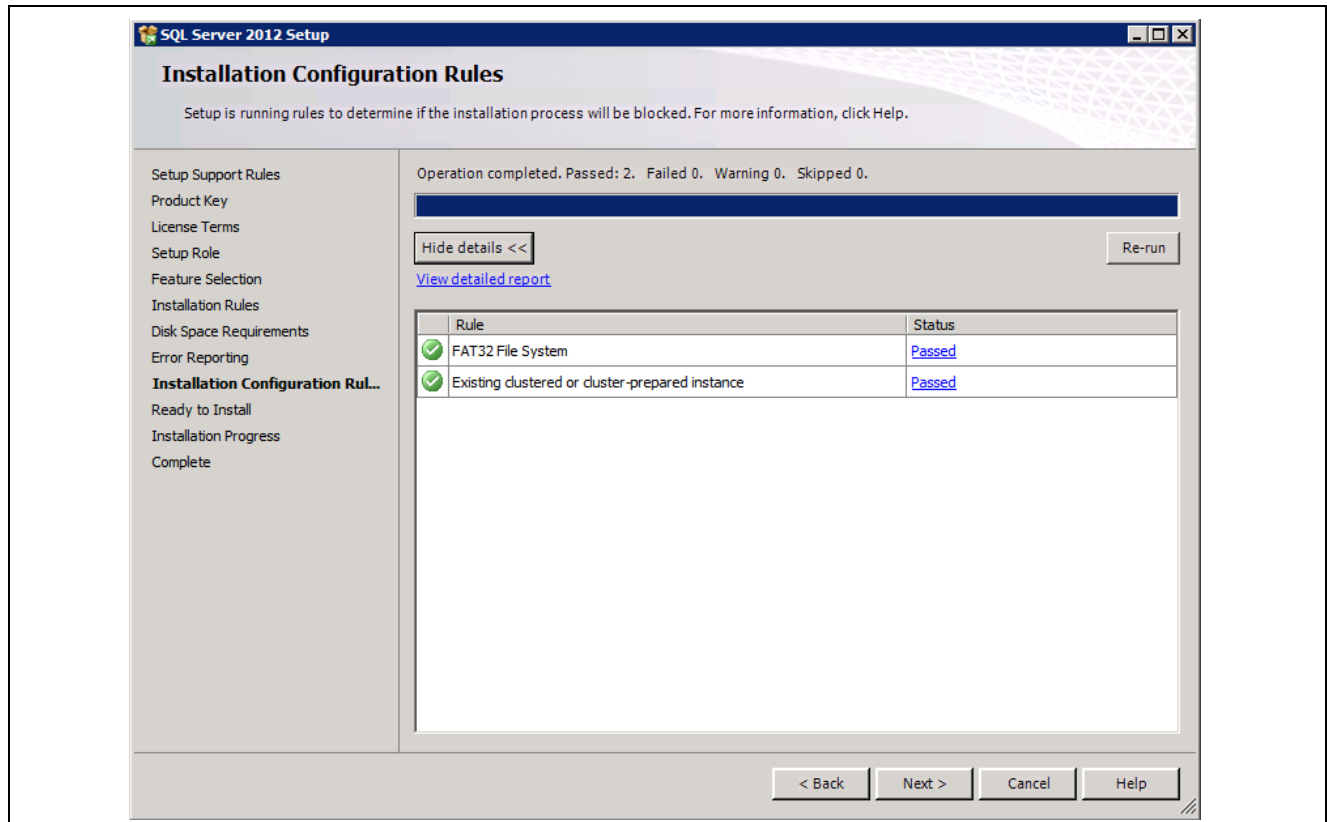


SQL Server 2012 Error Reporting window

22. Click Next.

The Installation Configuration Rules window appears.

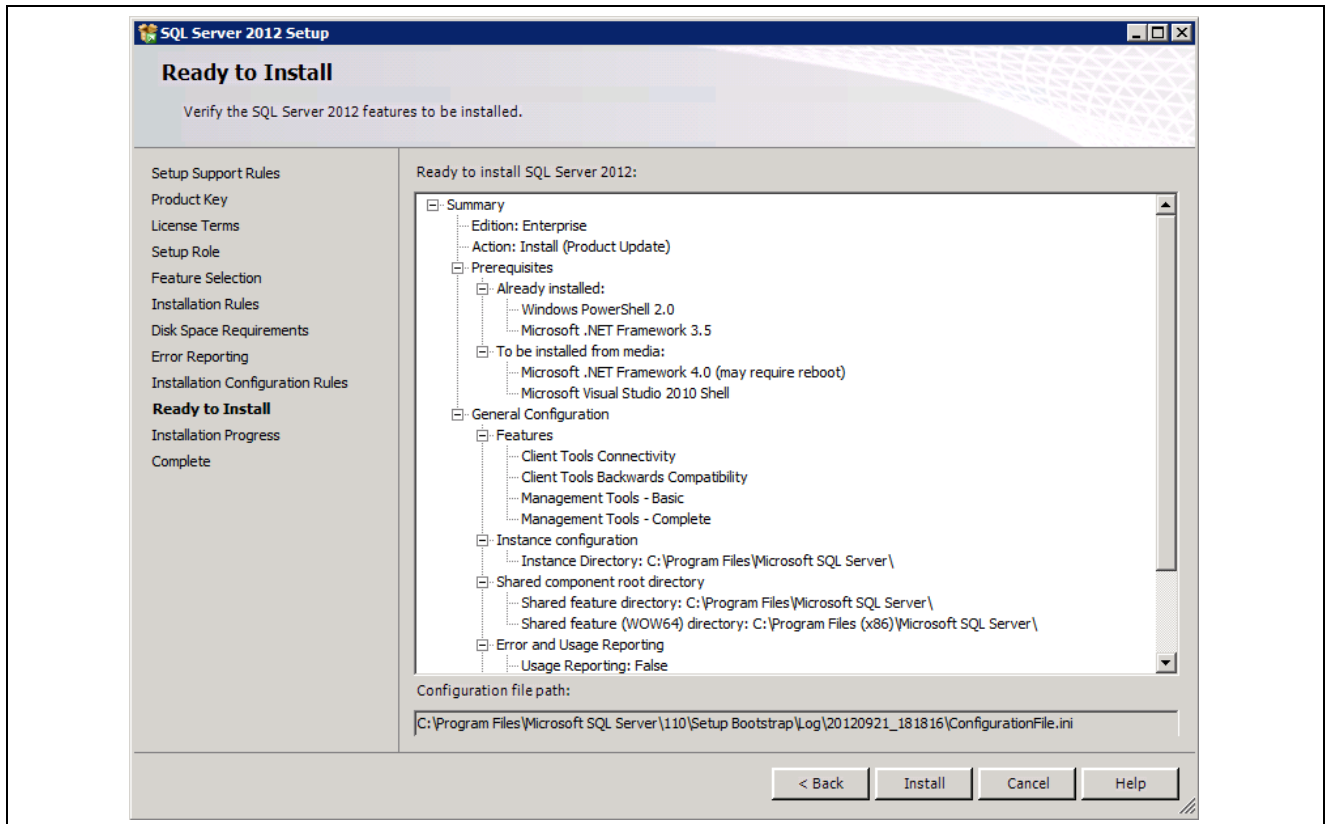
Wait for the operation to be complete. View the detailed report and verify that all of the rules passed successfully, as shown in this example. If any of the rules does not have a status of *Passed*, click the link in the Status column to check the reason.



SQL Server 2012 Installation Configuration Rules window showing report detail

23. Click Next.

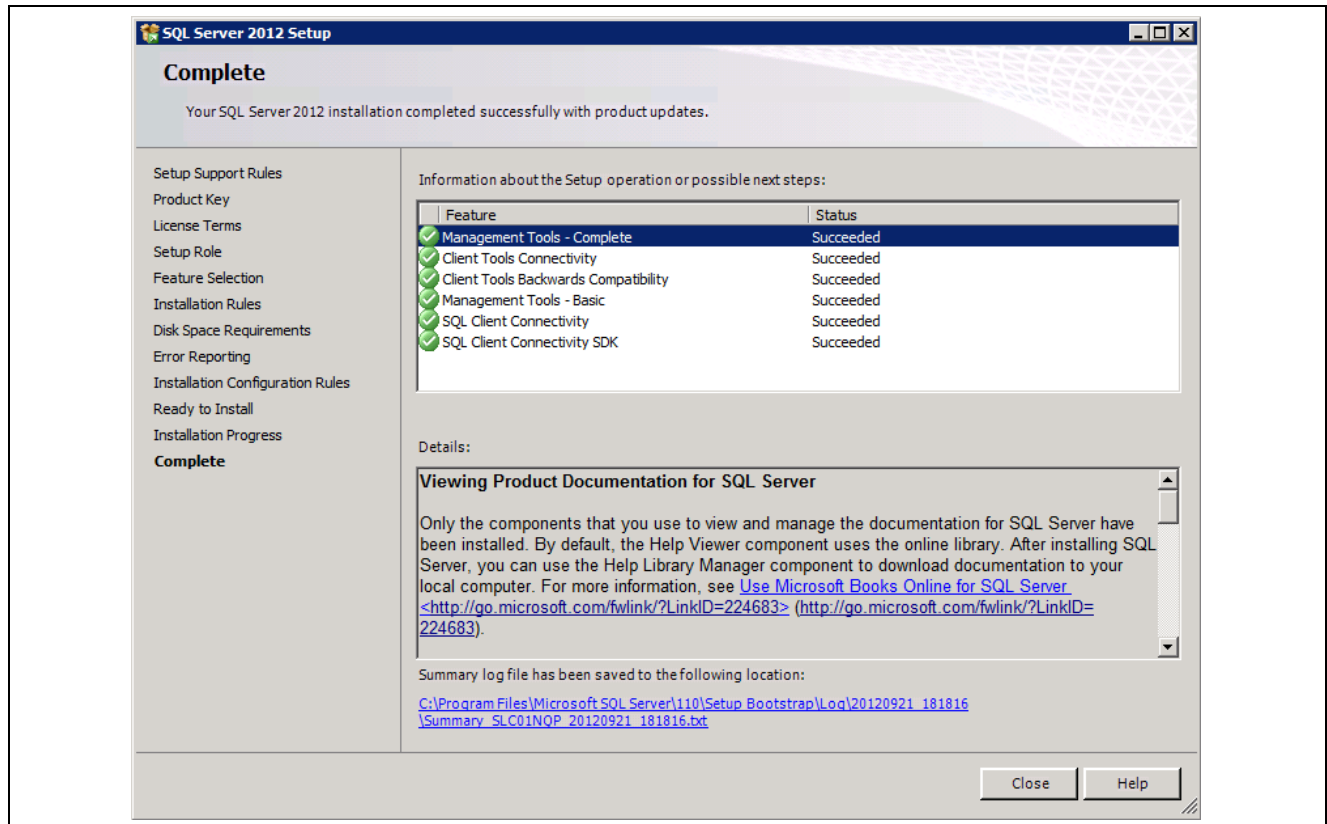
The Ready to Install window appears with a summary of the installation options that you have selected. Review the options, and then click Install to begin.



SQL Server 2012 Ready to Install window with installation options

After the installation is complete, a Complete screen appears which gives the location of the setup log files and other information. The log files are saved in this location, where *<identifier>* refers to a string including a timestamp:

C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\*<identifier>*\Summary*<identifier>*



SQL Server 2012 Setup Complete window

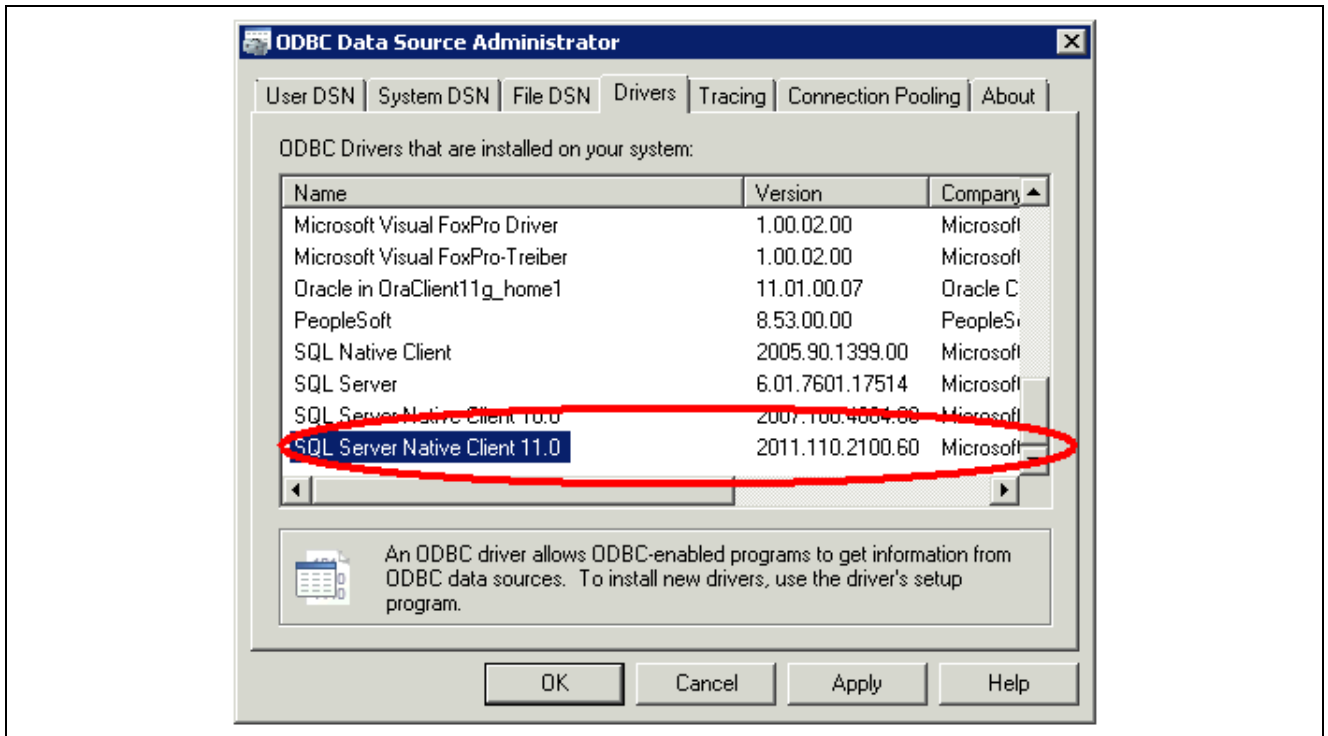
24. Click Close.

The SQL Server 2012 client setup is complete.

## Task 22-4: Configuring the Connection to Use SQL Server Native Client for Microsoft SQL Server 2012

When configuring ODBC to connect to your SQL Server 2012 databases make sure you use SQL Server Native Client (SNAC) 11.0 version 2011.110.2100.60. The only certified configuration uses this client to connect to SQL Server 2012.

Select Start, Programs, Administrative Tools, Data Sources (ODBC), and select the Drivers tab. Confirm that the version of SQL Server Native Client is 2011.110.2100.60, as in this example



Drivers page on the ODBC Data Source Administrator

## Task 22-5: Configuring an ODBC Data Source for 32-bit and 64-bit Connectivity Drivers

If you are running on a 64-bit machine, confirm that you are using the correct connectivity drivers. Beginning with the PeopleSoft PeopleTools 8.53 release, executables are both 64-bit and 32-bit. If you are running on a 64-bit operating system you need both the 32-bit and 64-bit connectivity drivers for PeopleSoft PeopleTools.

On the ODBC Data Source Administrator dialog box, on the System DSN page, you need to create an ODBC Data Source for both the 32-bit and 64-bit applications. The ODBC Data Administrator resides in the following two locations on a 64-bit Microsoft Windows machine:

- *The 32-bit version odbcad32.exe is found in C:\windows\syswow64:* This is for 32-bit PeopleSoft PeopleTools utilities running on a 64-bit operating system. This is the correct version for PeopleSoft PeopleTools utilities such as Application Designer and Data Mover.
- *The 64-bit version odbcad32.exe is found in C:\windows\system32:* This is for 64-bit utilities running on a 64-bit operating system. This is the correct version for 64-bit PeopleSoft PeopleTools servers such as the Application Server and Process Scheduler.

When you run odbcad32 on a 64-bit Microsoft Windows machine (Start, Programs, Control Panel, Administrative Tools, ODBC Data Administrator), the 64-bit version of odbcad32.exe (C:\windows\system32) is used by default.

In order to run both 32-bit and 64-bit PeopleSoft PeopleTools executables, be sure to include a System DSN entry for both the 32-bit version odbcad32.exe (C:\windows\syswow64) and the 64-bit version odbcad32 (C:\windows\system32).





## CHAPTER 23

# Upgrading to Microsoft SQL Server 2012

This chapter discusses:

- Understanding the Upgrade to Microsoft SQL Server 2012
- Preparing to Migrate
- Upgrading a PeopleSoft Database from Microsoft SQL Server 2008 to Microsoft SQL Server 2012
- Setting Up the Migrated Database

---

## Understanding the Upgrade to Microsoft SQL Server 2012

This chapter provides pointers for migrating a PeopleSoft application database from Microsoft SQL Server 2008 to Microsoft SQL Server 2012. The following instructions are not intended as a replacement to the Microsoft SQL Server Books Online documentation. Make sure you read and understand the migration instructions and process provided in the SQL Server Books Online (Upgrading to SQL Server 2012) before attempting any database migration from Microsoft SQL Server 2008 to Microsoft SQL Server 2012. Another tool that may help on your migration efforts is the “Upgrade Advisor Wizard” provided by Microsoft.

In addition, please read the chapter “Installing Microsoft SQL Server 2012” which provides information on installing Microsoft SQL Server 2012 for PeopleSoft applications. Also refer to SQL Server 2008 Books Online, support.microsoft.com, or Microsoft support services for further details about Microsoft SQL Server 2012.

---

**Note.** PeopleSoft PeopleTools 8.51 is the minimum PeopleTools release to support Microsoft SQL Server 2012. Use these instructions if you installed your PeopleSoft application on PeopleSoft PeopleTools 8.52 or later using Microsoft SQL Server 2008, and want to migrate the PeopleSoft database to Microsoft SQL Server 2012.

---

---

## Task 23-1: Preparing to Migrate

Before beginning the migration to Microsoft SQL Server 2012, you must:

- Back up your database files.  
Back up your existing Microsoft SQL Server database. After doing so, ensure that your backup was successful by restoring or loading the database into a “dummy” database. You may also want to back up the instance database files to have them ready to restore if necessary.
- Verify database integrity.  
You need to verify the integrity of your database and repair any problems before attempting a migration. Commands like DBCC CHECKDB are available to perform this task.

---

## Task 23-2: Upgrading a PeopleSoft Database from Microsoft SQL Server 2008 to Microsoft SQL Server 2012

If you are currently using Microsoft SQL Server 2008 and would like to upgrade your PeopleSoft database to Microsoft SQL Server 2012 you have several alternatives. Select the one which best suits your environment necessities. The following are only suggestions of possible alternatives to accomplish this task.

- Restore a backup.

To upgrade a Microsoft SQL Server 2008 database it is possible to back it up and restore it in Microsoft SQL Server 2012. This will automatically upgrade the database to Microsoft SQL Server 2012.

---

**Note.** The Microsoft SQL Server 2008 environment must be running at least with the service pack SP2.

---

- Detach and attach a database.

Another way to upgrade your PeopleSoft database and probably the fastest is detaching the database from Microsoft SQL Server 2008 and attaching it to Microsoft SQL Server 2012.

To accomplish this, run `sp_detach_db` in Microsoft SQL Server 2008, and then `sp_attach_db` in Microsoft SQL Server 2012. This procedure will automatically upgrade your database to Microsoft SQL Server 2012.

---

**Note.** The Microsoft SQL Server 2008 environment must be running at least with the service pack SP2.

---

- Copy Database Wizard.

You can also upgrade to Microsoft SQL Server 2012 using Microsoft SQL Server 2012 Copy Database Wizard. Consult the Microsoft Books Online for details on how to use the tool.

- Use PeopleSoft Data Mover.

Another alternative to migrate your database could be using PeopleTools. You can use Data Mover to migrate data of the entire database. This could be accomplished by exporting all the tables in the database to a Data Mover file. Keep in mind that this could be the slowest procedure of all those mentioned in this section; however, there are specific scenarios where using Data Mover could be the best choice

See "Creating a Database Manually."

See *PeopleTools: Data Management*.

---

## Task 23-3: Setting Up the Migrated Database

No matter which approach you decide to use, read and observe the follow recommendations in your migrated PeopleTools environment.

- Set up the appropriate compatibility level.

According to the Microsoft SQL Server Book Online: "When a database is upgraded to SQL Server 2012 from any earlier version of SQL Server, the database retains its existing compatibility level."

For this reason it is very important to remember to modify the compatibility level of your PeopleSoft database to 110 immediately after verifying the database integrity after upgrade. PeopleSoft PeopleTools will not recognize the compatibility level used in your database and it will assume the appropriate compatibility mode was selected. Utilizing a different compatibility mode may cause unexpected behavior in the product

- Verify database integrity.

We recommend that you verify the integrity of your database and repair any problems that may occur after migrating your database. Make sure to run DBCC CHECKDB at the upgraded database. Immediately after migrating the database the compatibility mode will be 110.

- Update database statistics.

The Microsoft SQL Server Books Online recommends updating your database statistics to help optimize query performance. Use the `sp_updatestats` stored procedure to update statistics in user-defined tables in Microsoft SQL Server 2012 databases. Make sure the compatibility mode is set to 110 before running this command.

For a more elaborate procedure you can use a script to run the following commands for all tables in your PeopleSoft database:

```
sp_createstats 'indexonly'
UPDATE STATISTICS <PS_TABLENAME> WITH FULLSCAN
```

For example, the script should be similar to this:

```
exec sp_createstats 'indexonly'
UPDATE STATISTICS PS_BU_TYPE_INV WITH FULLSCAN;
UPDATE STATISTICS PSAPMSGARCHPD WITH FULLSCAN;
```

- Update usage counters.

In earlier versions of SQL Server, the values for the table and index row counts and page counts can become incorrect. To correct any row or page counts that are not valid, Microsoft recommends that you run DBCC UPDATEUSAGE on all databases following the upgrade.

- Enable READ COMMITTED SNAPSHOT ISOLATION (RCSI).

By default all PeopleSoft release 9 or later applications running Microsoft SQL Server 2008 will have RCSI enabled. If RCSI is not enabled you must activate the RCSI level for the upgraded database since all the PeopleSoft 9 or later applications will use that isolation level by default.

- To verify if the database is using RCSI you may run the following SQL command, substituting the name of your database for *DATABASENAME*:

```
select is_read_committed_snapshot_on from sys.databases
where database_id = db_id ('DATABASENAME')
```

The output must be the number 1 (one), which means, RCSI is enabled.

- If RCSI is not enabled you must activate now the RCSI level for the upgraded database.
- To enable RCSI you can use the script labeled `ENABLE_RCSI.SQL` available under *PS\_HOME\scripts* for all PeopleSoft PeopleTools 8.48 and later. Edit and review the script before running it.

Make sure there is no database activity and no other connections to the database; otherwise RCSI will not be activated (see Microsoft SQL Server Book Online for further details).

The script executes the following command:

```
ALTER DATABASE <DBNAME> SET READ_COMMITTED_SNAPSHOT ON
```

- Check the login.

By default login accounts created on Microsoft SQL Server 2012 will inherit the password policies from their operating systems. If the password for the migrated logins does not comply with the operating system, you may experience problems signing on with those login names and passwords.

There are several ways to solve the problem. One simple solution is to disable the feature for each login or to change its password. However, remember that if you change the password for the logins used as CONNECTID or ACCESSID, you must update and encrypt through Data Mover the appropriate security tables (PSSTATUS, PSOPRDEFN, PSACCESSPRFL) with the new values to be able to log in again to your PeopleSoft database.

See *PeopleTools: Security Administration*.

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