
Enterprise PeopleTools 8.51 Installation for Sybase

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Enterprise PeopleTools 8.51
Installation for Sybase
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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.

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 PeopleTools installation guides are periodically posted in My Oracle Support on the same page as the initial posting.

Instructions for installing Oracle’s PeopleSoft Enterprise 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 Enterprise 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.
Cross-references	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. Cross-references under the heading <i>See Also</i> refer you to additional documentation that has more information regarding the subject.
" " (quotation marks)	Indicate chapter titles in cross-references and words that are used differently from their intended meaning.

Convention	Description
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:

- Autonomy's Verity®
- Oracle® BPEL Process Manager
- Oracle® Enterprise Manager
- 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 Enterprise Customer Relationship Management
- Oracle's PeopleSoft Enterprise Financial Management
- Oracle's PeopleSoft Enterprise Human Resources Management Systems
- Oracle's PeopleSoft Enterprise Learning Management
- Oracle's PeopleSoft Enterprise Pay/Bill Management
- Oracle's PeopleSoft Enterprise PeopleTools
- Oracle's PeopleSoft Enterprise Performance Management
- Oracle's PeopleSoft Enterprise Portal Solutions
- Oracle's PeopleSoft Enterprise Staffing Front Office
- Oracle's PeopleSoft Enterprise Supply Chain Management
- SAP® BusinessObjects Crystal Reports® 2008
- SAP® BusinessObjects™ Enterprise XI 3.1

Note. This documentation refers to both Oracle's PeopleSoft Enterprise Portal Solutions and to PeopleSoft PeopleTools portal or portal technologies. PeopleSoft Enterprise 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. The following documentation is available on My Oracle Support:

- Enterprise PeopleTools PeopleBook: Getting Started with PeopleTools for your release. This documentation provides a high-level introduction to PeopleTools technology and usage.
- PeopleSoft Enterprise Application Fundamentals PeopleBook for your PeopleSoft application and release. This documentation provides essential information about the setup, design, and implementation of your PeopleSoft application.

To access PeopleSoft PeopleBooks, go to My Oracle Support and search for the PeopleSoft PeopleBooks for your application and release.

To install additional component software products for use with PeopleSoft products, including those products that are packaged with your PeopleSoft products, 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 our documentation, PeopleSoft PeopleBooks, 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.

CHAPTER 1

Preparing for Installation

This chapter discusses:

- Understanding the PeopleSoft Installation
- Using Oracle E-Delivery to Obtain Installation Files
- Assembling Related Documentation
- Verifying Hardware and Software Requirements
- Considering Project Planning
- Planning Your Initial Configuration
- Planning Database Creation
- Planning Multilingual Strategy
- Reviewing Updates and Fixes Required at Installation
- Installing Supporting Applications
- Installing a Database Engine
- Installing Sybase Open Client on a Server
- Installing Sybase Open Client on a Workstation
- Establishing Sybase Open 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:

- 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 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 E-Delivery web site, and the Oracle Technology Network.

See Oracle E-Delivery, <http://edelivery.oracle.com>

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

- This installation guide may refer you to PeopleBooks for more information or instructions. If you install PeopleBooks to your web server, you can easily refer to the documentation during the installation process. You can also access Hosted PeopleBooks online.

See Also

"Installing PeopleBooks"

Hosted PeopleBooks, <http://www.oracle.com/pls/psft/homepage>

"Installing PeopleSoft Change Assistant"

Task 1-1: Using Oracle E-Delivery 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 E-Delivery web site. Use the documentation available on E-Delivery to be sure that you obtain all the zip files required for your environment.

See Oracle E-Delivery, <http://edelivery.oracle.com>

Task 1-2: Assembling Related Documentation

Before you begin your installation, you should have the following documentation ready for reference:

- Locate the application-specific installation documentation for any PeopleSoft applications that you plan to install.

Be sure to use both the PeopleTools Installation Guide for your database platform *and* the application-specific installation instructions. (For example, if you are installing CRM, you need to have the PeopleTools Installation Guide for the appropriate PeopleTools release and the CRM installation instructions.) The application installation instructions are available on My Oracle Support.

See My Oracle Support, (search for installation instructions for your application).

- Locate the database administration manuals provided by your RDBMS vendor, the network administration manuals provided by your network vendor, and the installation and configuration manuals for additional software components used with the PeopleSoft installation.
- For administration information regarding your database platform, please refer to the relevant appendix in the following PeopleBook.

See *Enterprise PeopleTools 8.51 PeopleBook: Data Management*.

Task 1-3: Verifying Hardware and Software Requirements

Before you begin your PeopleSoft installation you must verify that you have the correct hardware and software in place to support a successful installation.

Warning! If you are unable to meet any of the criteria outlined in the *Enterprise PeopleTools 8.51 Hardware and Software Requirements* documentation and the 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 following sources of information on currently supported hardware and software:

- The *Enterprise PeopleTools 8.51 Hardware and Software Requirements* book provides an overview of PeopleSoft architecture, as well as general information on the hardware and software required for a successful installation.

This book is a snapshot of supported configurations; it does not provide up-to-the-minute information on supported maintenance releases or required patches. Be sure to check the certification information on My Oracle Support (discussed next) to verify time-sensitive information, such as supported versions of additional software components used with PeopleSoft PeopleTools. To find the hardware and software requirements guide, sign on to My Oracle Support and search for hardware and software requirements.

- The certification information on My Oracle Support provides the most current support information on hardware platforms, RDBMS versions, client connectivity versions, required compiler versions, and additional component versions.

The certification information on My Oracle Support supplements and supersedes any information in the *Enterprise PeopleTools 8.51 Hardware and Software Requirements* book. To find the Certifications for PeopleSoft People Tools, sign on to My Oracle Support, and select the Certification tab. Then select PeopleSoft Enterprise Certifications and follow the instructions.

- Before you begin your installation, read the version of the document "Operating System, RDBMS & Additional Component Patches Required for Installation" that is appropriate for your database platform and other configuration.

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

- My Oracle Support also documents any Emergency Bug Fix (EBF) or Software Rollup (SWR) that you need to obtain from Sybase.

See "PeopleTools Certification FAQs - Database Platforms - Sybase" My Oracle Support, (search for the article name).

Task 1-4: Considering Project Planning

Identify the maintenance schedule for upcoming PeopleTools and 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 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.

Task 1-5: Planning Your Initial Configuration

This section discusses:

- Understanding Workstations
- Defining the File Server
- Defining the Database Server
- Defining the Application Server
- Defining the Batch Server
- Defining Installation Locations
- Defining the Web Server
- Defining Server Domain Configurations
- 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, Solaris, HP-UX, or Linux); however, for simplicity the word UNIX is often used to refer to all UNIX-like operating systems, including Linux.

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

See Installing Supporting Applications.

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.

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 following PeopleBook.

See *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*, "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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleTools Portal Technology*.

Task 1-5-1: 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. In addition, the file server is a source repository for COBOL and SQR (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).

Important! Remember, a COBOL compiler is not needed for PeopleTools unless your application contains COBOL programs. If your application requires COBOL and you're running on 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 conventionally referred to 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.

Task 1-5-2: 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 1-5-3: 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 Sybase ASE you will normally run the application server on a UNIX-based server, but can also use a Windows-based server if you want. Keep in mind that a physical three-tier configuration (with the application server on a different machine than the database server) is always preferred when using an application server.

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

Enterprise PeopleTools 8.51 PeopleBook: PeopleTools Portal Technology

Task 1-5-4: 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.

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

For Windows-specific batch processes—such as Crystal Reports, nVision reports, Microsoft Word, or Cube Manager—you need to set up a Windows batch environment on a Windows application server or on a dedicated Windows workstation.

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

Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Process Scheduler

Task 1-5-5: Defining Installation Locations

As you proceed through the PeopleSoft PeopleTools installation, you are asked to specify several installation locations. This documentation uses the following terms to describe the installation locations used during the PeopleSoft PeopleTools installation:

- *PS_HOME*: Holds the PeopleSoft PeopleTools and PeopleSoft application files.

Note. For information on setting up *PS_HOME* as a read-only environment, see *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*, “Securing *PS_HOME* and *PS_CFG_HOME*.”

See "Using the PeopleSoft Installer."

- *PS_CFG_HOME*: Holds the configuration files for the application server, batch server and search server domains.

See Defining Server Domain Configurations.

- *PIA_HOME*: Holds the webserv directory, and the files for the PeopleSoft Pure Internet Architecture installation. With one exception, 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 application software, *PS_HOME*.

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

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.

Task 1-5-6: 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 *Enterprise PeopleTools 8.51 Hardware and Software Requirements* guide or 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 servers 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 1-5-7: Defining Server Domain Configurations

When you install PeopleSoft PeopleTools 8.51 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 8.51, by default *PS_CFG_HOME* would be C:\Documents and Settings\asmith\psft\pt\8.51. 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, consult the following reference for a more complete explanation of this feature.

See *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*, "Working with Server Domain Configuration."

Task 1-5-8: Using Oracle Configuration Manager

When you install PeopleSoft PeopleTools 8.51, 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 Global Customer 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/technology/documentation/ocm.html>

Enterprise PeopleTools 8.51 PeopleBook: Change Assistant, "Configuring and Running Environment Management Components," Integrating with Oracle Configuration Manager

Task 1-5-9: 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

Verifying Hardware and Software Requirements

Enterprise PeopleTools 8.51 Hardware and Software Requirements

My Oracle Support, Certifications

Task 1-6: Planning Database Creation

This section discusses:

- Understanding Database Creation
- Determining Databases and Database Names

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. To properly install a Demo database, you must select both the System Database and the Demo Database options during the installation of PeopleSoft applications.

Task 1-6-1: 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.

- The user chosen to create the PeopleSoft database is frequently the database owner and therefore usually serves 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.

Task 1-7: Planning Multilingual Strategy

This section discusses:

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

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 below, 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.

See *Selecting a Database Character Set*.

Language Code	Language	Database Character Set
CFR	Canadian French	Unicode or non-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
GER	German	Unicode or non-Unicode
ITA	Italian	Unicode or non-Unicode
NOR	Norwegian	Unicode or non-Unicode
POR	Portuguese	Unicode or non-Unicode
SVE	Swedish	Unicode or non-Unicode
UKE	United Kingdom English	Unicode or non-Unicode

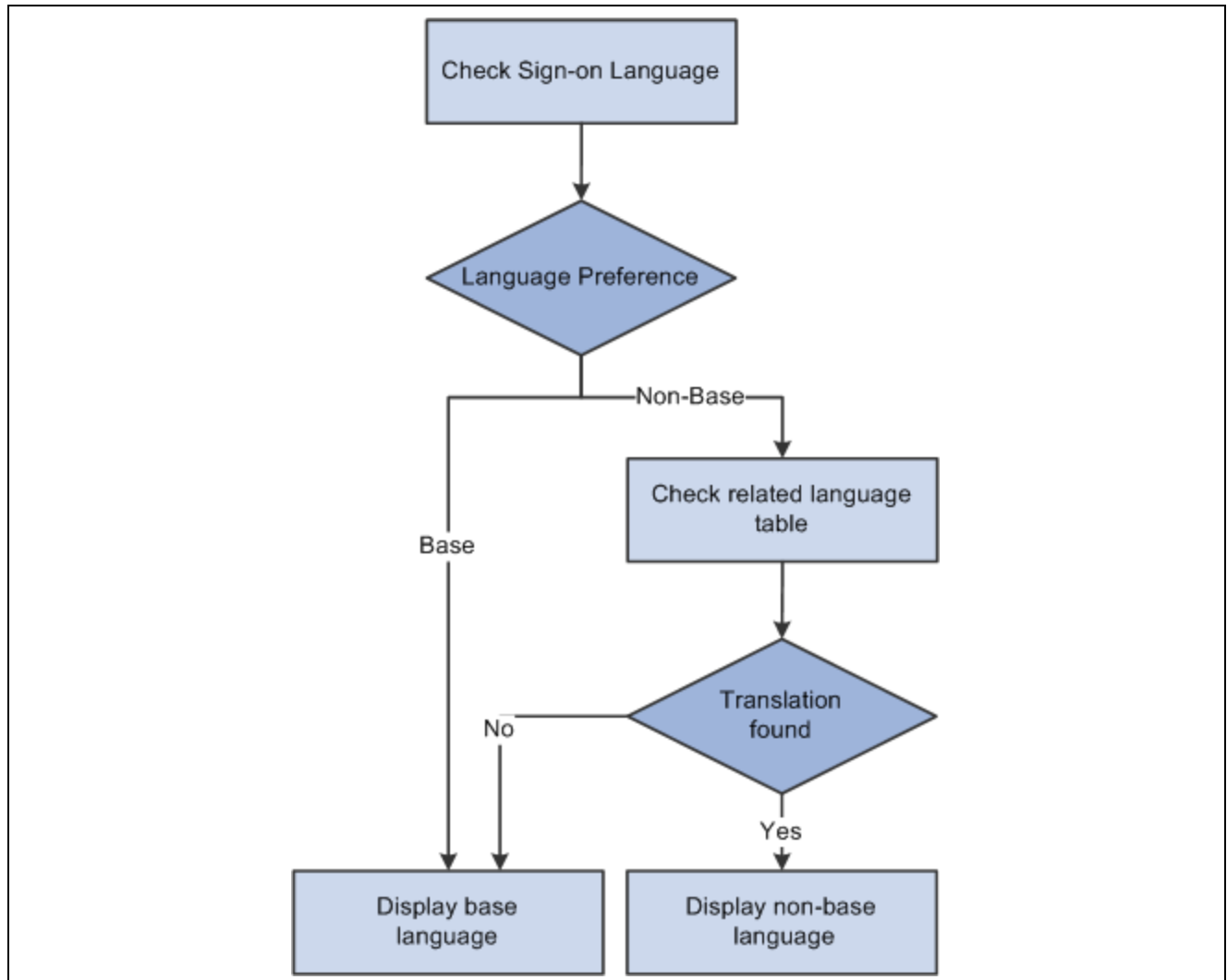
See Also

Enterprise PeopleTools 8.51 PeopleBook: Global Technology

Task 1-7-1: 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 1-7-2: 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 1-7-3: Selecting a Database Character Set

This section discusses:

- Understanding Character Sets
- Using Non-Unicode Databases

Understanding Character Sets

Depending on the languages that you have selected for installation, you need to determine which character set can represent these languages. There are two main steps in selecting a character set. First, if your database supports Unicode, you should decide whether to use it. Second, if you choose not to or cannot yet use Unicode, you should decide which legacy character set is appropriate for the language combination that you've selected.

Depending on the languages that you have selected for installation, you need to determine which character set can represent these languages. You should decide which legacy character set is appropriate for the language combination that you've selected.

Note. The PeopleSoft software does not support Unicode on Sybase.

The following table gives the supported character set and the supported languages. On Sybase, the PeopleSoft software supports the following character set:

Character Set	Languages Supported
iso_1	Western European languages (Canadian French, Danish, Dutch, English, Spanish, Finnish, French, German, Italian, Bahasa Malay, Norwegian, Portuguese, Swedish)

See *Enterprise PeopleTools 8.51 PeopleBook: Global Technology*, "Selecting and Configuring Character Sets and Language Input and Output."

Using Non-Unicode Databases

You can safely use a non-Unicode character set only if your selected languages share the same character set. In this case, you need to decide in which character set your database should be created.

PeopleSoft software supports only non-Unicode databases for Sybase.

See the section Understanding Multilingual Issues to determine whether a language is supported on Unicode or non-Unicode databases. See the section Understanding Character Sets for supported character sets.

Task 1-8: Reviewing Updates and Fixes Required at Installation

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

Make note of all the updates and fixes, 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.

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

To review updates and fixes 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. Select PeopleSoft Products.
5. Select Required for Install or Upgrade.
6. Select PeopleTools as the product line, PeopleTools as the product, and select the appropriate PeopleTools release.

Make sure that the Required for Install option is selected and click the search button (the arrow).

7. Note any PeopleTools updates and fixes that apply to your installation.
8. Return to the Updates and Fixes search page and search for any application-related incidents by selecting the appropriate product line, product, and release.

Make sure the Required for Install option is selected and click the search button (the arrow).

9. Note any application-specific updates and fixes 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," My Oracle Support (search for the article title)

Task 1-9: 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.

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

Note. Remember, COBOL is not needed for PeopleSoft PeopleTools or for applications that do not contain COBOL programs. See My Oracle Support to verify whether your application requires COBOL.

See Planning Your Initial Configuration.

- For UNIX servers, install the appropriate version of Micro Focus ServerExpress.
- For Microsoft Windows servers, install the appropriate version of Micro Focus NetExpress.
- If all your servers are on Windows, we recommend 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.

- If your application and batch servers are on UNIX or Linux, we recommend that you designate a single server as the compile server, so that you can compile COBOL from this central location and then distribute it to the rest of your application and batch servers.

If you use this approach, you only need to copy patches or customizations over to the compile server. Note that this server must have the same operating system as any destination application or batch servers. For example, if your compile server is an HP-UX machine, you can only copy COBOL compiled there to other HP-UX application and batch servers. Oracle recommends this approach. It will help you keep your COBOL source code in sync and only requires that you install COBOL in a single location.

- If you prefer, you can copy patches or customizations to all of your UNIX application and batch servers and compile the COBOL on each machine.

However, Oracle does not recommend this approach. It requires that you install multiple versions of the COBOL compiler, and makes it more likely that your COBOL source code will get out of sync.

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

If your application requires COBOL and you are running UNIX or Linux, you need to install the COBOL runtime license on every application and batch server. This is not necessary for Windows, but it is *necessary* to install the COBOL runtime license on each application and batch server where COBOL programs will be executed.

- For more information on COBOL consult the COBOL FAQ available on My Oracle Support.

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

- You must install SQR on any non-Windows batch server.
- On Windows batch servers and Windows 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 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.

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

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

See Also

Enterprise PeopleTools 8.51 Hardware and Software Requirements

Task 1-10: Installing a Database Engine

If you have not already done so, install Sybase Adaptive Server Enterprise (ASE) on your UNIX server. You must install your server using 4 KB pages as minimum.

Note. Because the PeopleSoft non-Unicode databases are only supported on iso_1 locale, make sure your server is using that locale before installing PeopleSoft applications. This is particularly important for ASE running on HP-UX because the standard locale is Roman8.

For a list of supported ASE versions, consult the PeopleSoft certification information on My Oracle Support.

The dataserver name defined in the \$SYBASE/interfaces file must be in UPPERCASE, and it should match the dataserver name specified in the SQL.INI file on the client. This becomes an important factor when you want to use the PeopleSoft Process Scheduler to execute processes from the server. For customer sites that have a lowercase standard, Sybase will allow both a lower- and uppercase entry in the interfaces file.

Here is a sample \$SYBASE/interfaces file:

```
SERVER_1
      master tcp ether server_1 7000
      query  tcp ether server_1 7000
```

Note. For the PeopleSoft installation, Oracle only supports binary sort order, the Sybase default. The Sybase system stored procedure *sp_helpsort* will return information on the installed sort order of the Sybase dataserver.

Task 1-11: Installing Sybase Open Client on a Server

Where you install Sybase Open Client depends on how you plan to set up your application server and batch server. Regardless, you need to install Sybase Open Client on the database server. If you plan to set up your application server and batch server on the same UNIX host as the database server (logical three-tier), no further installation is needed because Sybase Open Client is already installed on the database server. If you plan to set up your application server and batch server on different UNIX hosts than the database server (physical three-tier), you need to install Sybase Open Client on each one of those UNIX hosts.

Note. If you have someone outside your company install Sybase Open Client, make sure that they install the workstation end as well, and that they demonstrate connectivity between the workstations and the database server. Refer to the following two tasks.

See Also

Installing Sybase Open Client on a Workstation

Establishing Sybase Open Client Connectivity

Enterprise PeopleTools 8.51 Hardware and Software Requirements

Task 1-12: Installing Sybase Open Client on a Workstation

You need to install Sybase Open Client on each workstation that will connect to the PeopleSoft database server in a two-tier connection.

For PeopleSoft PeopleTools 8.51, Sybase 15.0 can be used to connect to ASE.

Workstations making a three-tier connection normally do not need connectivity software. However, bear in mind that batch processes (such as COBOL and SQR) that are executed on the client workstation require that database connectivity software be installed on the client workstation. This is necessary because these batch processes must maintain their own SQL connection to the database server.

For supported versions and any required Sybase EBFs (Emergency Bug Fixes), search My Oracle Support.

See My Oracle Support, Certifications.

See "Operating System, RDBMS, and Additional Component Patches Required for Installation," My Oracle Support, (search for article name and release).

Sybase Open Client performs the following functions:

- Requests a connection to a Sybase dataserver.
- Looks in the SQL.INI file for an entry whose name matches the name of the dataserver. If a dataserver entry is not found, the connection fails.
- Looks in the LIBTCL.CFG file for an entry that matches the Net-Library driver name associated with the dataserver entry in the SQL.INI file.
- Loads the specified Net-Library driver.
- Uses the network connection information associated with the dataserver entry in the SQL.INI file to connect to the server.

See Sybase Open Client/Server reference guides.

Here is a sample SQL.INI file:

```
[SERVER_1]
master=TCP, server_1, 7000
query=TCP, server_1, 7000
```

Note. The dataserver name in the SQL.INI should match the dataserver name in the \$SYBASE/interfaces file found on the UNIX server. If the files do not have the same Sybase dataserver names, Process Scheduler will not start on the UNIX server. The PeopleSoft system requires the Sybase dataserver name to be in UPPERCASE. Make sure the interfaces file under \$SYBASE on the UNIX server contains an UPPERCASE entry for the dataserver name.

Task 1-13: Establishing Sybase Open Client Connectivity

After installing Sybase Open Client on Microsoft Windows, use this procedure to configure client connectivity. This applies to Sybase Open Client 15.0 and above.

You will need the Sybase server name and server address. If you do not know the server name and address, you can ask your database administrator. Alternatively, log in to the computer with the server and check the file \$SYBASE/interfaces. This is an example of a \$SYBASE/interfaces file from an HP computer:

...

SERVER_1

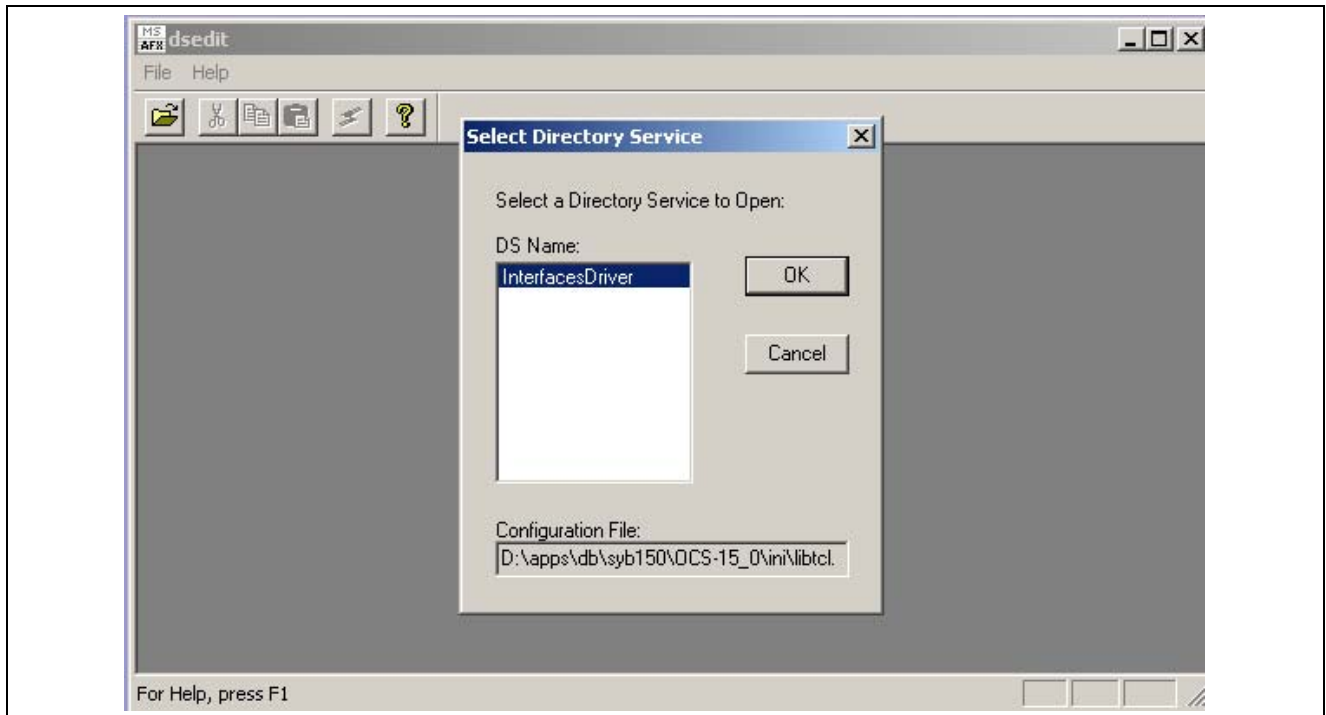
```
master tcp ether server_1.mycompany.com 7000
```

```
query tcp ether server_1.mycompany.com 7000
```

In this example, the server name is SERVER_1, and the server address is server_1.mycompany.com 7000.

1. Select Start, Programs, Sybase, Connectivity, Open Client Directory Service Editor.

The Select Directory Service dialog box appears. Click OK to proceed.



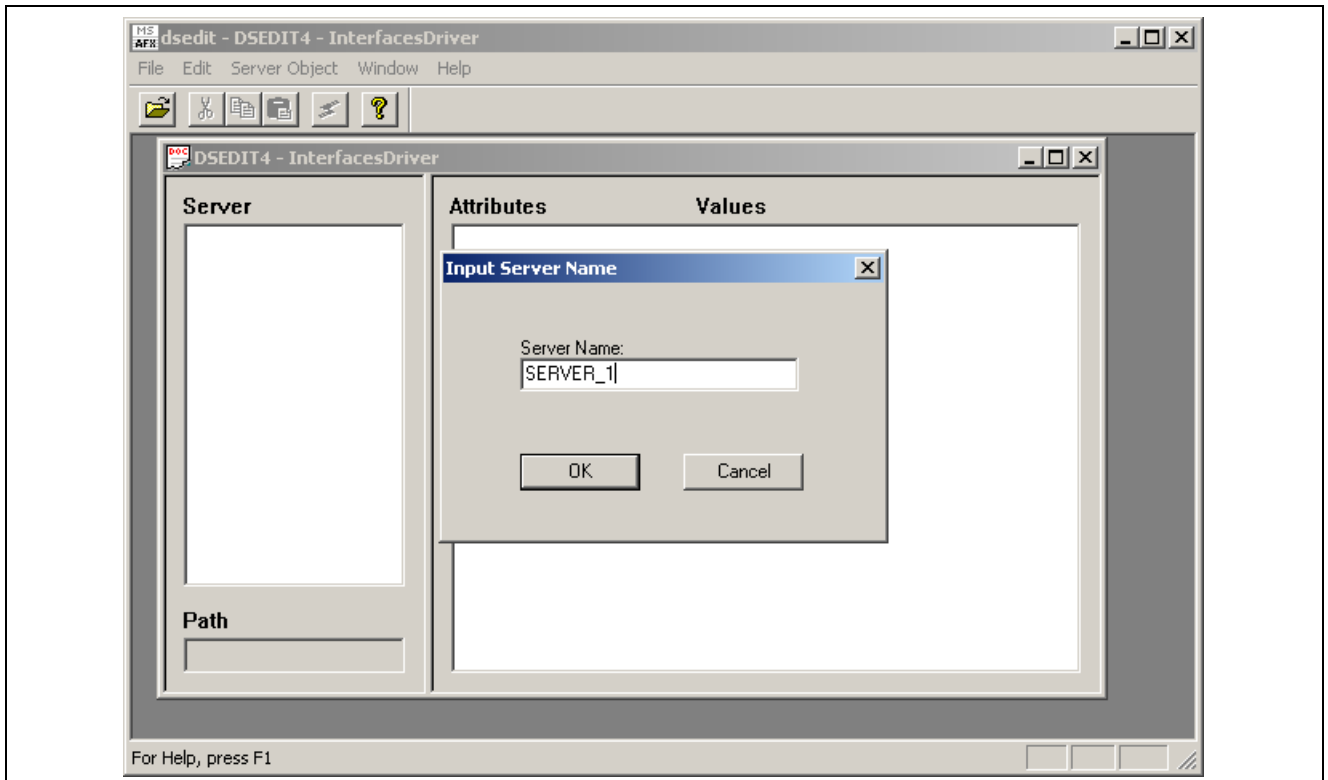
Select Directory Service dialog box

2. Click OK.

The dsedit - DSEDIT1 - InterfaceDriver window appears.

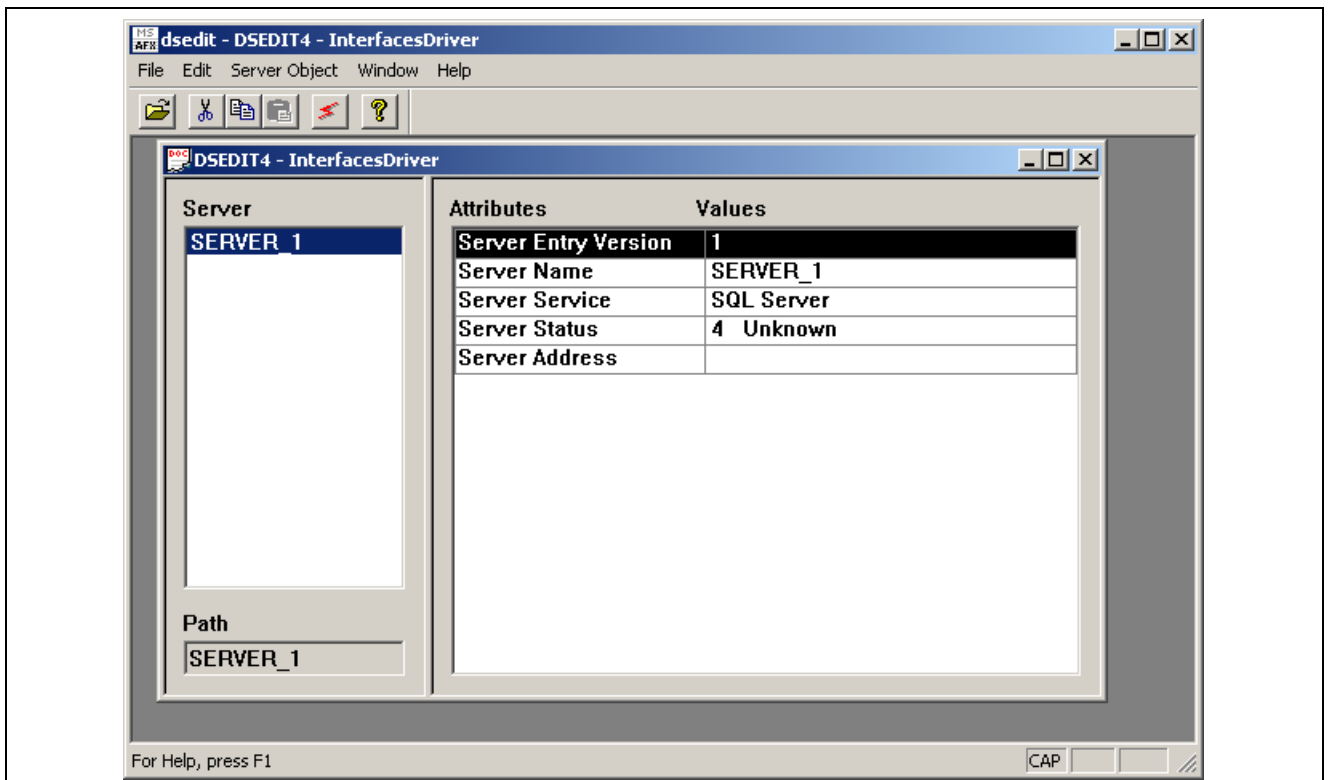
3. Select Server Objects, Add.

The Input Server Name dialog box appears.



Input Server Name dialog box

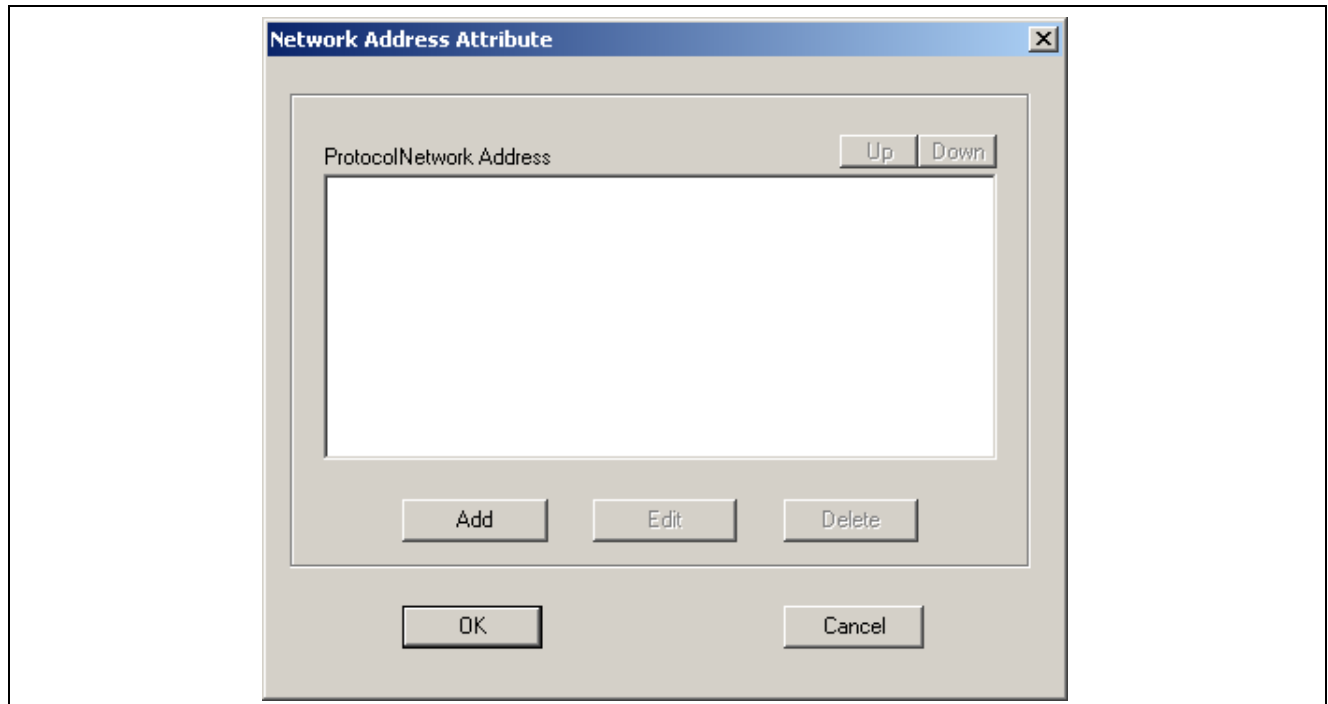
Enter the Sybase server name and click OK.



Server information on the dsedit window

4. Double-click Server Address.

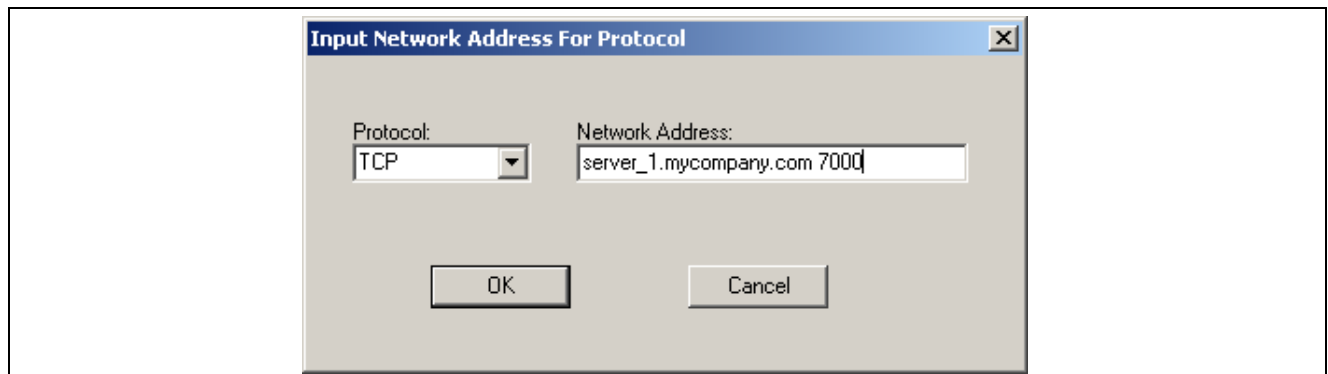
The Network Address Attribute dialog box appears. Click Add.



Network Address Attribute dialog box

5. Click Add.

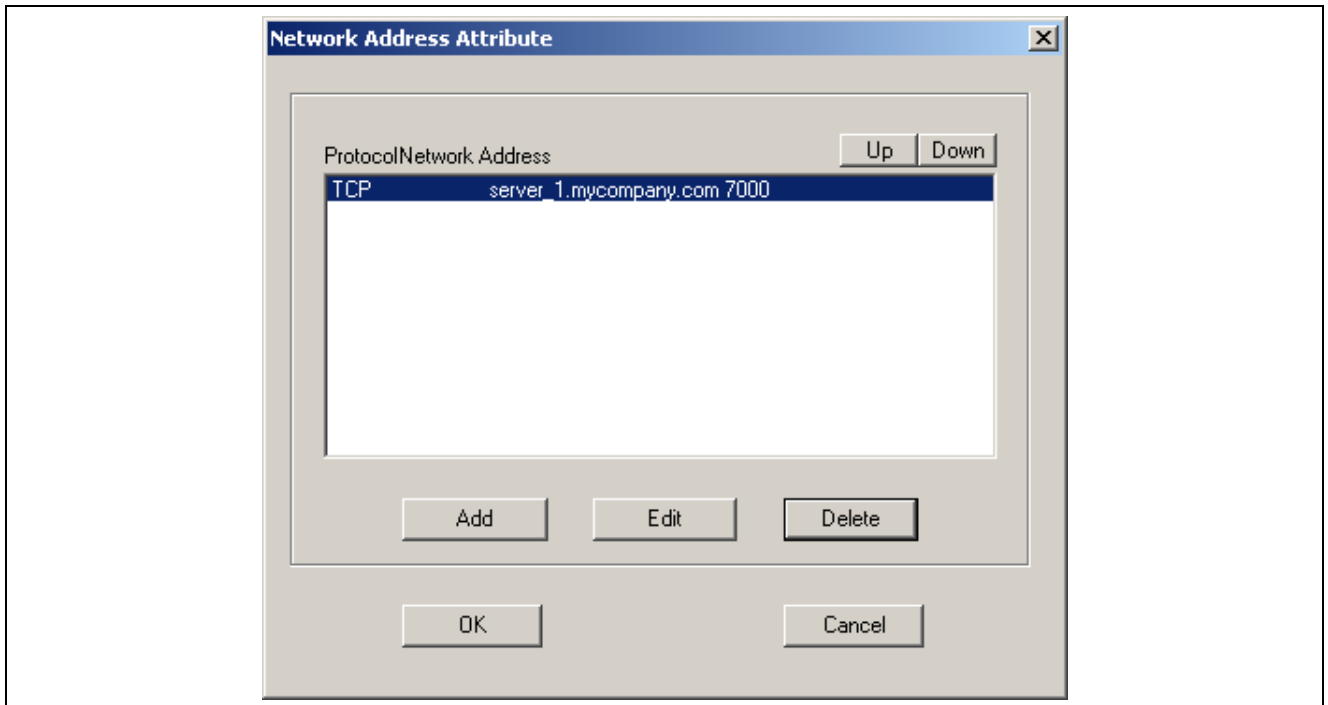
The Input Network Address For Protocol dialog box appears. Enter the network address that you discovered in the interfaces file at the beginning of this task.



Input Network Address For Protocol dialog box

6. Click OK.

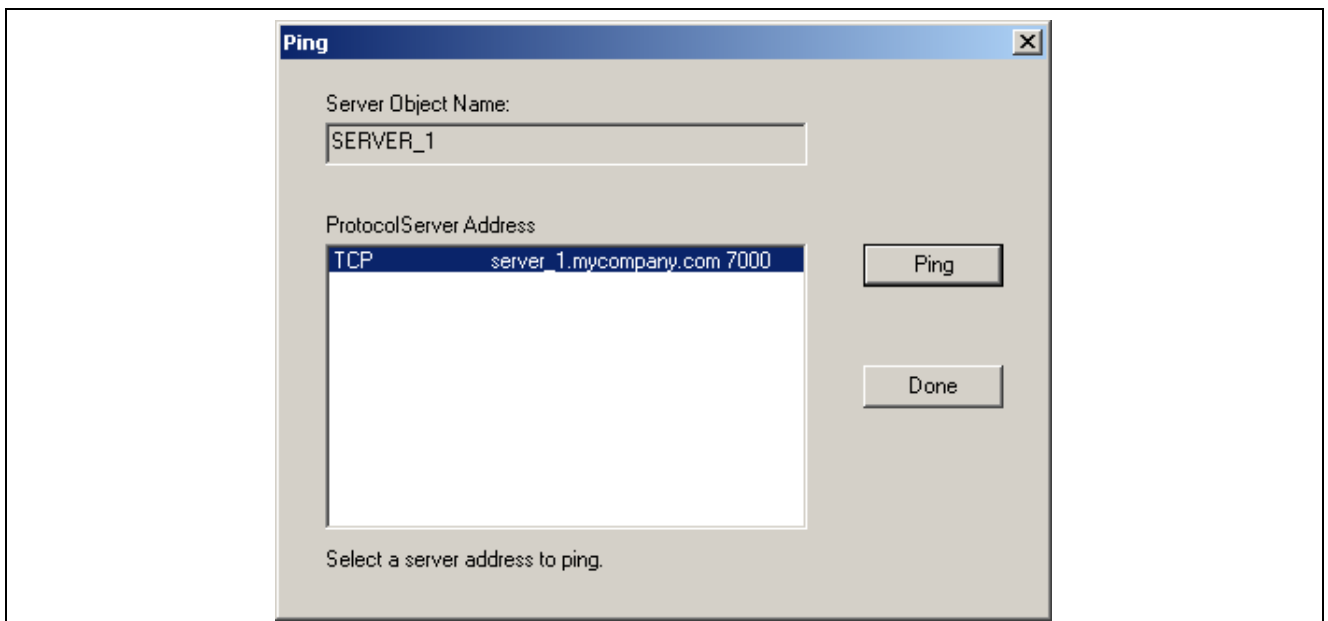
The Network Address Attribute dialog box appears.



Server information in the Network Address Attribute dialog box

7. Click OK.

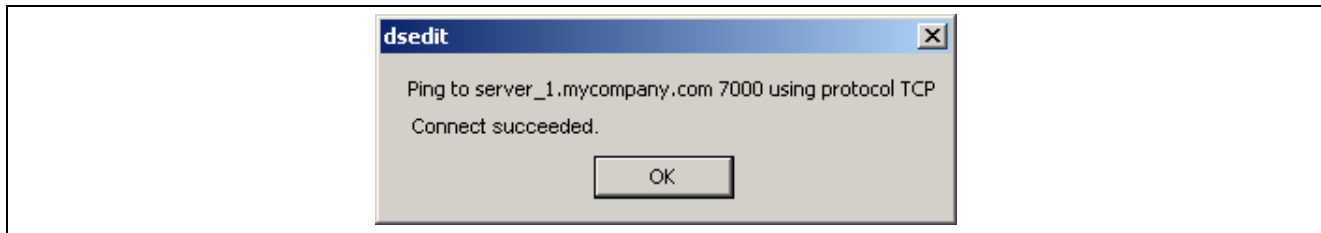
On the dsedit - DSEdit1 - InterfaceDriver window, select Server Objects, Ping Server. The Ping dialog box appears.



Ping dialog box

8. Click Ping.

You should get a confirmation message box with the statement "Connect succeeded."



Successful connection message box

9. Click OK to close the message box and Done to close the Ping dialog box.

Once you have installed Open Client on the workstation, make sure that the connection works. Test the connectivity using the Sybase ping utility provided with Open Client. Use `isql` from a DOS Command Prompt or other native SQL interpreter to connect to your dataserver. Issue the following SQL statement:

```
select * from all_users
```

This should produce the following message:

```
table or view does not exist
```

Note. A network ping or using telnet does not test the Open Client connection.

After installing PeopleSoft PeopleTools, you should also test the two-tier connection to the Sybase database by logging in to the server using Application Designer.

If you have any problems installing any Sybase products or connecting to your Sybase database, you should contact Sybase or your Sybase vendor.

Task 1-14: 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.
Sybase performs database backups through a Backup Server. Once the Sybase dataserver is installed and you establish Open Client connectivity on the dataserver, Oracle recommends that you back up the master database. When doing so, keep the following items in mind:
 - The Backup Server can reside on the same server as the database engine or on a remote server.
 - An entry for the Backup Server must be included in the `$$SYBASE/interfaces` file located on the same server as the database engine.
 - The Backup Server must be running for a database backup to be performed.
 - Use the Sybase dump command to perform database backups.
- 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 1-15: 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:

- Uploads environment
- Finds required updates
- Downloads updates
- 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"

Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Change Assistant

Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft 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 E-Delivery
- 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 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 8.51 supports 64-bit Oracle WebLogic Server 10.3.2. Oracle provides installation files for Oracle WebLogic on the Oracle E-Delivery site.

See Obtaining Oracle WebLogic Installation Files from E-Delivery.

Note. If you are installing on Microsoft Windows 2008 R2 or SuSE Linux 11, the minimum supported version is Oracle WebLogic Server 10.3.3. The installation instructions for 10.3.3 and 10.3.2 are largely the same; the few differences are noted.

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 My Oracle Support or the hardware and software requirements guide.

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 E-Delivery, <http://edelivery.oracle.com>

Enterprise PeopleTools 8.51 Hardware and Software Requirements

My Oracle Support, Certifications

"Clustering and High Availability for Enterprise Tools 8.4x," My Oracle Support, (search for the article title)

"Operating System, RDBMS, and Additional Component Patches Required for Installation," My Oracle Support, (search for the 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 ./wls1032_generic.jar -mode=console -Djava.io.tmpdir=>
~/temp -log=./logs/wls1032Install.log
```

- If the installation fails, and the directory that you specify for the Oracle WebLogic 10.3.2 installation is one in which other BEA products have been installed, *BEA_HOME* in previous releases, (for example `c:\bea` folder in Microsoft Windows), it may indicate corruption in the `registry.xml` file inside your existing *BEA_HOME*. Pick a different location to for the Oracle WebLogic 10.3.2 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 wls1032_generic.jar -mode=console -log=logs=>
\wls1032Install.log
```

- 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 a 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 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.

- If you encounter the following error message while running a PeopleSoft Pure Internet Architecture installed on a Microsoft Windows or Linux operating system, and you are using Jrockit R28 or above, you may ignore the error message and continue.

```
[WARN ] -XXnoJITInline has no effect. Please update your command line.
```

If you prefer to avoid seeing the error message:

- a. Make a backup copy of the file `<PS_HOME>/webserv/<domain_name>/bin/setEnv.cmd` (sh).
- b. Open `setEnv.cmd` (sh) in a text editor and remove the JVM option `-XXnoJITInline`.
- c. Save the file.

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

The initial portion of the procedure to log in to Oracle E-Delivery was described earlier. At this point you should have already downloaded the necessary files. This section includes additional information on finding and using the files for Oracle WebLogic if necessary.

Note. Only the Oracle WebLogic installation files provided as part of the PeopleTools 8.51 media pack on Oracle E-Delivery are certified for use with PeopleSoft PeopleTools 8.51.

See "Preparing for Installation," Using Oracle E-Delivery to Obtain Installation Files.

To obtain the files for Oracle WebLogic installation:

1. After logging in to Oracle E-Delivery, on the Media Search Pack page, select *PeopleSoft Enterprise* 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:

- AIX
- HP-UX (IPF and PA-RISC)
- Linux
- Microsoft Windows

- Solaris (SPARC)
3. Select the radio button for the PeopleSoft Enterprise - PeopleTools 8.51 Media Pack for your platform and click Continue.

Note. The part numbers vary by platform.

4. Select Oracle WebLogic Server 11gR1 (10.3.2) Generic 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 Solaris, you must unzip it on Solaris to avoid problems. If you unzip the file to a staging directory on a Microsoft Windows computer and copy the staging directory to a 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 *wls1032_generic.jar* for Oracle WebLogic 10.3.2 and *wls1033_generic.jar* for Oracle WebLogic 10.3.3, depending upon the operating system platform. The following instructions refer to *wls1032_generic.jar*. Substitute *wls1033_generic.jar* if necessary.

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 Upgrade for WebLogic
- Installing JDK for AIX
- Installing JDK for HP-UX IPF
- Installing JDK for HP-UX PA-RISC
- Installing JRockit for Microsoft Windows or Linux
- Installing JDK for Solaris

Understanding the JDK Upgrade for WebLogic

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

Operating System Platforms	JDK or JRockit	64-bit or Mixed Mode*	Comments
AIX	IBM JDK	64-bit	
HP-UX	Hewlett-Packard JDK	Mixed mode	Use “-d64” to turn on 64-bit mode
Linux	Oracle JRockit	64-bit	

Operating System Platforms	JDK or JRockit	64-bit or Mixed Mode*	Comments
Microsoft Windows	Oracle JRockit	64-bit	
Solaris	Sun JDK	Mixed mode	Requires two installers. 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 AIX

To install 64-bit IBM JDK for 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 Java 6 64-bit.
3. Register and log in to download.
4. Download 64-bit IBM JDK SR6 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 IPF

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

1. Go to the Hewlett-Packard download web site:
<http://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=HPUXJDKJRE60>
2. Select the link for "Version 6.0.05 – October 2009" or later.
3. In the Software Specification combo box, select "Itanium(R) JDK 6.0.05 - Oct 09" or later.
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 HP-UX PA-RISC

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

1. Go to the Hewlett-Packard download web site:
<http://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=HPUXJDKJRE60>
2. Select the link for "Version 6.0.05 – October 2009" or later.
3. In the Software Specification combo box, select PA-RISC JDK6.0.05 - Oct 09 or later.
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 JRockit for Microsoft Windows or Linux

To install 64-bit JRockit for an Oracle WebLogic installation on Microsoft Windows or Linux:

1. Go to the My Oracle Support web site:
<https://support.oracle.com>
2. Log in with your Oracle support account ID and password.
3. Select the Patches & Updates tab.
4. Select Advanced "Classic" Patch Search under Oracle E-Business Suite.

A new window opens.

5. On the Advanced Search page, specify the following search criteria:
 - Product or Product Family:
JRockit or ORACLE JRockit
 - Release:
For Microsoft Windows or Linux, select Oracle JRockit 27.6.5 or higher.
For Microsoft Windows 2008 R2 or SuSE Linux 11, select Oracle JRockit 28.0.0 or higher
 - Platform or Language:
For Microsoft Windows 2008 R2, select Microsoft Windows X64 (64-bit).
For SuSE Linux 11, select Linux x86-64.
 - Click Go to search.
 - In the search results, click the Download Now icon to save the file locally.
 - If the JRockit release you pick is password protected, it might indicate the file is too old. Choose a later release.
6. Unzip the downloaded file, and install the JRockit on the computer where you will install the Oracle WebLogic server.

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

Note. When choosing the location to install, select a directory with no spaces in the name.

If you do not yet have access to My Oracle Support, you can download JRockit from the Oracle software download site:

1. Go to the Oracle Technology Network (OTN):
<http://www.oracle.com/technology/software/products/jrockit/index.html>
2. Download Oracle JRockit RealTime 3.1.2 or higher release for Java 6, for the 64-bit operating systems. For example:
 - For Linux, download the product for Linux x86-64.
 - For Microsoft Windows, download the product for Microsoft Windows x86-64

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

Installing JDK for Solaris

To install JDK for an Oracle WebLogic installation on Solaris:

1. Go to the Sun JDK download site:
`http://java.sun.com/javase/downloads/index.jsp`
2. Download the Sun Java 6 update 17 or higher 64 Bit JDK 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 run in 64-bit mode when installed with the “-d64” parameter.
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 `wls1032_generic.jar` from Oracle E-Delivery in the directory *WLS_INSTALL*. Installation in GUI mode is normally used for Microsoft Windows operating systems. You should have installed the appropriate JRockit to *JAVA_HOME* before beginning this installation.

See Installing JDK for Oracle WebLogic.

Note. Oracle WebLogic Server 8.1 SP6, 9.2 MP3, and 10.3.2 can coexist on a single machine. The best practice is to install Oracle WebLogic 10.3.2 or 10.3.3 for PeopleSoft PeopleTools 8.51 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:\bea`), you must shut down all instances of Oracle WebLogic Server running in that *WLS_HOME* before performing this installation.

To install Oracle WebLogic Server 10.3.2:

1. Open a command prompt and go to *WLS_INSTALL*.
2. Set the environment variable *JAVA_HOME* to be the location where you installed the JRockit. For example, if you installed JRockit to `D:\64BitJRockitRealTime312`, use this command:

```
set JAVA_HOME=D:\64BitJRockitRealTime312
```

3. Use the following command to launch the installer:

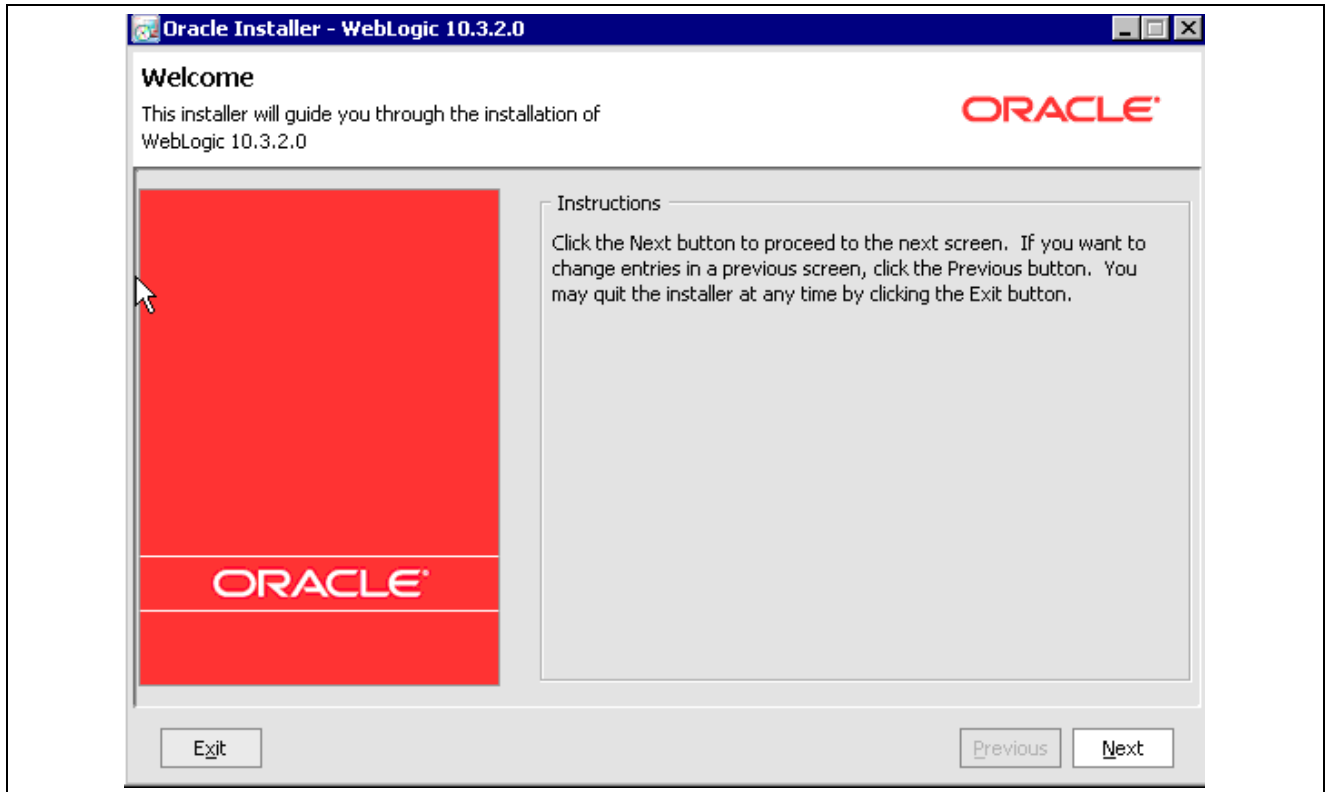
```
%JAVA_HOME%\bin\java -jar wls1032_generic.jar -mode=GUI -log=logs⇒  
\\wls1032Install.log
```

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

```
set JAVA_HOME=D:\Program Files\64BitJRockitRealTime312  
"%JAVA_HOME%\bin\java" -jar wls1032_generic.jar -mode=GUI -log=logs⇒  
\\wls1032Install.log
```

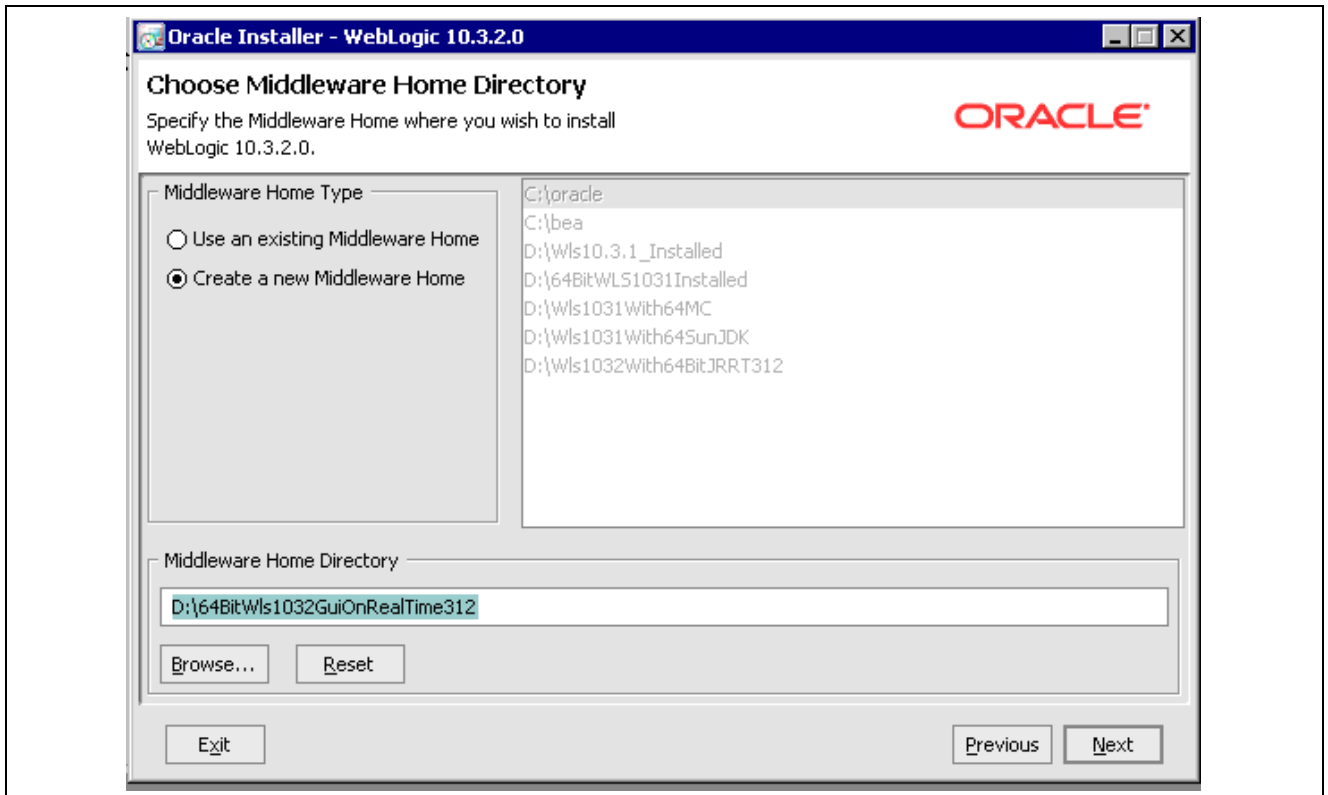
Note. It may take up to five minutes to extract the installer. The Welcome window appears when the extraction is complete.

4. Click Next on the Welcome window.



Welcome window for Oracle WebLogic 10.3.2.0 installer

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:\64BitWls1032GuiOnRealTime312.
Click Next to continue.

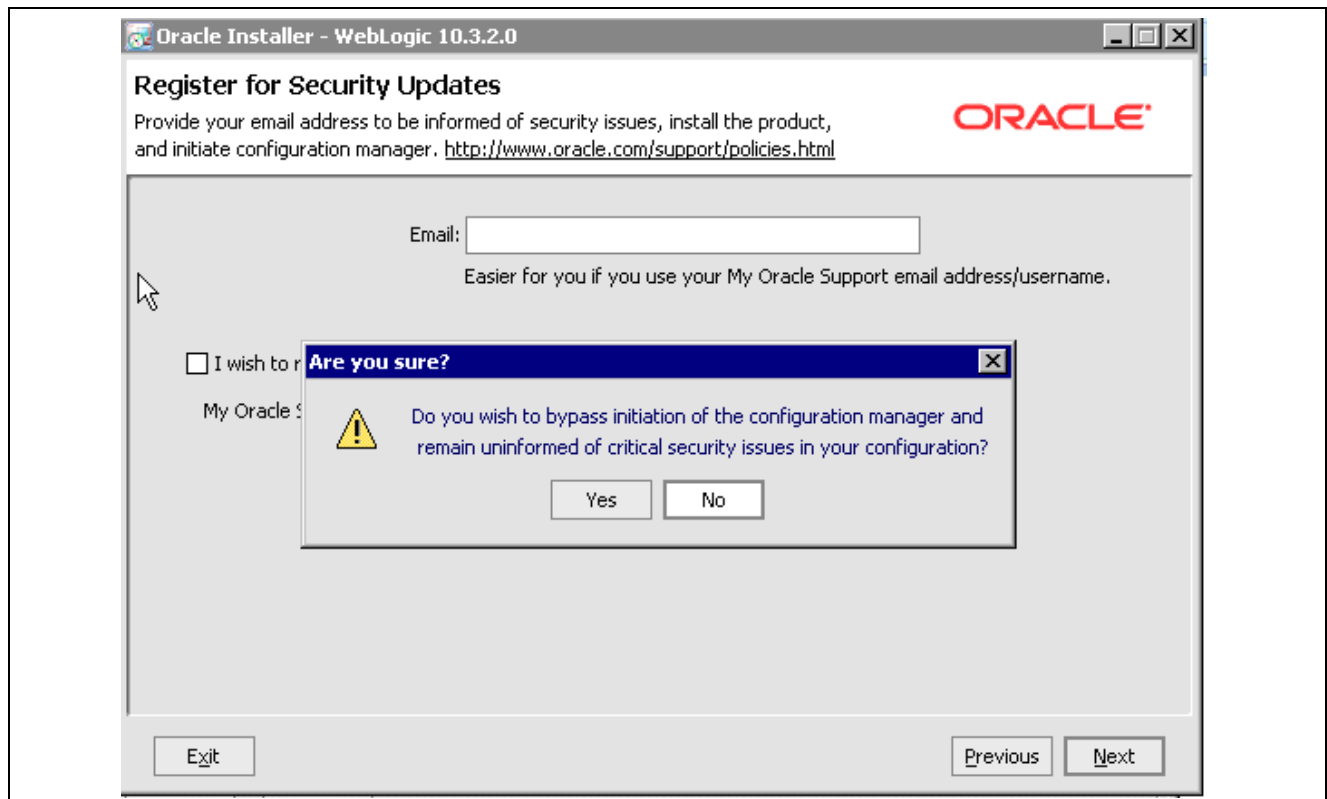


Choose Middleware Home Directory window

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

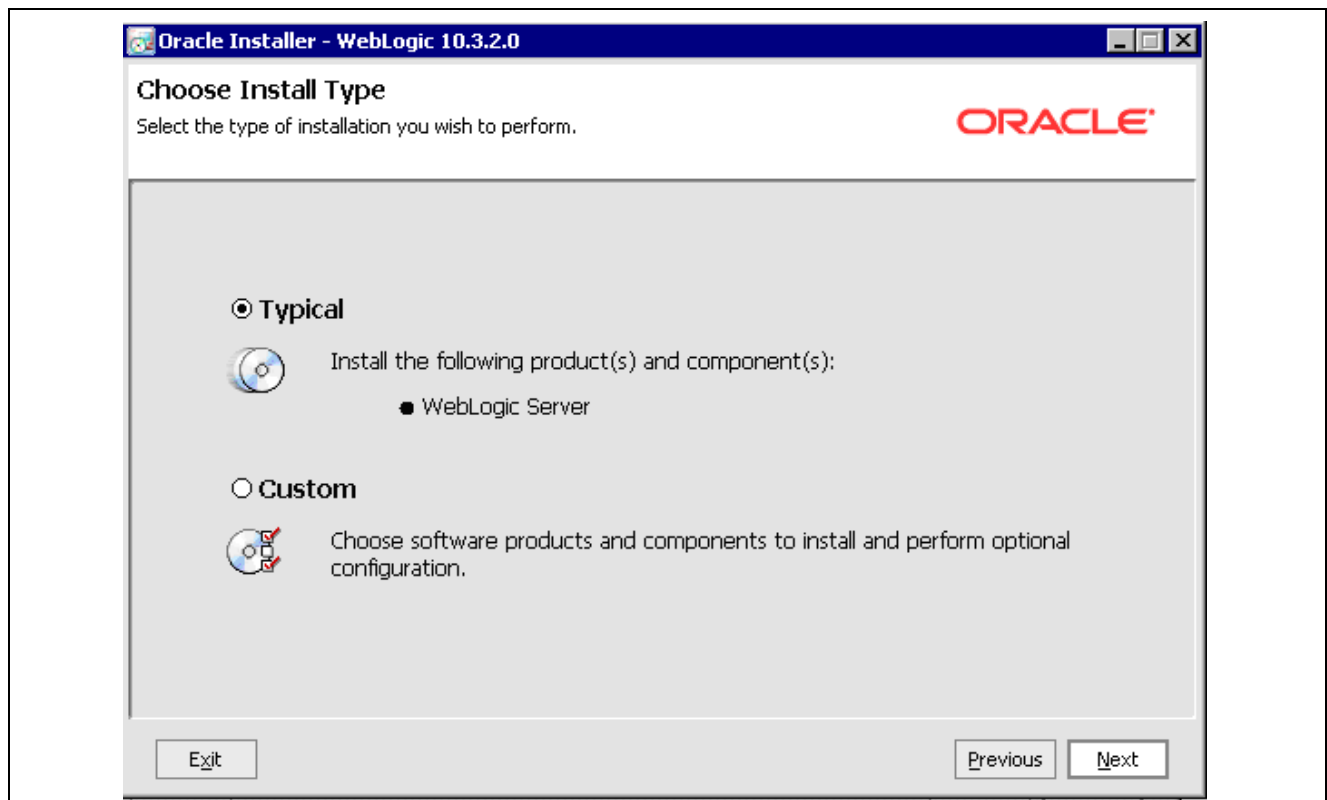
After you clear the option, a dialog box appears, as shown below, asking for confirmation with this query: "Do you wish to bypass initiation of the configuration manager and remain uninformed of critical security issues in your configuration?"

Click Yes in the "Are you sure?" dialog box, and then click Next on the Register for Security Updates window.



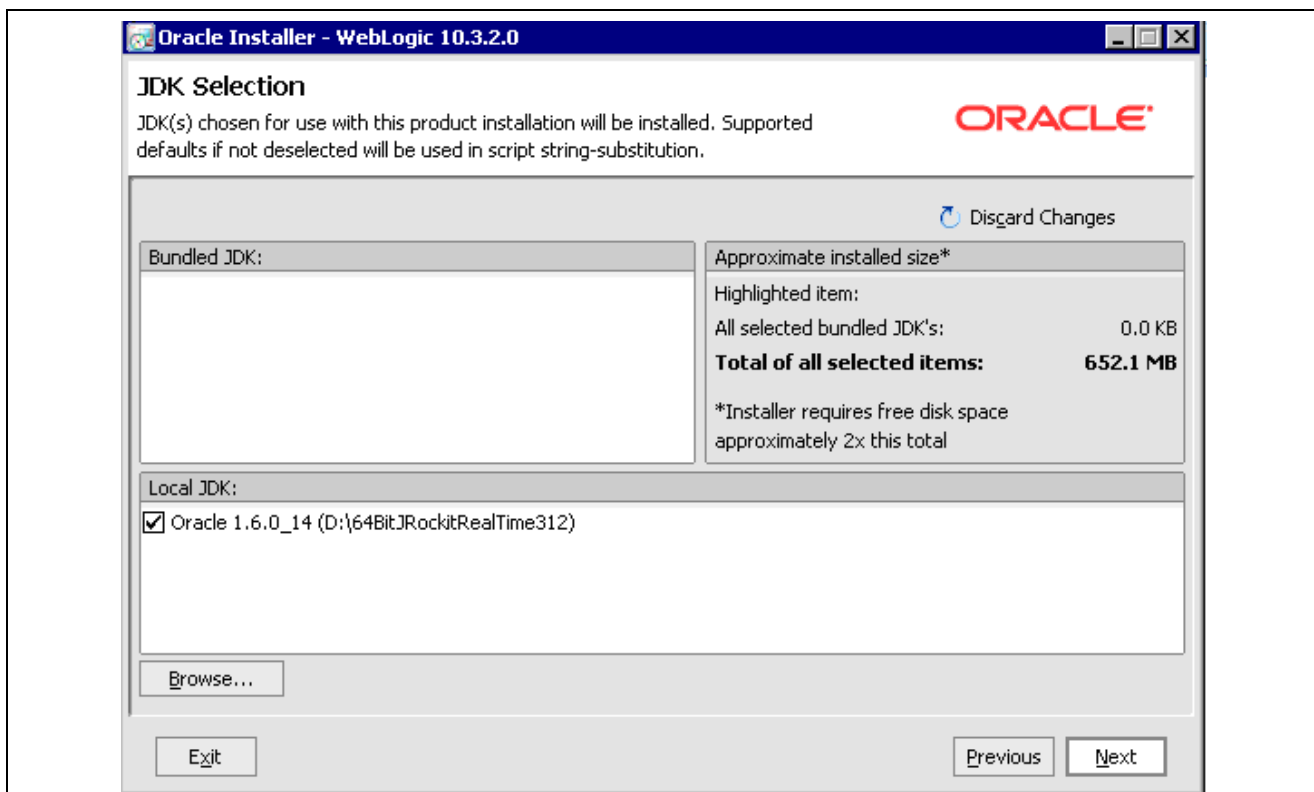
Confirming that you wish to bypass security update registration

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



Choose Install Type window

8. Accept the location where you installed the JRockit, and then click Next on the JDK Selection window.

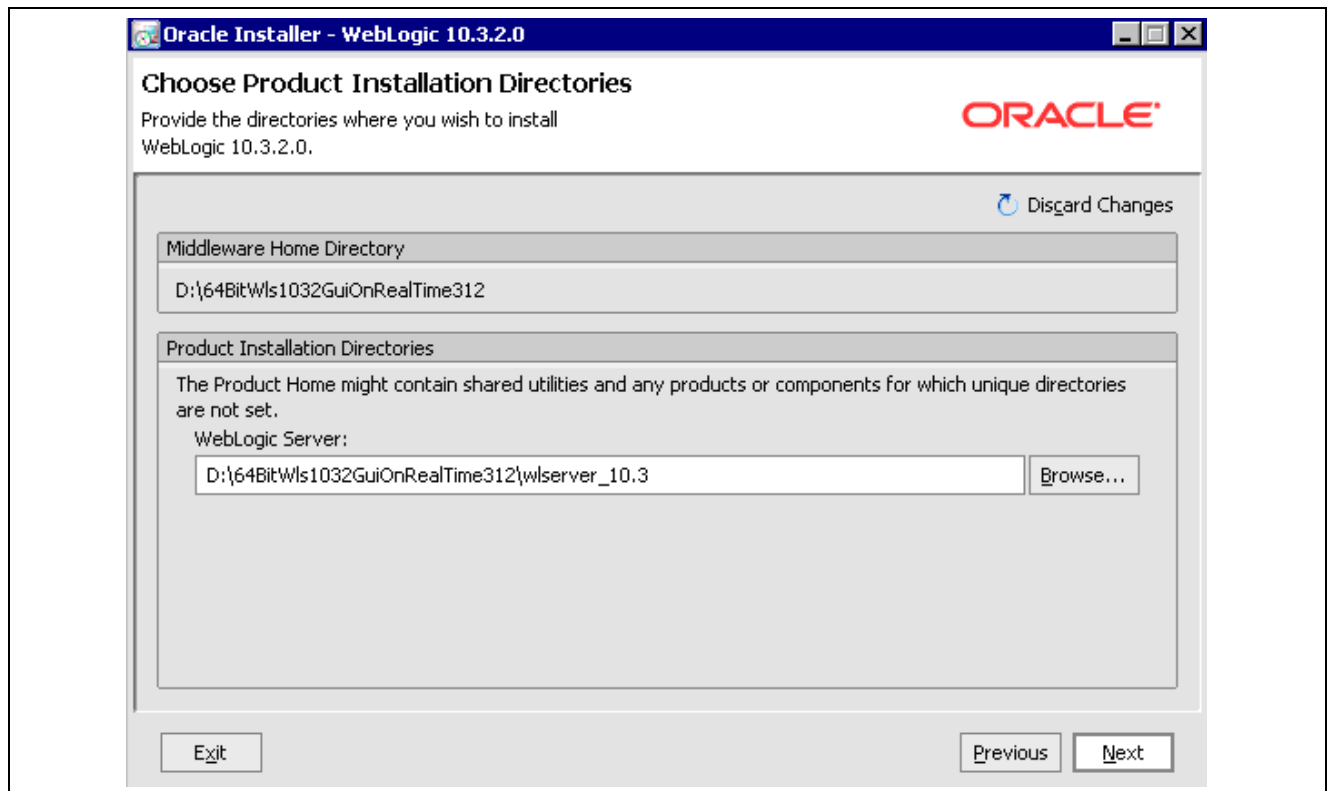


JDK Selection window

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

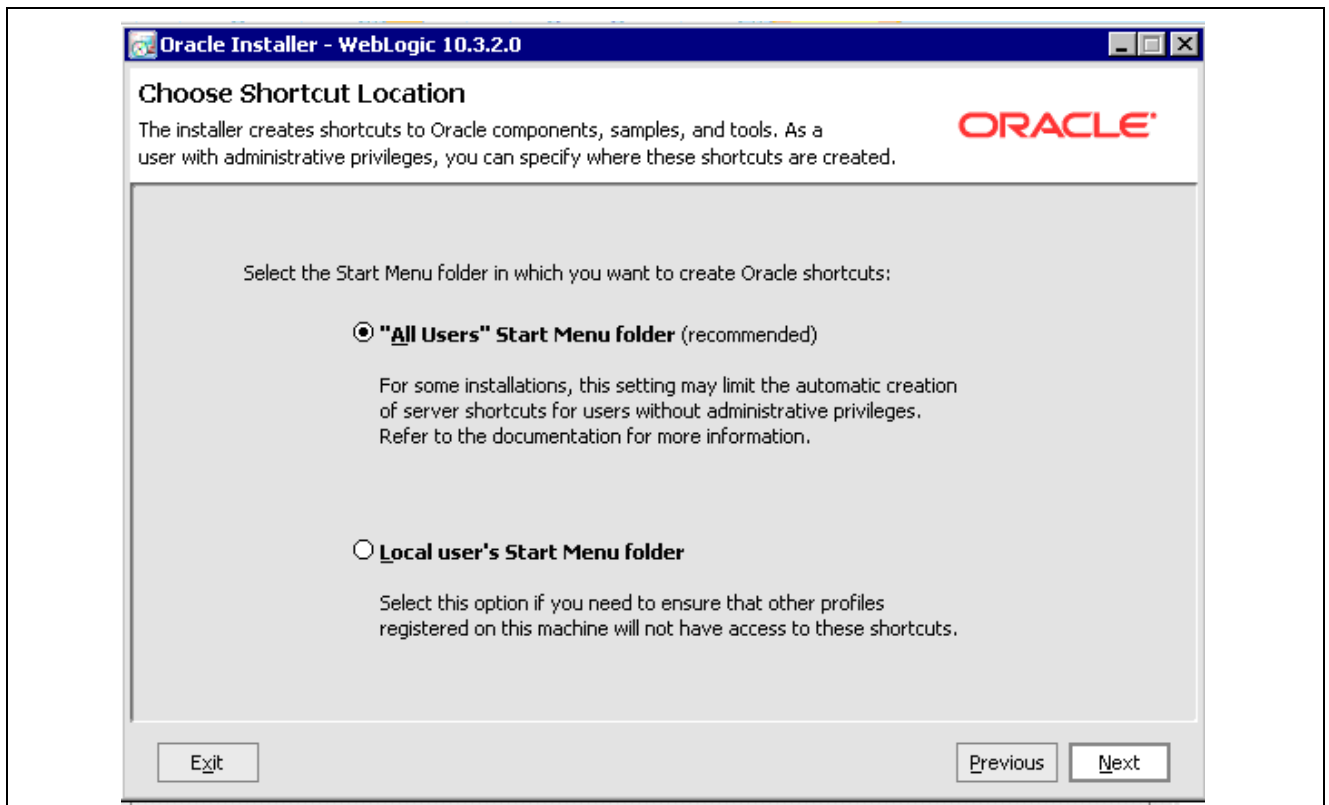
If you are installing WebLogic 10.3.3 on Microsoft Windows 2008 R2, you see a slightly different window. In the Product Installation Directories area, in addition to the WebLogic Server entry, there is an entry for Coherence. Accept the defaults and continue.

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



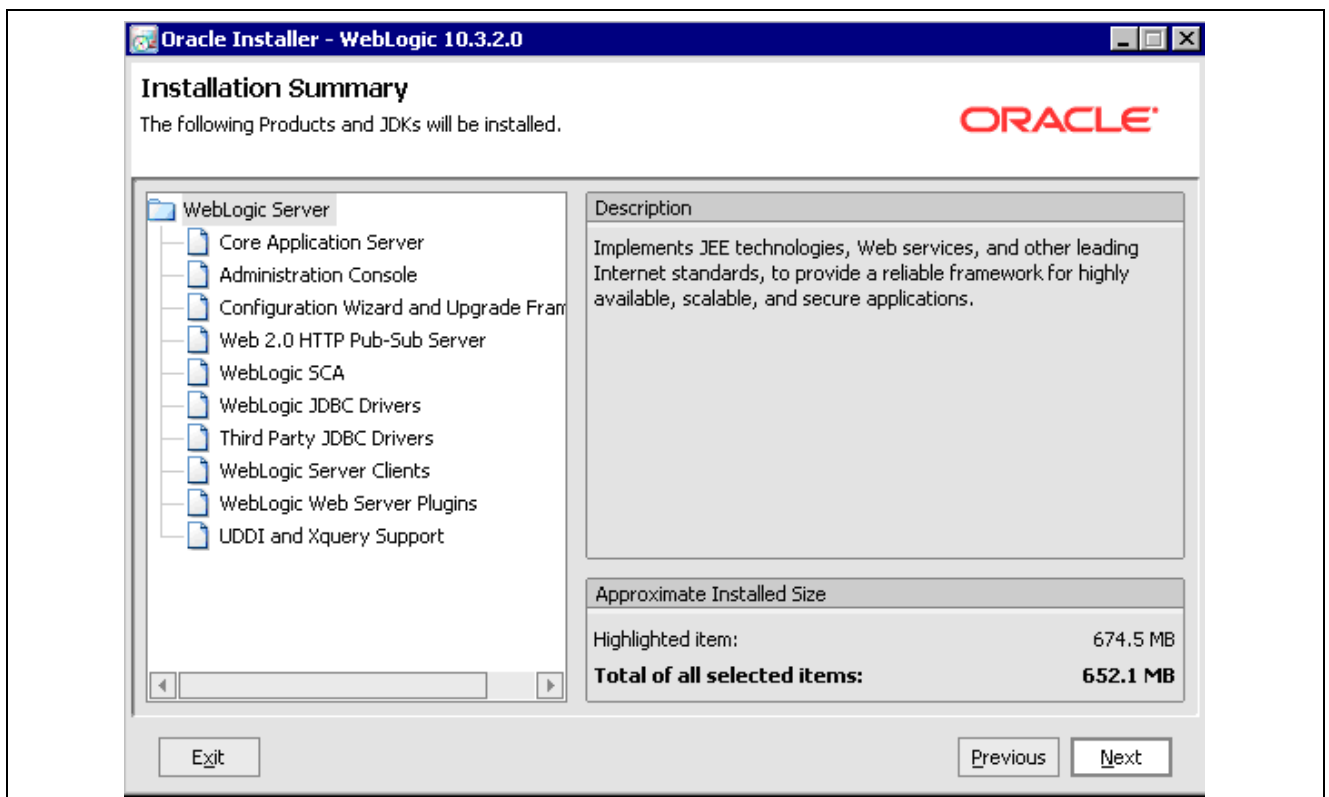
Choose Product Installation Directories window

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



Choose Shortcut Location window

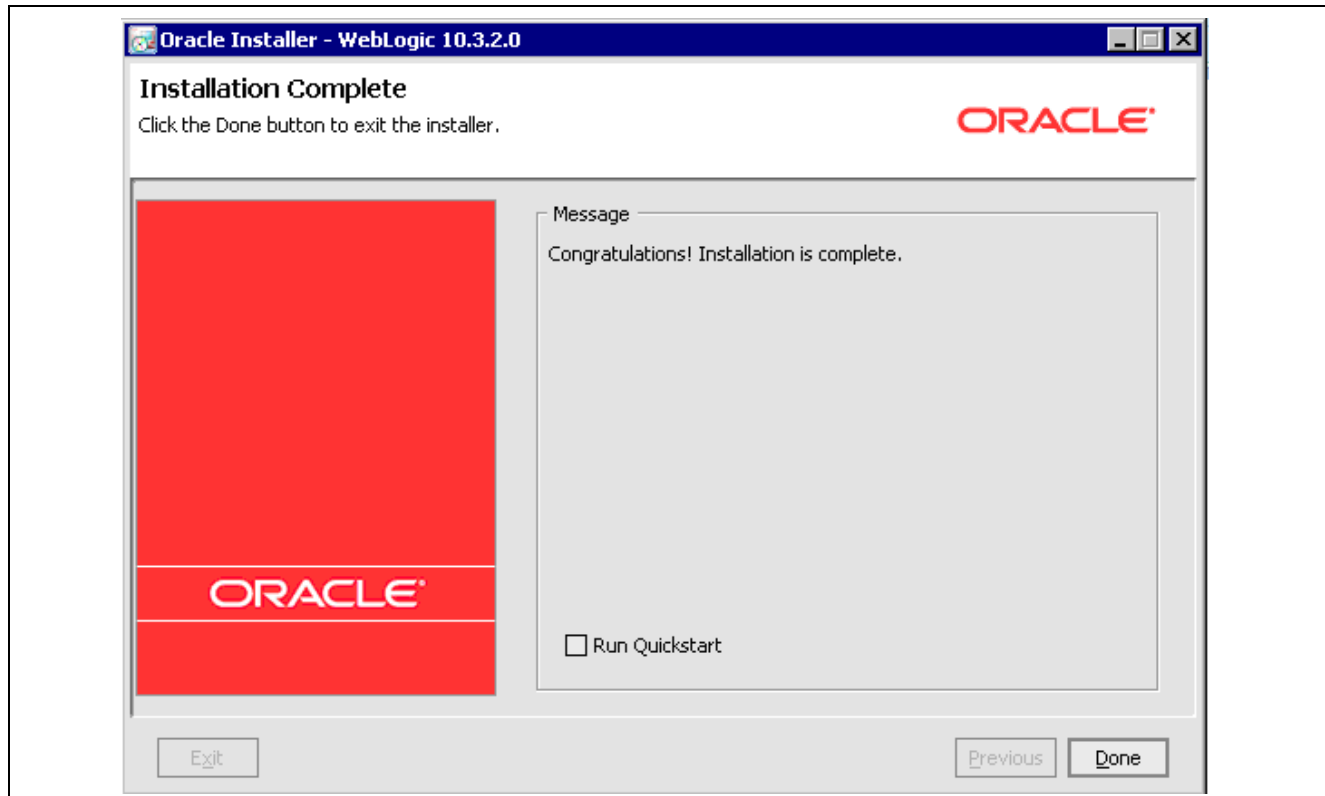
11. Verify your choices in the installation summary, and click Next to begin the installation.



Installation Summary window

A window appears tracking the progress of the installation.

12. 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 `wls1032_generic.jar` from Oracle E-Delivery 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 wls1032_generic.jar
```

If you downloaded the zip file for the Oracle WebLogic installation from Oracle E-Delivery to a Microsoft Windows computer, FTP the zip file in binary mode to your Linux or 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 `"/home/ms23546/64BitJRockitRealTime312"` use these commands:

```

JAVA_HOME=/home/ms23546/64BitJRockitRealTime312
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 `Wls1032Install.log` in the directory `WLS_INSTALL/logs`. Be sure you have write permission to the `WLS_INSTALL` directory.

- For AIX or Linux:

```

${JAVA_HOME}/bin/java -jar ./wls1032_generic.jar -mode=console -log=./logs⇒
/wls1032Install.log

```

- For HP-UX or Solaris:

```

${JAVA_HOME}/bin/java -d64 -jar ./wls1032_generic.jar -mode=console -log=⇒
/logs/wls1032Install.log

```

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

5. Type `Next` and press `ENTER` after the following welcome message:

```

<----- Oracle Installer - WebLogic 10.3.2.0 ----->
Welcome:
_____
This installer will guide you through the installation of WebLogic 10.3.2.0.
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 Installer WebLogic Welcome prompt

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 10.3.2.0 ----->

Choose Middleware Home Directory:
-----

->1|* Create a new Middleware Home
  2|/home/ms23546/wls103GaVan_ibm22b
  3|/home/ms23546/wls103GaVan_hpux
  4|/home/ms23546/wls1031_silentHpi01c
  5|/home/ms23546/wls1031_ConsoleHpp03
  6|/home/ms23546/wls1031_silentIbm22b
  7|/home/ms23546/Oracle/Middleware
  8|/home/ms23546/wls1031Ga_silentHpi01c
  9|/home/ms23546/wls1031GA_SilentIBM22b
 10|/home/ms23546/wls1031GA_SilentHpp03
 11|/home/ms23546/wls1031GASun17
 12|/home/ms23546/wls1031GA_ConsHpi01c64
 13|/home/ms23546/Wls1031ConHpp0364
 14|/home/ms23546/wls1031GA_consoleIBM22b
 15|/home/ms23546/Wls1031GAWithSample/Wls1031GAWithSampleIBM22b
 16|/home/ms23546/wls1031GA_ConsoleSun06
 17|/home/ms23546/Wls1031GA_ConsoleLnx18a
 18|/home/ms23546/Wls10320nrtdc60005stdb
 19|/home/ms23546/Wls103264Bit0nrtdc60005stdbsample
 20|/home/ms23546/Wls103232Bit0nhpp03WithSample
 21|/home/ms23546/Wls103264Bit0nhpp03WithSample

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 10.3.2 into a new location, different from where you installed your previous versions of Oracle WebLogic Server including Oracle WebLogic Server 10.3.1. In this example, *WLS_HOME* is /home/ms23546/Wls10320nrtdc60005stdb_console.

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 10.3.2.0 ----->

Choose Middleware Home Directory:
-----

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

** The product maintenance level of the current installer (WebLogic
** Server:10.3.2.0) is not compatible with the maintenance level of the
** product installed on your system (WebLogic Server:10.3.1.0) . Please
** obtain a compatible installer or perform maintenance on your current
** system to achieve the desired level.

Enter new Middleware Home OR [Exit] [Previous] [Next]> /home/ms23546/Wls10320nrtdc60005stdb_console

```

Specifying the Middleware Home Directory prompt

Note. You may see the following error message, as in this example:

”The product maintenance level of the current installer (WebLogic Server: 10.3.2.0) is not compatible with the maintenance level of the product installed on your system (WebLogic Server: 10.3.1.0). Please obtain a compatible installer or perform maintenance on your current system to achieve the desired level.”

You can safely ignore the message, specify the location to install Oracle WebLogic 10.3.2, and continue.

8. Type *Next* at the confirmation prompt, and press ENTER.

```

<----- Oracle Installer - WebLogic 10.3.2.0 ----->

Choose Middleware Home Directory:
-----

"Middleware Home" = [/home/ms23546/Wls10320nrtdc60005stdb_console]

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 Directory confirmation prompt

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

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

```

<----- Oracle Installer - WebLogic 10.3.2.0 ----->
Register for Security Updates:

Provide your email address to be informed of security issues, install the product,
and initiate configuration manager. http://www.oracle.com/support/policies.html

  1 | Email:[]
  2 | My Oracle 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:

```

<----- Oracle Installer - WebLogic 10.3.2.0 ----->
Register for Security Updates:

Provide your email address to be informed of security issues, install the product, and initiate configuration manager. http://www.oracle.com/support/policies.html

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

Enter [Yes][No]? No_

```

Provide email address prompt

11. Type *Yes* and press ENTER to confirm your choice to bypass the registration at the following prompt:

```

<----- Oracle Installer - WebLogic 10.3.2.0 ----->
Register for Security Updates:

Provide your email address to be informed of security issues, install the product, and initiate configuration manager. http://www.oracle.com/support/policies.html

    "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 10.3.2.0 ----->
Register for Security Updates:

Provide your email address to be informed of security issues, install the product, and initiate configuration manager. http://www.oracle.com/support/policies.html

    1 | Email:[]
    2 | My Oracle 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.

```

<----- Oracle Installer - WebLogic 10.3.2.0 ----->
Choose Install Type:

Select the type of installation you wish to perform.

->1|Typical
   |Install the following product(s) and component(s):
   |- WebLogic Server

   2|Custom
   |Choose software products and components to install and perform optional
   |configuration.

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

```

Choose Install Type prompt

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

```

<----- Oracle Installer - WebLogic 10.3.2.0 ----->

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

JDK(s) chosen for use with this product installation will be installed. Supported
defaults if not deselected will be used in script string-substitution.

1|Add Local Jdk
2|/home/ms23546/64BitJRockitRealTime312[x]

*Estimated size of installation: 672.3 MB

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

```

JDK Selection prompt

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

If you are installing WebLogic 10.3.3 on SuSE Linux 11, you see a slightly different prompt. In the Product Installation Directories area, in addition to the WebLogic Server entry, there is an entry for Coherence. Accept the defaults and continue.

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

```

<----- Oracle Installer - WebLogic 10.3.2.0 ----->

Choose Product Installation Directories:
-----

Middleware Home Directory: [/home/ms23546/Wls10320nrtdc60005stdb_console]

Product Installation Directories:

    "WebLogic Server" = [Enter new value or use default
    "/home/ms23546/Wls10320nrtdc60005stdb_console/wlserver_10.3"]

Enter new WebLogic Server 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 10.3.2.0 ----->

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

WebLogic Platform 10.3.2.0
├── 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
└── *Estimated size of installation: 652.1 MB

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

```

Installation summary prompt

A progress indicator appears.

17. Type Exit when the installation is complete.

If the installation fails, review the events in the log file *WLS_INSTALL/logs/Wls1032Install.log*.

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

The following procedure assumes that you saved the installation file *wls1032_generic.jar* from Oracle E-Delivery 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.

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 E-Delivery to a Microsoft Windows computer, FTP the zip file in binary mode to your Linux or 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 wls1032_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/java6”, use the following commands:

```
JAVA_HOME=/opt/java6
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, (⇒) before saving.

```
<?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="ToBeReplacedWithBEAHOME" />
  <data-value name="WLS_INSTALL_DIR" value="ToBeReplacedWithBEAHOME/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>
```

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: “ToBeReplacedWithBEAHOME” with the actual directory path you created for the Oracle WebLogic installation.

Note. Install Oracle WebLogic 10.3.2 to a location different from the location where you installed previous versions of Oracle WebLogic, including version 10.3.1.

In this example, *WLS_HOME* is /home/ms23546/wls1032_silentIBM22a:

```
<?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/wls1032_silentIBM22a" />
  <data-value name="WLS_INSTALL_DIR" value="/home/ms23546/wls1032_silentIBM22a=>
/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 AIX or Linux:

```
${JAVA_HOME}/bin/java -jar ./wls1032_generic.jar -mode=silent -silent_xml=.=>
/installer.xml -log=./logs/Wls1032Install.log
```

For HP-UX or Solaris:

```
${JAVA_HOME}/bin/java -d64 -jar ./wls1032_generic.jar -mode=silent -silent_xml=>
./installer.xml -log=./logs/Wls1032Install.log
```

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

A progress indicator tracks the installation.

10. When the installation is complete, open the *WLS_INSTALL/logs/Wls1032Install.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 for Daylight Savings Time Change

As a result of the Energy Policy Act of 2005, Daylight Saving Time (DST) starts a little earlier and ends a little later, from the year 2007. In the United States and Canada, Daylight Saving Time starts on the second Sunday of March and ends on the first Sunday of November.

Note. The version of Oracle WebLogic 10.3.2 provided with PeopleSoft PeopleTools 8.51 includes the 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.

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 10.3.2, 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.

Operating System	Vendor	Time Zone Updater URL
Sun Sparc Solaris	Sun Microsystems	http://java.sun.com/javase/tzupdater_README.html
Microsoft Windows	Oracle	http://www.oracle.com/technology/software/products/jrockit/index.html
Linux	Oracle	http://www.oracle.com/technology/software/products/jrockit/index.html
HP-UX (RISC and Itanium)	Hewlett Packard	http://www.hp.com/products1/unix/java/DST-US.html
IBM AIX 5L	IBM	http://www-128.ibm.com/developerworks/java/jdk/dst/index.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.

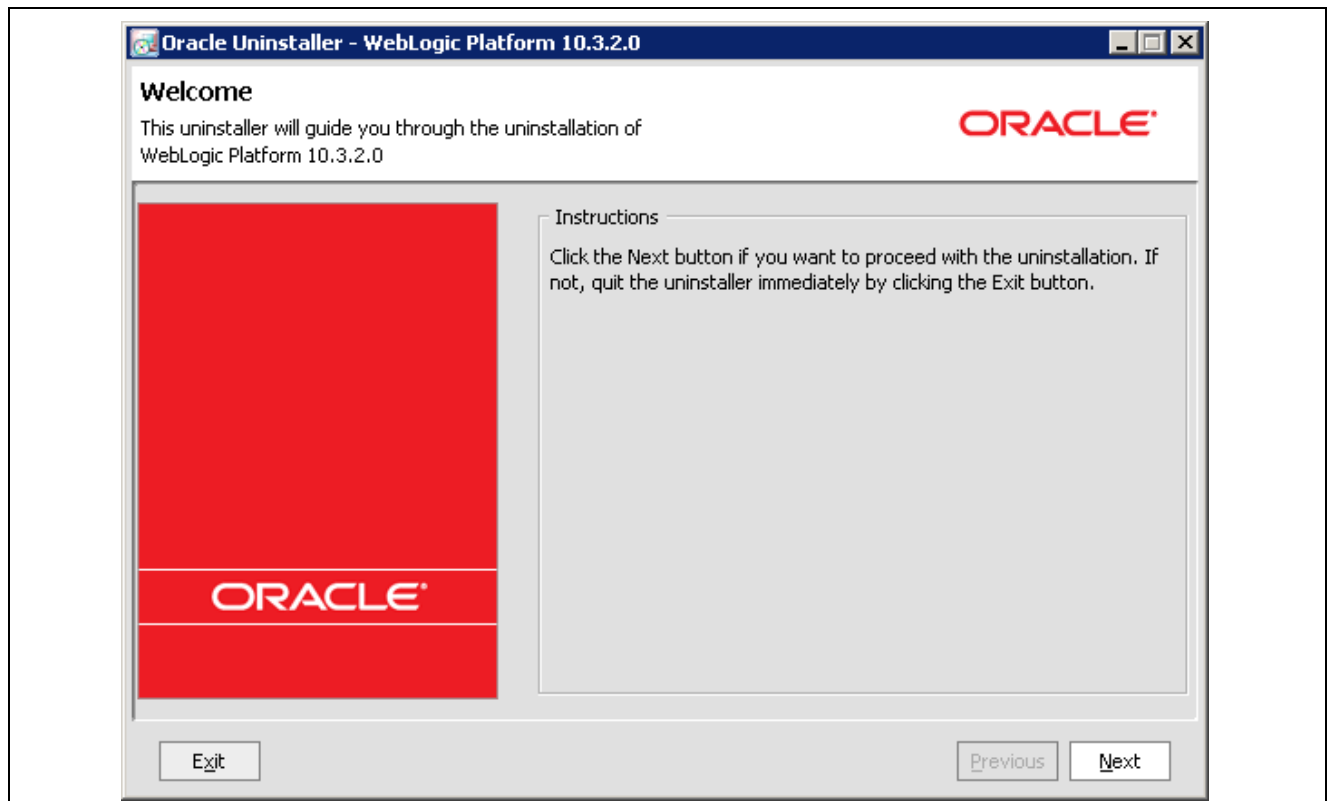
Read the instructions carefully as the steps and instructions are vendor-specific. Keep in mind that these instructions and versions may be updated when the vendor finds it necessary.

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

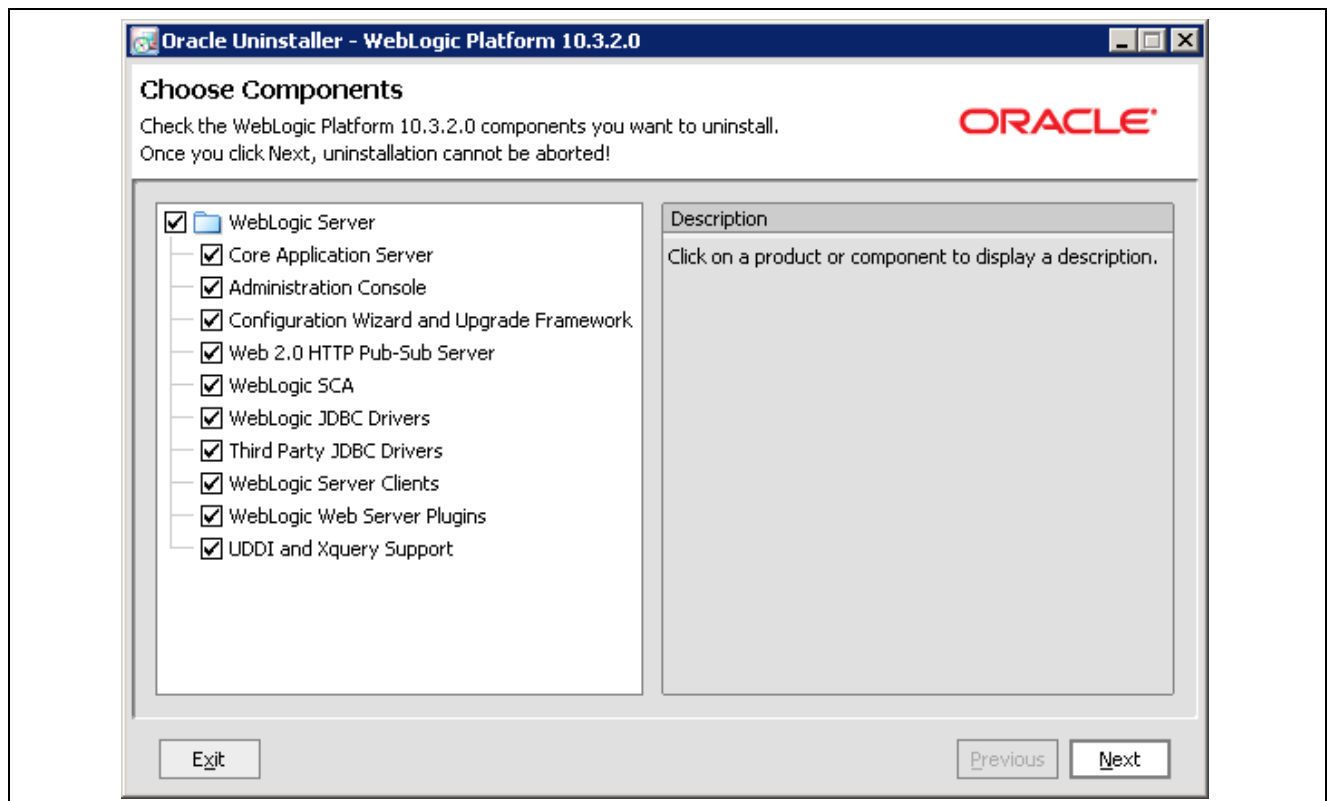
To remove the Oracle WebLogic installation on Microsoft Windows (GUI mode):

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



Oracle WebLogic Uninstaller: Welcome window

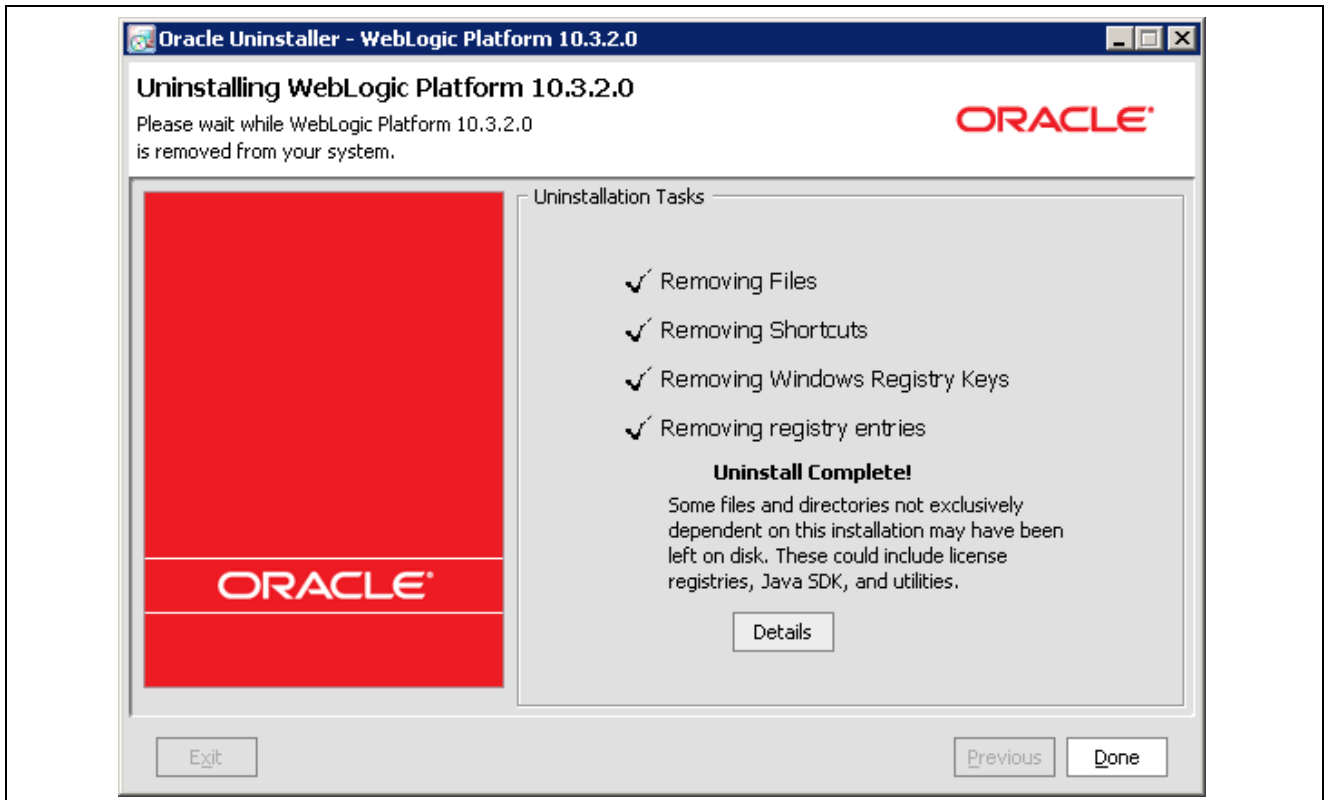
2. Select the components that you want to uninstall (by default all components are selected) and click Next.



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 10.3.2.0----->
Welcome:
```

```
Welcome to the WebLogic Platform 10.3.2.0 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 10.3.2.0----->
Choose Products and Components to uninstall:
-----
Check the WebLogic Platform components you want to uninstall.
```

```
WebLogic Platform 10.3.2.0
|___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
```

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 10.3.2.0----->
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 from Oracle E-Delivery
- Installing IBM WebSphere 7.0.0.7 ND on Microsoft Windows
- Installing IBM WebSphere 7.0.0.7 ND on HP-UX Itanium or Solaris

- Installing IBM Websphere 7.0.0.7 ND on AIX or Linux
- Installing IBM HTTP Server 7.0.0.7 and Plug-in 7.0.0.7 on Microsoft Windows
- Installing IBM HTTP Server 7.0.0.7 and Plug-in 7.0.0.7 on HP-UX Itanium or Solaris
- Installing IBM HTTP Server 7.0.0.7 and Plug-in 7.0.0.7 on AIX or Linux
- Validating Installation and Reviewing Logs
- Uninstalling IBM WebSphere Products

Understanding IBM WebSphere Installation

The IBM® WebSphere® Application Server can be used as a web server for PeopleSoft PeopleTools for the following operating systems:

- AIX
- HP-UX
- Linux
- Solaris
- Microsoft Windows

The required installation files and installation instructions covered in this section differ slightly depending upon the operating system platform. For detailed information on supported operating system platforms, see the certification information on My Oracle Support. In the interest of brevity, the full graphical user interface (GUI) instructions with examples are given for the installations on Microsoft Windows. When installing in GUI mode on the other platforms included here, the installation interface will be similar, so the instructions for the other platforms refer to the examples given for Microsoft Windows.

You can also carry out the IBM WebSphere installation in silent mode. Consult the IBM WebSphere installation documentation for information on silent mode installation.

Oracle supports 64-bit IBM WebSphere Application Server Network Deployment 7.0.0.7 (referred to as IBM WebSphere ND in this documentation) for PeopleSoft PeopleTools 8.51. The IBM WebSphere ND requires Java Runtime Environment (JRE) 1.6 SR6.

Note. The 64-bit version of IBM WebSphere Application Server is not supported on HP-UX PA-RISC; only HP-UX Itanium® supports 64-bit IBM WebSphere.

Note. If you plan to use BusinessObjects Enterprise XI Release 3.1, you will need IBM WebSphere 6.1.

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

See Also

Oracle E-Delivery, <http://edelivery.oracle.com>

Enterprise PeopleTools 8.51 Hardware and Software Requirements

My Oracle Support, Certifications

"Clustering and High Availability for Enterprise Tools 8.4x," My Oracle Support, (search for the article name and select the release)

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

"Installing and Configuring Software for Crystal Reports," Installing BusinessObjects Enterprise XI Release 3.1

Prerequisites

The full lists of prerequisites for IBM WebSphere Application Server Network Deployment 7.0.0.7 are available on the IBM website:

See <http://www-01.ibm.com/support/docview.wss?rs=180&uid=swg27006921>

If your operating system is not at the required IBM patch level or if it has later patches, a warning message will appear during the installation system check. Review patches with an administrator. Apply the required patches (if necessary) and continue with the installation.

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. This restriction has been put forth in order to avoid any security and manage profile creation issues.

IBM WebSphere ND can be installed either with root (Admin on Microsoft Windows) or non-root user ids. However, a non-root user is not capable of setting up Secure Socket Layer (SSL) on IBM WebSphere ND. A root user id is required to configure SSL on IBM WebSphere ND even though the install is done using non-root user id. It is important to remember that root user id is required only for configuration of SSL. For more information on the limitations of non-root user id, see the following information.

See http://publib.boulder.ibm.com/infocenter/wasinfo/v7r0/topic/com.ibm.websphere.installation.nd.doc/info/ae/ae/cins_nonroot.html

- 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 WebSphere and its components.

To set the appropriate privileges, right-click the installer and select Run as administrator. Do the same thing for the installation of IBM WebSphere, IBM HTTP Server, IBM Plugin, and the update installers.

- 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 8.51 supports the IBM HTTP Server (IHS) 7.0.0.7 that is bundled with the IBM WebSphere 7.0.0.7 installation. Use of an external remote proxy server (RPS) is optional.

The bundled versions of IHS are 64-bit for Solaris and HP-UX Itanium operating systems. For other operating systems, the bundled versions of IHS are 32-bit. For more information, see the IBM web site.

See "Fast facts: Should you install a 32-bit or 64-bit fix pack on IBM HTTP Server V7.0?" IBM support web site, http://www-01.ibm.com/support/docview.wss?rs=177&context=SSEQTJ&q1=IHS+v7+64-bit&uid=swg21397054&loc=en_US&cs=utf-8&lang=en

See "Details concerning whether IBM HTTP Server V7.0 is 32-bit or 64-bit, and whether it should be updated with a 32-bit or 64-bit fix pack" IBM support web site, <http://www-01.ibm.com/support/docview.wss?rs=180&uid=swg21396916>

Task 2-2-1: Obtaining IBM WebSphere Installation Files from Oracle E-Delivery

You can obtain the files needed to install IBM WebSphere ND for PeopleSoft PeopleTools 8.51 from the Oracle E-Delivery site. At this point you should have already downloaded the necessary files. This section includes additional information on finding and using the files for IBM WebSphere ND if necessary.

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

See "Preparing for Installation," Using Oracle E-Delivery to Obtain Installation Files.

1. After logging in to Oracle E-Delivery, 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 PeopleSoft Enterprise - PeopleTools 8.51 Media Pack and click Continue.
3. Find the necessary files from the list, and click Download.

Save the zip file to a temporary directory on your local system, referred to in this documentation as *WAS_INSTALL*.

The distribution is provided as operating-system-specific zip files. Download and extract the appropriate zip files for your operating system, as described in the following sections. The IBM WebSphere ND 7.0.0.7 images available for use with PeopleSoft PeopleTools 8.51 are 64-bit binaries.

See Also

IBM WebSphere system requirements on IBM web site, <http://www-01.ibm.com/support/docview.wss?rs=180&uid=swg27006921>

Task 2-2-2: Installing IBM WebSphere 7.0.0.7 ND on Microsoft Windows

This section discusses:

- Extracting the Installation Files for Microsoft Windows
- Installing the 32-bit Update Installer on Microsoft Windows
- Installing the 64-bit Update Installer on Microsoft Windows
- Installing IBM WebSphere Application Server on Microsoft Windows

Extracting the Installation Files for Microsoft Windows

This section assumes that you have downloaded the zip files for installing IBM WebSphere ND into *WAS_INSTALL*. Use your zip utility to extract the files. This table lists the files and gives a brief description:

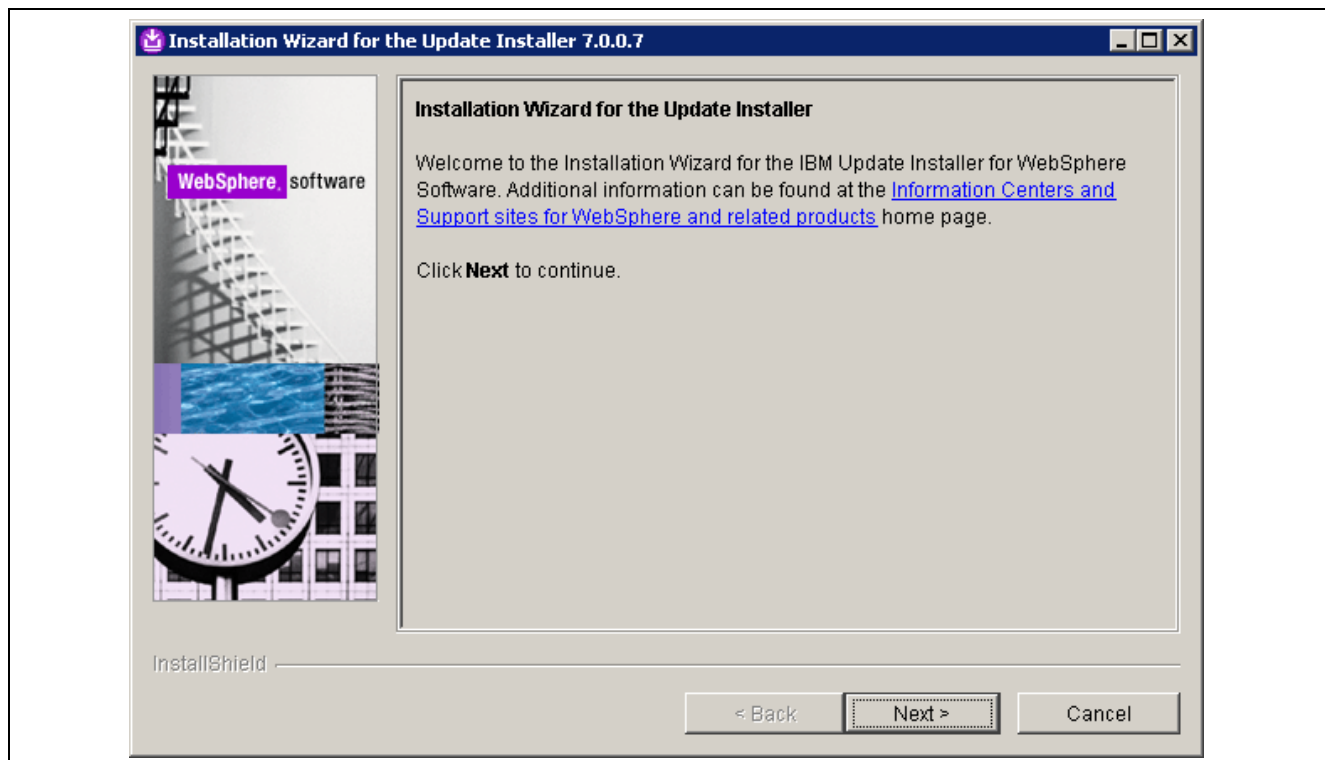
Note. The extracted files are organized into folders. The exact folder structure you see may be different from that described in this documentation.

File or Folder Name	Description
C1G2JML.zip	IBM WebSphere Application Server Network Deployment V7 for Windows x86-64 bit
C1G2KML.zip	Supplements, such as Application Client, IBM HTTP Server, Web Server Plug-ins and Update Installer
UpdateInstaller-7.0.0.7\7.0.0.7-WS-UPDI-WinAMD64.zip	Binaries for installation and uninstallation of UpdateInstaller 7.0.0.7
32-bit_UpdateInstaller-7.0.0.7\7.0.0.7-WS-UPDI-WinIA32.zip	Binaries for installation and uninstallation of 32-bit UpdateInstaller 7.0.0.7
FixPacks7.0.0.7	Fix Packs required for upgrading IBM WebSphere ND, IHS and Plugin to 7.0.0.7

Installing the 32-bit Update Installer on Microsoft Windows

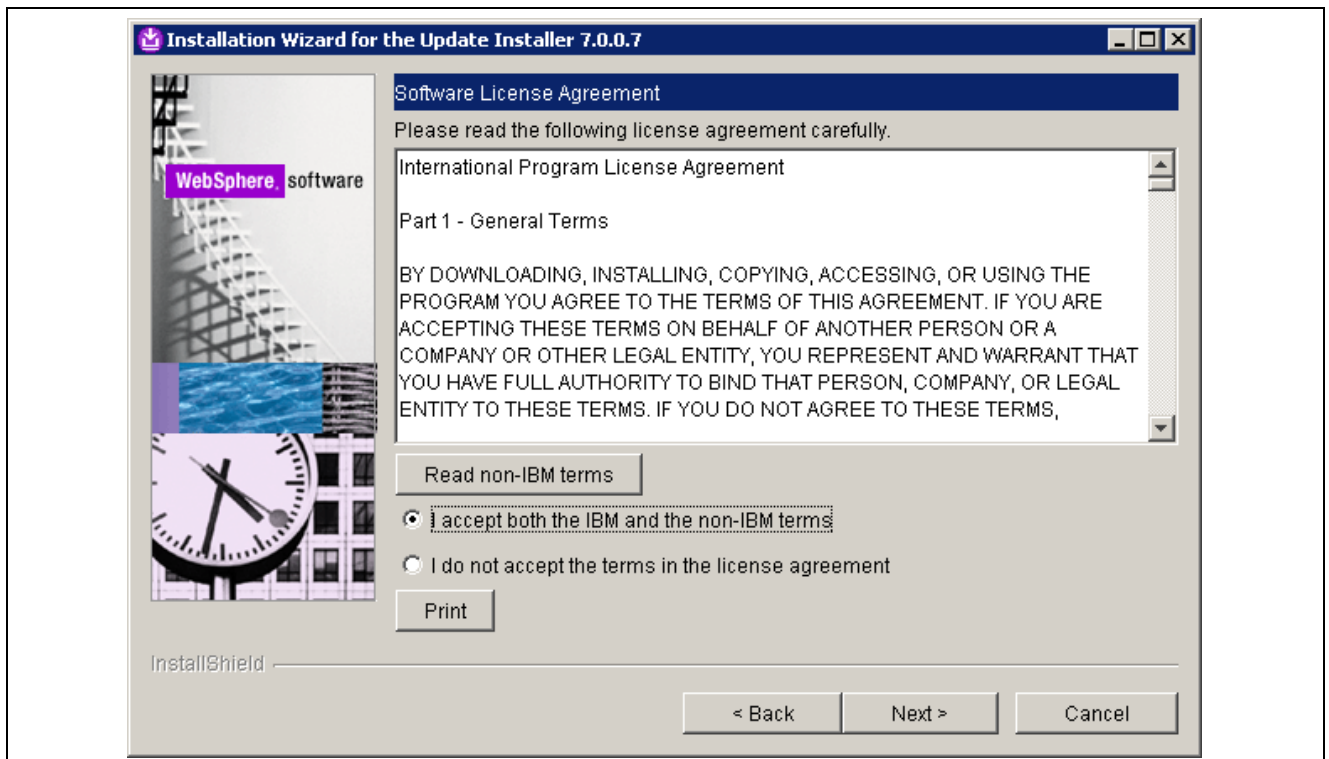
The 32-bit Update Installer for IBM WebSphere Software is used to upgrade the JDK of IHS 7.0.0.7. To install the 32-bit update installer:

1. Run `WAS_INSTALL\32-bit_UpdateInstaller-7.0.0.7\7.0.0.7-WS-UPDI-WinIA32\UpdateInstaller\install.exe`
2. Click Next on the welcome window.



Installation Wizard for the Update Installer welcome window

3. Read the license agreement and select the option to accept the IBM and non-IBM terms.
Click Next to continue.



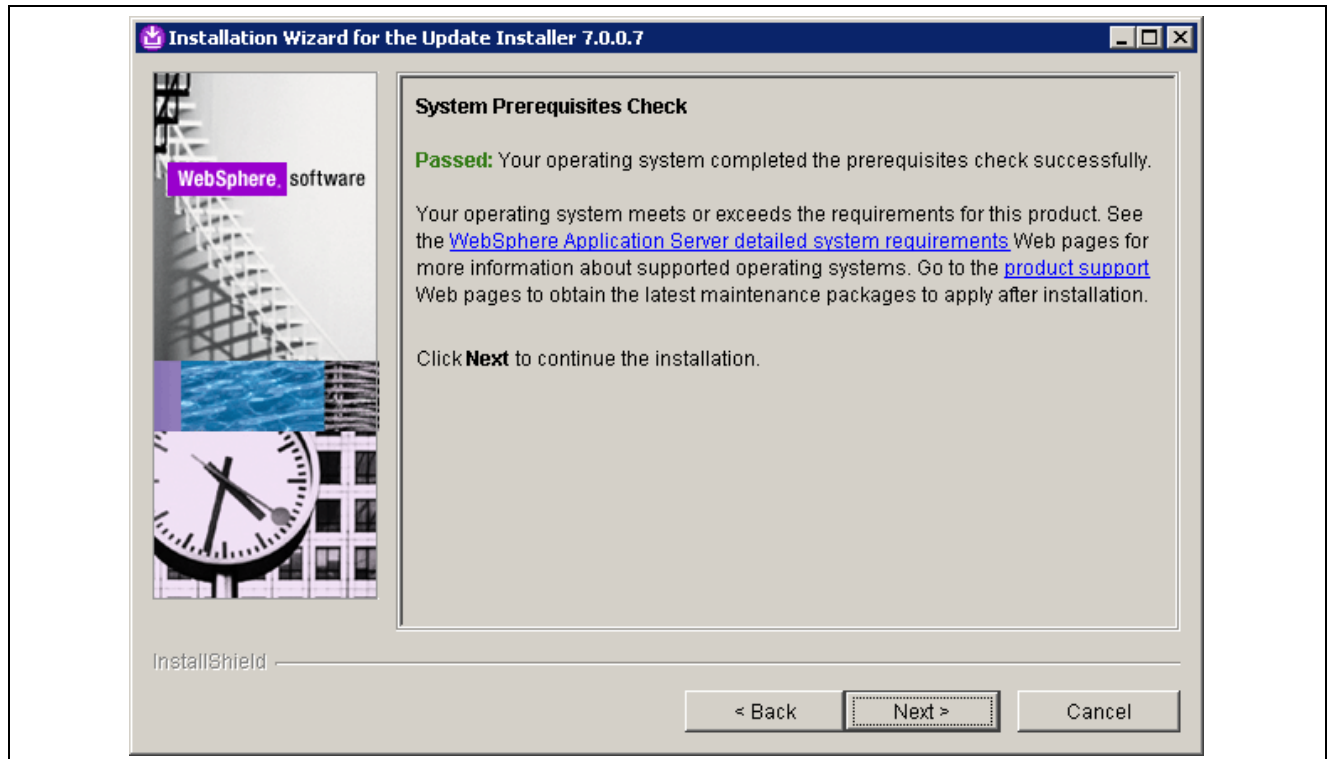
Update Installer Software License Agreement window

4. The installation wizard performs a systems prerequisites check.

In this example the system displays a “Passed” message. If your operating system is not at the required patch level, you may see a warning message, but will be allowed to proceed with the installation.

See Prerequisites.

Click Next to continue.

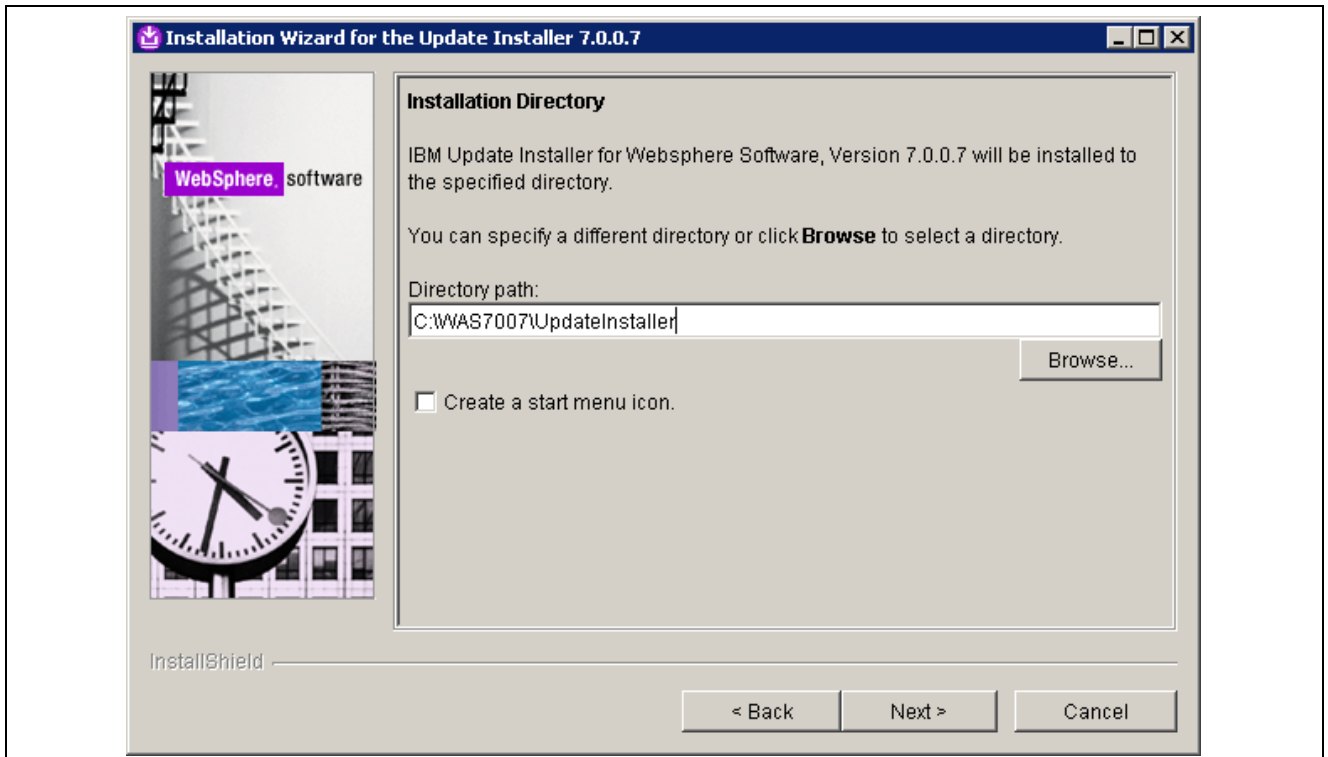


Update Installer System Prerequisites Check window

5. Specify a convenient directory to install the 32-bit update installer, *32bit_UPDATEINSTALLER_HOME*, and then click Next.

The default location on Microsoft Windows is C:\Program Files (x86)\IBM\WebSphere\UpdateInstaller. In this example the installation directory is C:\WAS7007\UpdateInstaller.

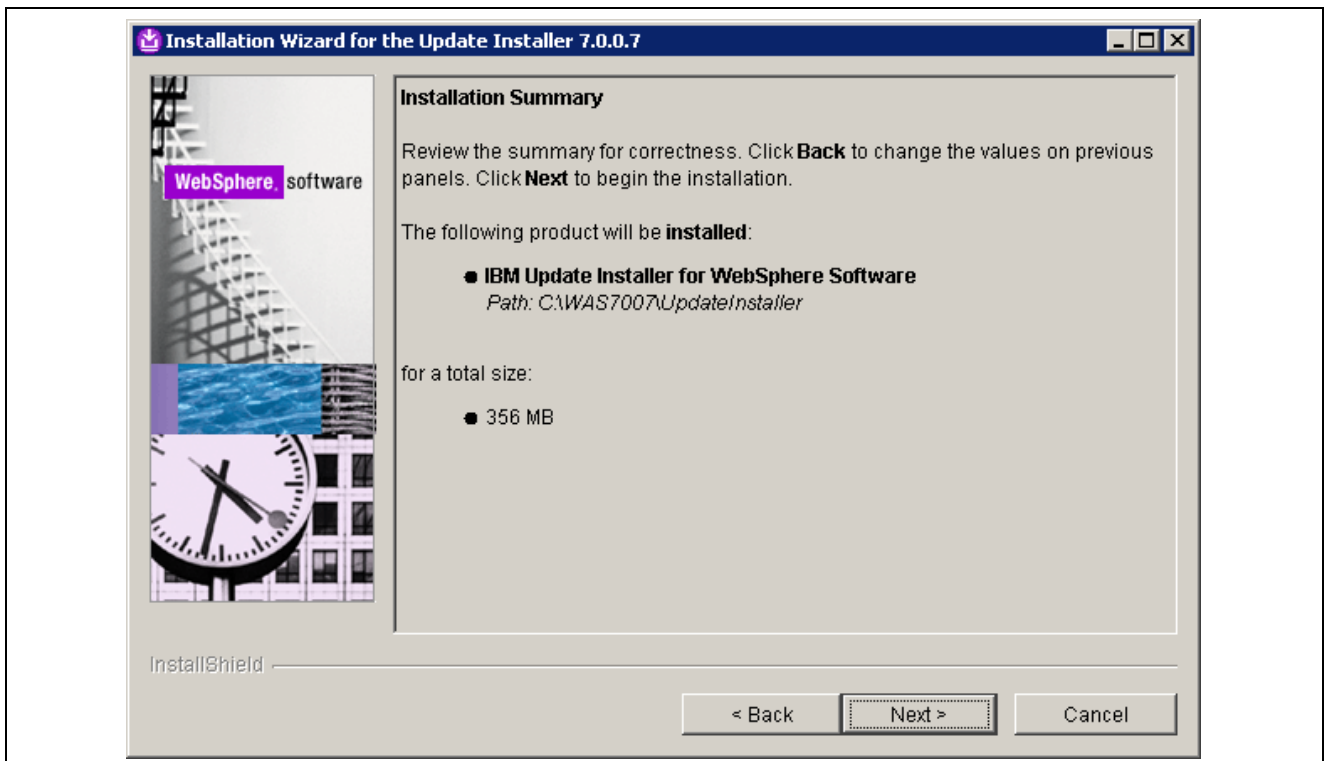
Note. You can select any directory; the update installer does not need to be installed to the same location as the IBM WebSphere files.



Update Installer Installation Directory window

6. Review the installation summary and click Next.

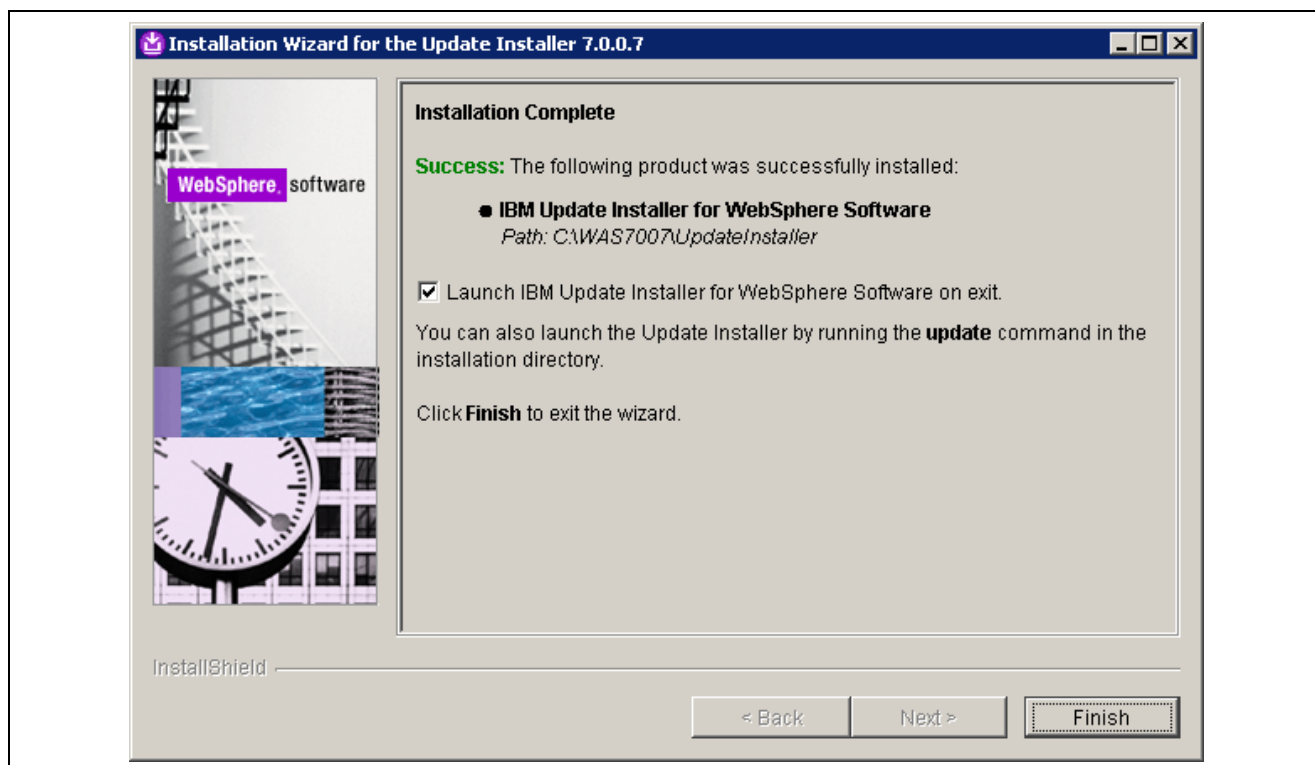
The summary includes the product name and installation size. Click Back to make any changes.



Update Installer Installation Summary window

7. On the Installation Complete window, clear the option Launch IBM Update Installer for WebSphere Software on exit, and then click Finish.

You will use the update installer in a later step.

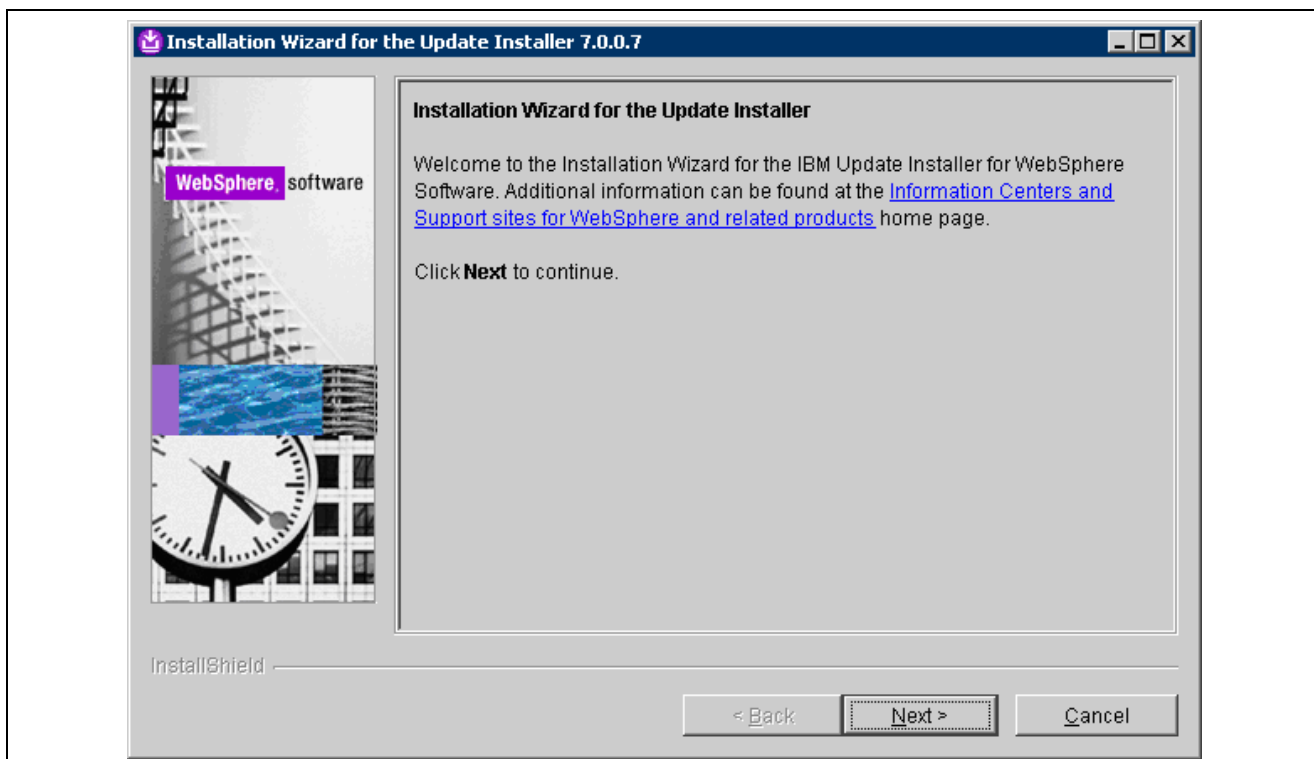


Update Installer Installation Complete window

Installing the 64-bit Update Installer on Microsoft Windows

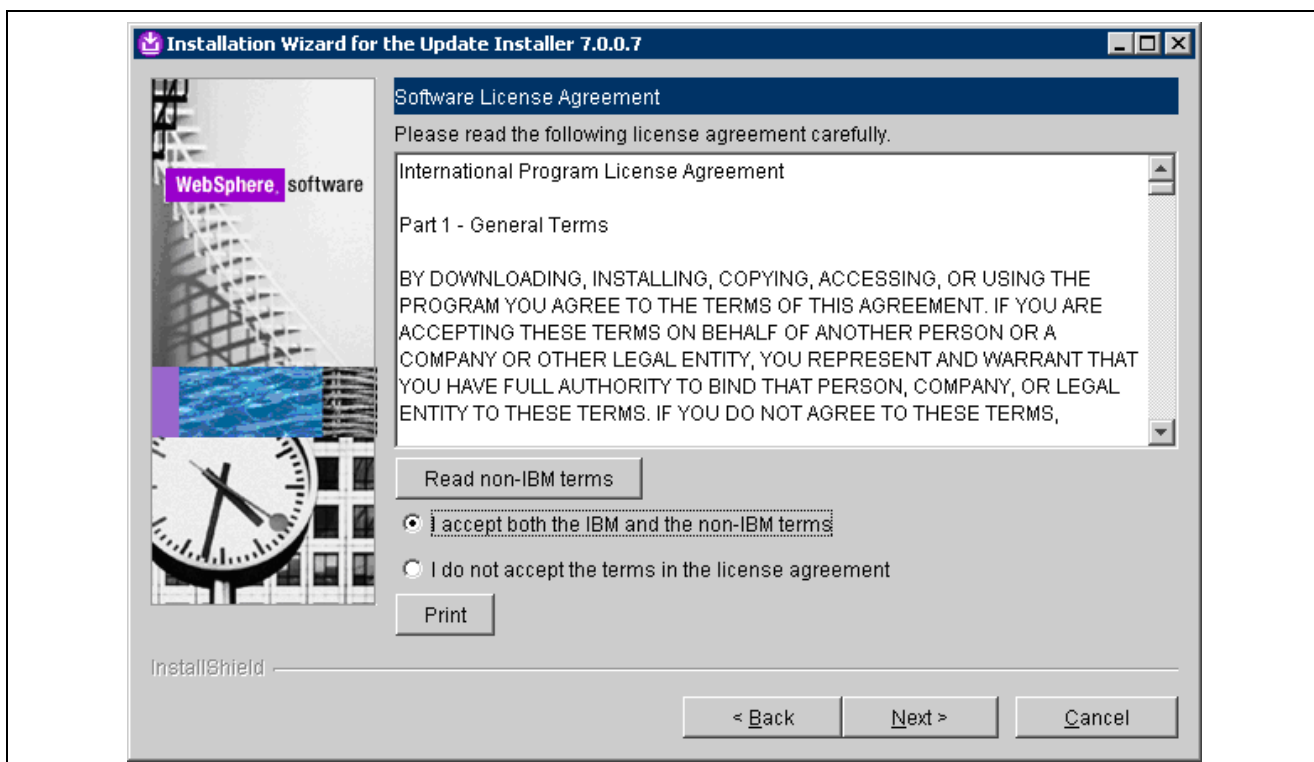
The 64-bit Update Installer for IBM WebSphere Software is used to upgrade IBM WebSphere 7.0, IHS 7.0, and the IBM WebSphere Plug-in 7.0 to 7.0.0.7. To install the 64-bit update installer:

1. Run `WAS_INSTALL\UpdateInstaller-7.0.0.7\7.0.0.7-WS-UPDI-WinAMD64\UpdateInstaller\install.exe`.
2. Click Next on the welcome window.



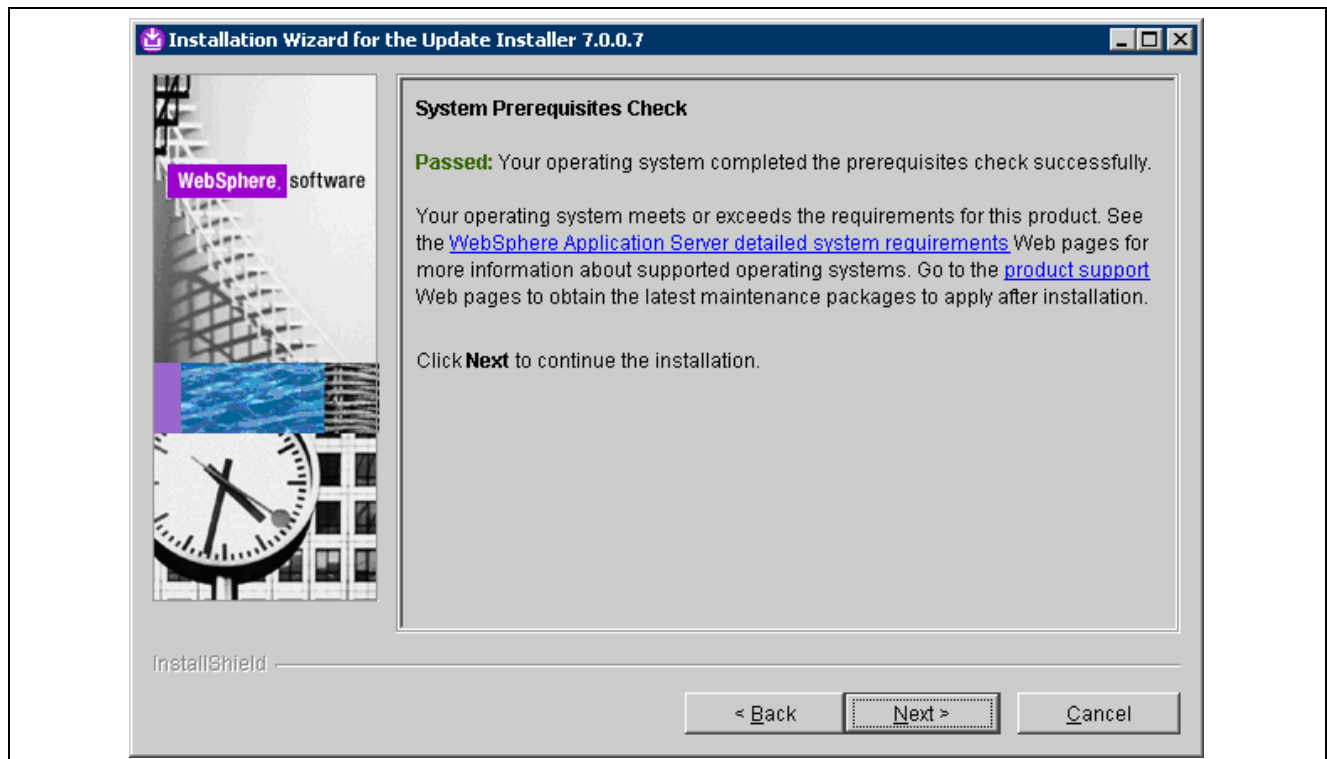
Installation Wizard for the 64-bit Update Installer welcome window

3. Read the license agreement, select the option to accept the IBM and non-IBM terms, and then click Next.



Installation Wizard for the 64-bit Update Installer license agreement window

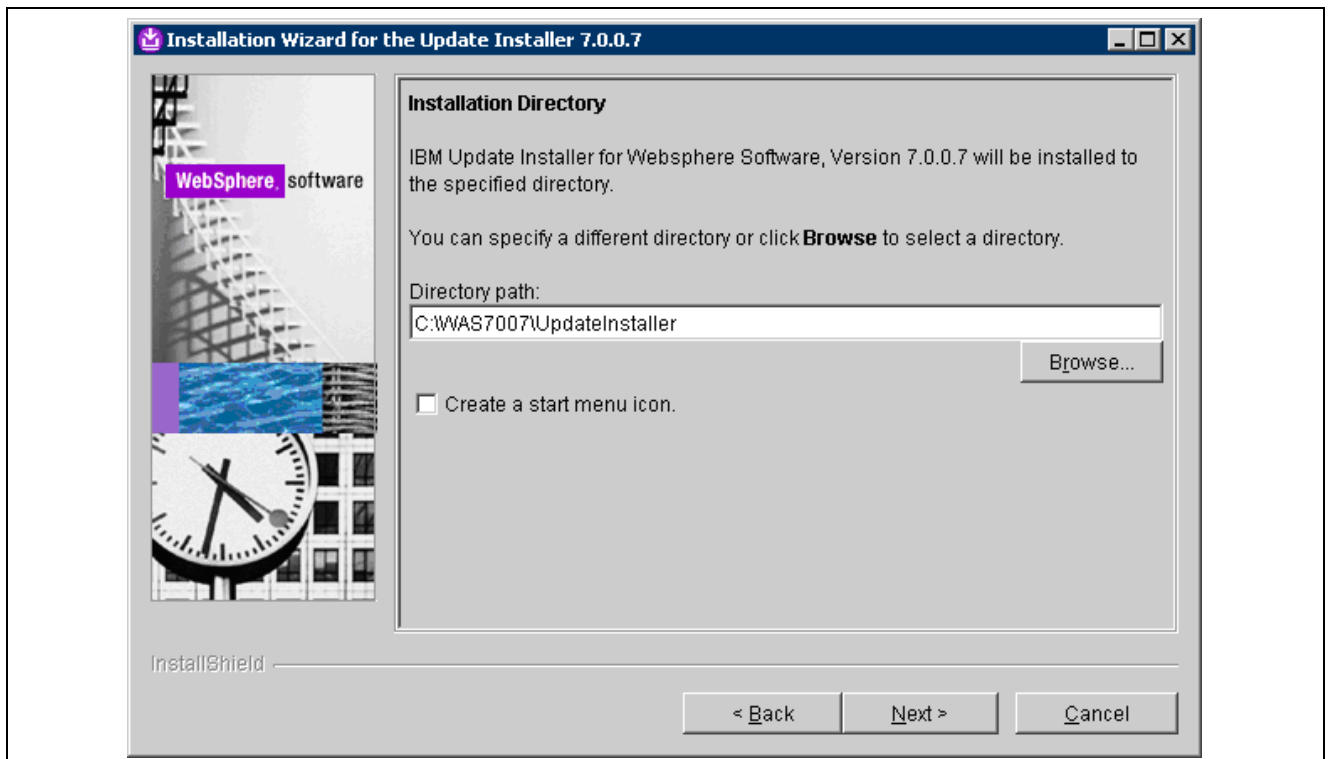
4. Click Next on the System Prerequisites Check window.



Installation Wizard for the 64-bit Update Installer System Prerequisites Check window

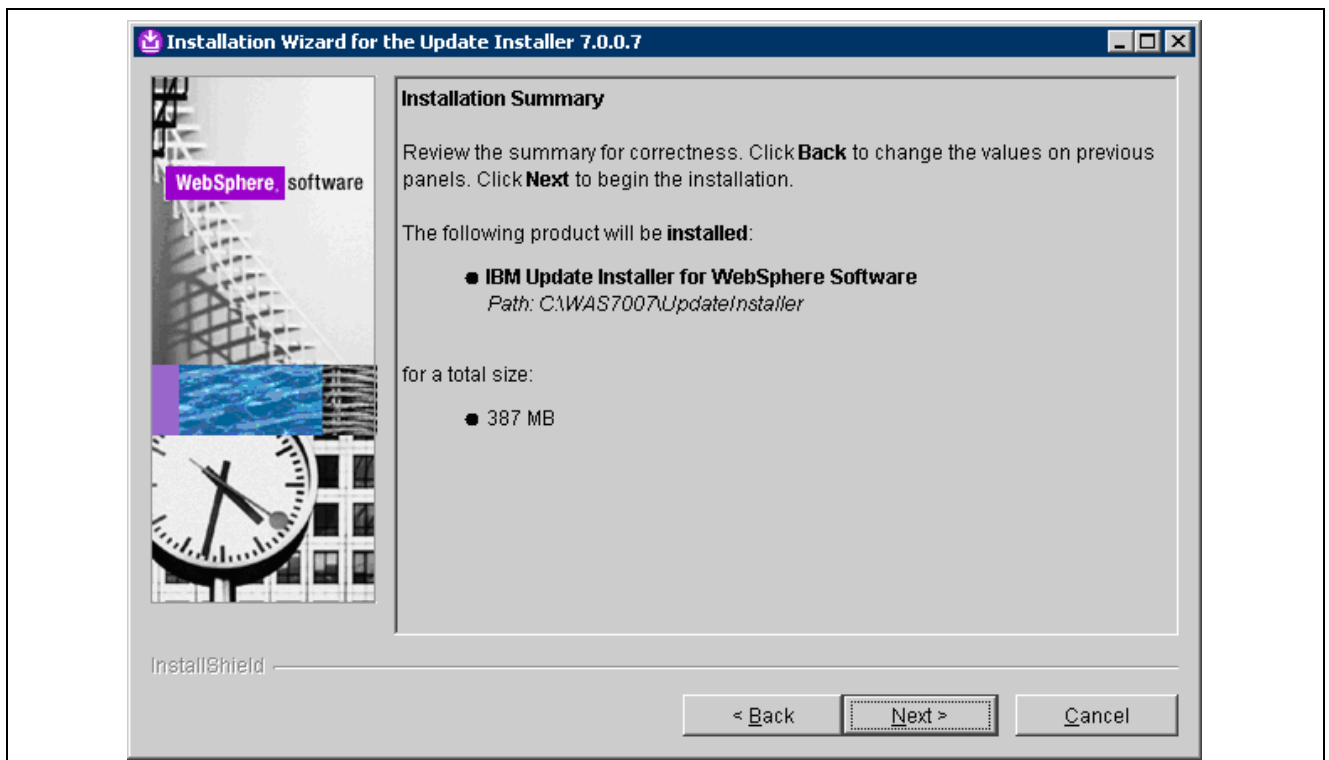
5. Specify a convenient directory to install the 64-bit update installer, *64bit_UPDATEINSTALLER_HOME*, and then click Next.

Note. You can select any directory; the update installer does not need to be installed to the same location as the IBM WebSphere files.



Installation Wizard for the 64-bit Update Installer Installation Directory window

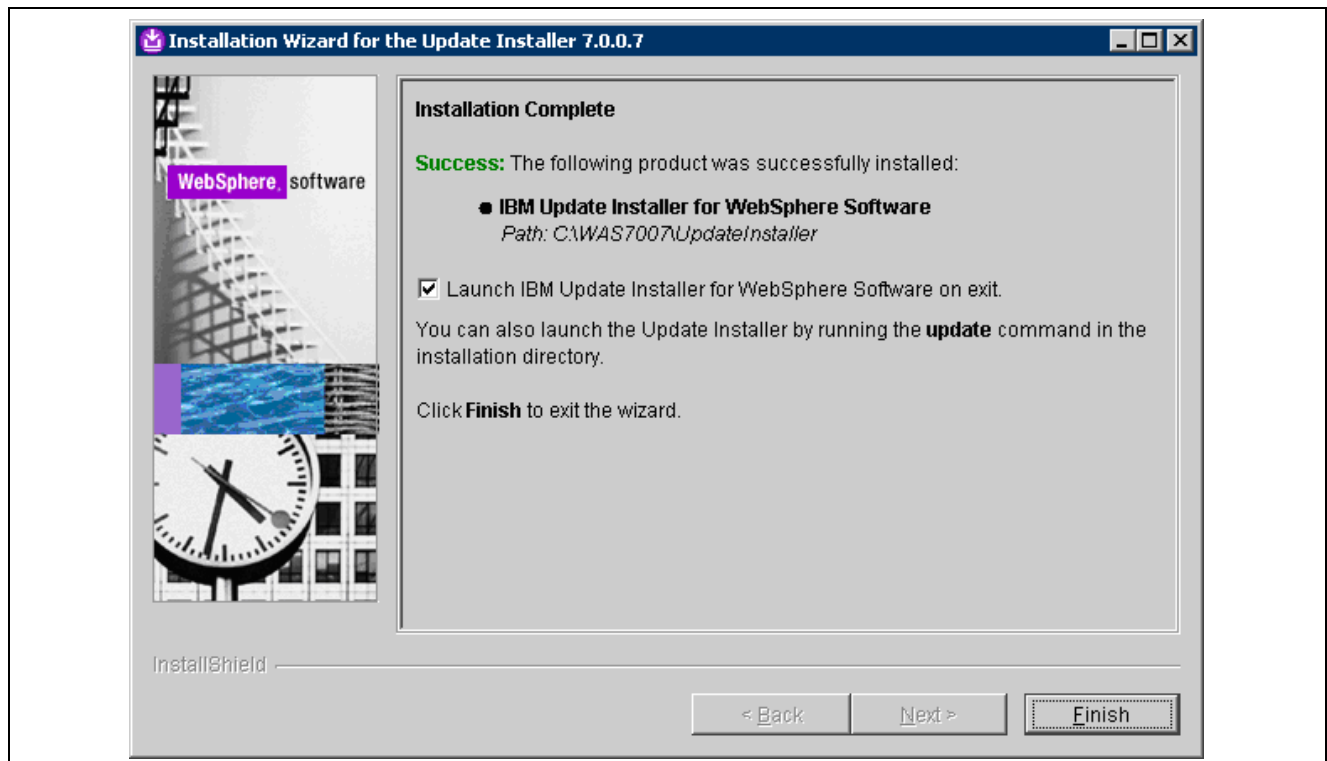
6. Review the installation summary and click Next.



Installation Wizard for the 64-bit Update Installer Installation Summary window

7. Clear the option Launch IBM Update Installer for WebSphere Software on exit, and then click Finish.

You will use the update installer in a later step.



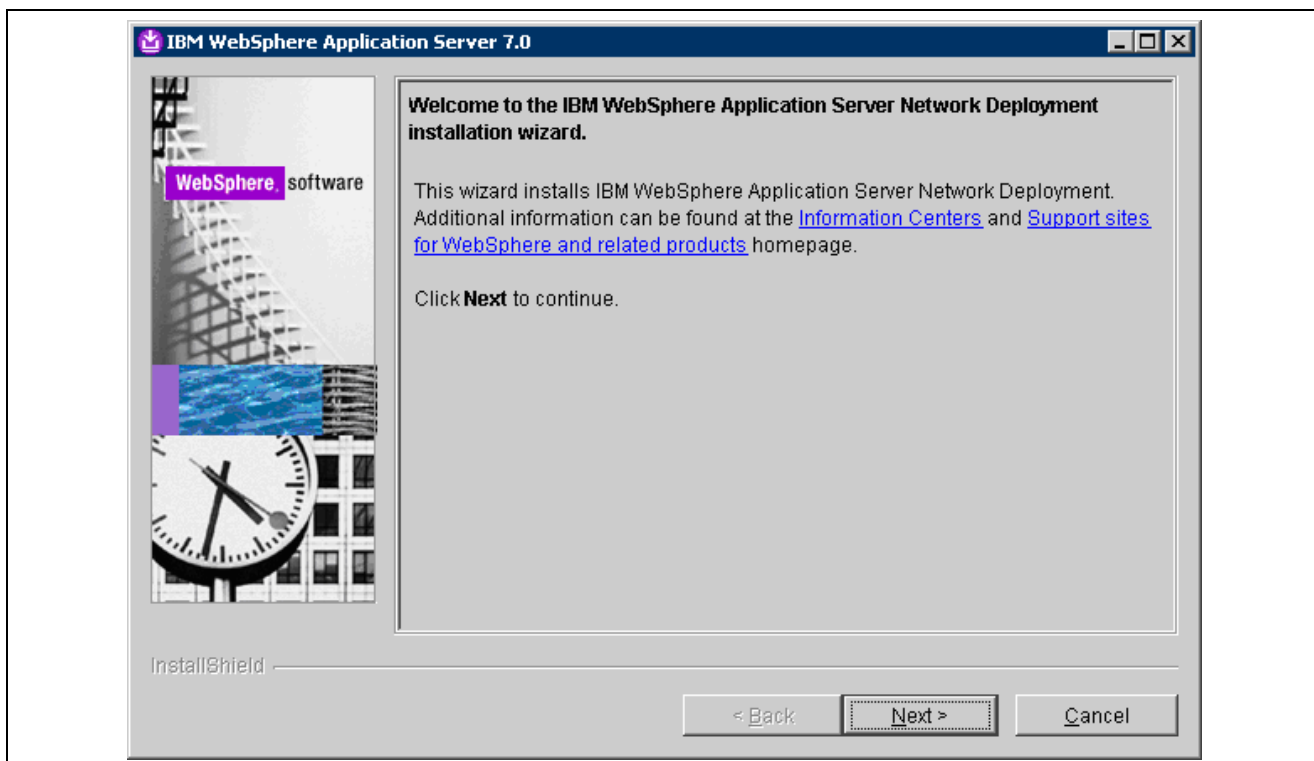
Installation Wizard for the 64-bit Update Installer Installation Complete window

Installing IBM WebSphere Application Server on Microsoft Windows

To install, update, and apply necessary fix packs for IBM WebSphere ND:

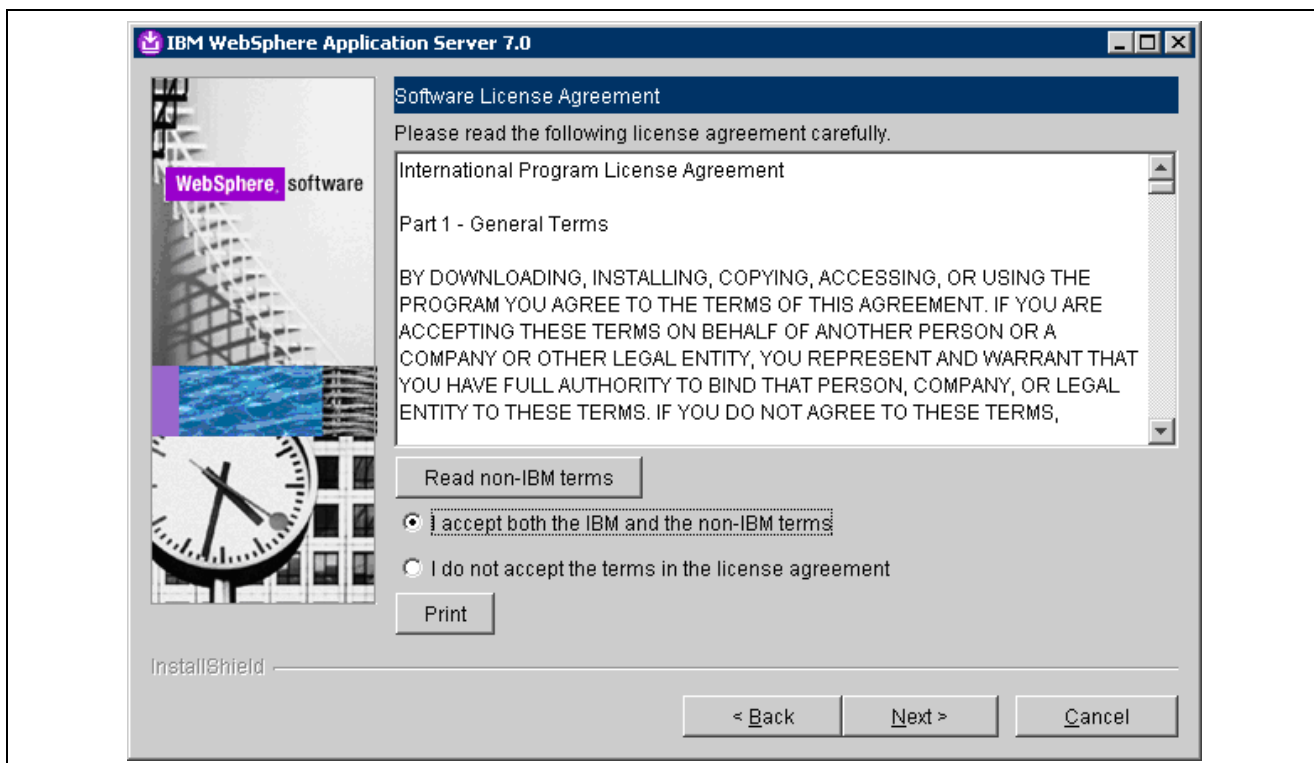
1. Run `WAS_INSTALL\C1G2JML\WAS\install.exe`.

The Welcome window appears.



IBM WebSphere Application Server welcome window

2. Click Next to continue.
Read the license agreement.

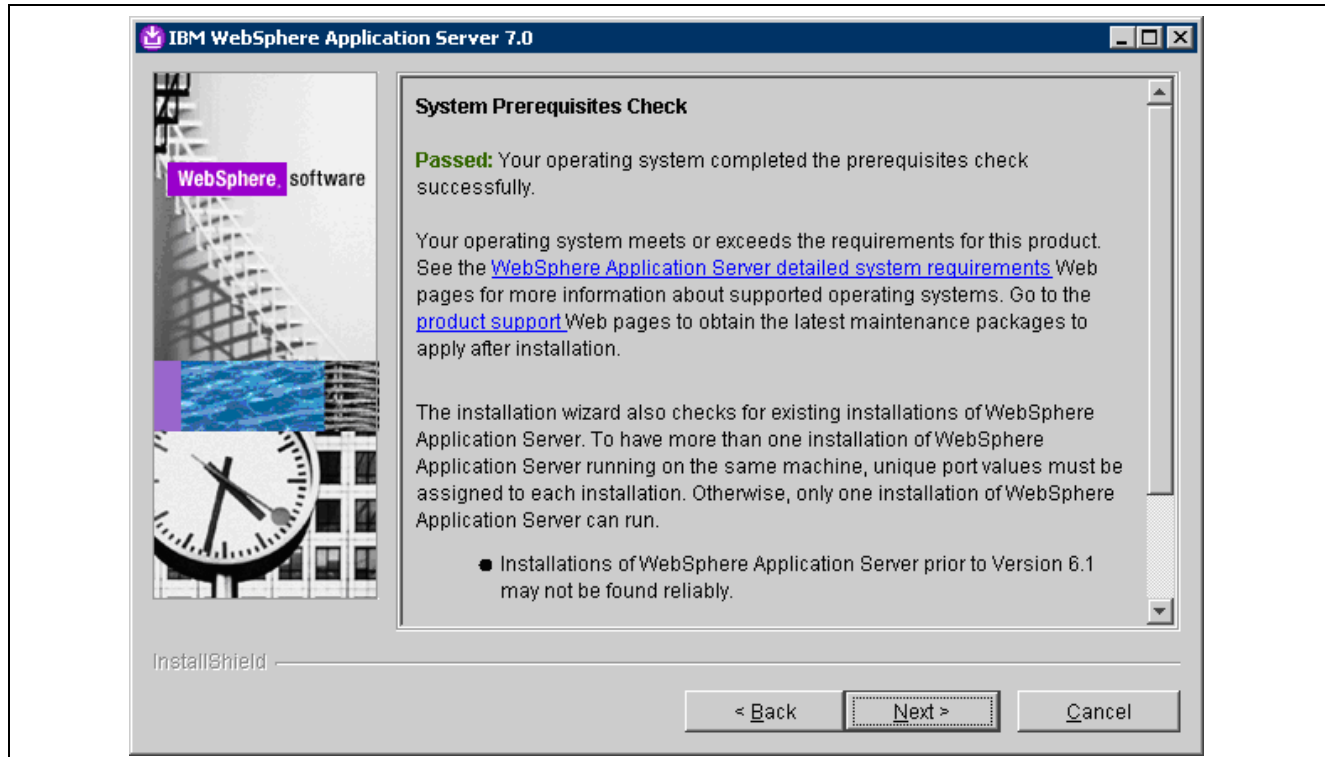


IBM WebSphere Application Server Software License Agreement window

3. Select the option to accept both the IBM and non-IBM terms, and then click Next.

In this example the system displays a “Passed” message. If your operating system is not at the required patch level, you may see a warning message, but will be allowed to proceed with the installation.

See Prerequisites.



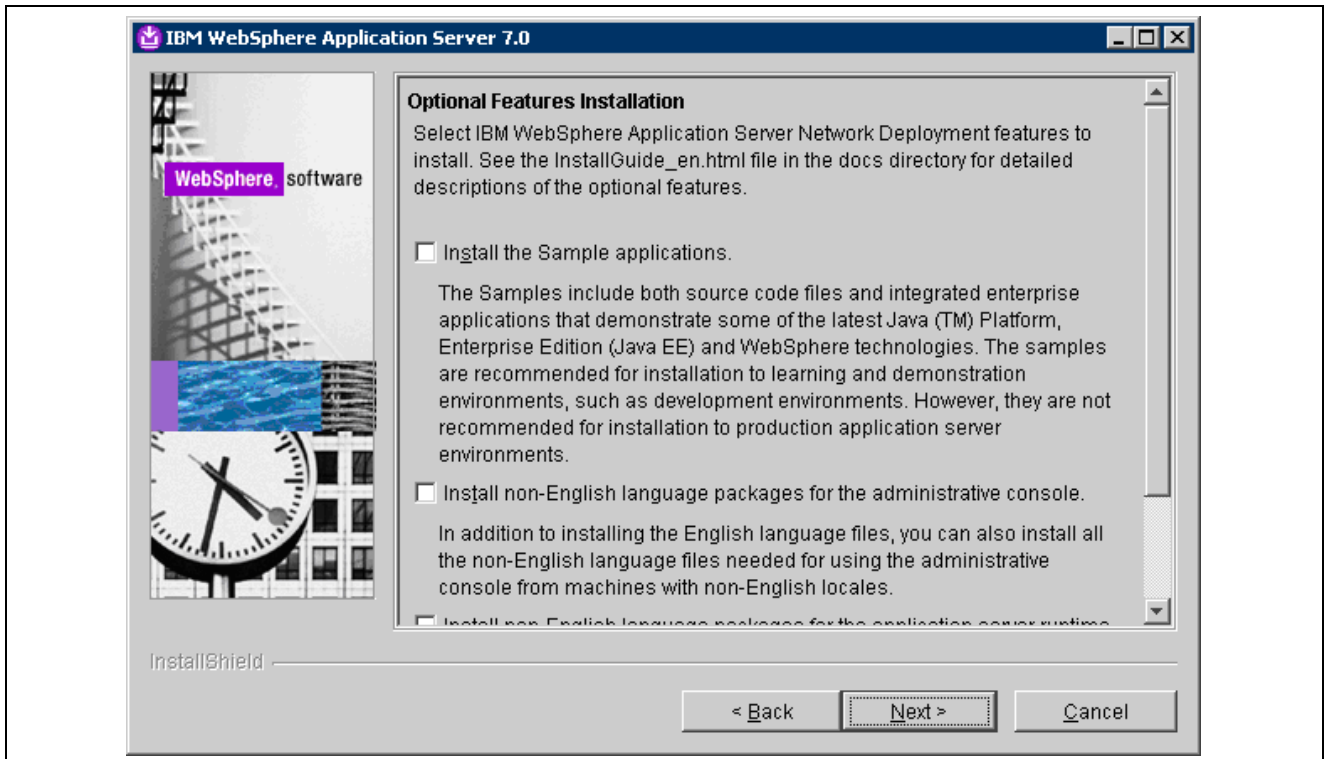
System Prerequisites Check with passed message

4. If you are running as a non-Administrator (Microsoft Windows) or non-Root (UNIX or Linux) user, you get a warning message about the installation actions of IBM WebSphere that cannot run in the non-Administrator or non-Root mode.

You may accept this message and click Next to continue.

5. Select any option features you want to install.

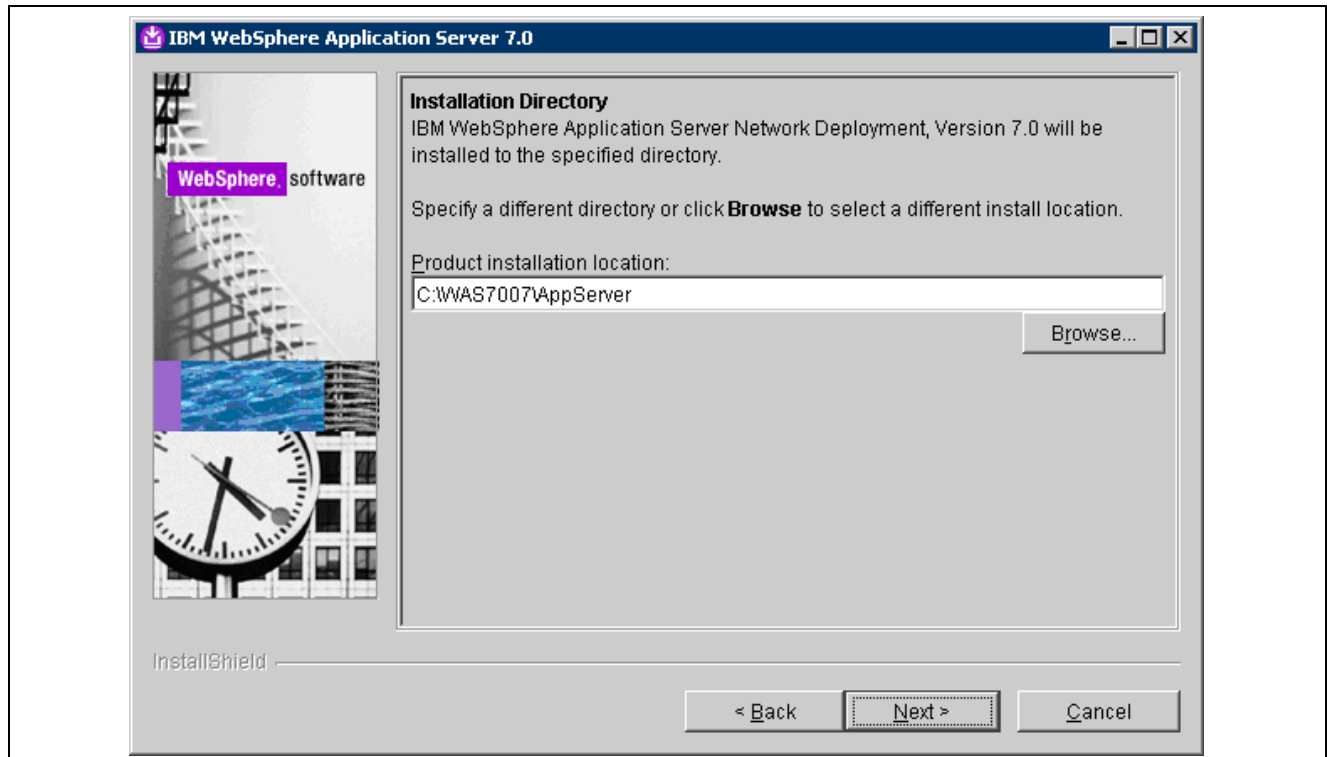
Note. Features such as non-English language packs for the administrative console are needed only for machines whose default locale is not in English language.



Optional Features Installation window

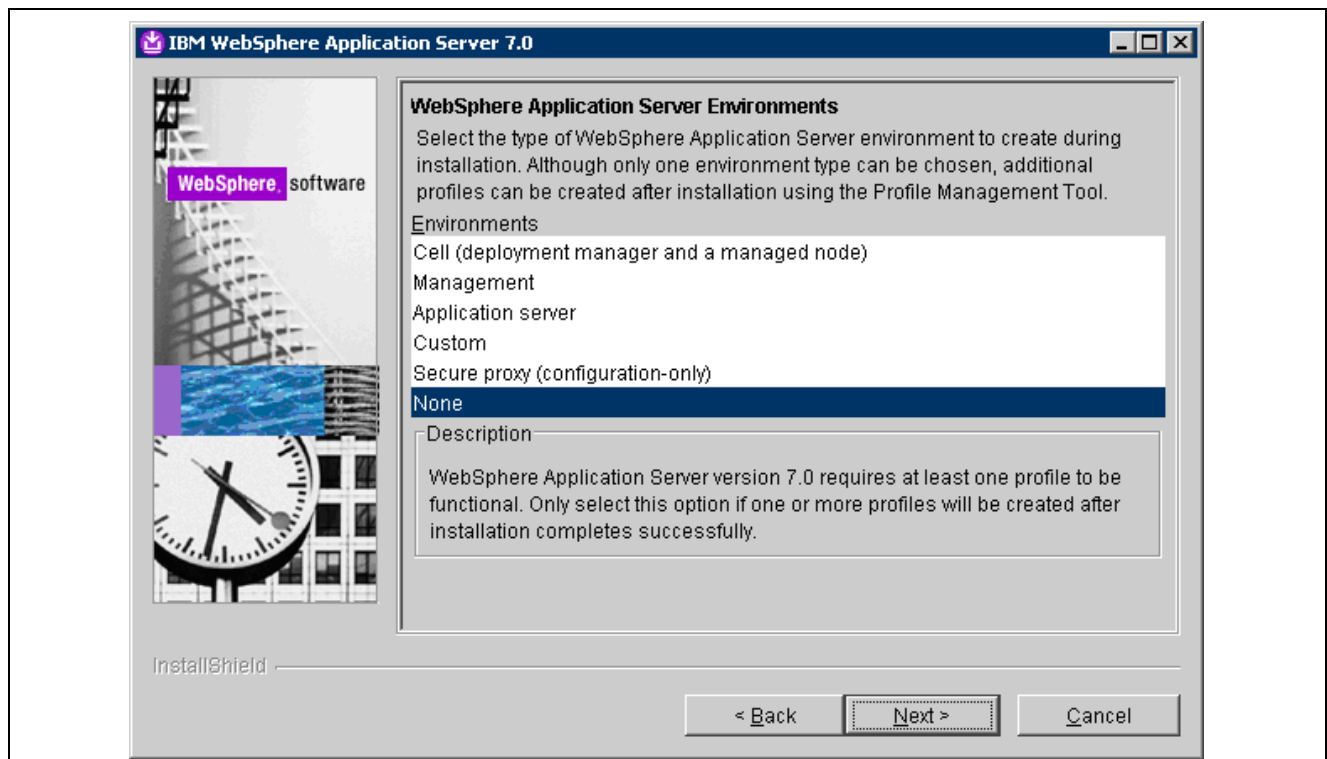
The features in this example include:

- Install the Sample applications
 - Install non-English language packages for the administrative console
 - Install non-English language packages for the application server runtime environment
6. Specify the location where you want to install IBM WebSphere ND, referred to in this documentation as *WAS_HOME*.
The default installation directory on Microsoft Windows is C:\Program Files\IBM\WebSphere\AppServer. In this example, *WAS_HOME* is C:\WAS7007\AppServer.



Installation Directory window

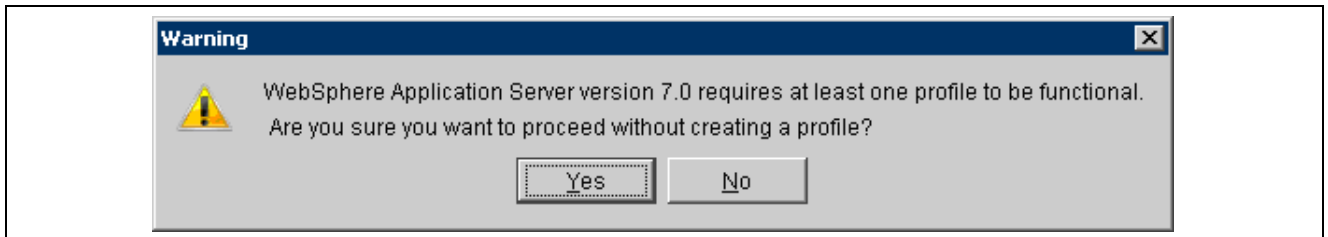
7. Select *None* from the list of environments on the WebSphere Application Server Environment window and click Next.



WebSphere Application Server Environments window

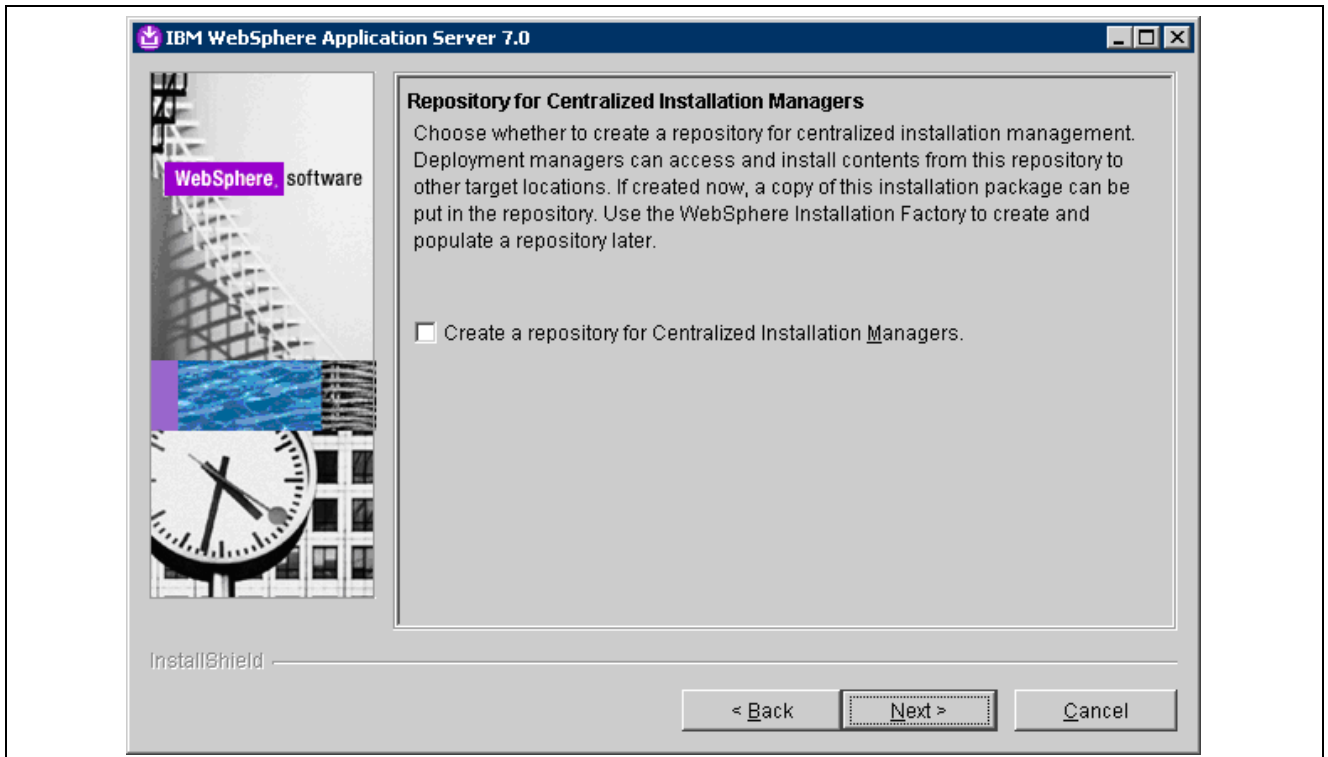
8. A warning appears with the message that IBM WebSphere requires at least one profile to be functional.

Click Yes to continue.



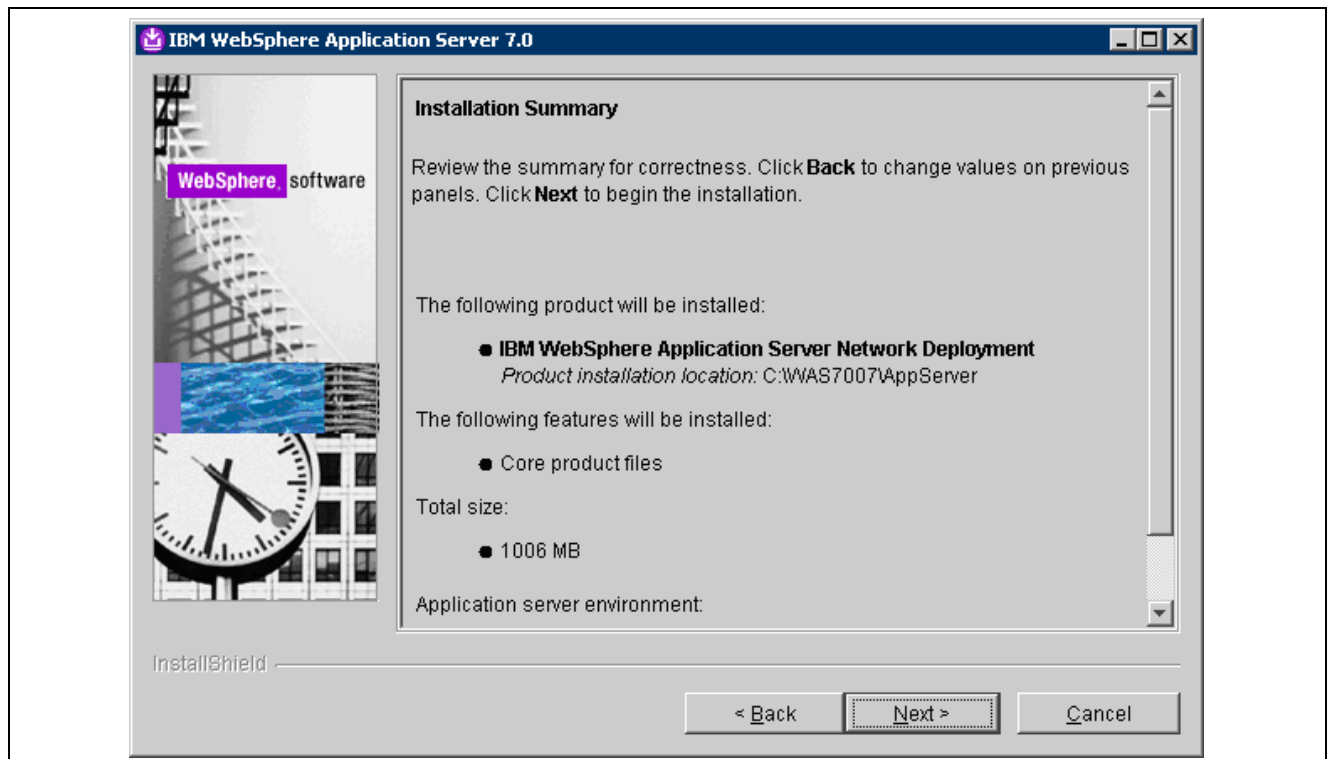
Warning message

9. Clear the option to create a repository for Centralized Installation Managers and click Next.



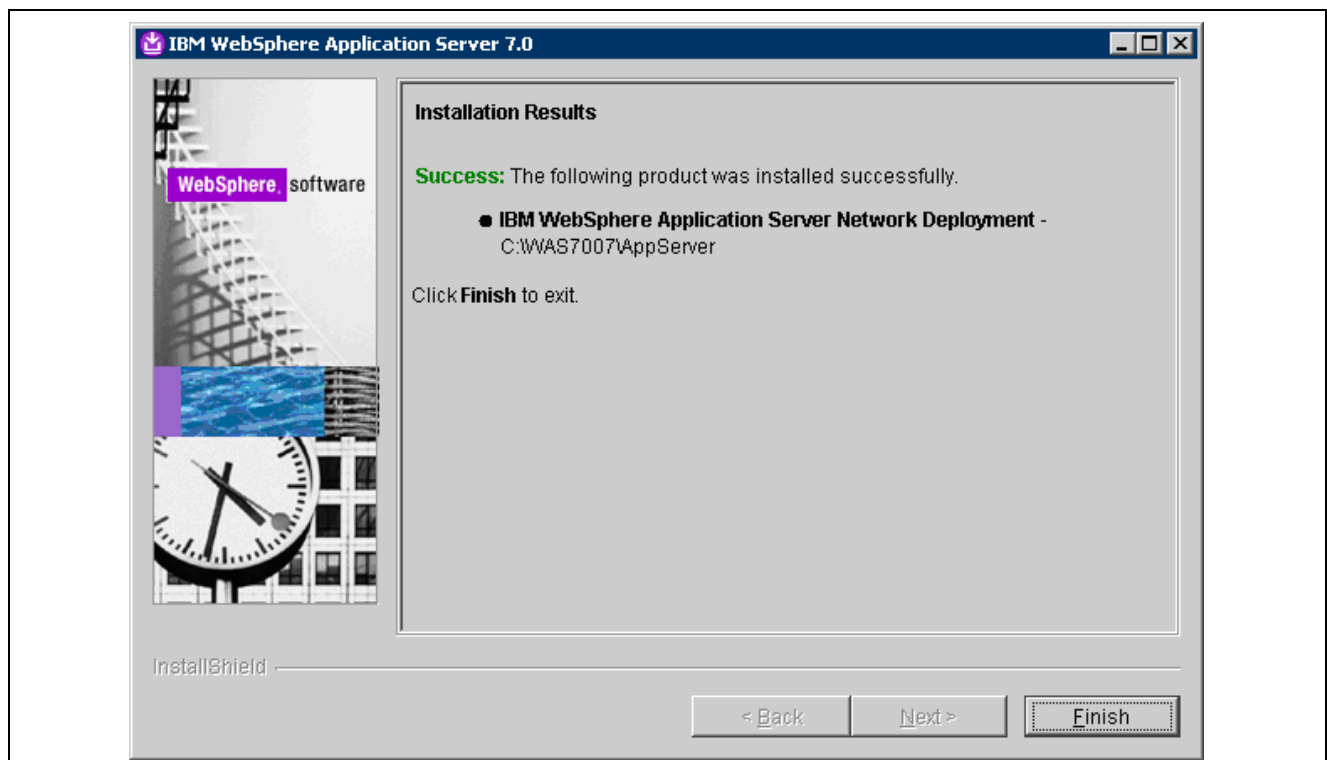
Repository for Centralized Installation Managers window

10. Review the summary information and click Next to proceed with the installation.
If you need to make any changes before proceeding, click Back.



Installation Summary window

11. Click Finish on the Installation Results window.



Installation Results window

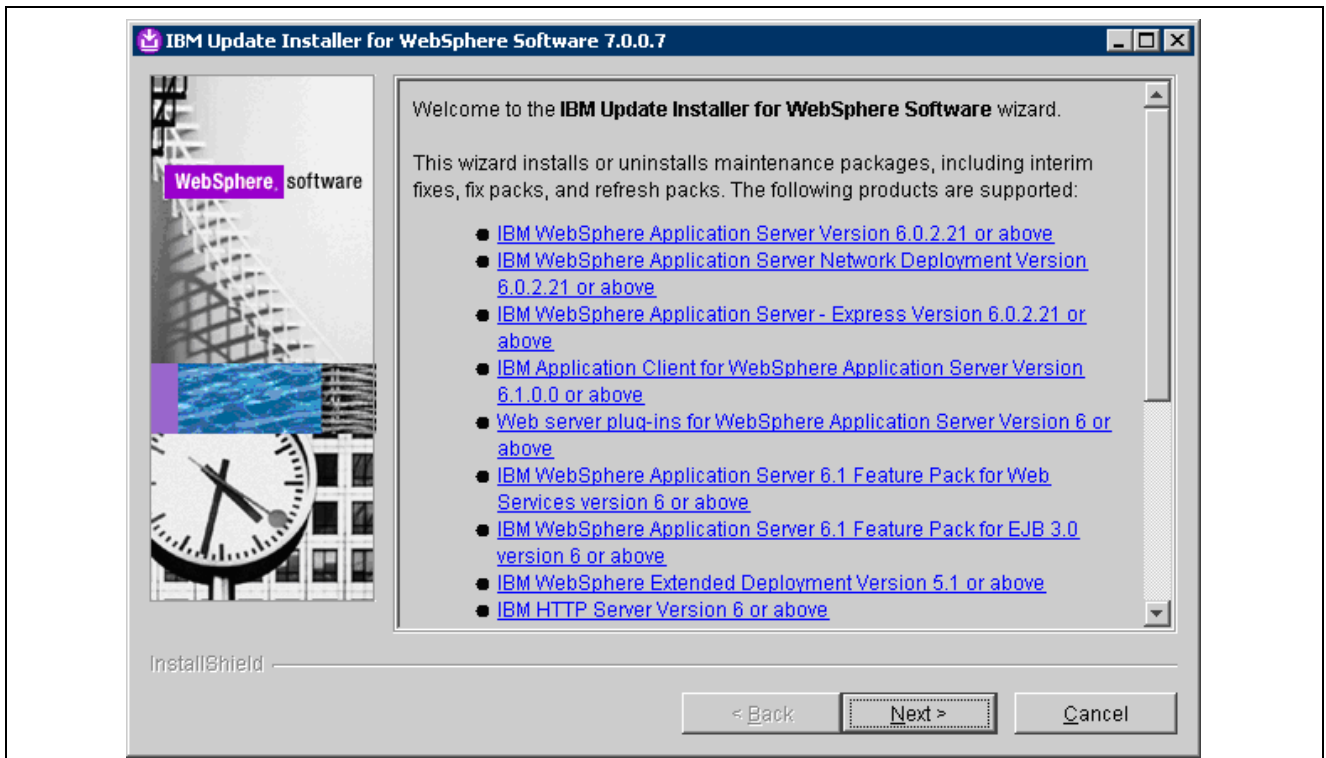
12. Copy these fix pack files from `WAS_INSTALL\FixPacks-7.0.0.7` to `64bit_UPDATEINSTALLER_HOME\maintenance` folder.

- 7.0.0-WS-WAS-WinX64-FP0000007.pak
- 7.0.0-WS-WASSDK-WinX64-FP0000007.pak

13. Run `64bit_UPDATEINSTALLER_HOME\update.bat`.

14. Click Next on the Welcome to the IBM Update Installer for WebSphere Software wizard window.

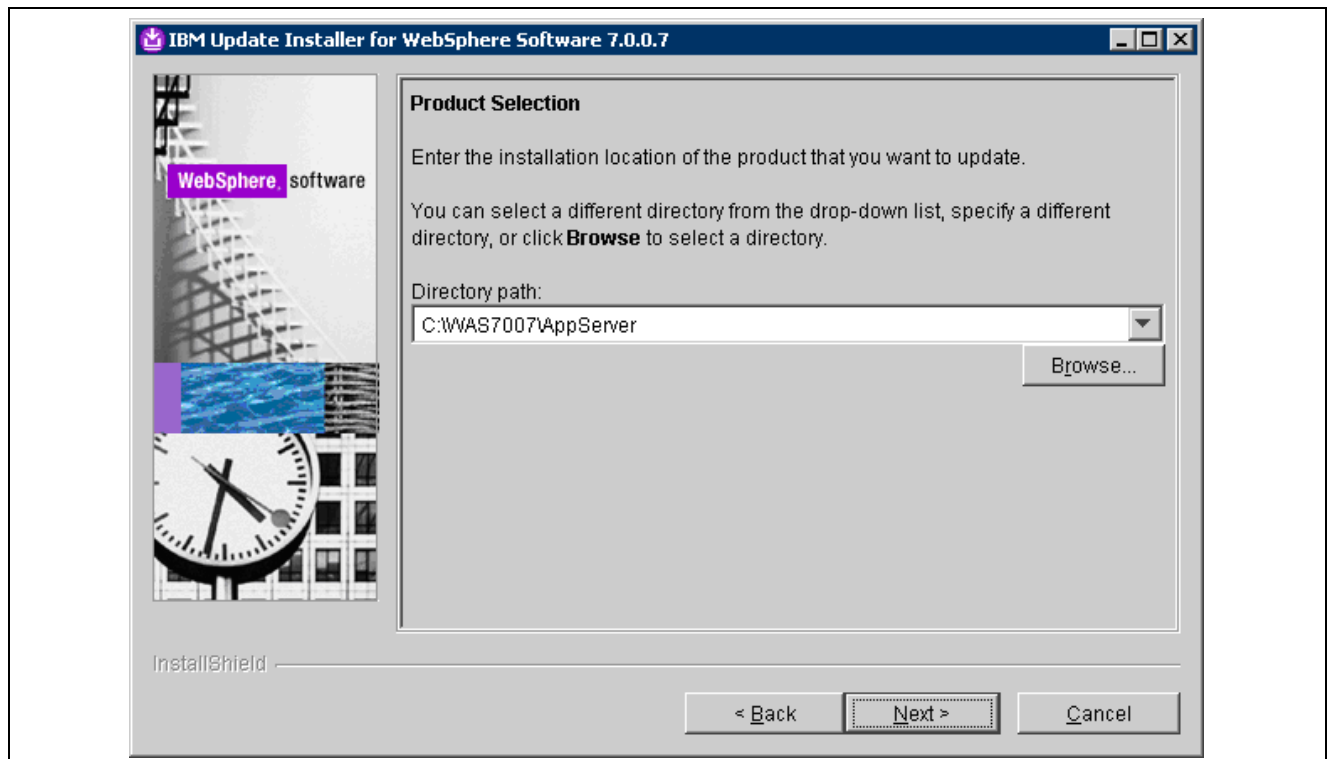
Note. Scroll to the bottom of this window for the following warning: “Before installing or uninstalling maintenance, stop all WebSphere and related processes, and read the Update Installer readme. Also ensure that you are using the latest version of the Update Installer program.”



Welcome to the IBM Update Installer for WebSphere Software wizard window

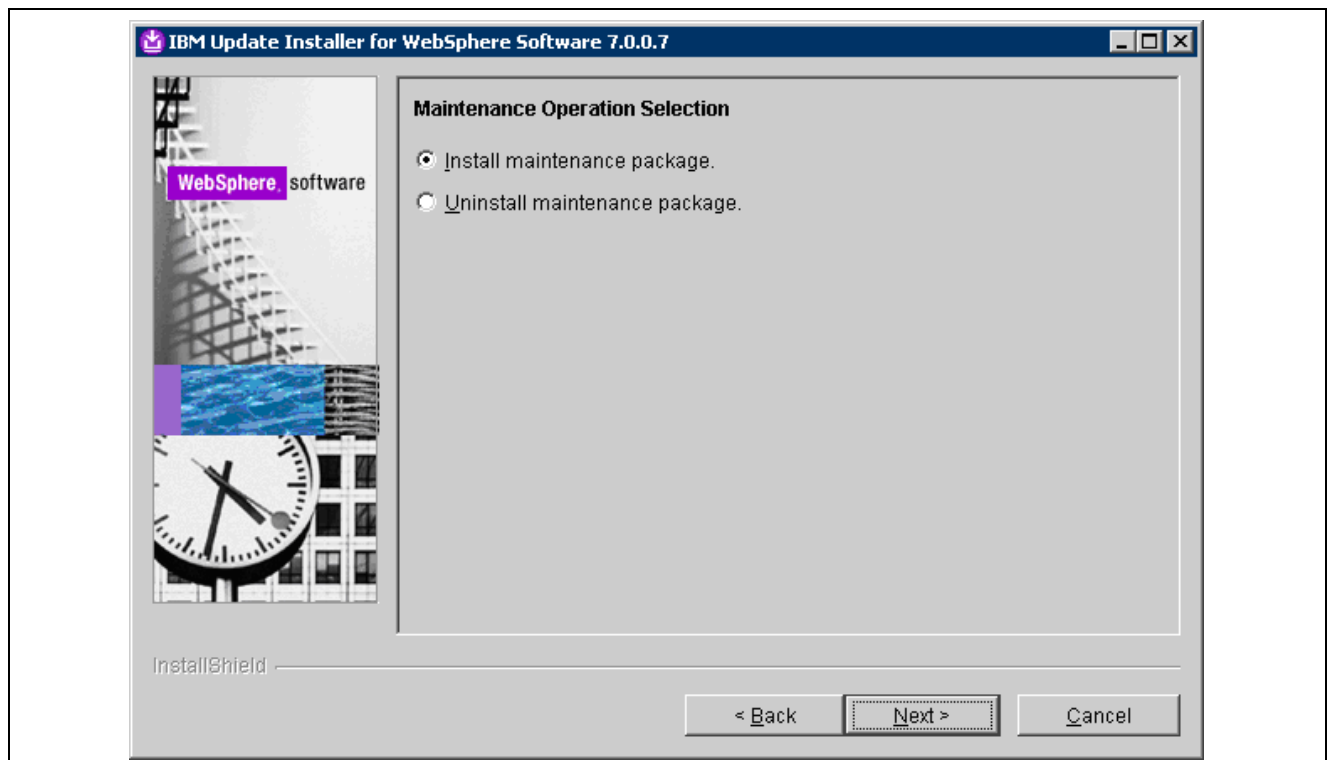
15. Enter the installation directory for IBM WebSphere, `WAS_HOME`, that you specified in step 6.

In this example, `WAS_HOME` is `C:\WAS7007\AppServer`.



Product Selection window

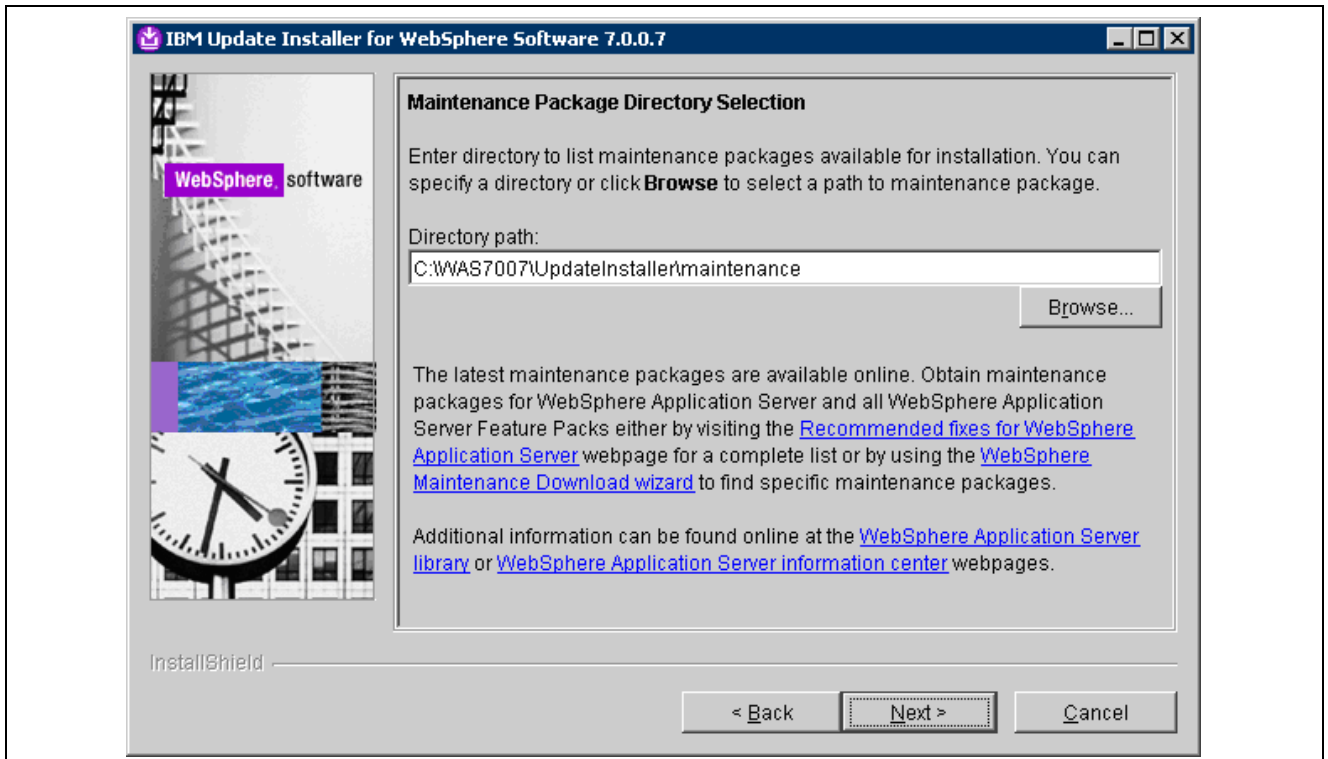
16. Select the option Install maintenance package, and click Next.



Maintenance Operation Selection window

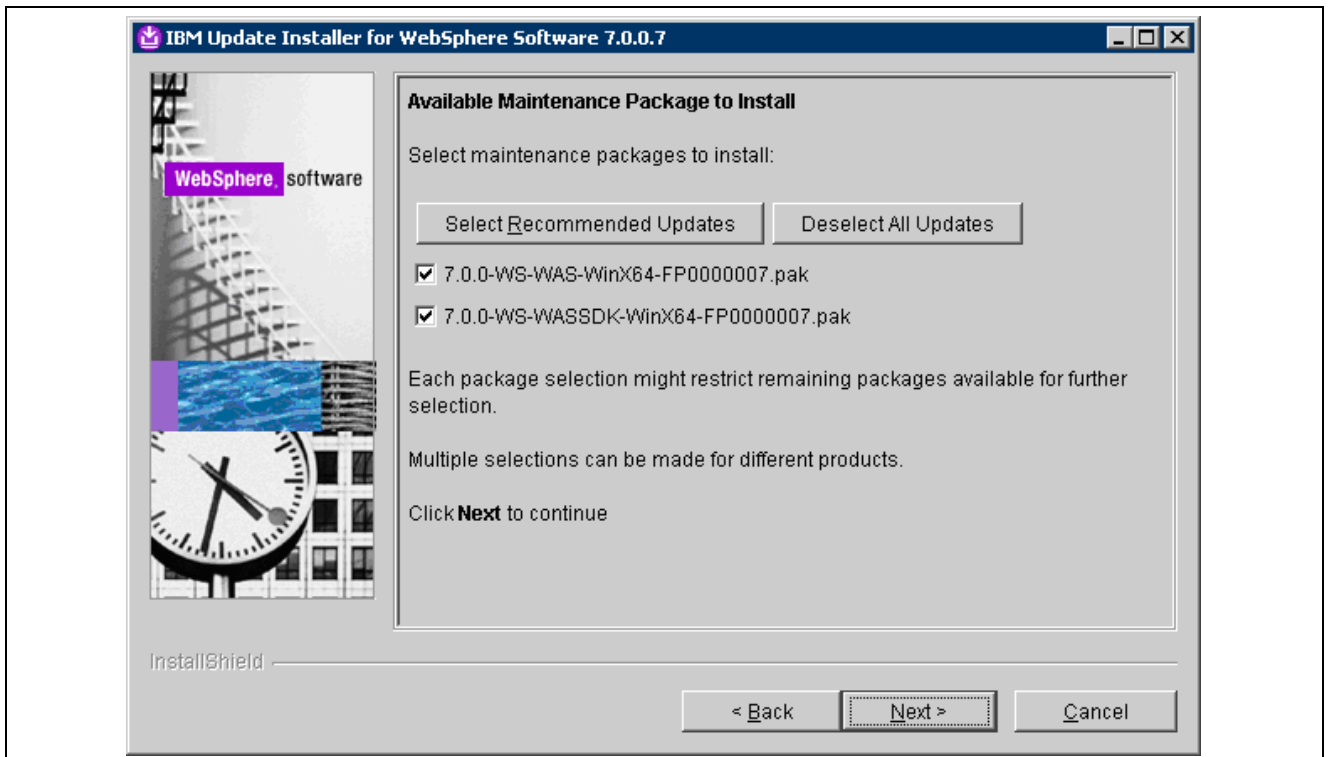
17. Specify the directory where you saved the fix packs, `64bit_UPDATEINSTALLER_HOME\maintenance`.

In this example, *64bit_UPDATEINSTALLER_HOME* is *C:\WAS7007\UpdateInstaller\Maintenance*.



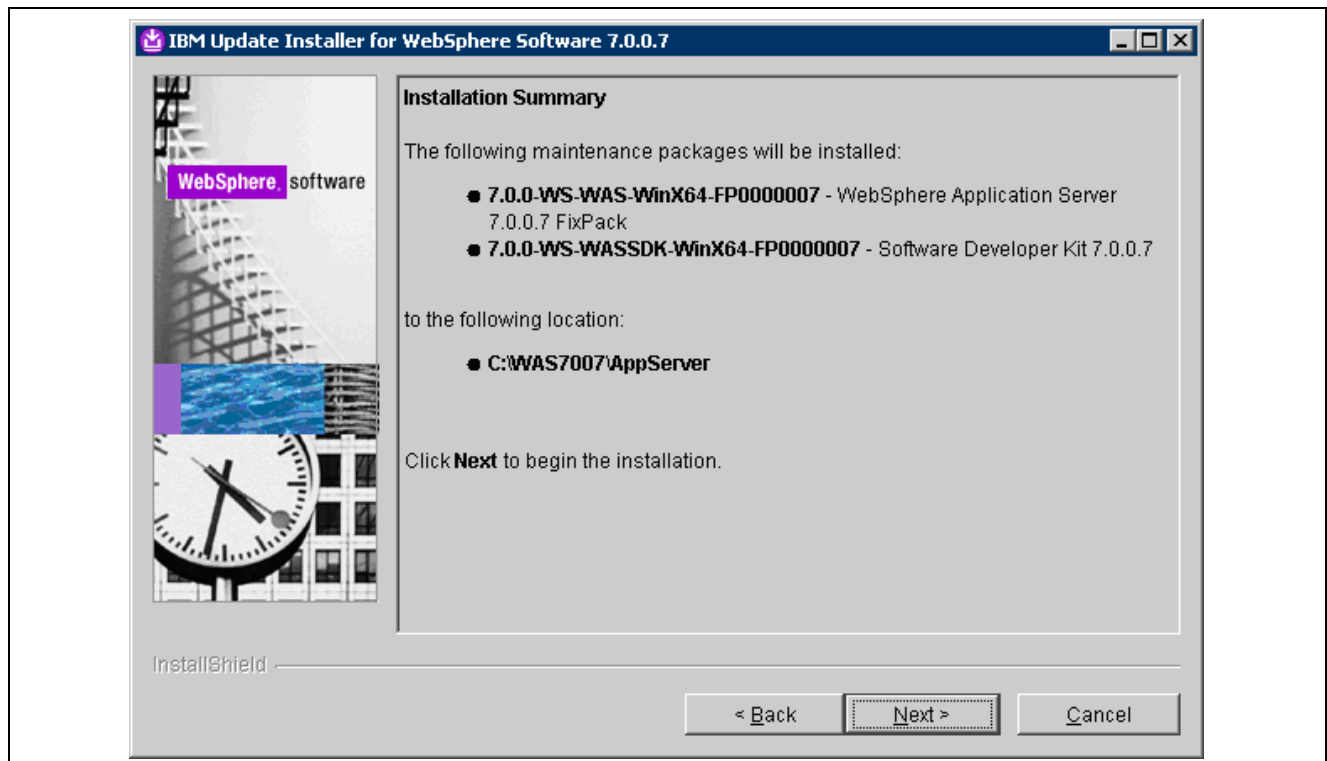
Maintenance Package Directory Selection

18. Verify that the fix packs that you copied are selected, and click Next.



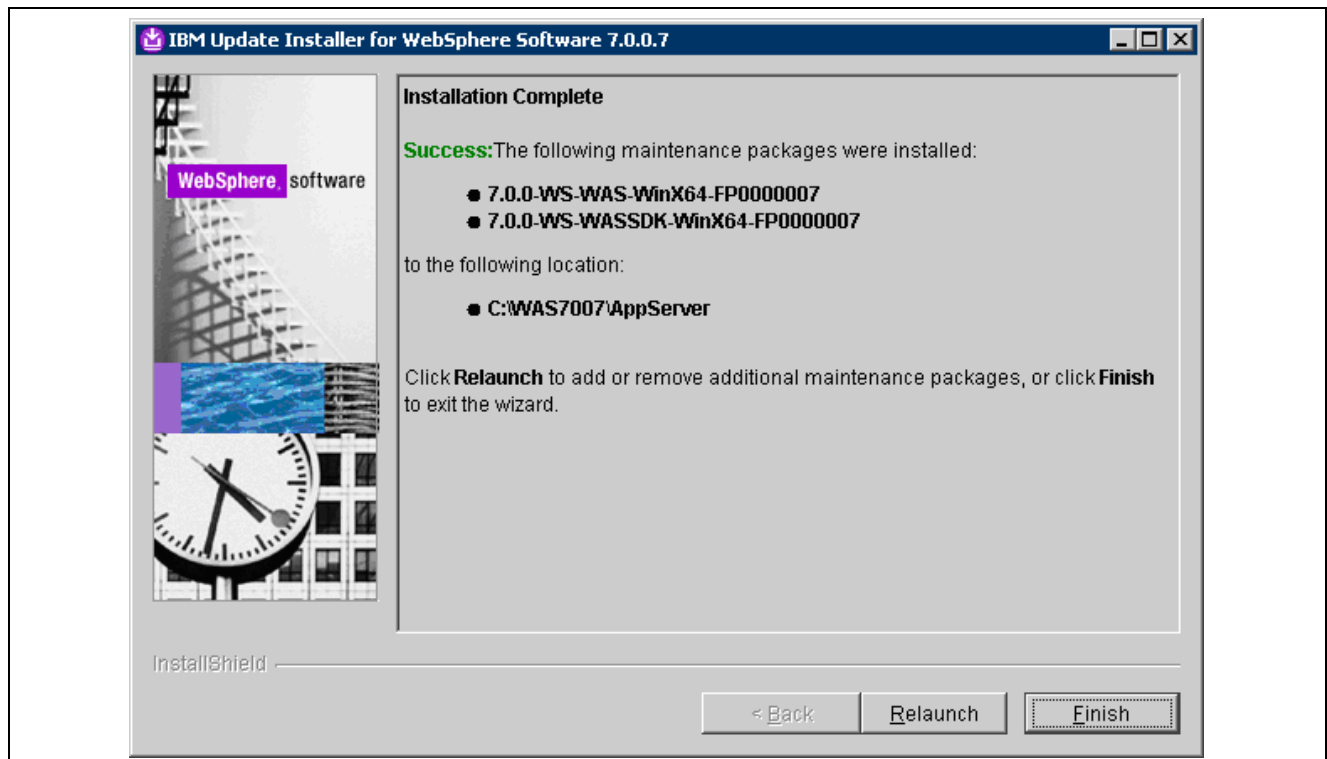
Available Maintenance Package to Install window

19. Review the installation summary and click Next.



Installation Summary window with fix packs

20. Click Finish on the Installation Complete window.



Installation Complete window for fix pack installation

After completing the installation, use the instructions later in this section to check the version number and review the log file.

See Validating Installation and Reviewing Logs.

Task 2-2-3: Installing IBM WebSphere 7.0.0.7 ND on HP-UX Itanium or Solaris

This section discusses:

- Extracting the Installation Files for HP-UX Itanium or Solaris
- Installing the 64-bit Update Installer on HP-UX Itanium or Solaris
- Installing IBM WebSphere Application Server on HP-UX Itanium or Solaris

Extracting the Installation Files for HP-UX Itanium or Solaris

This section assumes that you have downloaded the zip files for installing IBM WebSphere ND into *WAS_INSTALL*. For the files with extension .tar.gz, unzip and then untar to extract the installation files. For the files with a .zip extension, use your zip utility to extract the files. These tables list the files with a brief description:

Note. The extracted files are organized into folders. The exact folder structure you see may be different from that described in this documentation.

For HP-UX Itanium:

File or Folder Name	Description
C1G2WML.tar.gz	IBM WebSphere Application Server Network Deployment V7 for HP-UX Itanium
C1G2XML.tar.gz	Supplements, such as Application Client, IBM HTTP Server, Web Server Plug-ins and Update Installer
UpdateInstaller-7.0.0.7/7.0.0.7-WS-UPDI-HpuxIA64.zip	Binaries for installation and uninstallation of UpdateInstaller 7.0.0.7
FixPacks7.0.0.7	Fix Packs required for upgrading IBM WebSphere ND, IHS and Plugin to 7.0.0.7

For Solaris:

File or Folder Name	Description
C1G2HML.tar.gz	IBM WebSphere Application Server Network Deployment V7 for Solaris
C1G2IML.tar.gz	Supplements, such as Application Client, IBM HTTP Server, Web Server Plug-ins and Update Installer
UpdateInstaller-7.0.0.7/7.0.0.7-WS-UPDI-SolarisSparc64.zip	Binaries for installation and uninstallation of UpdateInstaller 7.0.0.7
FixPacks7.0.0.7	Fix Packs required for upgrading IBM WebSphere ND, IHS and Plugin to 7.0.0.7

Installing the 64-bit Update Installer on HP-UX Itanium or Solaris

The 64-bit Update Installer for IBM WebSphere Software upgrades IBM WebSphere Application Server 7.0, IHS 7.0, and the IBM WebSphere Plug-in 7.0 to version 7.0.0.7. To install the 64-bit update installer, follow the steps given for Microsoft Windows.

See Installing the 64-bit Update Installer on Microsoft Windows.

On HP-UX Itanium run:

```
WAS_INSTALL/UpdateInstaller-7.0.0.7/7.0.0.7-WS-UPDI-HpuxIA64/install
```

On Solaris run :

```
WAS_INSTALL/UpdateInstaller-7.0.0.7/7.0.0.7-WS-UPDI-SolarisSparc64/install
```

Installing IBM WebSphere Application Server on HP-UX Itanium or Solaris

To install, update, and apply necessary fix packs for IBM WebSphere ND:

1. Install the application server software, following the steps described for Microsoft Windows.

See Installing IBM WebSphere Application Server on Microsoft Windows.

- On HP-UX Itanium run :

```
WAS_INSTALL/C1G2WML/WAS/install
```

- On Solaris run:

```
WAS_INSTALL/C1G2HML/WAS/install
```

2. Copy the following fix pack files from *WAS_INSTALL/FixPacks-7.0.0.7* to *64bit_UPDATEINSTALLER_HOME/maintenance* folder.

- HP-UX Itanium:

7.0.0-WS-WAS-HpuxIA64-FP0000007.pak and 7.0.0-WS-WASSDK-HpuxIA64-FP0000007.pak

- Solaris:

7.0.0-WS-WAS-SolarisSparc64-FP0000007.pak and 7.0.0-WS-WASSDK-SolarisSparc64-FP0000007.pak

3. Run the 64-bit update installer and follow the steps described for Microsoft Windows:

```
64bit_UPDATEINSTALLER_HOME/update.sh
```

After completing the installation, use the instructions later in this section to check the version number and review the log file.

See Validating Installation and Reviewing Logs.

Task 2-2-4: Installing IBM Websphere 7.0.0.7 ND on AIX or Linux

This section discusses:

- Extracting the Installation Files on AIX or Linux
- Installing the 64-bit Update Installer on AIX or Linux
- Installing the 32-bit Update Installer on AIX or Linux
- Installing IBM WebSphere Application Server on AIX or Linux

Extracting the Installation Files on AIX or Linux

This section assumes that you have downloaded the zip files for installing IBM WebSphere ND into *WAS_INSTALL*. For the files with extension .tar.gz, unzip and then untar to extract the installation files. For the files with a .zip extension, use your zip utility to extract the files. These tables list the files with a brief description:

Note. The extracted files are organized into folders. The exact folder structure you see may be different from that described in this documentation.

For AIX:

File or Folder Name	Description
C1G2QML.tar.gz	IBM WebSphere Application Server Network Deployment V7 for AIX
C1G2RML.tar.gz	Supplements, such as Application Client, IBM HTTP Server, Web Server Plug-ins and Update Installer
UpdateInstaller-7.0.0.7/7.0.0.7-WS-UPDI-AixPPC64.zip	Binaries for installation and uninstallation of 64-bit UpdateInstaller 7.0.0.7
32-bit_UpdateInstaller-7.0.0.7/7.0.0.7-WS-UPDI-AixPPC32.zip	Binaries for installation and uninstallation of 32-bit UpdateInstaller 7.0.0.7
FixPacks7.0.0.7	Fix Packs required for upgrading IBM WebSphere ND, IHS and Plugin to 7.0.0.7

For Linux:

File or Folder Name	Description
C1G35ML.tar.gz	IBM WebSphere Application Server Network Deployment V7 for Linux
C1G36ML.tar.gz	Supplements, such as Application Client, IBM HTTP Server, Web Server Plug-ins and Update Installer
UpdateInstaller-7.0.0.7/7.0.0.7-WS-UPDI-LinuxAMD64.zip	Binaries for installation and uninstallation of 64-bit UpdateInstaller 7.0.0.7
32-bit_UpdateInstaller-7.0.0.7/7.0.0.7-WS-UPDI-LinuxIA32.zip	Binaries for installation and uninstallation of 32-bit UpdateInstaller 7.0.0.7
FixPacks7.0.0.7	Fix Packs required for upgrading IBM WebSphere ND, IHS and Plugin to 7.0.0.7

Installing the 64-bit Update Installer on AIX or Linux

The 64-bit Update Installer for IBM WebSphere Software upgrades IBM WebSphere Application Server 7.0, IHS 7.0, and the IBM WebSphere Plug-in 7.0 to version 7.0.0.7. To install the 64-bit update installer, follow the steps given for Microsoft Windows.

See Installing 64-bit Update Installer on Microsoft Windows.

On AIX run:

```
WAS_INSTALL/UpdateInstaller-7.0.0.7/7.0.0.7-WS-UPDI-AixPPC64/install
```

On Linux run:

```
WAS_INSTALL/UpdateInstaller-7.0.0.7/7.0.0.7-WS-UPDI-LinuxAMD64/install
```

Installing the 32-bit Update Installer on AIX or Linux

The 32-bit Update Installer for IBM WebSphere Software is used to upgrade the JDK of IHS 7.0.0.7 and IBM WebSphere Plug-in 7.0.0.7. To install the 32-bit update installer follow the steps given for Microsoft Windows.

See Installing 32-bit Update Installer on Microsoft Windows.

On AIX run:

```
WAS_INSTALL/UpdateInstaller-7.0.0.7/7.0.0.7-WS-UPDI-AixPPC32/install
```

On Linux run:

```
WAS_INSTALL/UpdateInstaller-7.0.0.7/7.0.0.7-WS-UPDI-LinuxIA32/install
```

Installing IBM WebSphere Application Server on AIX or Linux

To install, update, and apply necessary fix packs for IBM WebSphere ND:

1. Install the application software and follow the steps described for Microsoft Windows.

See Installing the IBM WebSphere Application Server on Microsoft Windows.

- On AIX run:

```
WAS_INSTALL/C1G2QML/WAS/install
```

- On Linux run:

```
WAS_INSTALL/C1G35ML/WAS/install
```

2. Copy the following fix pack files from *WAS_INSTALL/FixPacks-7.0.0.7* to *64bit_UPDATEINSTALLER_HOME/maintenance* folder.

- AIX:

7.0.0-WS-WAS-AixPPC64-FP0000007.pak and 7.0.0-WS-WASSDK-AixPPC64-FP0000007.pak

- Linux:

7.0.0-WS-WAS-LinuxX64-FP0000007.pak and 7.0.0-WS-WASSDK-LinuxX64-FP0000007.pak

3. Run the 64-bit update installer and follow the steps described for Microsoft Windows:

```
64bit_UPDATEINSTALLER_HOME/update.sh
```

After completing the installation, use the instructions later in this section to check the version number and review the log file.

See Validating Installation and Reviewing Logs.

Task 2-2-5: Installing IBM HTTP Server 7.0.0.7 and Plug-in 7.0.0.7 on Microsoft Windows

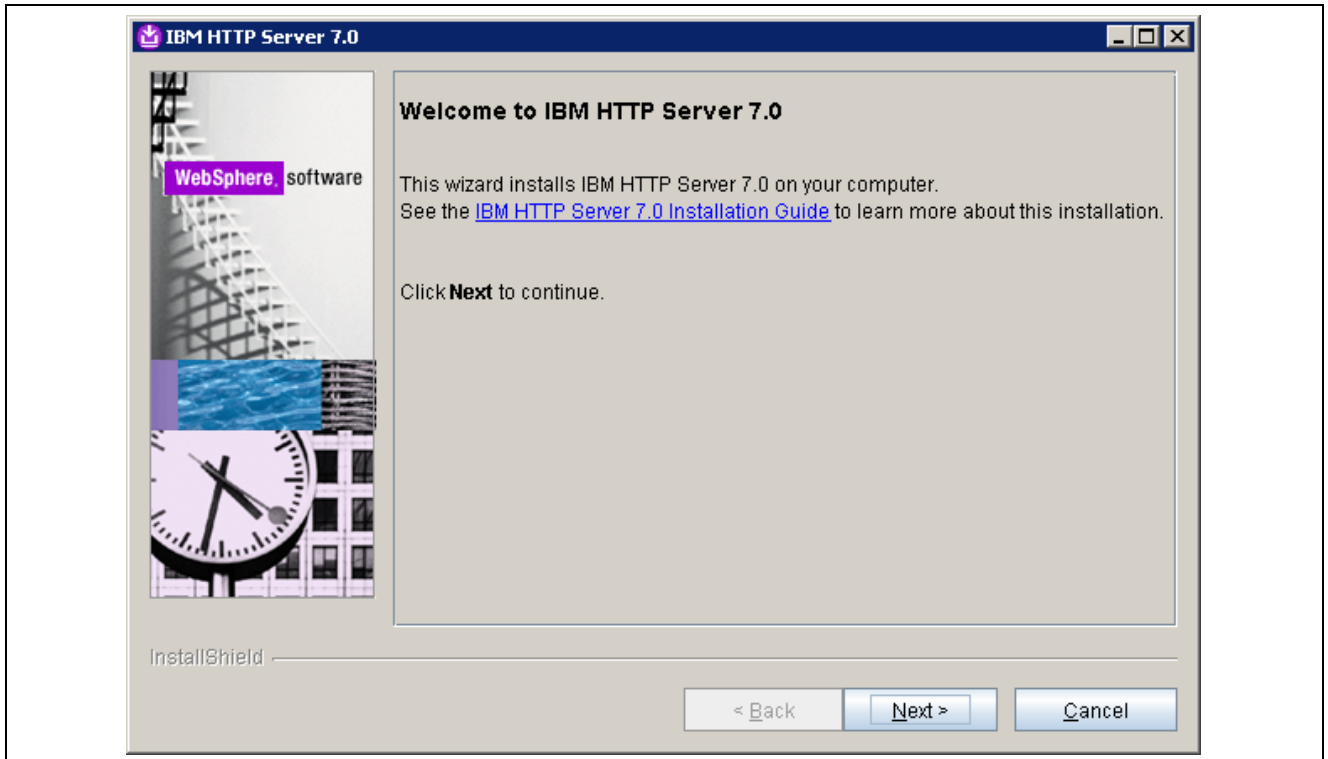
This section discusses:

- Installing IBM HTTP Server on Microsoft Windows
- Installing IBM WebSphere Plug-in on Microsoft Windows

Installing IBM HTTP Server on Microsoft Windows

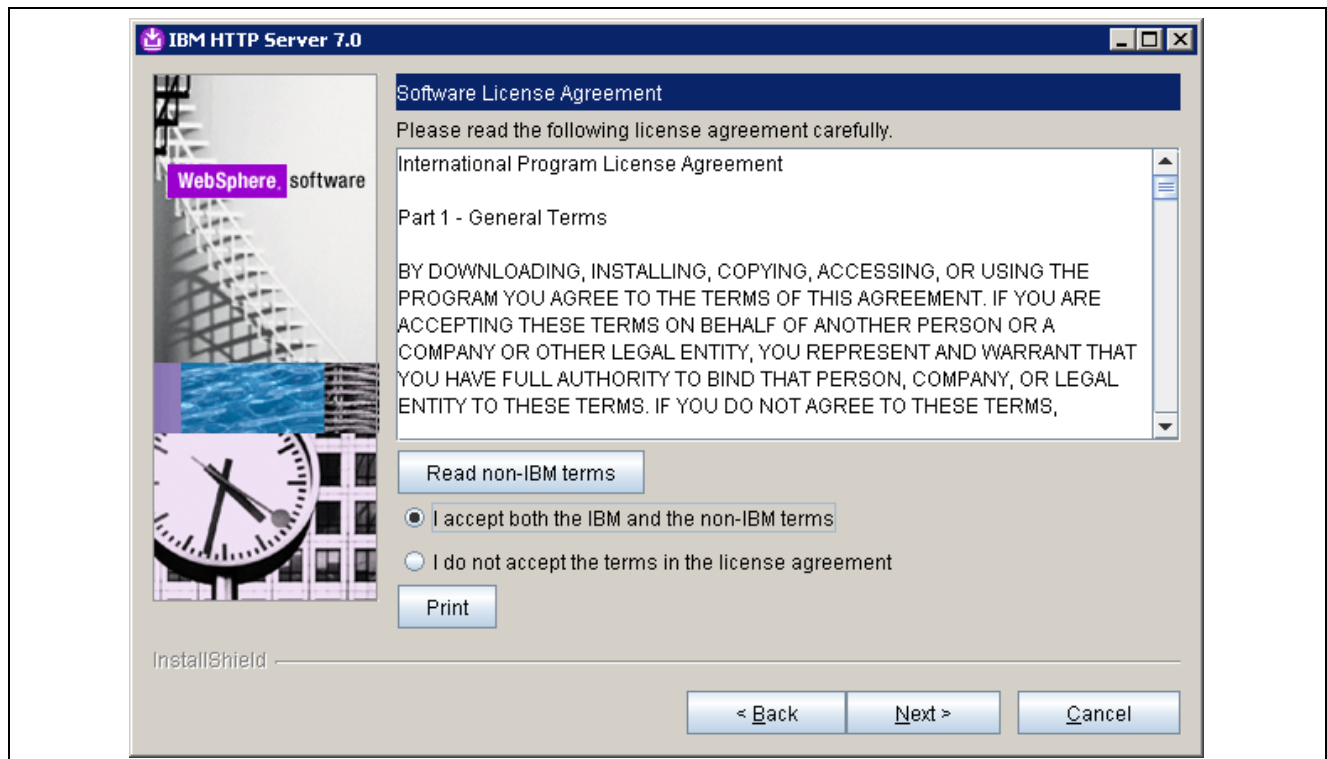
This section assumes that you downloaded and extracted the installation files as described above. To install IHS 7.0.0.7:

1. Run `WAS_INSTALL\C1G2KML\IHS\install.exe`.
2. Click Next on the welcome window.



Welcome to IBM HTTP Server 7.0 window

3. Review the license agreement, select the option to accept the IBM and non-IBM terms, and then click Next.



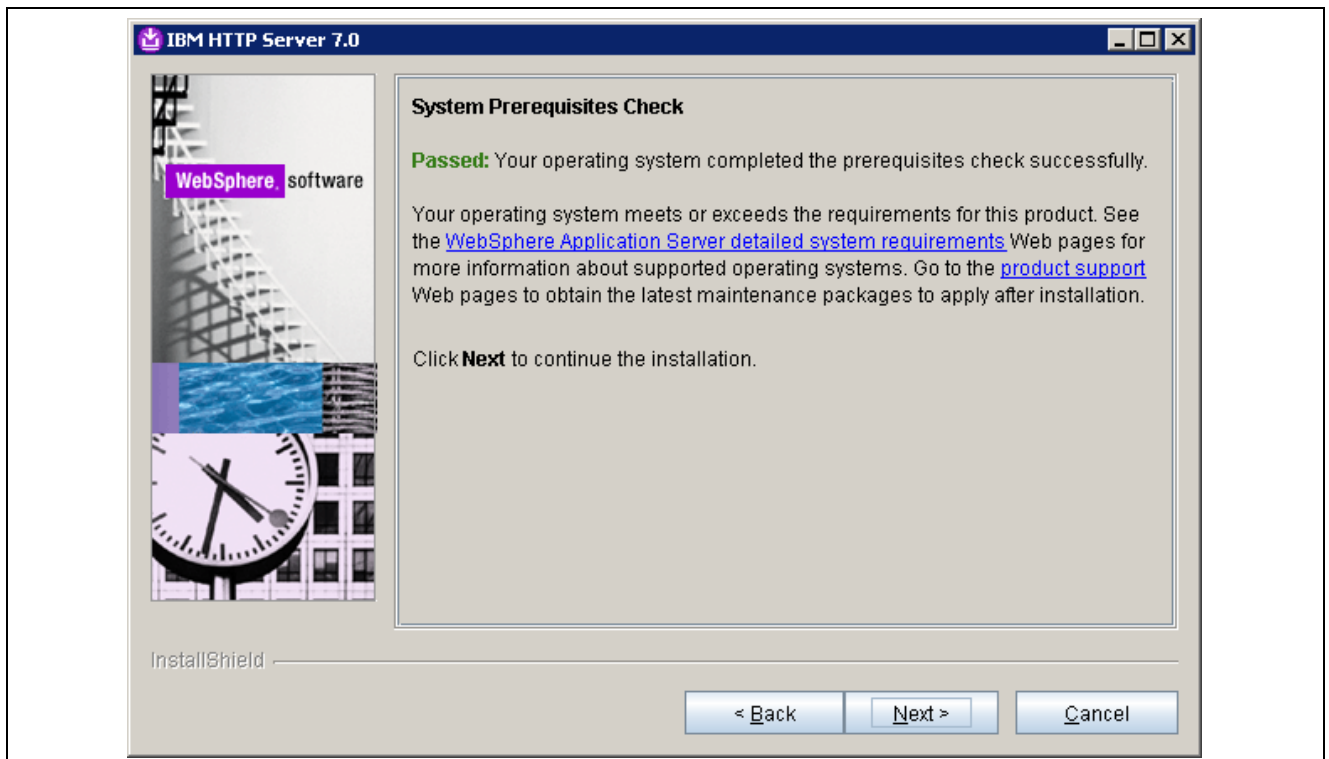
IBM HTTP Server Software License Agreement window

4. The installation wizard performs a systems prerequisites check.

In this example the system displays a “Passed” message. If your operating system is not at the required patch level, you may see a warning message, but will be allowed to proceed with the installation.

See Prerequisites.

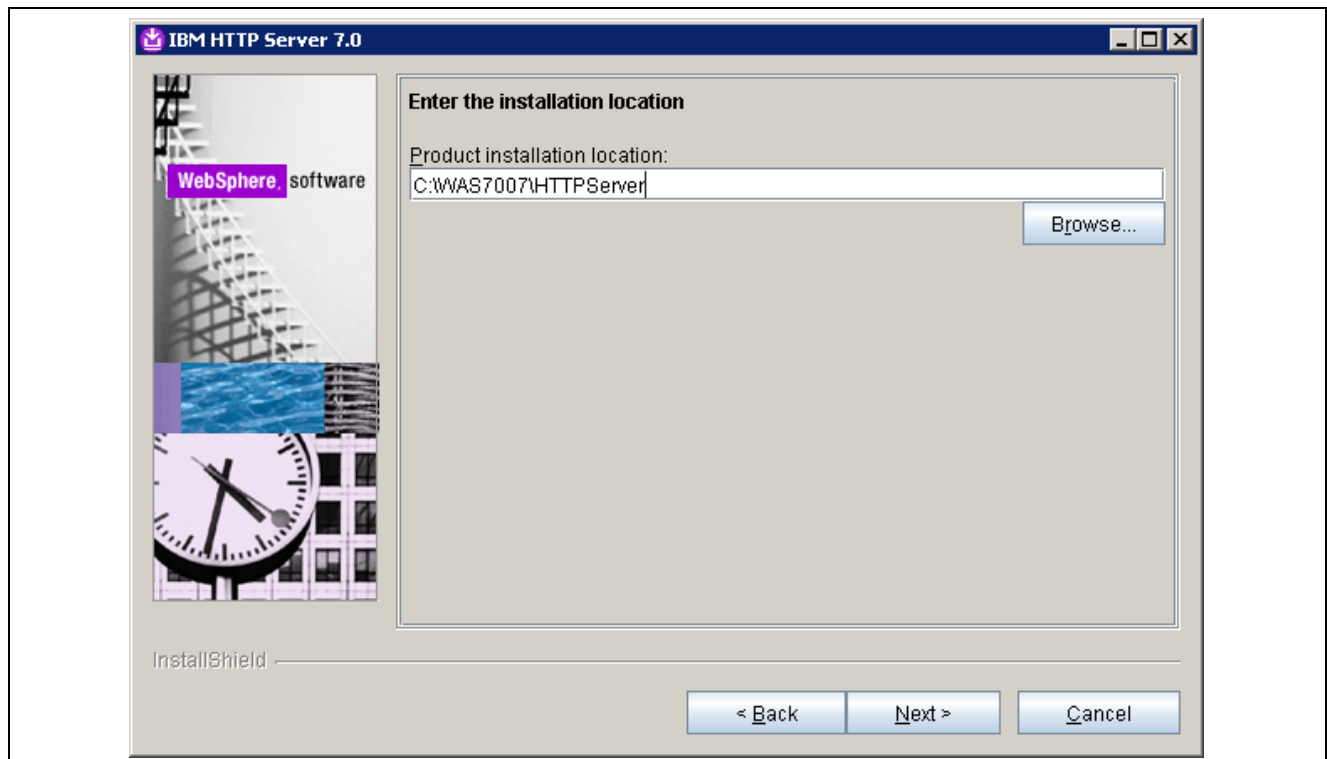
Click Next to continue.



IBM HTTP Server System Prerequisites Check window

5. Specify the location where you want to install the IBM HTTP Server, referred to in this documentation as *HTTPServer_HOME*.

The default location for Microsoft Windows is C:\Program Files\IBM\HTTPServer. This example uses C:\WAS7007\HTTPServer.

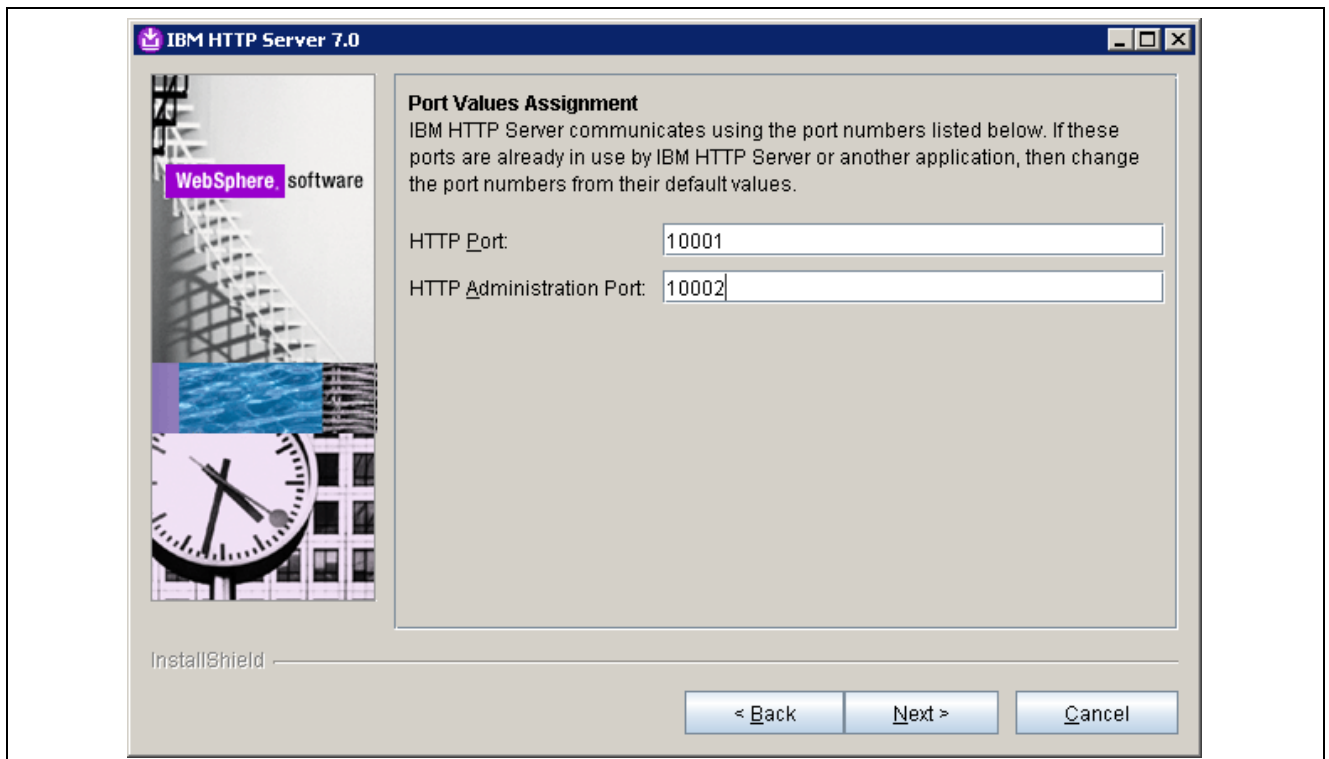


IBM HTTP Server installation location window

6. Specify the HTTP and HTTP Administration ports.

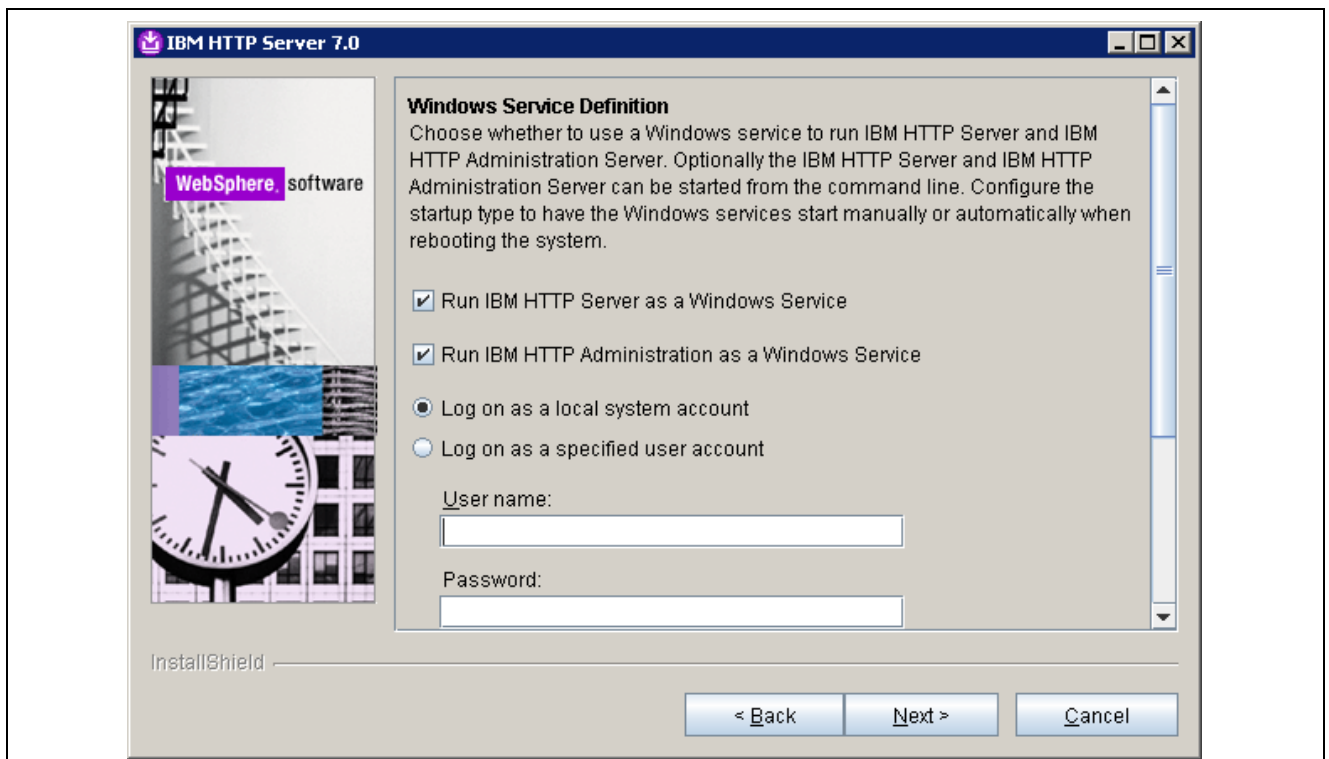
The default port values are 80 for IBM HTTP Server and 8008 for the IBM HTTP administration module. Specify unique port values if the default ports are already in use by another application. This example uses 10001 and 10002.

You can run `netstat -an` from the command prompt on Microsoft Windows to display a list of active ports.

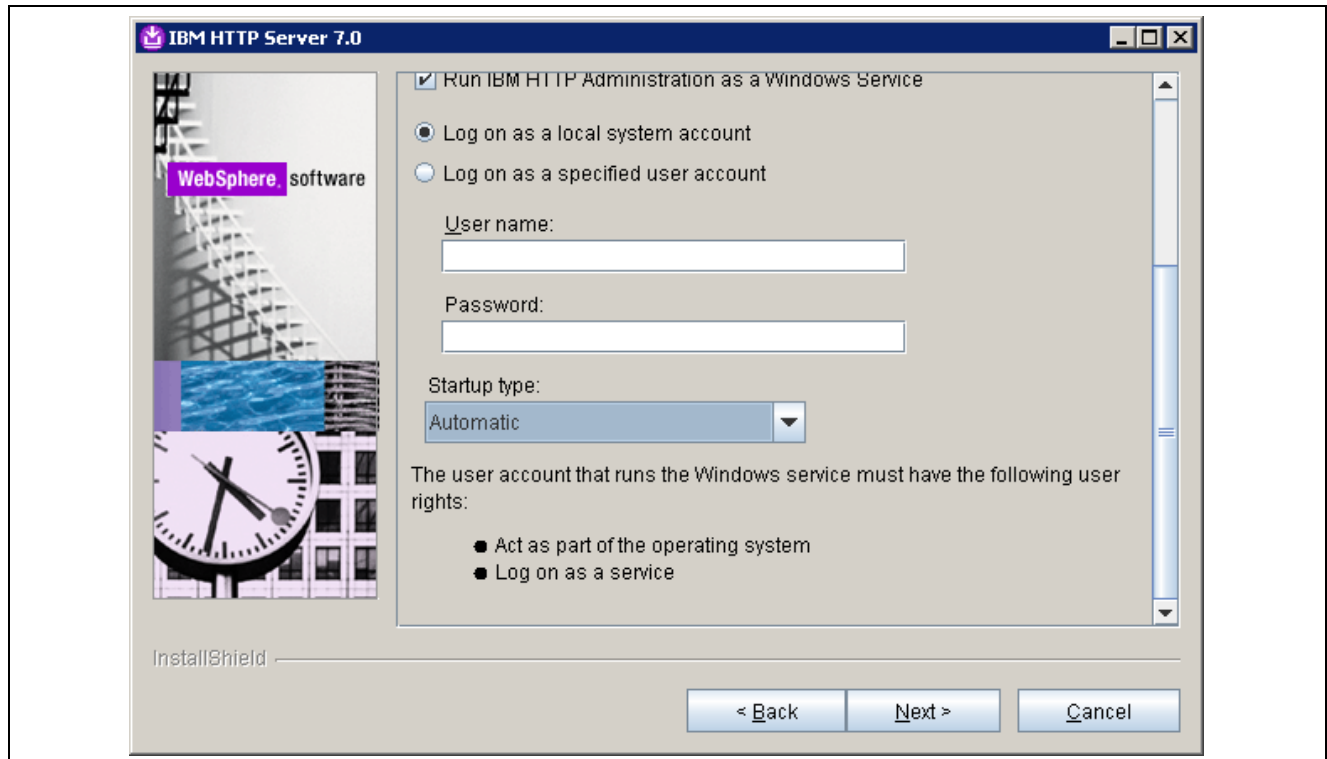


IBM HTTP Server Port Values Assignment window

7. *For Microsoft Windows only, optional:* Specify information to create a Windows service for IBM HTTP Server and the IBM HTTP Server administration module.



IBM HTTP Server Windows Service Definition window, Part 1

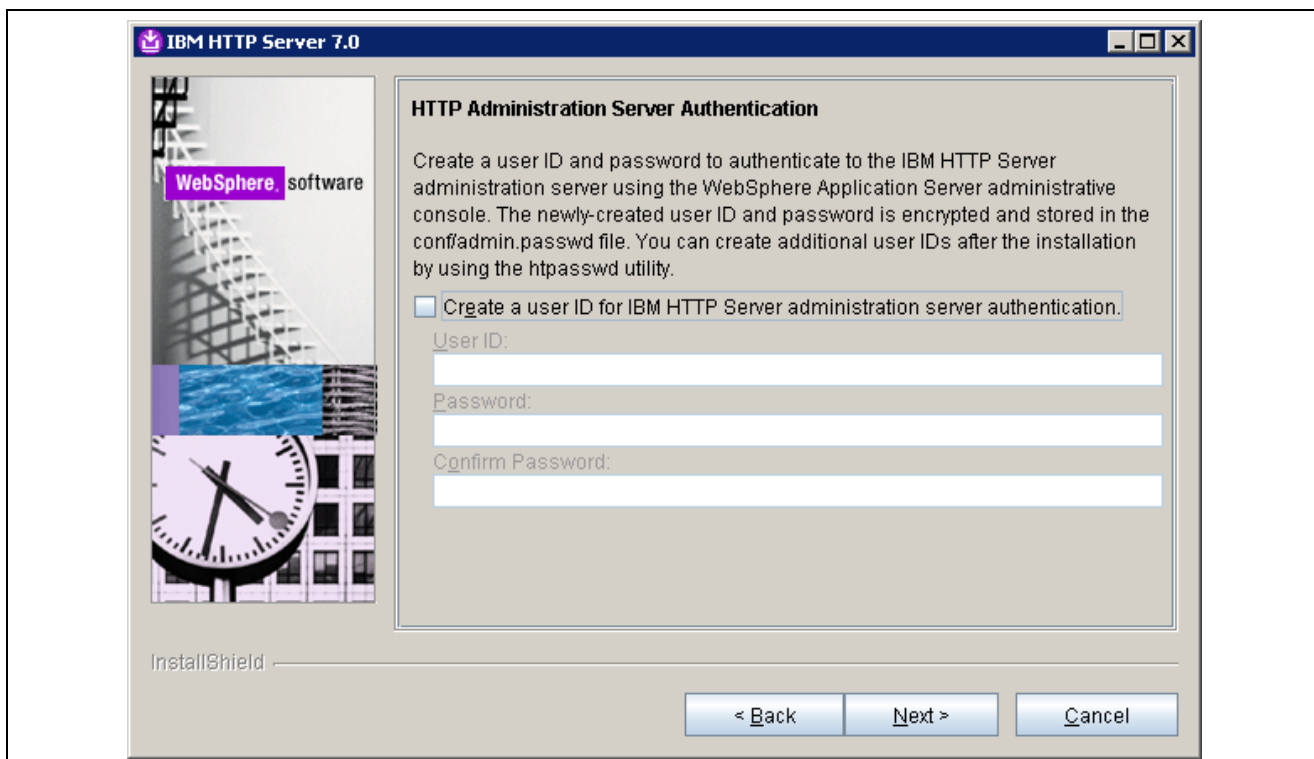


IBM HTTP Server Windows Service Definition window, Part 2

Keep the following points in mind while specifying these options:

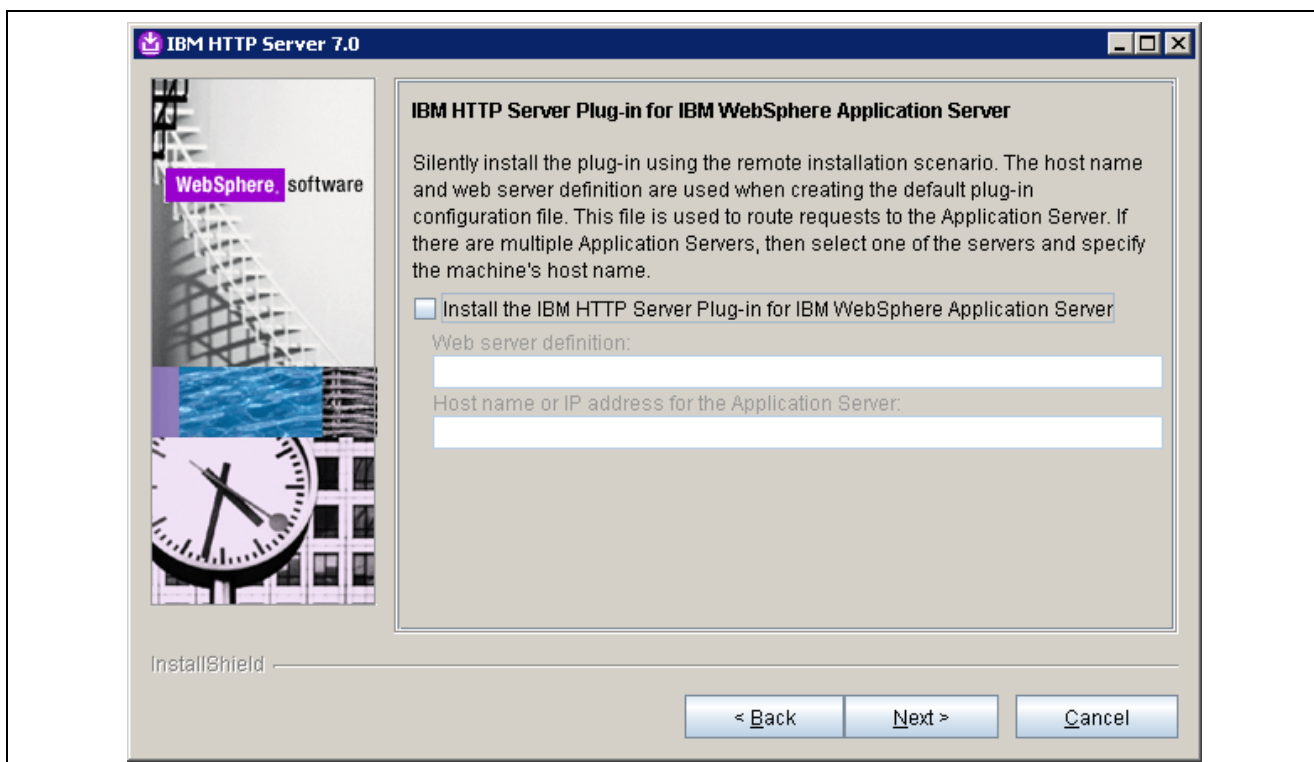
- The user account must be able to act as part of the operating system and log on as a service.
 - If you are planning to administer IHS using the WebSphere Application Server administrative console, select the option Run IBM HTTP Administration as a Windows Service and the option Log on as a local system account. A user name and password is not required for this selection.
 - If you will not administer IHS using the WebSphere Application Server administrative console, select the option Run IBM HTTP Server Administration as a Windows Service and the option Log on as a specified user account. Specify your user ID and password information.
 - Scroll down to select Automatic or Manual from the Startup Type drop-down list.
8. Click Next to display the HTTP Administration Server Authentication window.

If you select the check box to create a user ID, and enter values for User ID and password, the installer creates credentials to authenticate to the IBM HTTP Server administration server using the IBM WebSphere Application Server administrative console. Leave this check box unselected for now; this user ID and password can optionally be created after installation using the `htpasswd` utility.



HTTP Administration Server Authentication window

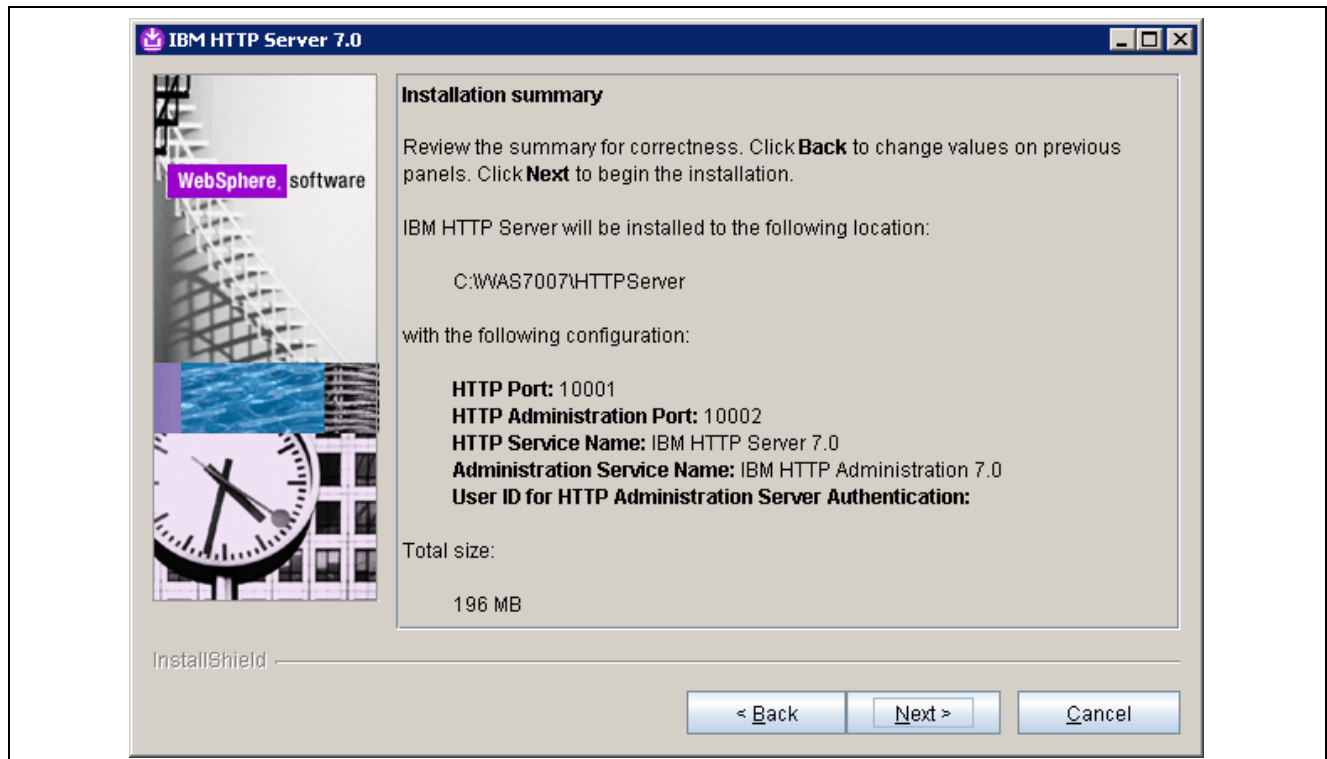
9. Clear the option to install the plug-in remotely.



IBM HTTP Server Plug-in for IBM WebSphere Application Server window

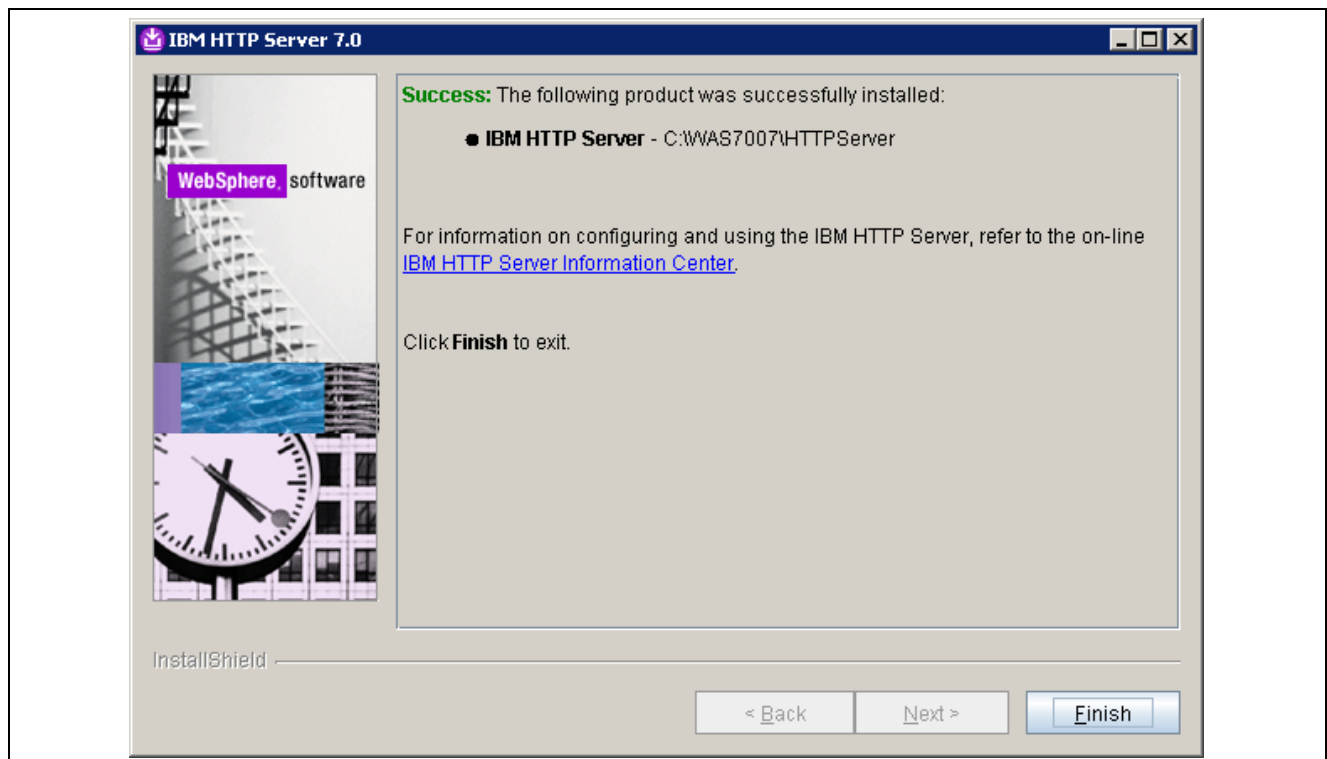
10. Review the installation summary and click Next.

The installation summary includes the installation directory, ports, and total size. Click Back if you need to make any changes.



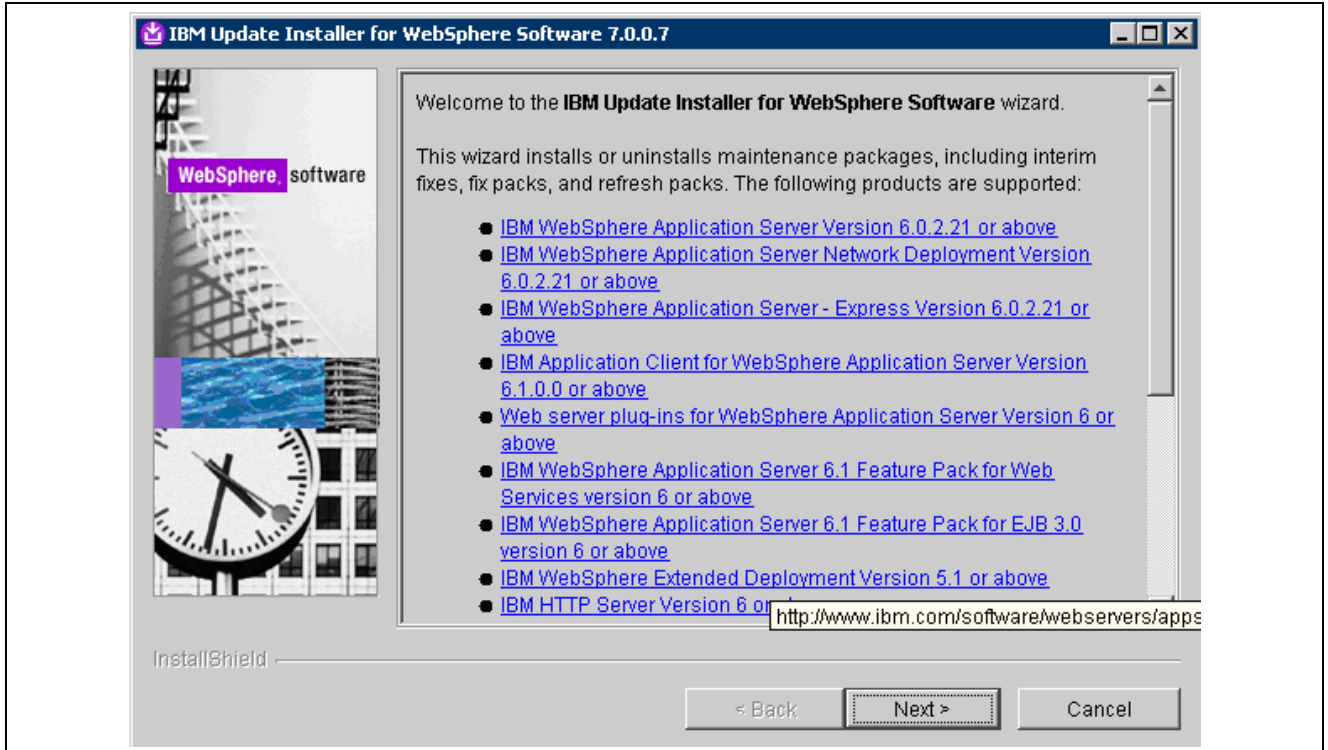
IBM HTTP Server Installation Summary window

11. Click Finish on the window indicating a successful installation.



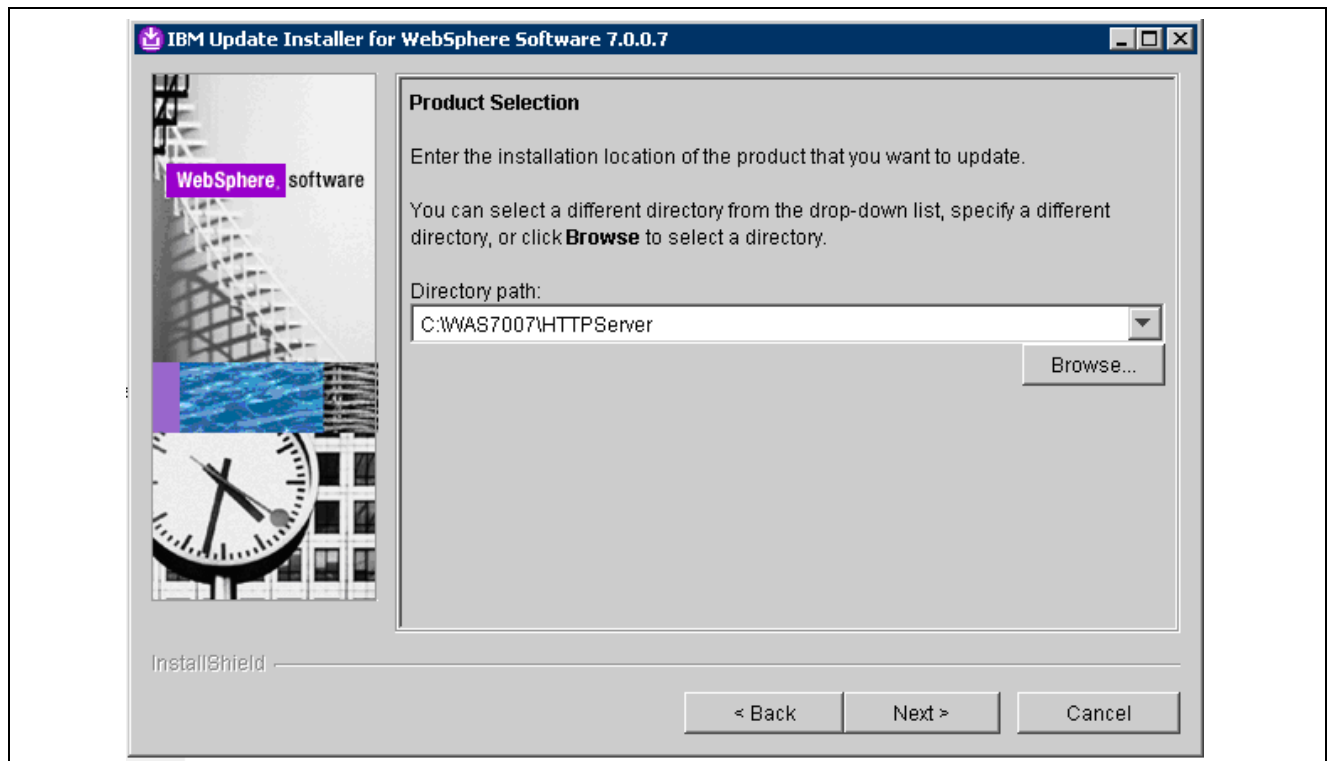
IBM HTTP Server installation success window

12. Copy the 7.0.0-WS-IHS-WinX64-FP0000007.pak from *WAS_INSTALL/FixPacks-7.0.0.7* to *64bit_UPDATEINSTALLER_HOME/maintenance* folder.
13. Run *64bit_UPDATEINSTALLER_HOME/update.bat*.
14. Click Next on the welcome window.



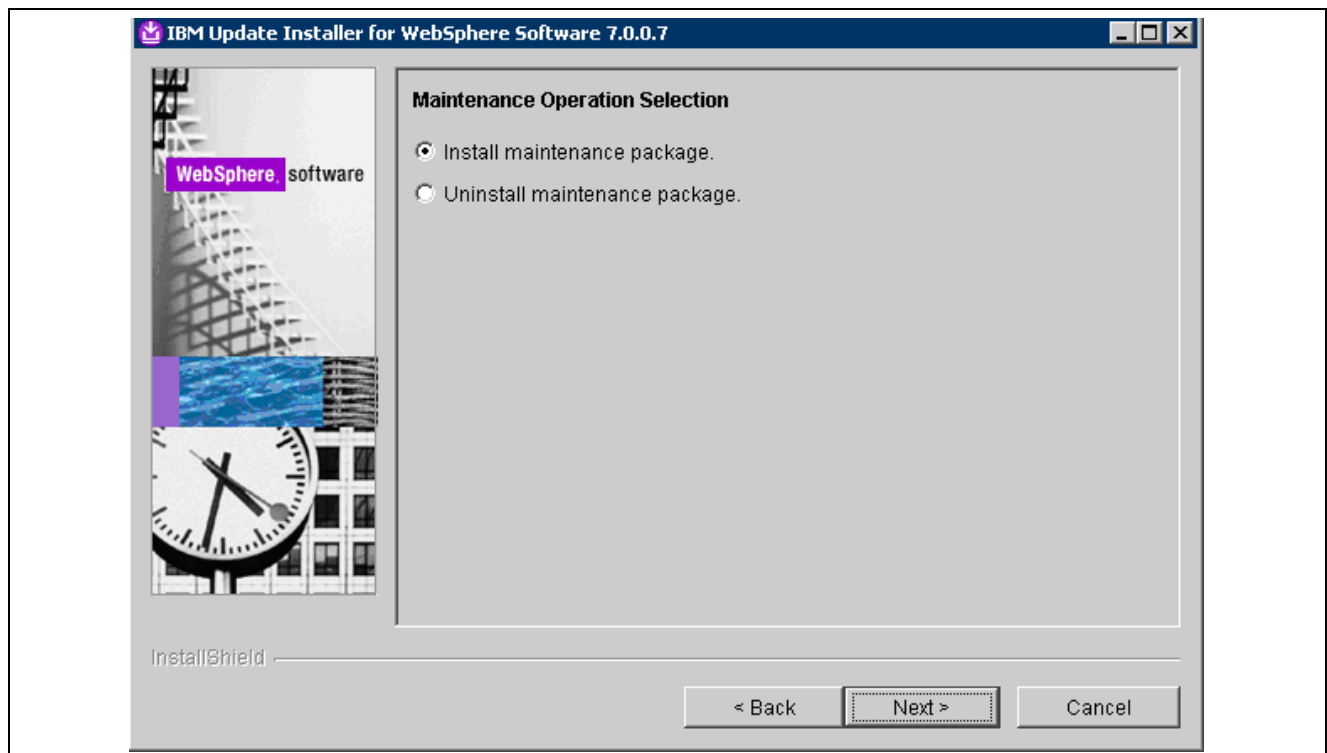
IBM Update Installer for WebSphere wizard welcome window

15. Specify the location where you installed the IBM HTTP Server in step 5, *HTTPServer_HOME*.
In this example *HTTPServer_HOME* is *C:\WAS7007\HTTPServer*.



IBM Update Installer Product Selection window

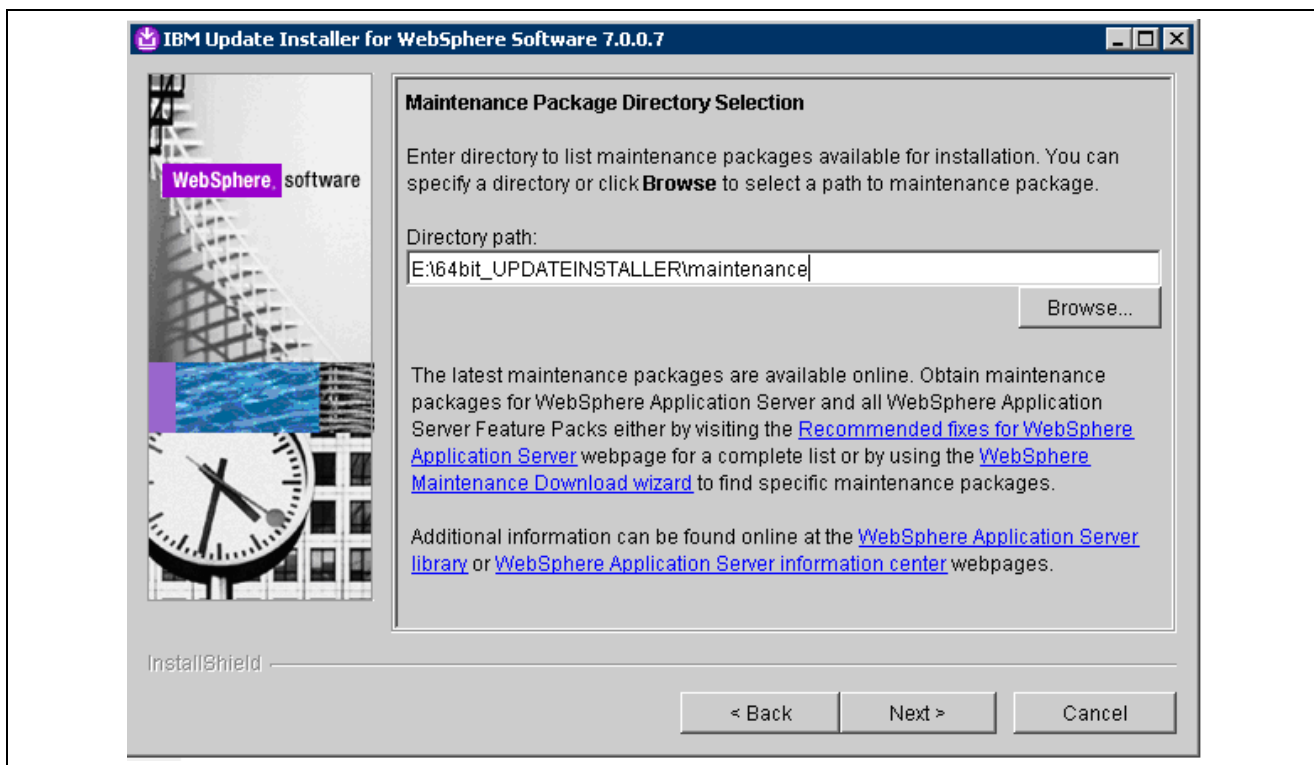
16. Select the option Install maintenance package, and then click Next.



IBM Update Installer Maintenance Operation Selection window

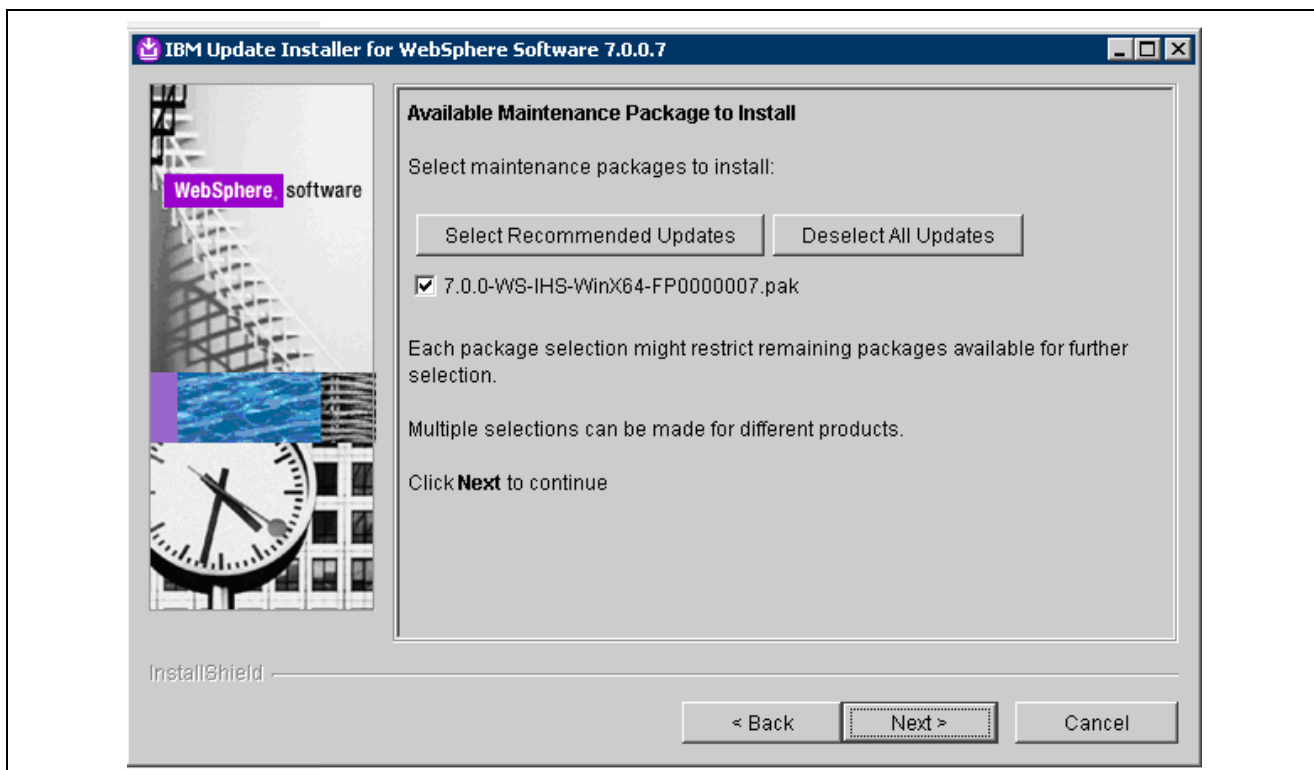
17. Specify the directory where you saved the fix packs, `64bit_UPDATEINSTALLER_HOME\maintenance`.

In this example, the directory with the fix packs is C:\WAS7007\UpdateInstaller\maintenance.



IBM Update Installer Maintenance Package Directory Selection window

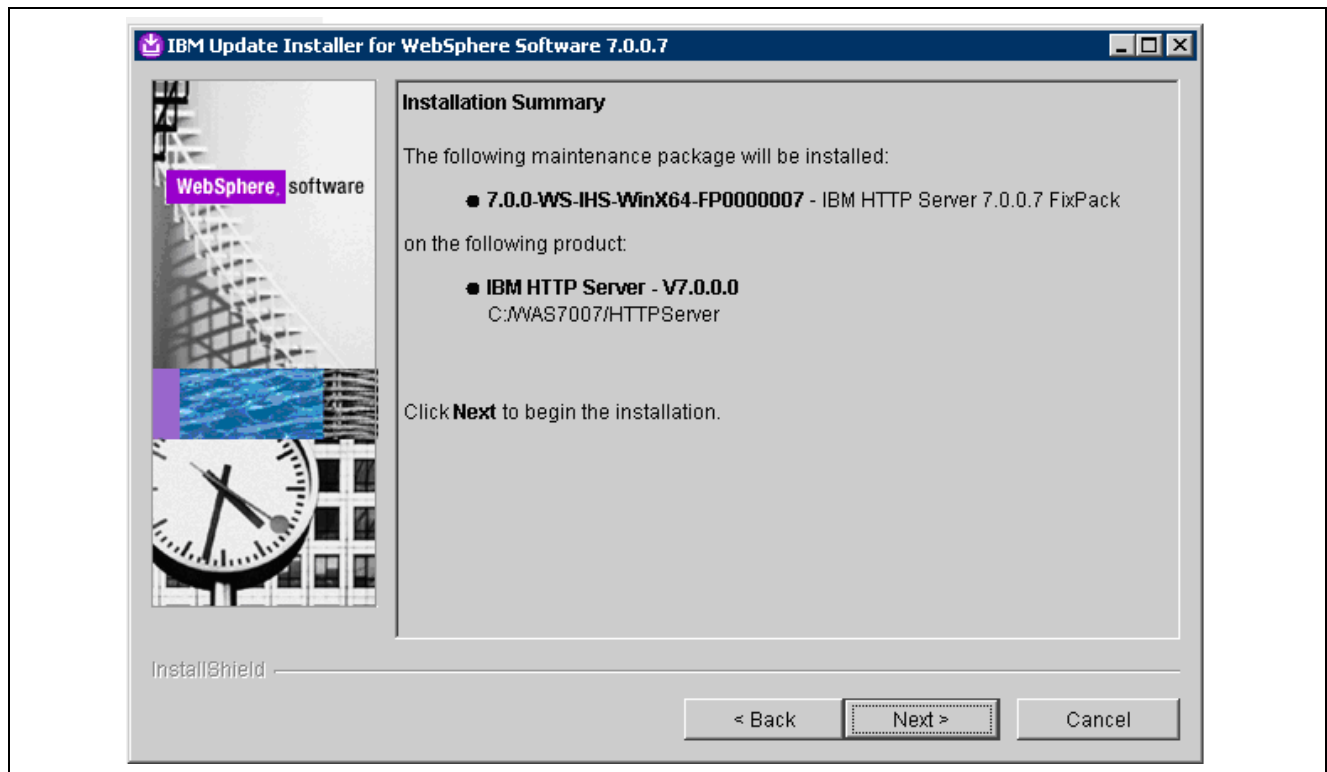
18. Select the fix packs to install.



IBM Update Installer Available Maintenance Package to Install

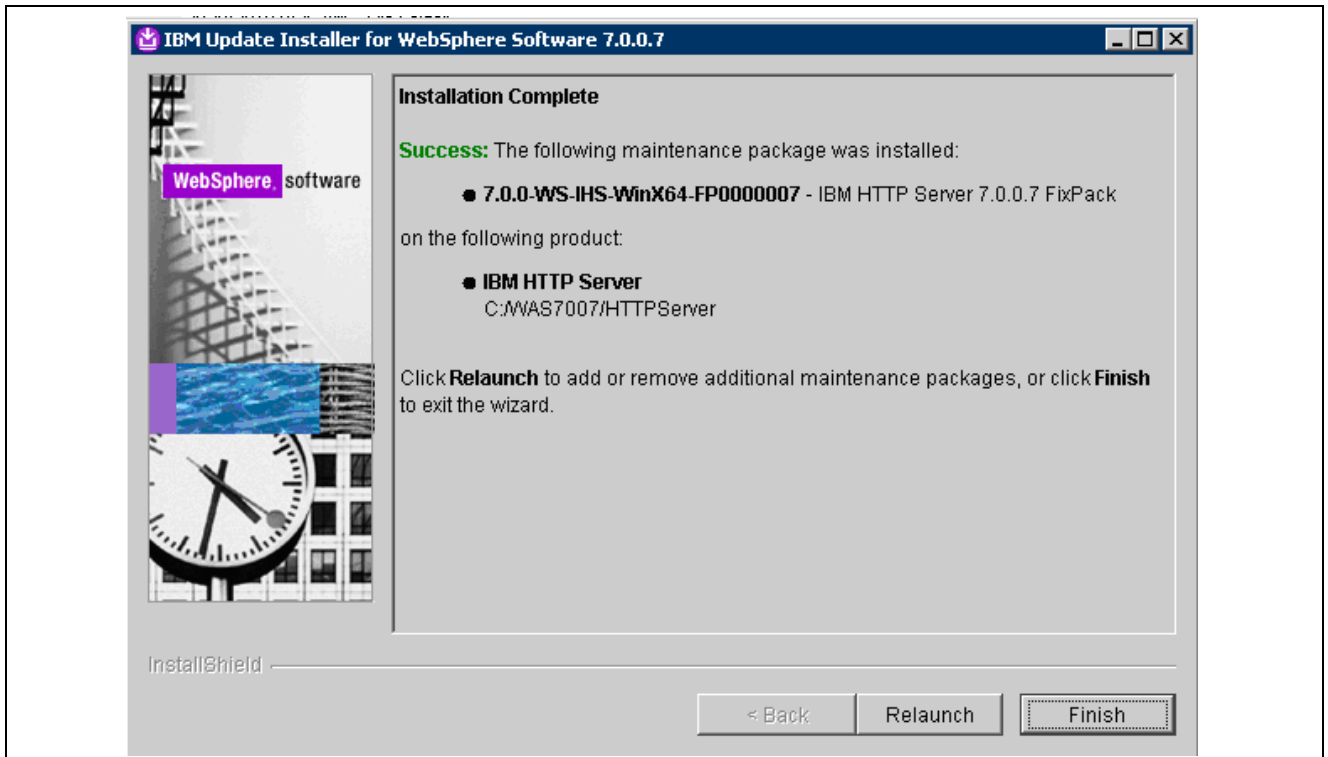
19. Review the installation summary and click Next.

Click Back if you need to make changes.



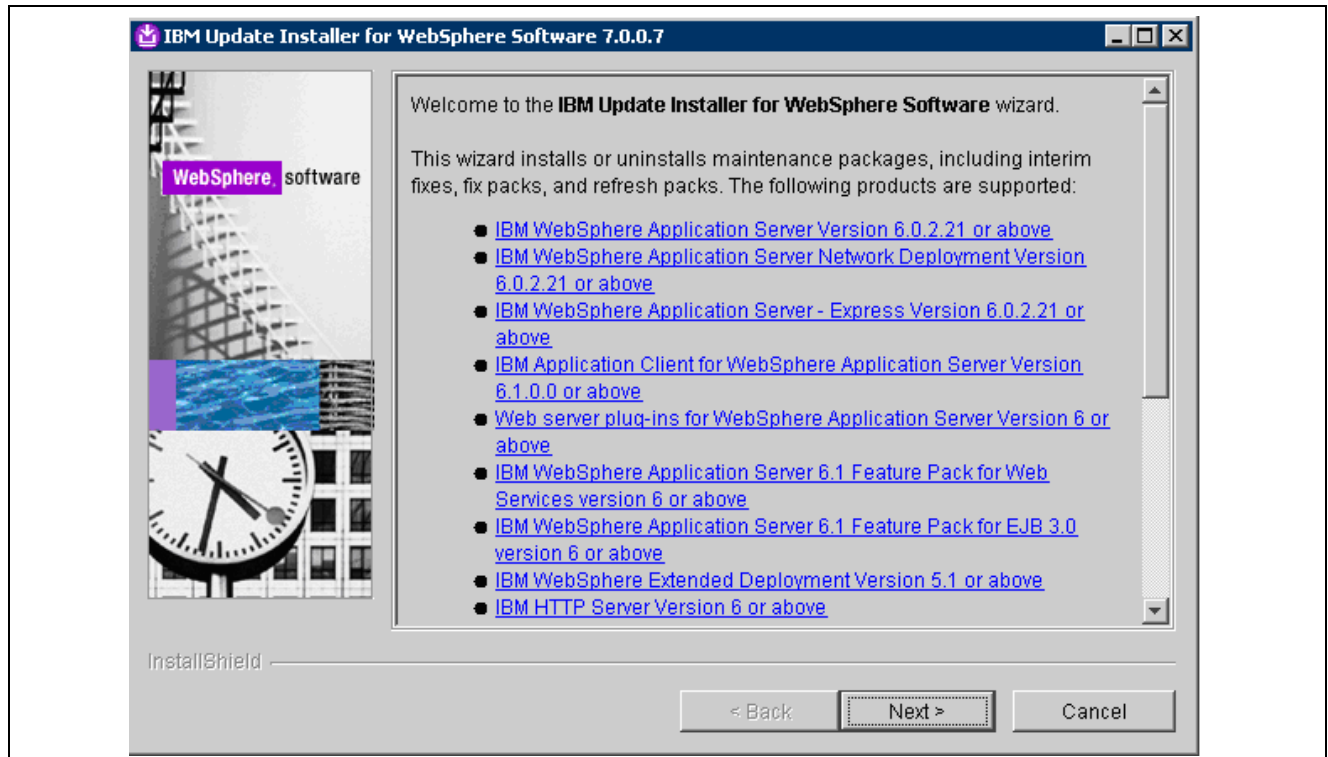
IBM Update Installer Installation Summary window

20. Click Finish.



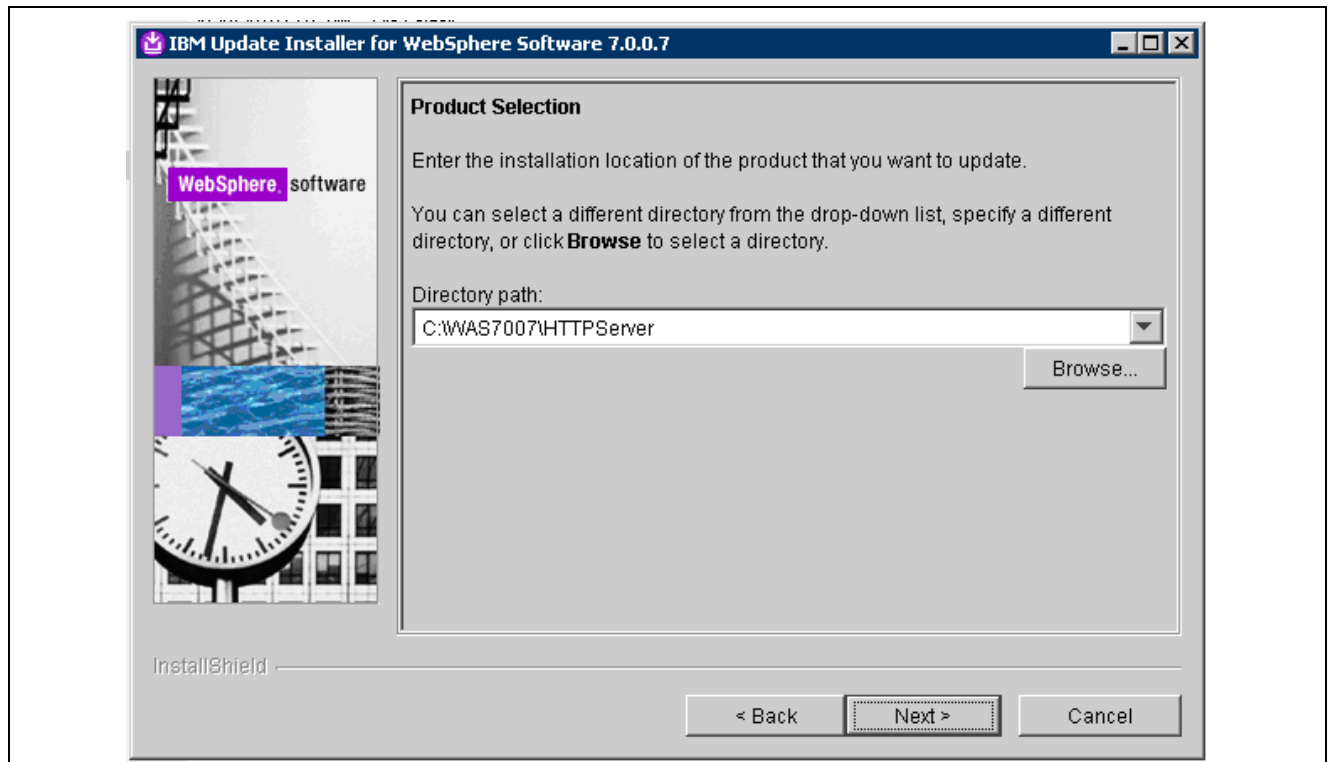
IBM Update Installer Installation Complete window

21. After a successful upgrade, run `HTTPServer_HOME/bin/versioninfo.bat` to verify that the IHS version is 7.0.0.7.
See Validating Installation and Reviewing Logs.
22. Copy the `7.0.0-WS-WASSDK-WinX32-FP0000007.pak` from `WAS_INSTALL\FixPacks-7.0.0.7` to `32bit_UPDATEINSTALLER_HOME\maintenance` folder.
23. Run `32bit_UPDATEINSTALLER_HOME\update.bat`.
24. Click Next on the welcome window.



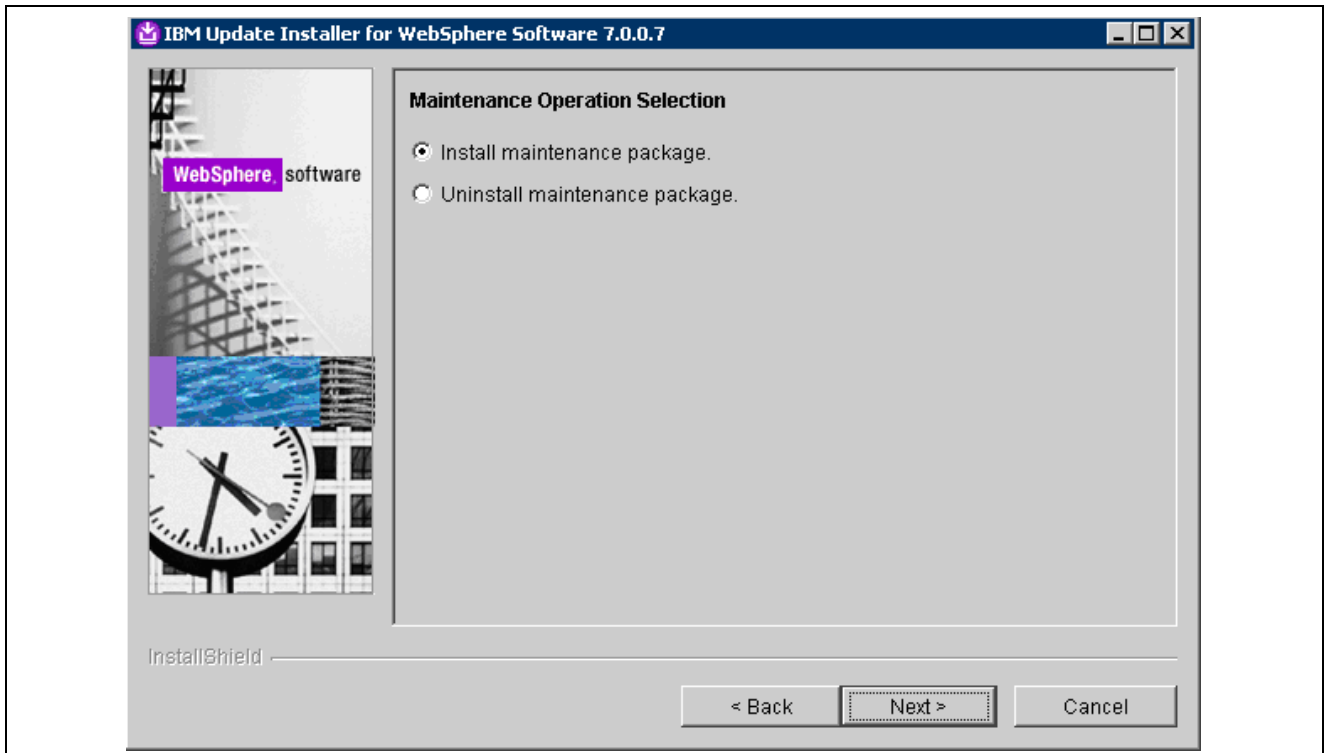
IBM Update Installer for WebSphere Software wizard 32-bit version welcome window

25. Specify the location where you installed the IBM HTTP Server in step 5, *HTTPServer_HOME*.



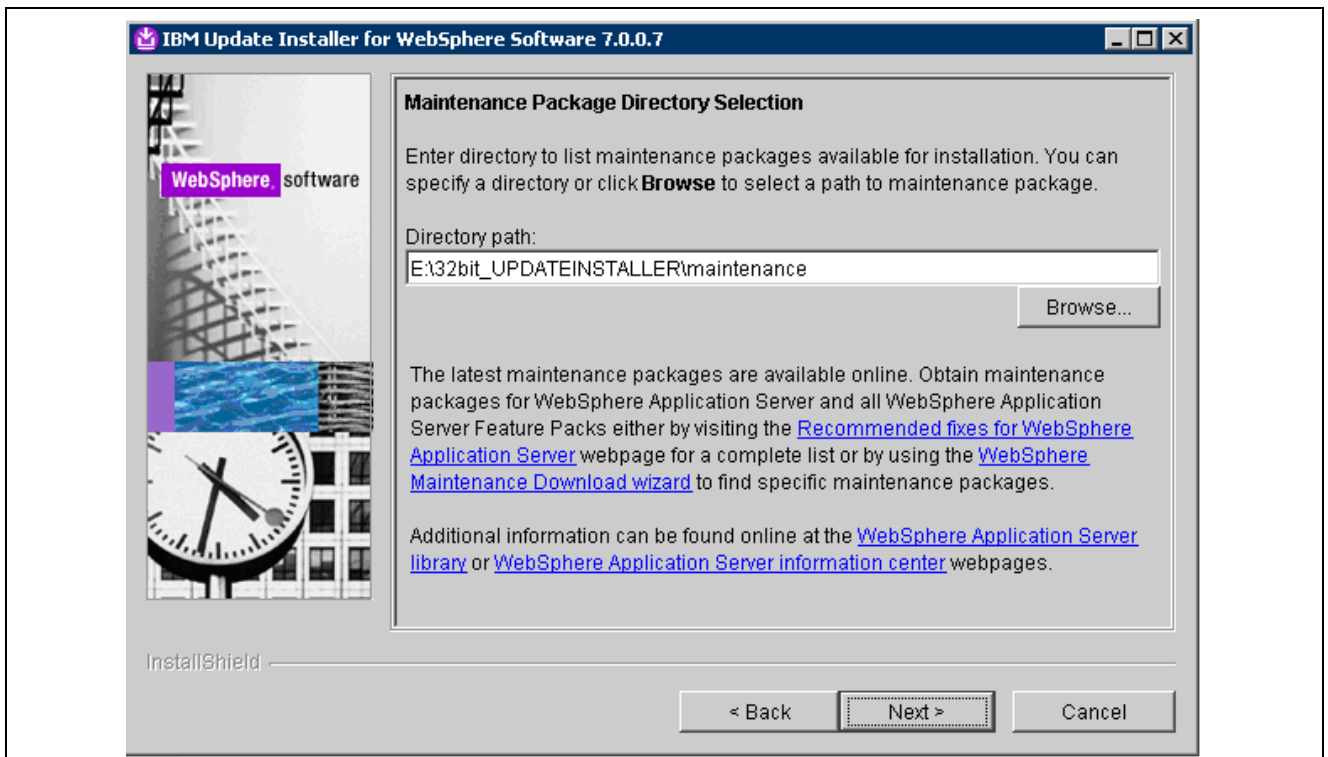
Product Selection window

26. Select the option Install maintenance package, and then click Next.



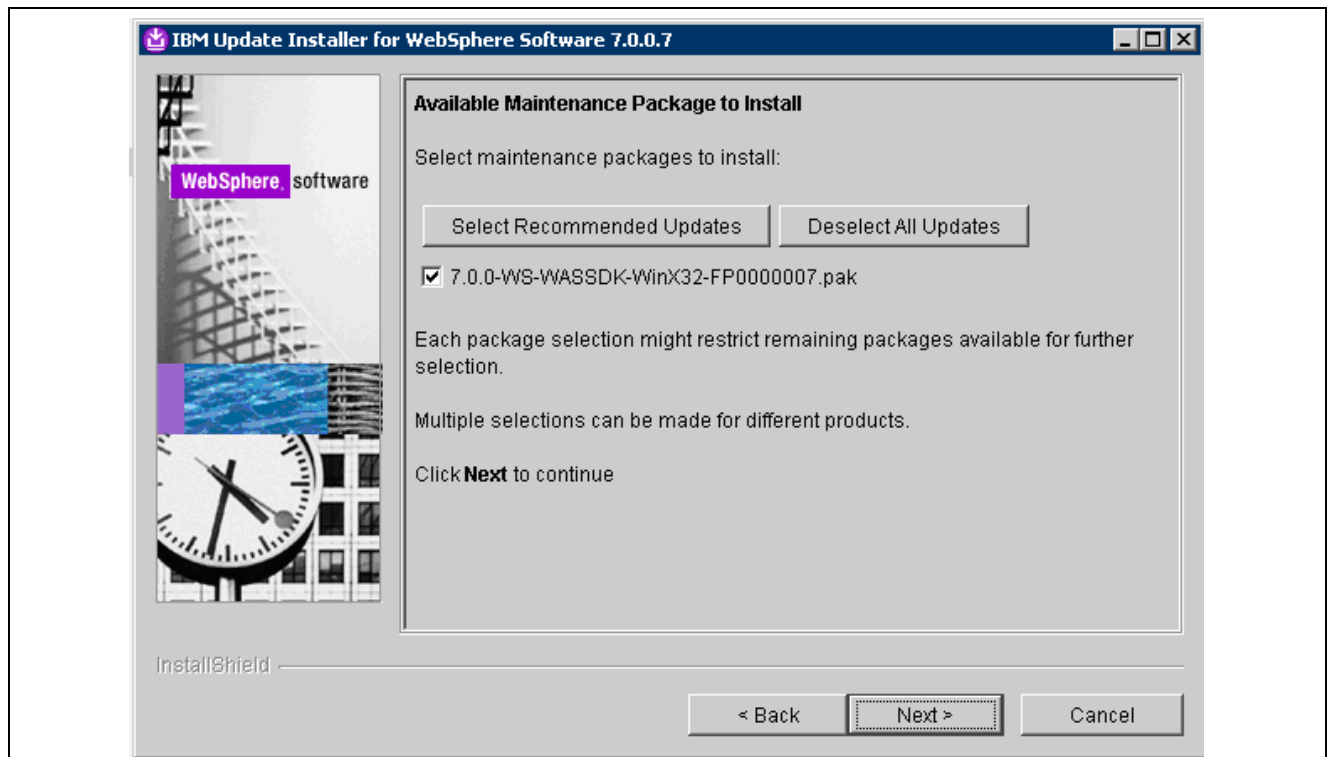
Maintenance Operation Selection window

27. Specify the directory where you saved the fix packs, *64bit_UPDATEINSTALLER_HOME*\maintenance.



Maintenance Package Directory Selection window

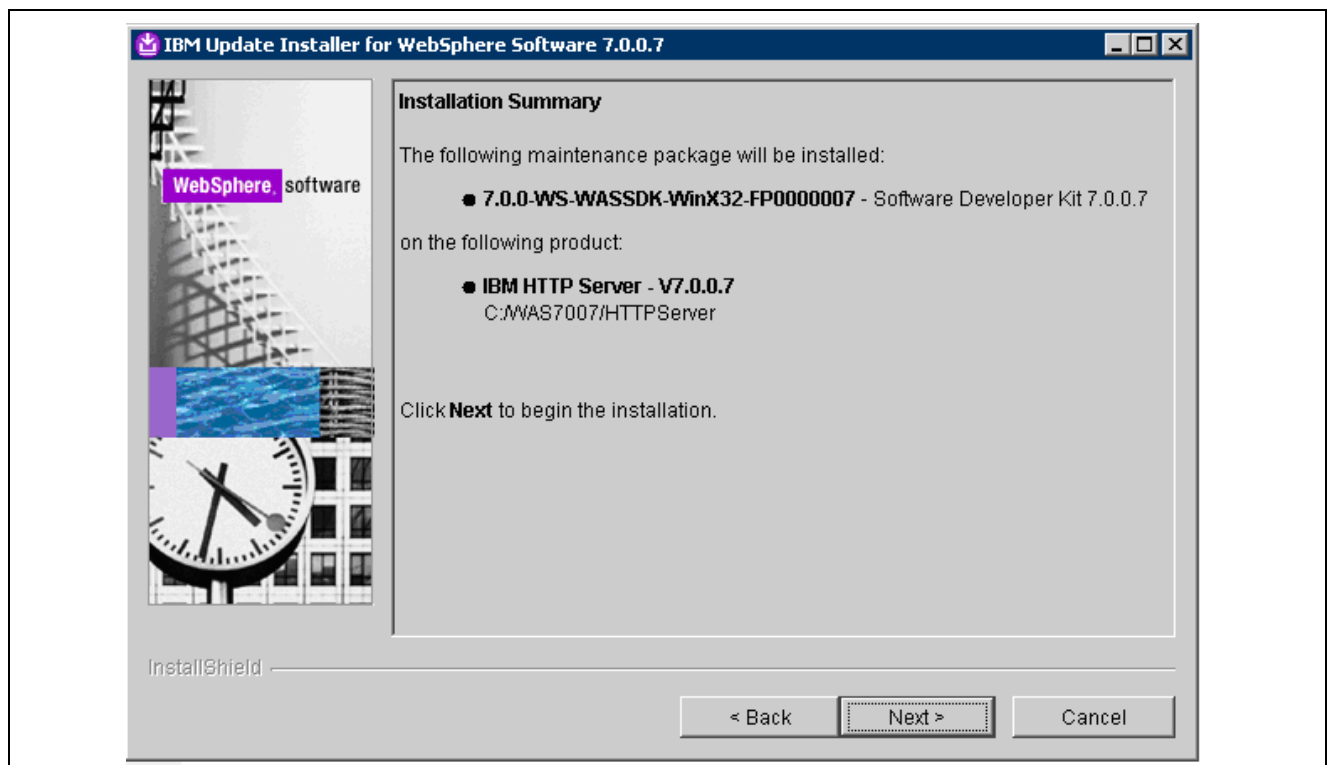
28. Select the fix pack 7.0.0-WS-WASSDK-WinX32-FP0000007.pak to install.



Available Maintenance Package to Install window

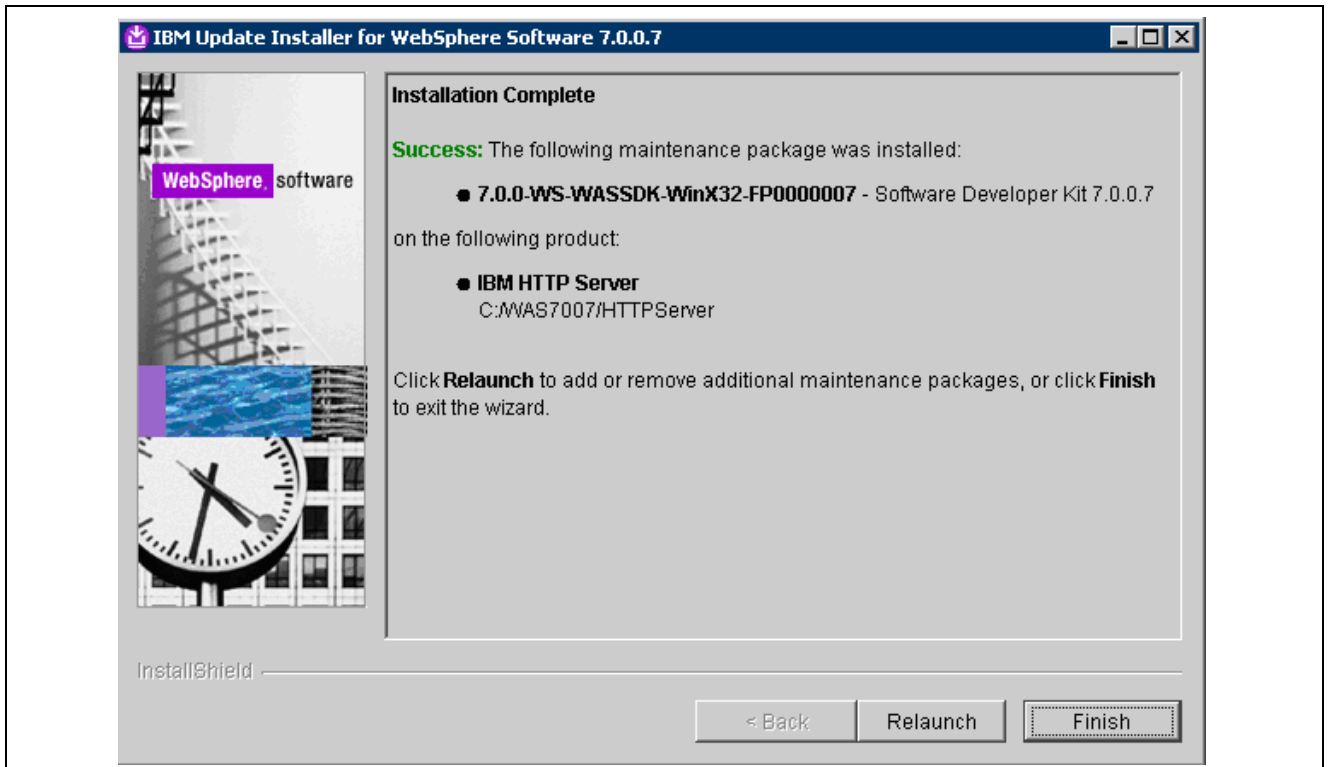
29. Review the installation summary and click Next.

Click Back if you need to make changes.



Installation Summary window

30. Click Finish on the Installation Complete window.



Installation Complete window

Verify that the IHS version is 7.0.0.7 32-bit and that the JRE version is 1.6.0 SR6.

See Validating Installation and Reviewing Log Files.

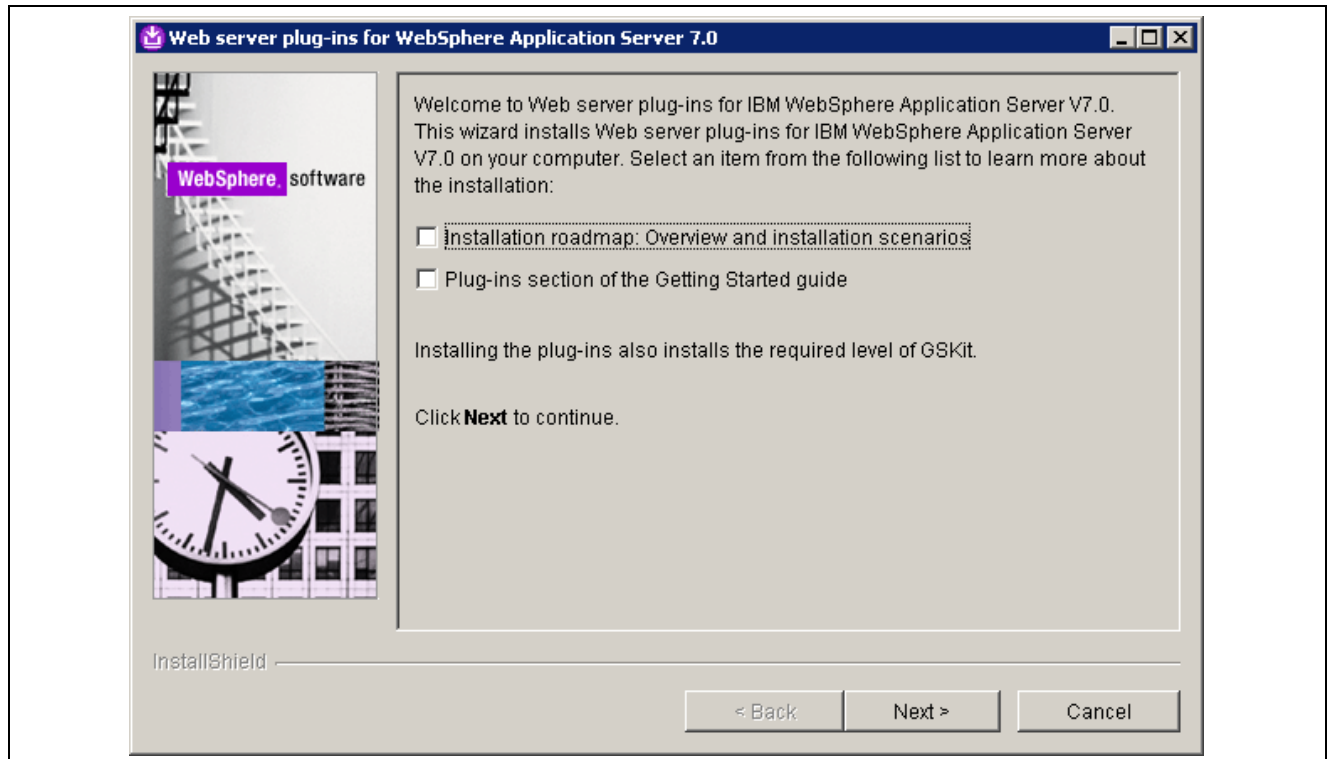
Installing IBM WebSphere Plug-in on Microsoft Windows

To install the plug-in:

1. Run `WAS_INSTALL\C1G2KML\Plugin\install.exe`.
2. Clear the two check boxes on the welcome window and click Next.

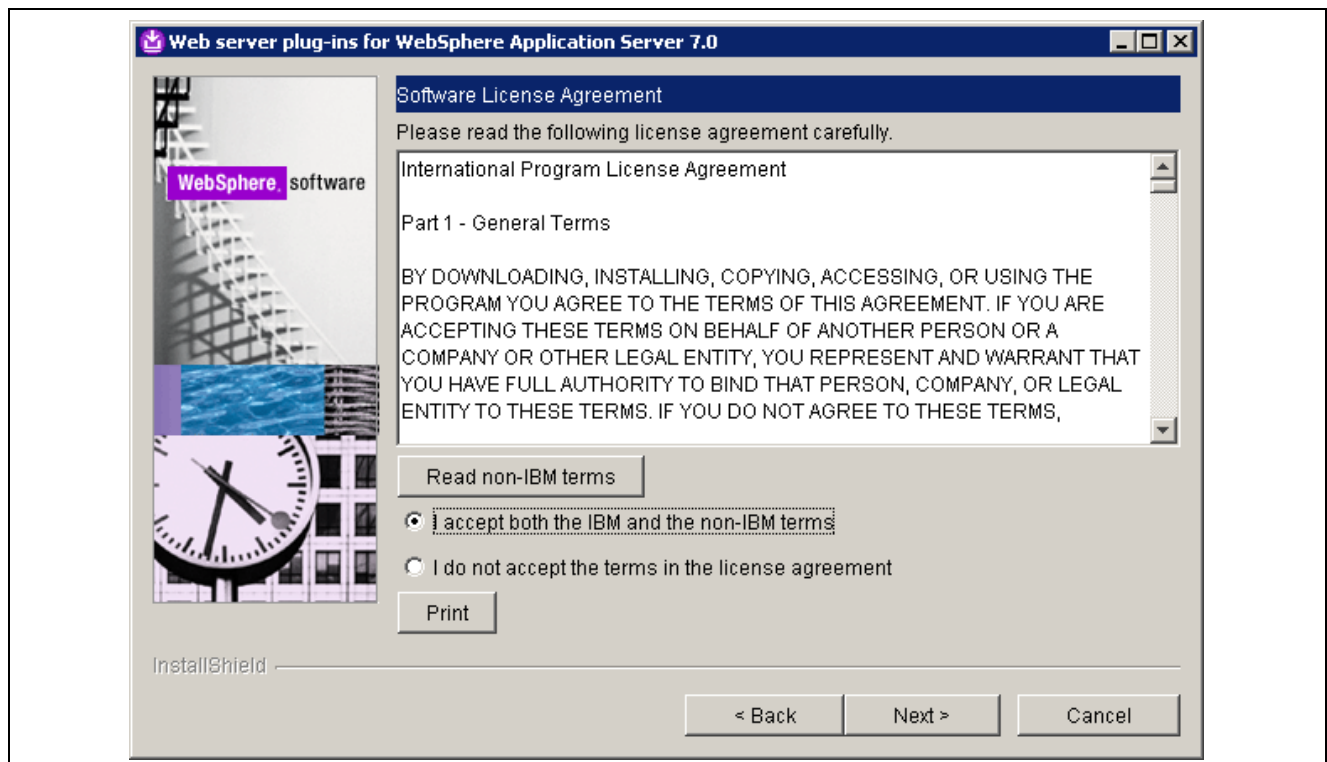
The window includes the statement “Installing the plug-ins also installs the required level of GSKit.”

Note. If you prefer to review the additional information from IBM, select the check boxes for Installation roadmap: Overview and installation scenarios, and Plug-ins section of the Getting Started guide.



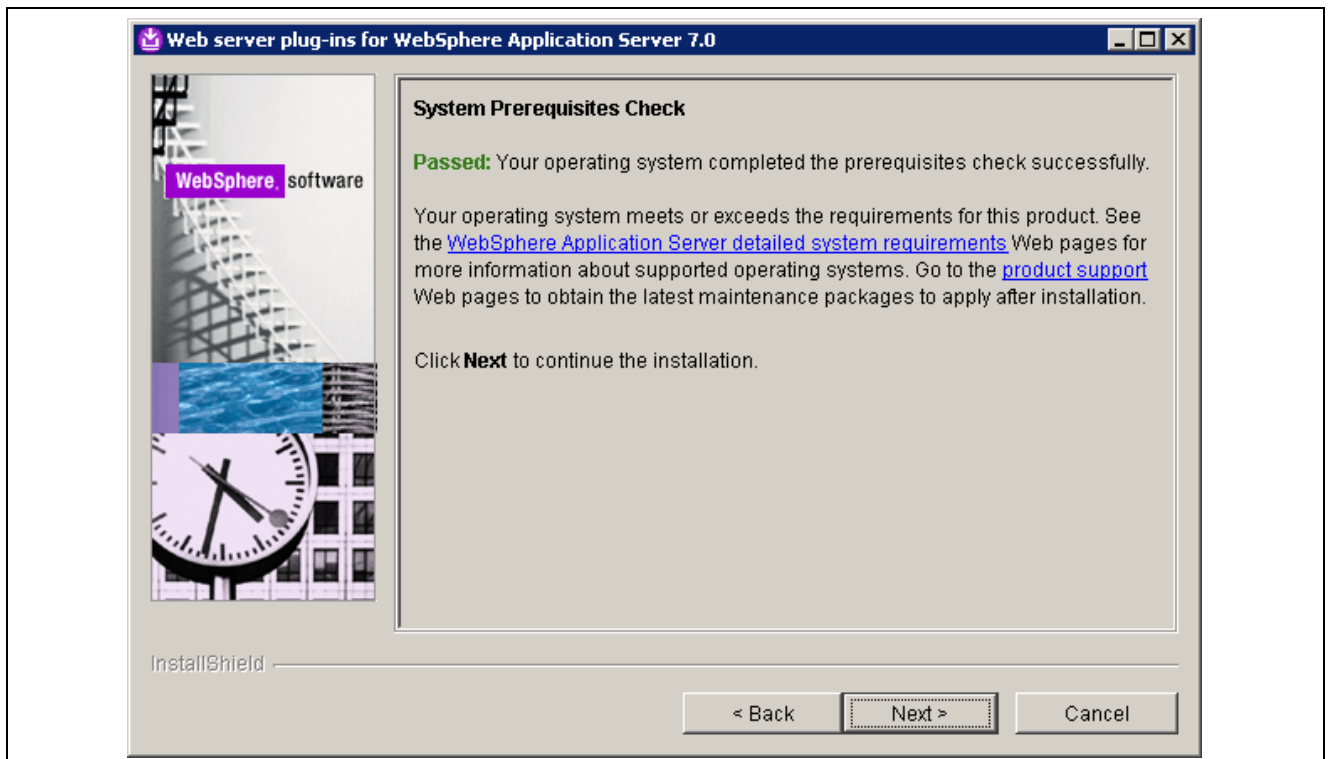
Web server plug-ins for WebSphere Application Server window

3. Read the license agreement, select the option to agree to both IBM and non-IBM terms, and click Next.



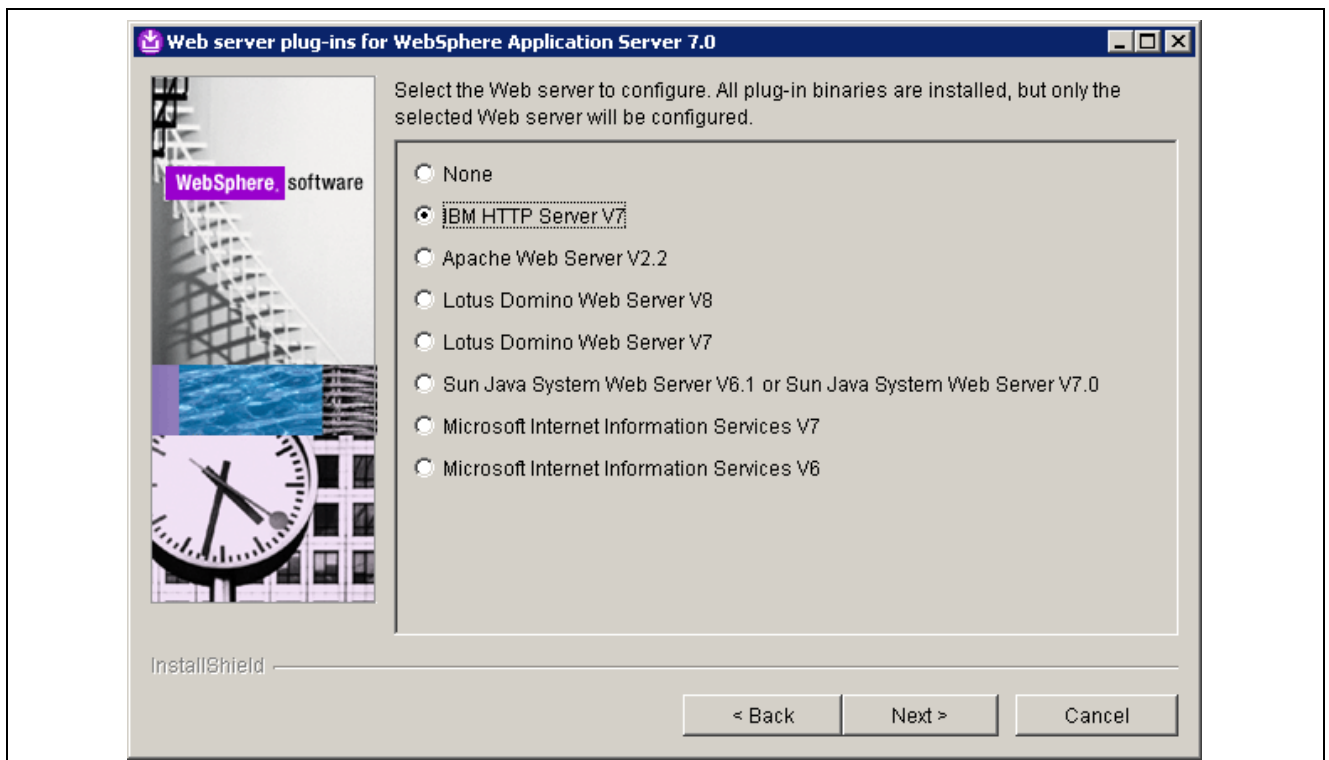
Web server plug-ins for WebSphere Application Server software license agreement window

4. Click Next on the system prerequisites check window.



Web server plug-ins for WebSphere Application Server System Prerequisites Check window

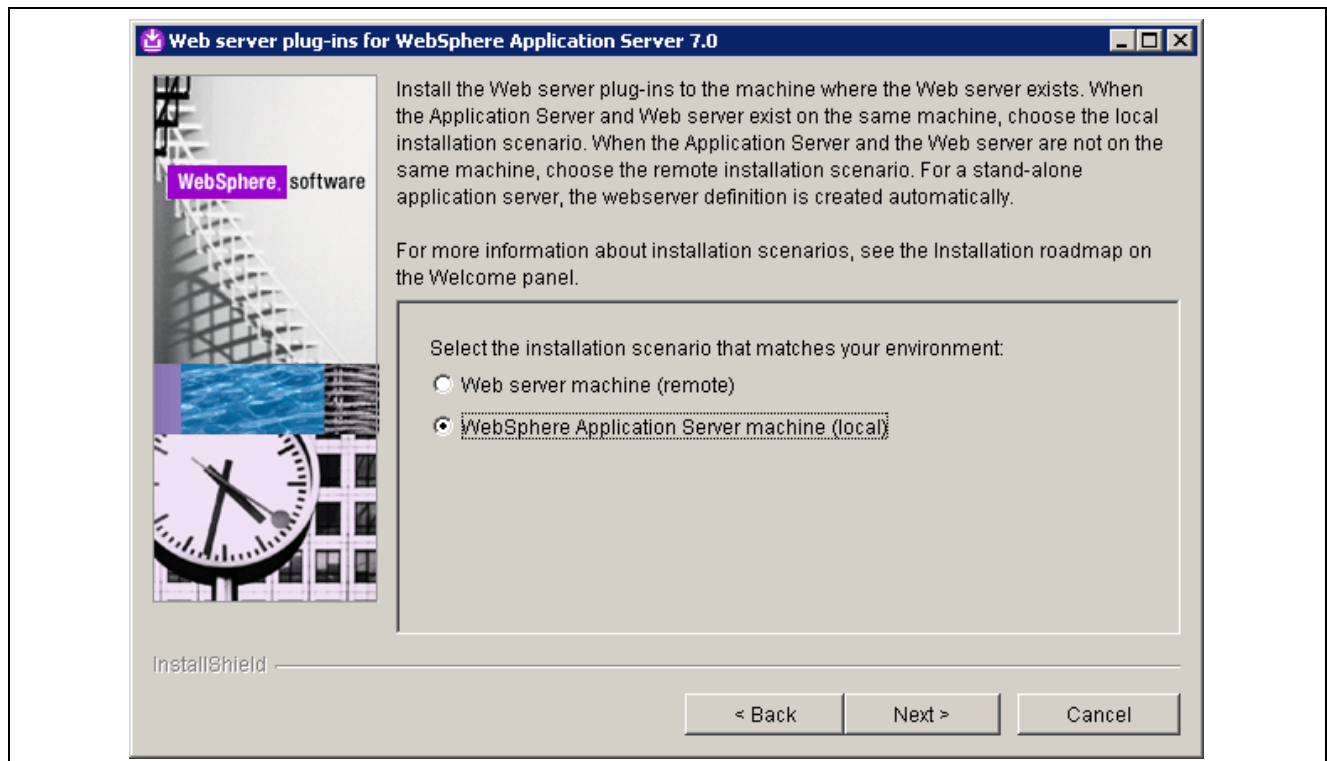
5. Select the option IBM HTTP Server V7 and click Next.



Web server plug-ins for WebSphere Application Server web server selection window

6. Select the type of installation, either remote or local machine, and click Next.

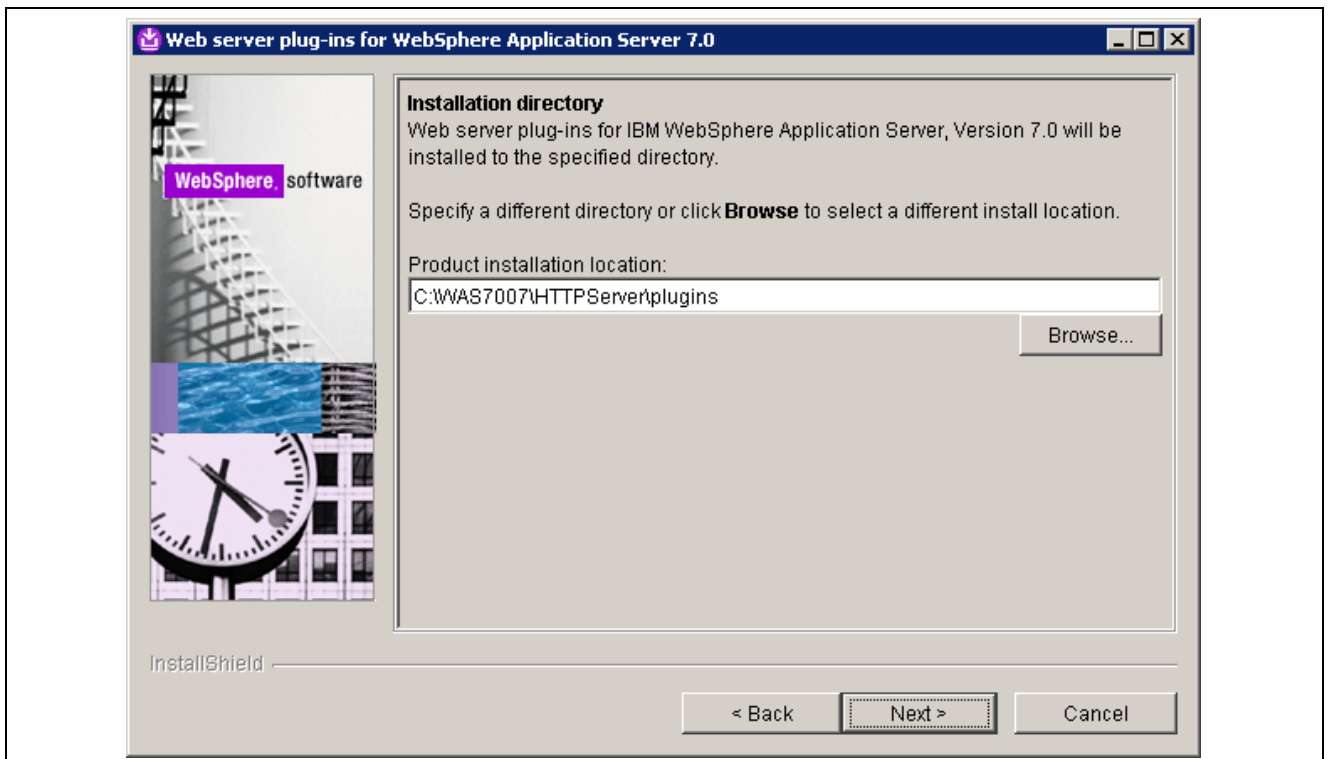
This example selects the option WebSphere Application Server machine (local).



Web server plug-ins for WebSphere Application Server installation scenario selection window

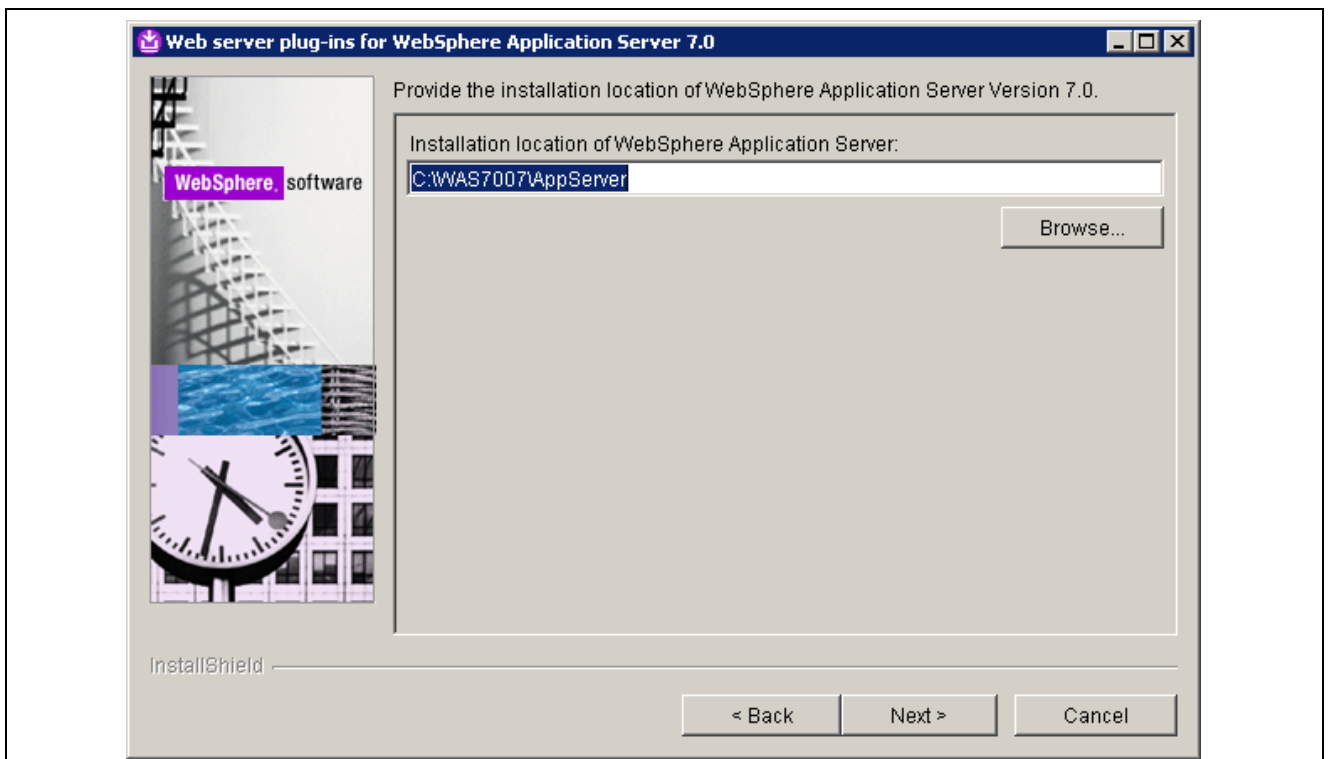
7. Specify the installation directory for the plug-ins, *Plugin_HOME*.

The default location is C:\Program Files\IBM\HTTPServer\Plugins. This example uses C:\WAS7007\HTTPServer\plugins.



Web server plug-ins for WebSphere Application Server Installation directory window

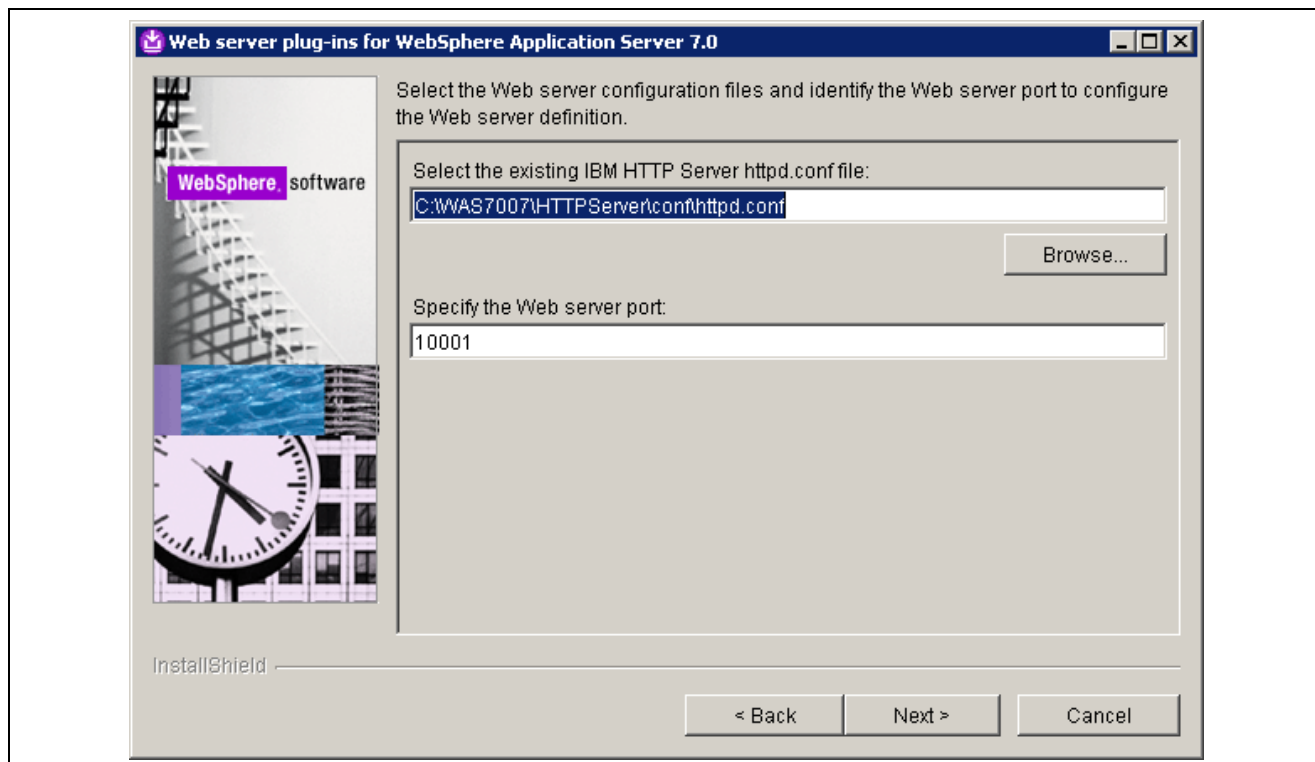
8. Specify the IBM WebSphere installation directory, *WAS_HOME* (C:\WAS7007\AppServer in this example), and then click next.



Specifying the IBM WebSphere Application Server installation directory

9. Enter the IBM HTTP Server configuration file (httpd.conf) location and the HTTP port number that you specified when installing the IBM HTTP Server, and then click Next.

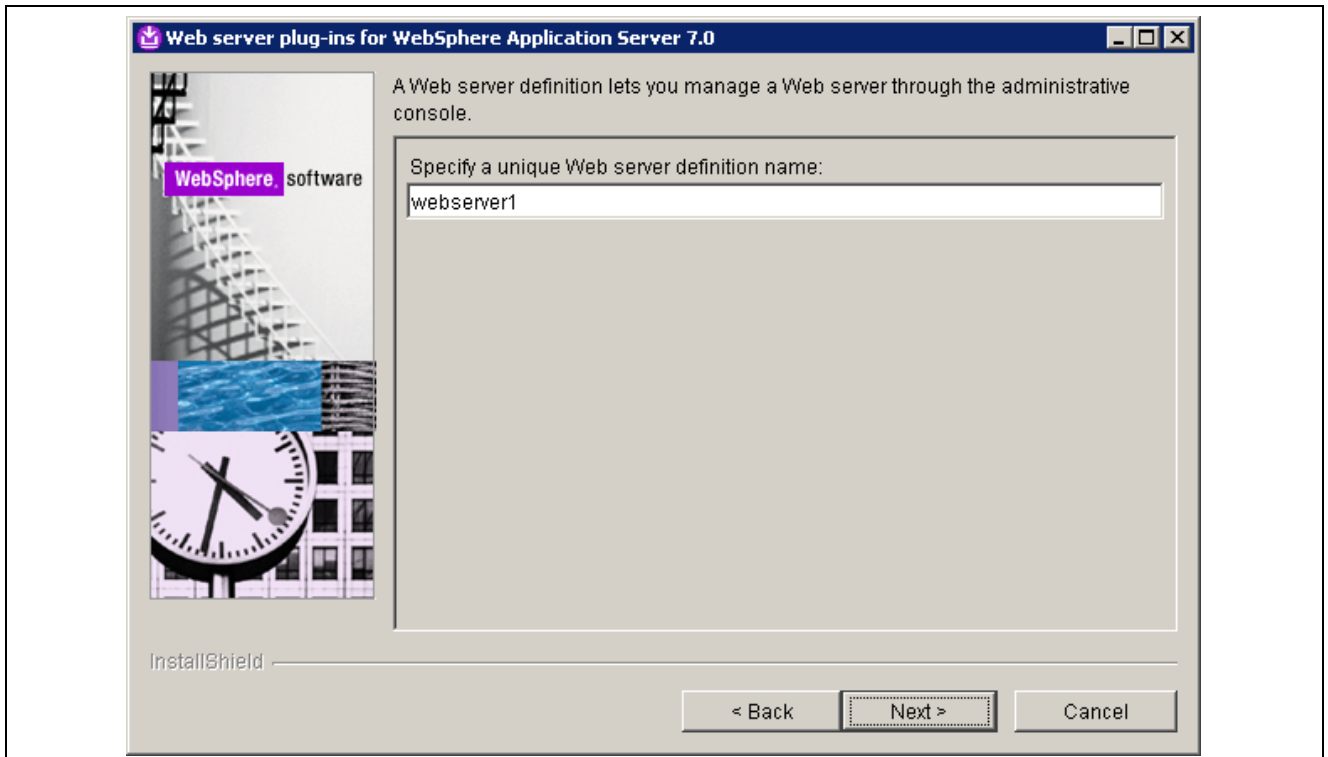
In this example, the configuration file is C:\WAS7007\HTTPServer\conf\httpd.conf, and the web server HTTP port is 10001.



Specifying the web server configuration file and port

10. Accept the default name for the web server definition or enter a new name.

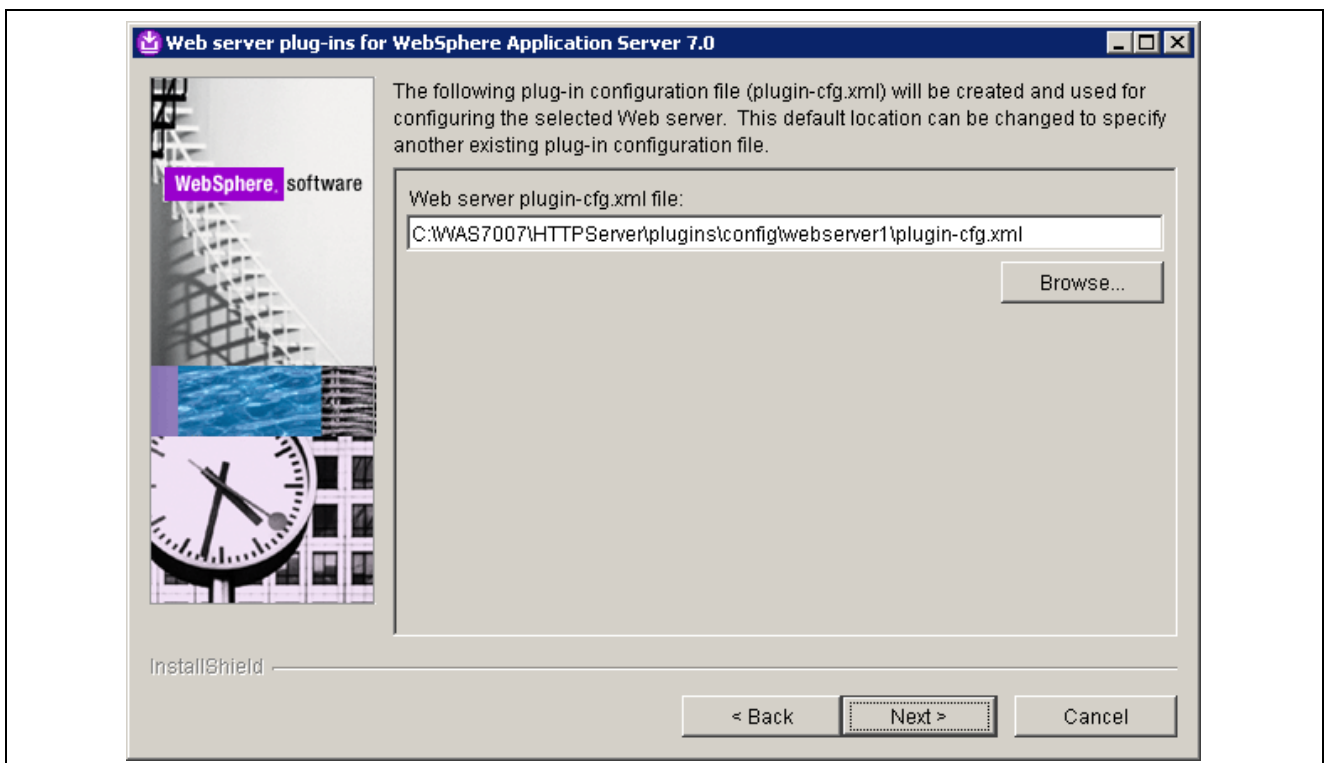
You can use the web server definition to manage the web server through the administrative console. This must be a unique name. This example uses the default name, webserver1.



Specifying a web server definition name

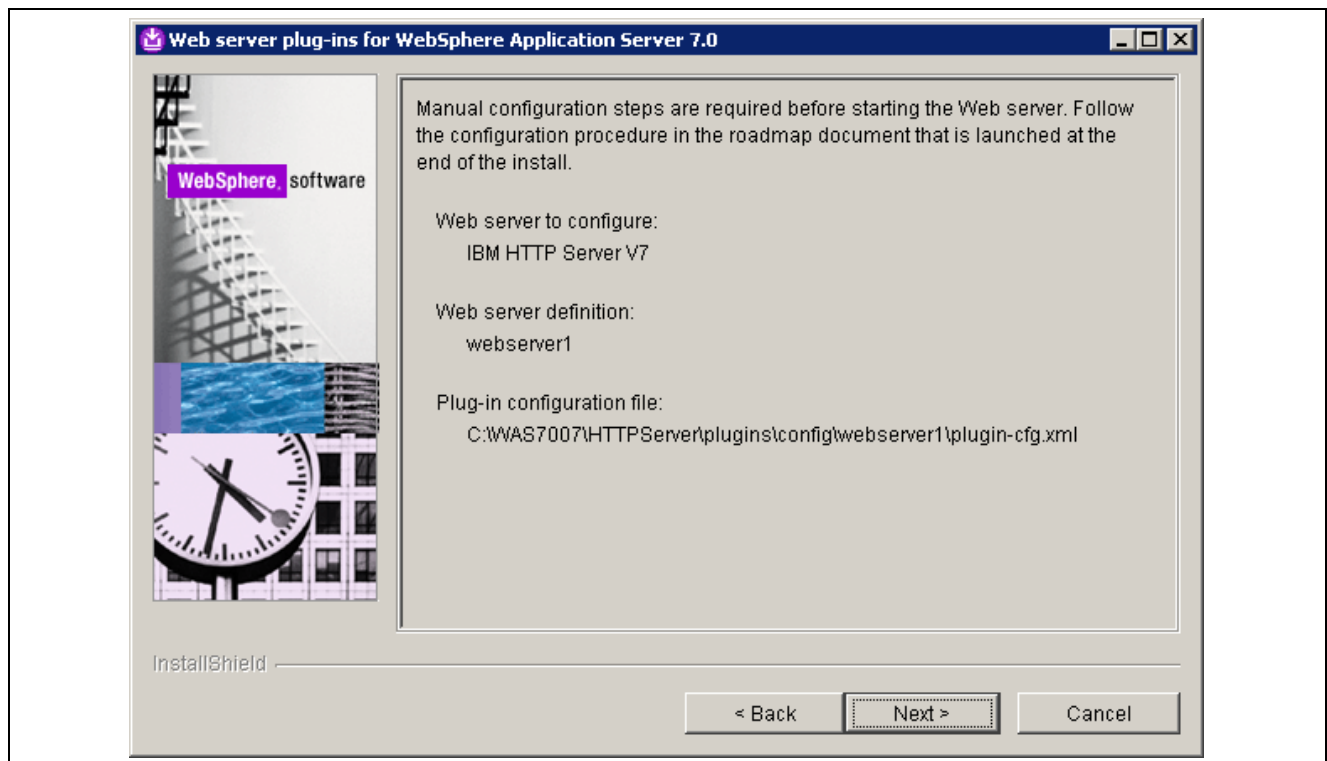
11. Accept the default location for the plug-in configuration file, plugin-cfg.xml, and click Next.

In this example, the location is C:\WAS7007\HTTPServer\plugins\config\webserver1\plugin-cfg.xml.



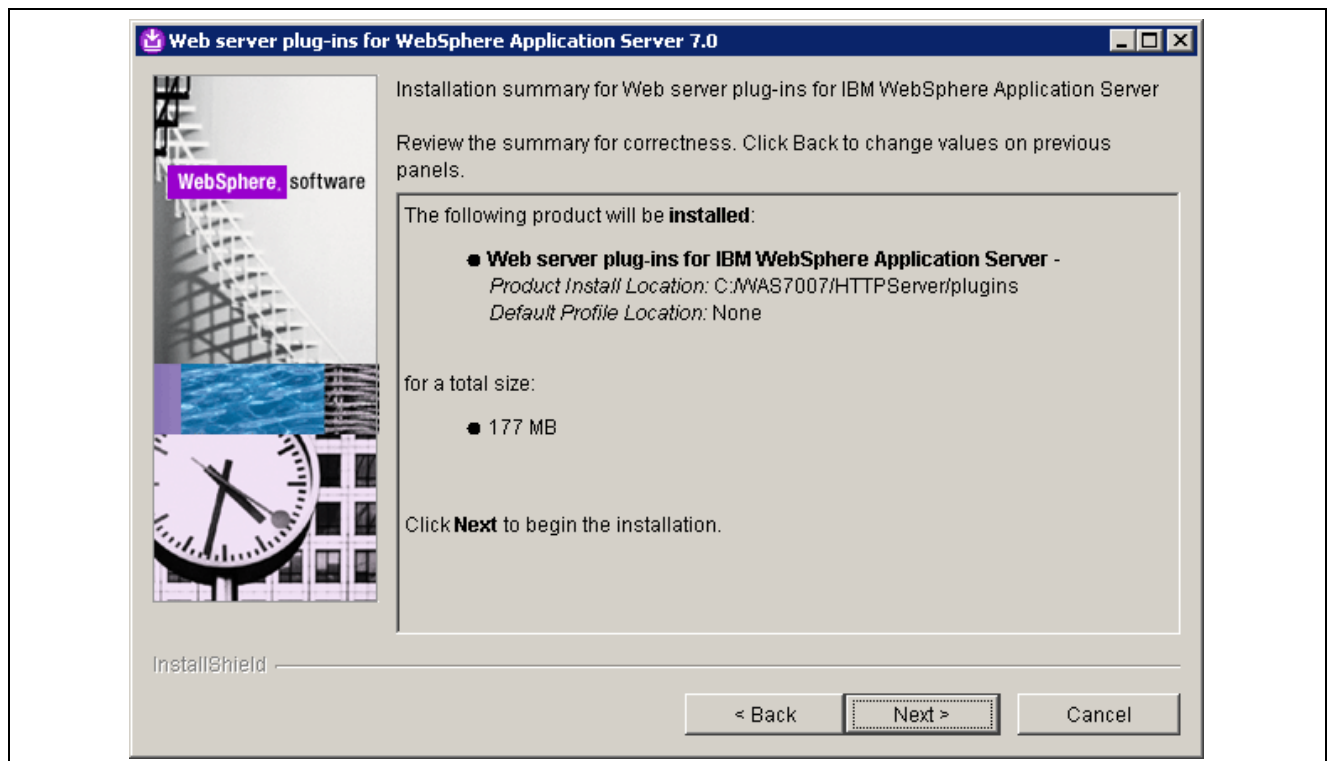
Specifying the plug-in configuration file location

12. Click Next.



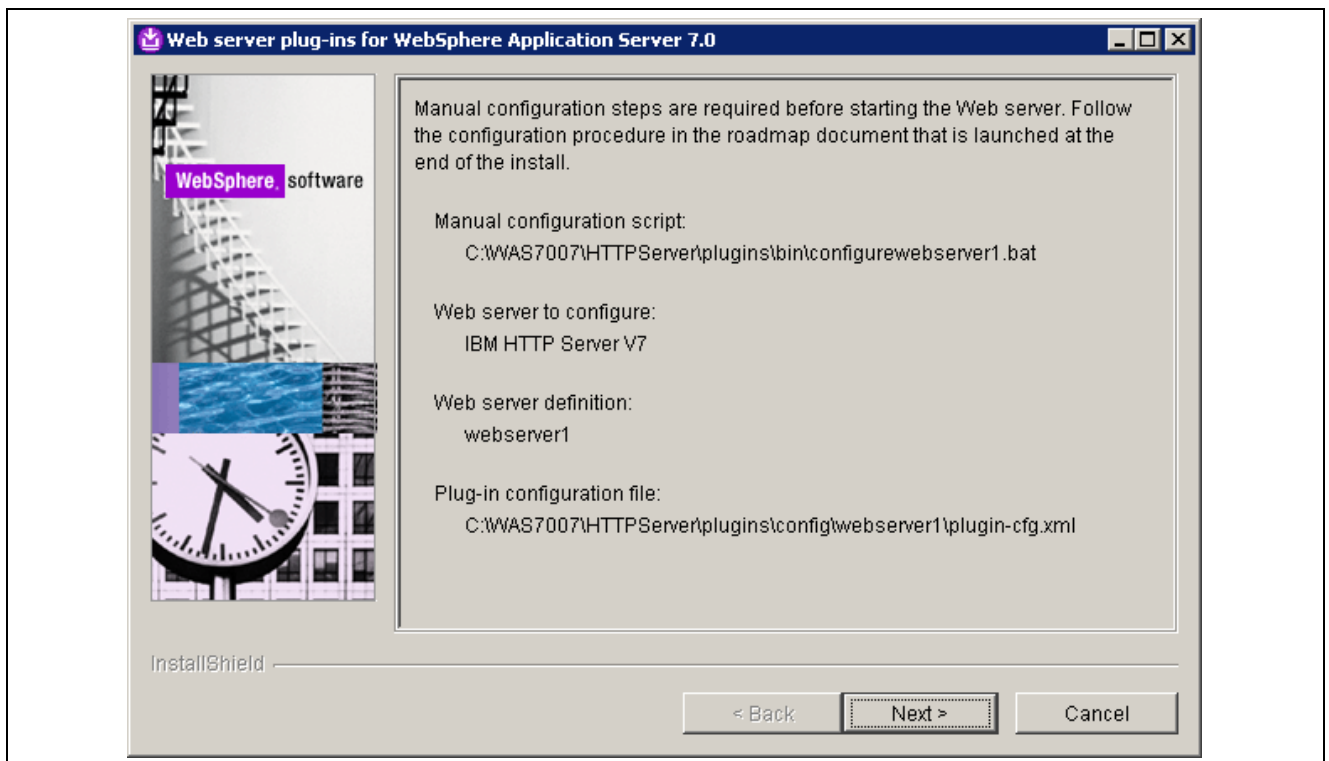
Plugin configuration file information window

13. Review the installation summary and click Next.



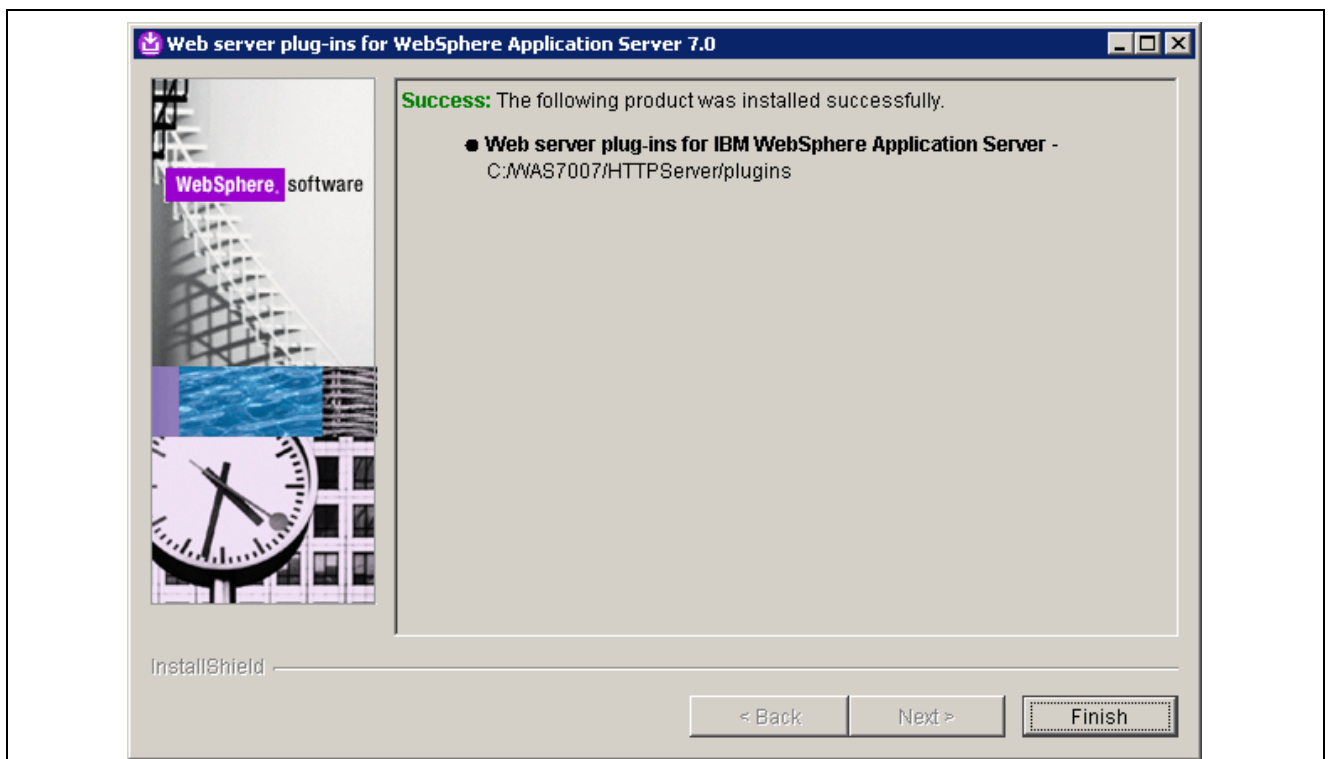
Web server plug-ins for WebSphere Application Server installation summary window

14. Click Next.



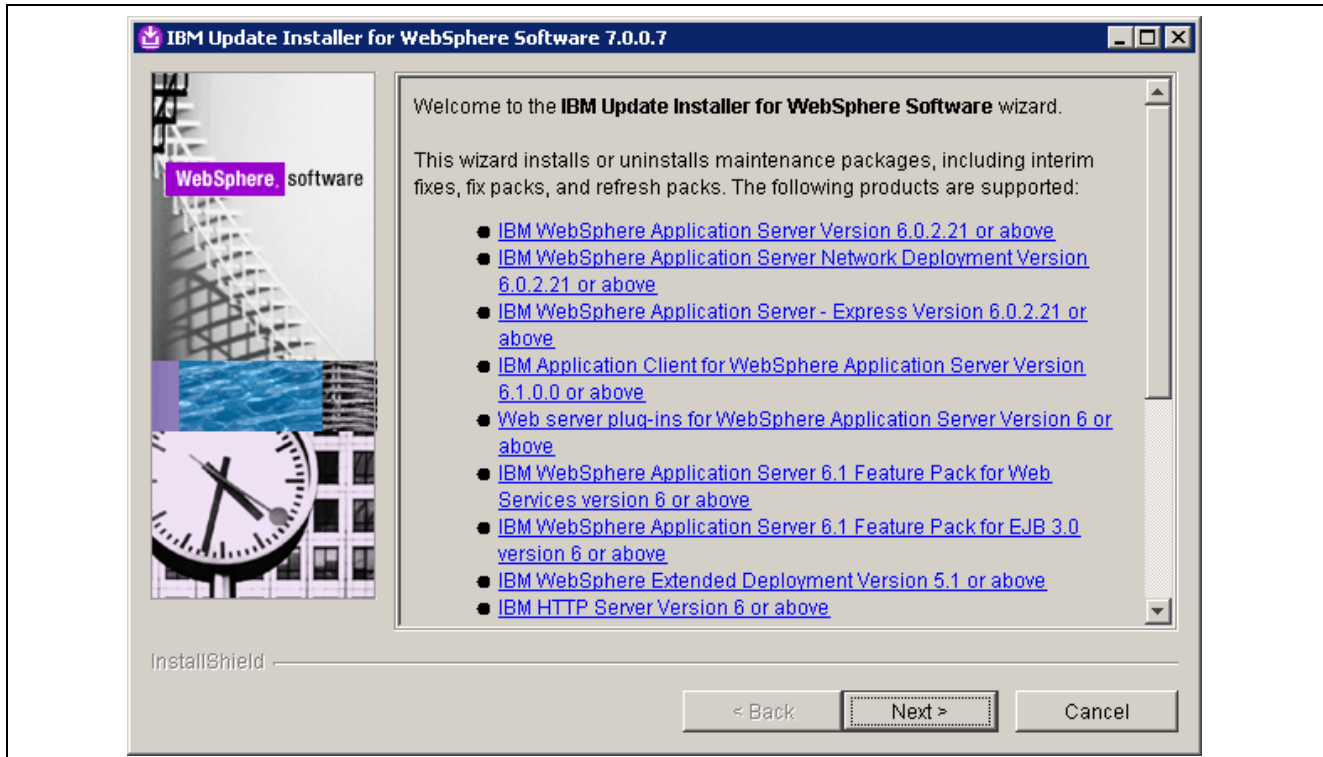
Web server plug-in installation information window

15. Click Finish to exit.



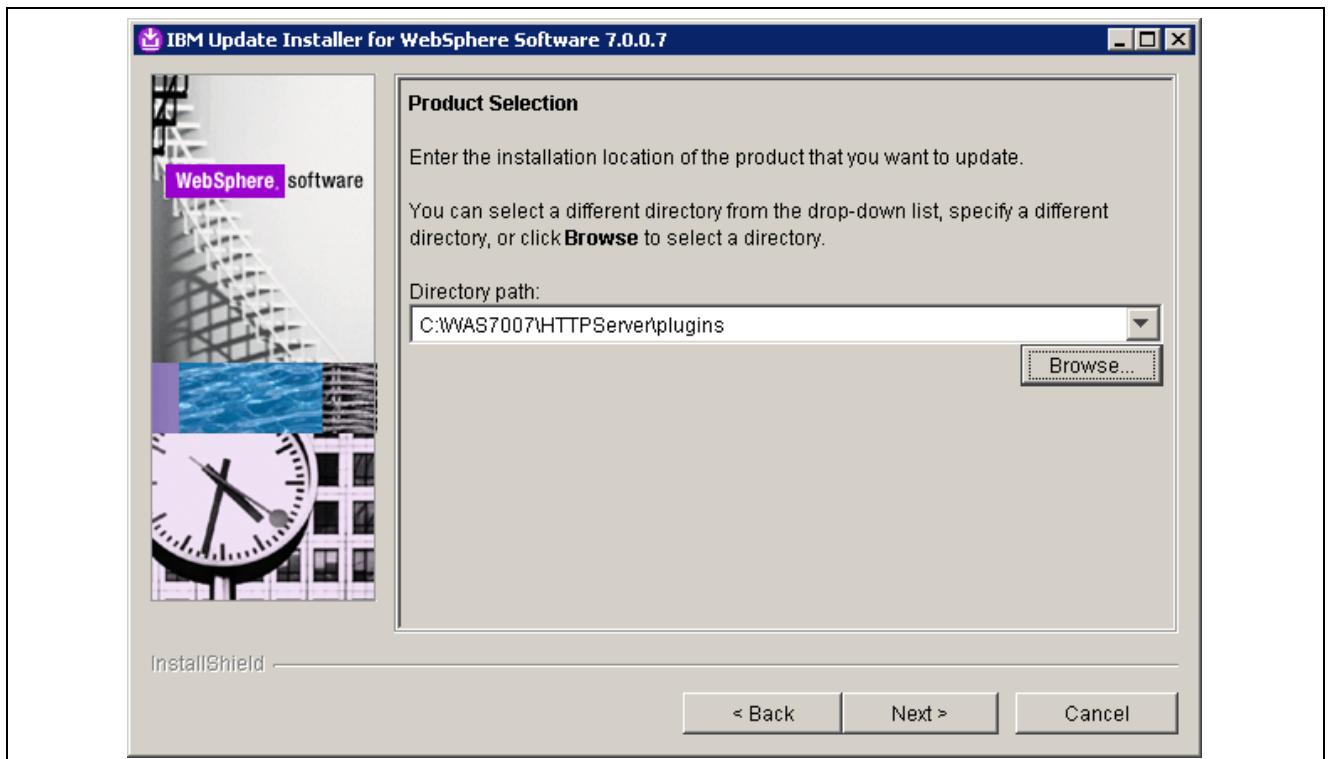
Web Server plug-ins for WebSphere Application Server installation success window

16. Copy the 7.0.0-WS-PLG-WinX64-FP0000007.pak and 7.0.0-WS-WASSDK-WinX64-FP0000007.pak from *WAS_INSTALL\FixPacks-7.0.0.7* to *64bit_UPDATEINSTALLER_HOME\maintenance* folder.
17. Run *64bit_UPDATEINSTALLER_HOME\update.bat*.
18. Click Next on the welcome window for the update installer.



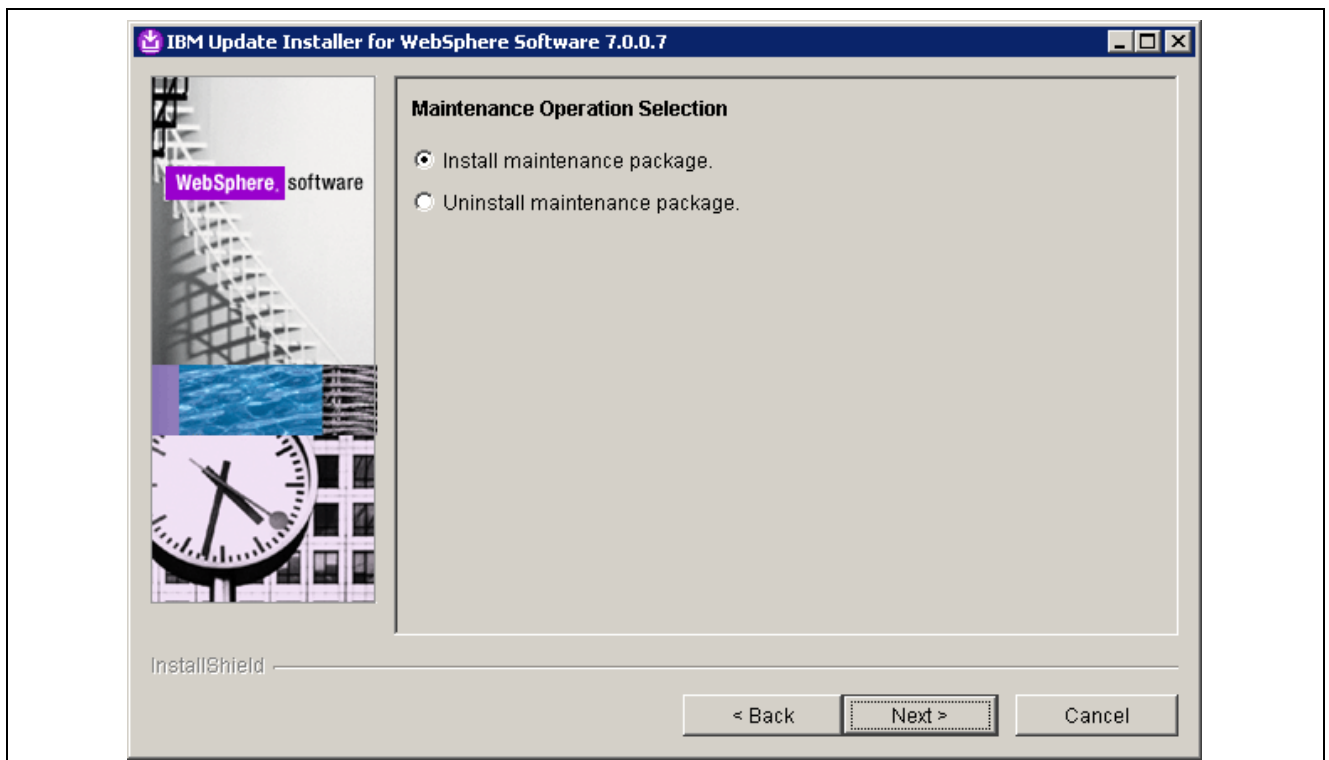
IBM Update Installer for WebSphere Software welcome window

19. Specify the installation directory for the plug-ins, *Plugin_HOME*.
In this example, the installation directory is *C:\WAS7007\HTTPServer\plugins*.



Update Installer Product Selection window

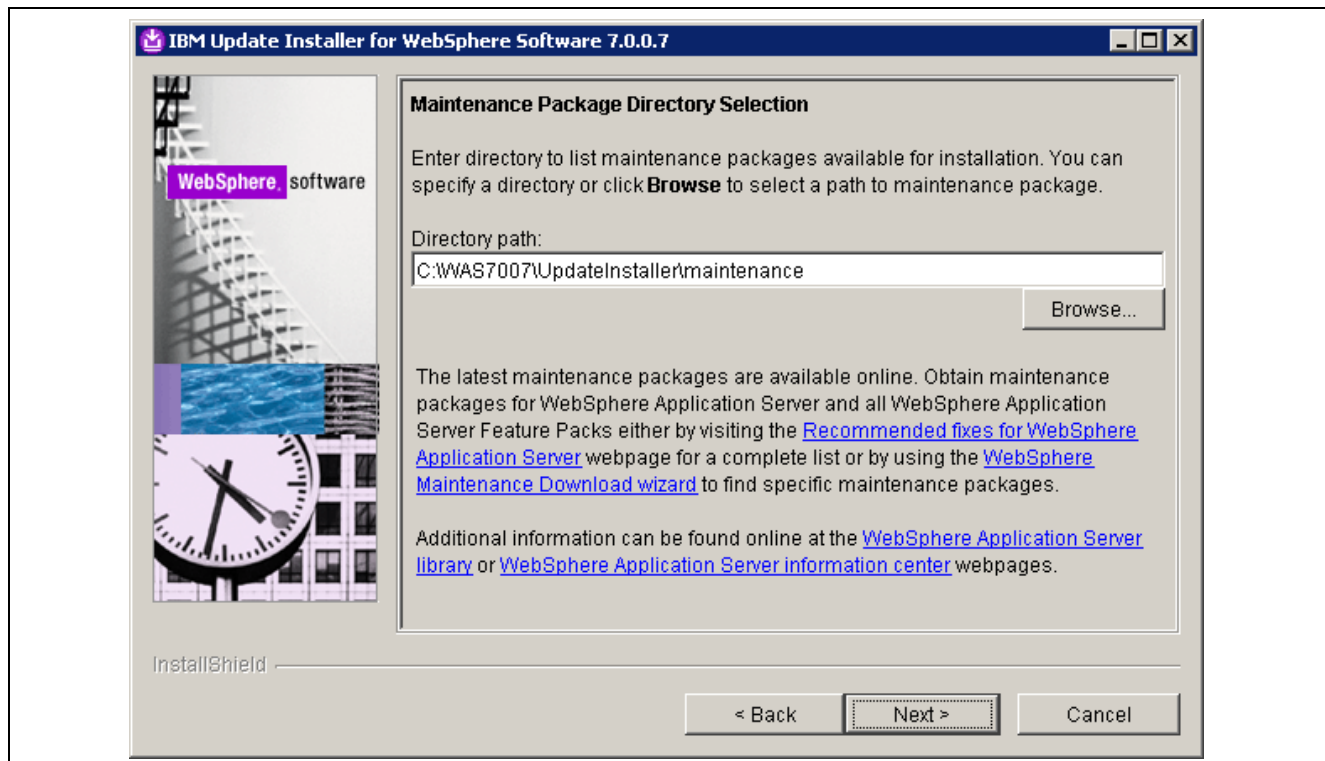
20. Select the option Install maintenance package.



Update Installer Maintenance Operation Selection window

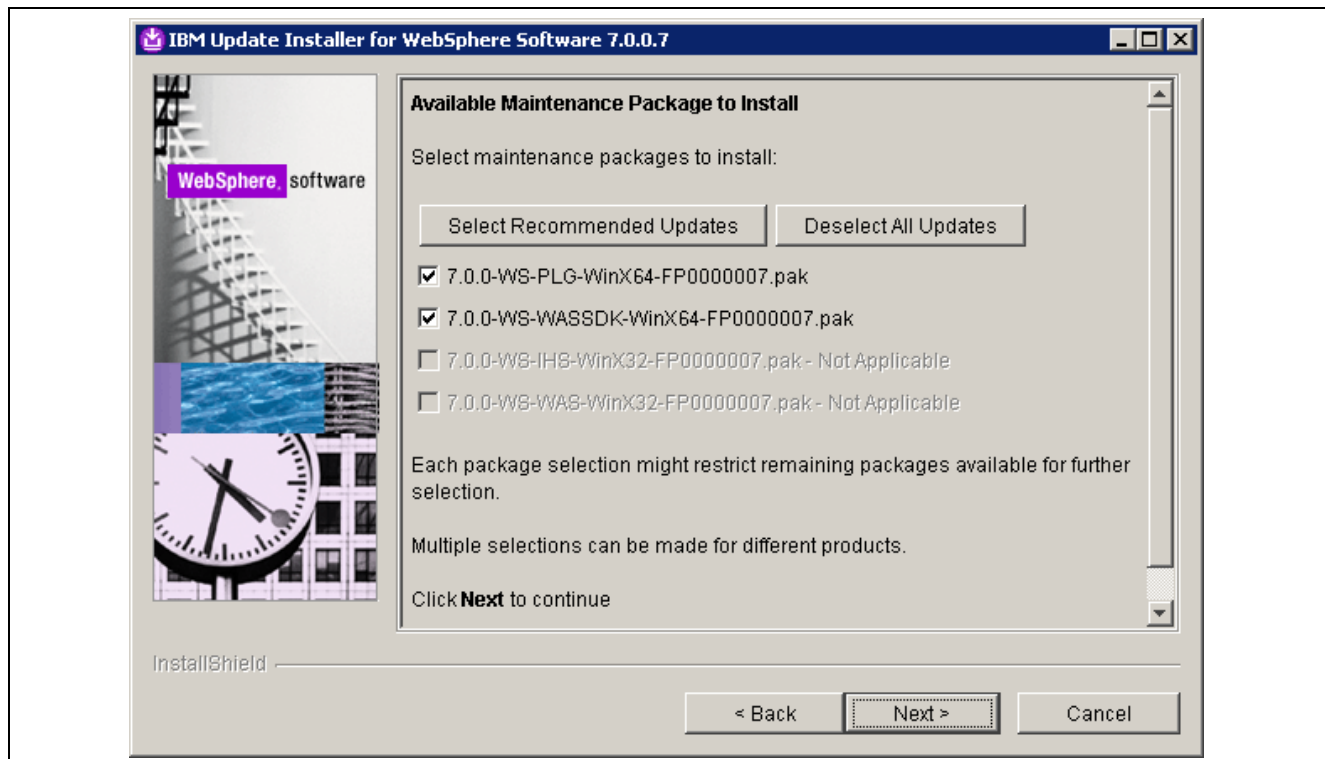
21. Specify the directory where you saved the fix packs, *64bit_UPDATEINSTALLER_HOME*\maintenance.

In this example, the directory with the fix packs is C:\WAS7007\UpdateInstaller\maintenance.



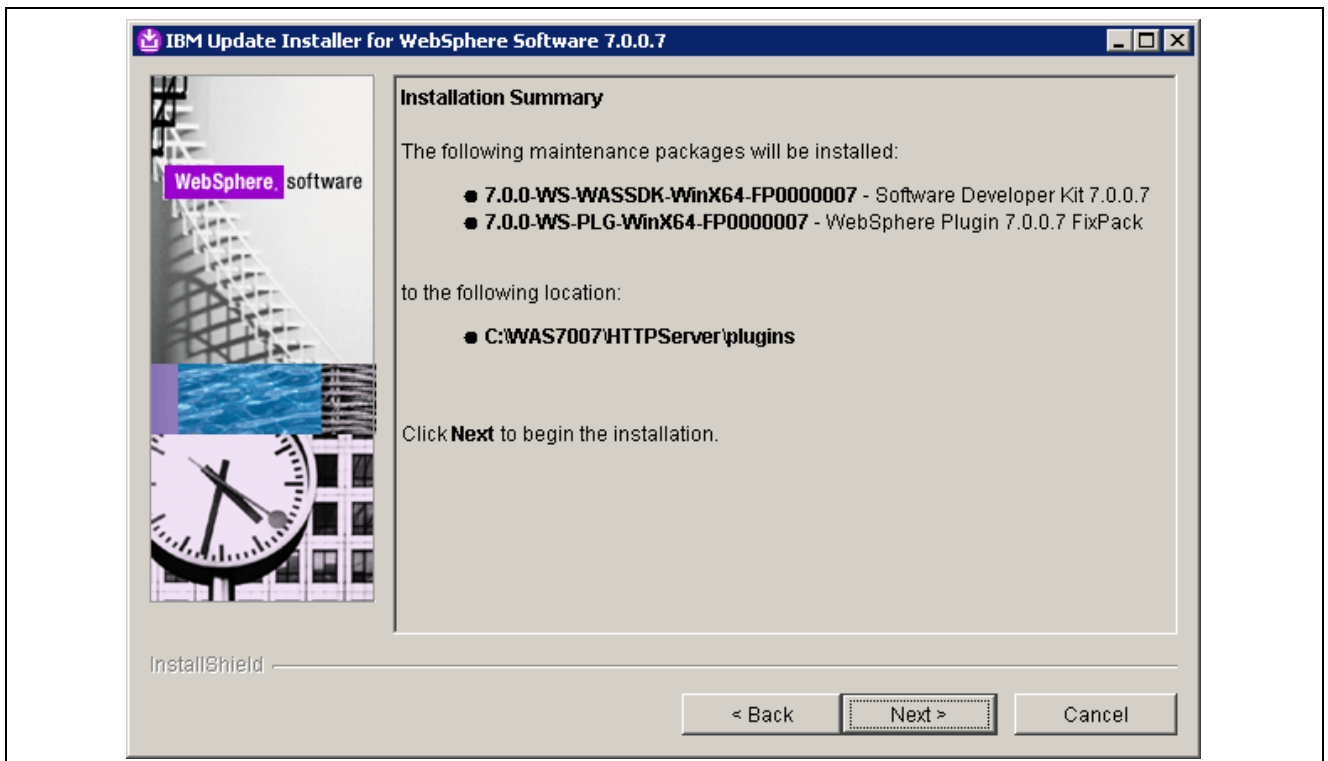
Update Installer Maintenance Package Directory Selection

22. Select the fix packs 7.0.0-WS-PLG-WinX64-FP0000007.pak and 7.0.0-WS-WASSDK-WinX64-FP0000007.pak to install.



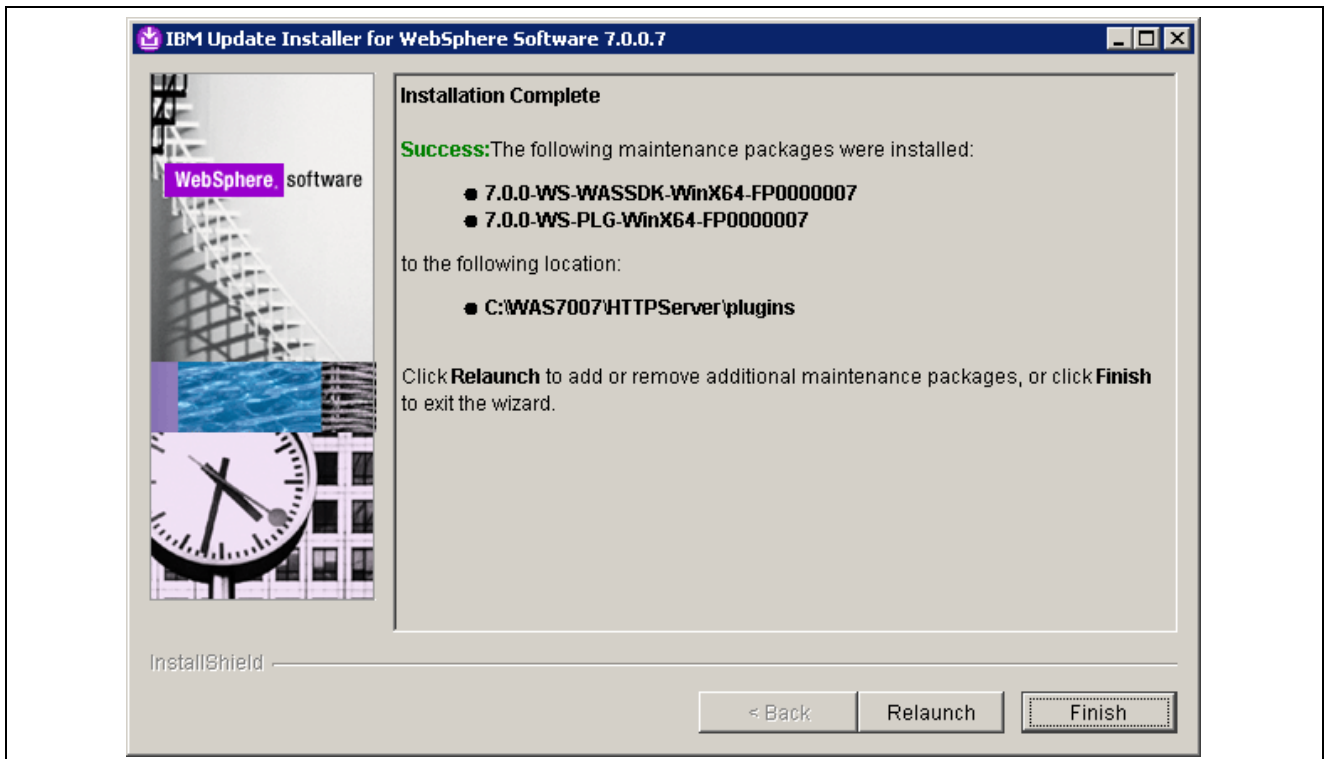
Update Installer Available Maintenance Package to Install window

23. Review the installation summary and click Next.



Update Installer Installation Summary window

24. Click Finish to exit.



Update Installer Installation Complete window

Task 2-2-6: Installing IBM HTTP Server 7.0.0.7 and Plug-in 7.0.0.7 on HP-UX Itanium or Solaris

This section discusses:

- Installing IBM HTTP Server on HP-UX Itanium or Solaris
- Installing IBM WebSphere Plug-in on HP-UX Itanium or Solaris

Installing IBM HTTP Server on HP-UX Itanium or Solaris

This section assumes that you downloaded and extracted the installation files as described above. To install IHS 7.0.0.7:

1. Install the IHS software and follow the steps described for Microsoft Windows.

See Installing IBM HTTP Server on Microsoft Windows.

- On HP-UX Itanium run:

```
WAS_INSTALL/C1G2WML/IHS/install
```

- On Solaris run:

```
WAS_INSTALL/C1G2IML/IHS/install
```

2. Copy the following fix packs from *WAS_INSTALL/FixPacks-7.0.0.7* to *64bit_UPDATEINSTALLER_HOME/maintenance* folder.

- HP-UX Itanium:

7.0.0-WS-IHS-HpuxIA64-FP0000007.pak and 7.0.0-WS-WASSDK-HpuxIA64-FP0000007.pak

- Solaris:

7.0.0-WS-IHS-SolarisSparc64-FP0000007.pak and 7.0.0-WS-WASSDK-SolarisSparc64-FP0000007.pak

3. Run the 64-bit update installer and follow the steps described for Microsoft Windows:

```
64bit_UPDATEINSTALLER_HOME/update.sh
```

Verify that IHS is at the correct version.

See Validating Installation and Reviewing Logs.

Installing IBM WebSphere Plug-in on HP-UX Itanium or Solaris

To install the plug-in:

1. Run the plug-in installation and follow the steps described for Microsoft Windows

- On HP-UX Itanium run:

```
WAS_INSTALL/C1G2XML/Plugin/install
```

- On Solaris run:

```
WAS_INSTALL/C1G2KML/Plugin/install
```

2. Copy the following fix packs from *WAS_INSTALL/FixPacks-7.0.0.7* to *64bit_UPDATEINSTALLER_HOME/maintenance* folder:

- HP-UX Itanium:
7.0.0-WS-PLG-HpuxIA64-FP0000007.pak and 7.0.0-WS-WASSDK-HpuxIA64-FP0000007.pak
- Solaris
7.0.0-WS-PLG-SolarisSparc64-FP0000007.pak and 7.0.0-WS-WASSDK-SolarisSparc64-FP0000007.pak

3. Run the 64-bit update installer and follow the steps given for Microsoft Windows:

```
64bit_UPDATEINSTALLER_HOME/update.sh
```

Verify that the plug-in is at the correct version.

See Validating Installation and Reviewing Logs.

Task 2-2-7: Installing IBM HTTP Server 7.0.0.7 and Plug-in 7.0.0.7 on AIX or Linux

This section discusses:

- Installing IBM HTTP Server on AIX or Linux
- Installing IBM WebSphere Plug-in on AIX or Linux

Installing IBM HTTP Server on AIX or Linux

This section assumes that you downloaded and extracted the installation files as described above. To install IHS 7.0.0.7:

1. Run the IHS installation and follow the steps given for Microsoft Windows.

See Installing IBM HTTP Server on Microsoft Windows

- On AIX run:

```
WAS_INSTALL/C1G2RML/IHS/install
```

- On Linux run:

```
WAS_INSTALL/C1G36ML/IHS/install
```

2. Copy the following fix packs from *WAS_INSTALL/FixPacks-7.0.0.7* to *64bit_UPDATEINSTALLER_HOME/maintenance* folder.

- AIX:

```
7.0.0-WS-IHS-AixPPC64-FP0000007.pak
```

- Linux:

```
7.0.0-WS-IHS-LinuxX64-FP0000007.pak
```

3. Run the 64-bit update installer and follow the steps given for Microsoft Windows:

```
64bit_UPDATEINSTALLER_HOME/update.sh
```

4. After a successful upgrade, run *HTTPServer_HOME/bin/versioninfo.sh* to verify that the IHS version is 7.0.0.7.

See Validating Installation and Reviewing Logs.

5. Copy the following fix packs from *WAS_INSTALL/FixPacks-7.0.0.7* to *32bit_UpdateInstaller_HOME/maintenance* folder
 - AIX:

`7.0.0-WS-WASSDK-AixPPC32-FP0000007.pak`
 - Linux:

`7.0.0-WS-WASSDK-LinuxX32-FP0000007.pak`
6. Run the 32-bit update installer and follow the steps given for Microsoft Windows:

`32bit_UPDATEINSTALLER_HOME/update.sh`

Verify that IHS and Java are at the correct version.

See Validating Installation and Reviewing Logs.

Installing IBM WebSphere Plug-in on AIX or Linux

To install the plug-in:

1. Run the plug-in installation and follow the steps for Microsoft Windows:
 - On AIX run:

`WAS_INSTALL/C1G2KML/Plugin/install`
 - On Linux run:

`WAS_INSTALL/C1G36ML/Plugin/install`
2. Copy the following fix packs from *WAS_INSTALL/FixPacks-7.0.0.7* to *64bit_UPDATEINSTALLER_HOME/maintenance* folder:
 - AIX:

`7.0.0-WS-PLG-AixPPC64-FP0000007.pak` and `7.0.0-WS-WASSDK-AixPPC64-FP0000007.pak`
 - Linux:

`7.0.0-WS-PLG-LinuxX64-FP0000007.pak` and `7.0.0-WS-WASSDK-LinuxX64-FP0000007.pak`
3. Run the 64-bit update installer and follow the steps for Microsoft Windows:

`64bit_UPDATEINSTALLER_HOME/update.sh`

Verify that the plug-in is at the correct version.

See Validating Installation and Reviewing Logs.

Task 2-2-8: Validating Installation and Reviewing Logs

Run these scripts after completing the installation and upgrade to confirm that the correct versions have been installed:

- To confirm that the 64-bit version of IBM WebSphere ND 7.0.0.7 has been installed, run *WAS_HOME\bin\versioninfo.bat* on Microsoft Windows, or *WAS_HOME/bin/versioninfo.sh* on UNIX and Linux operating systems.

The report should include “7.0.0.7” as the version, as seen in this example for the IBM WebSphere Application server:

Product List

```
-----
```

ND	installed

Installed Product

```
-----
```

Name	IBM WebSphere Application Server - ND
Version	7.0.0.7
ID	ND
Build Level	cf070942.55
Build Date	10/24/09
Architecture	AMD (64 bit)

```
-----
```

End Installation Status Report

- JRE 1.6 SR6 is required for IBM WebSphere ND 7.0.0.7. To confirm the JRE version, run:

```
WAS_HOME\java\jre\bin\java -version
```

You should see a report similar to this example:

```
java version "1.6.0"
Java(TM) SE Runtime Environment (build pwa6460sr6ifix-20091015_01⇒
(SR6+152211+155930+156106))
IBM J9 VM (build 2.4, JRE 1.6.0 IBM J9 2.4 Windows Server 2003 amd64-64⇒
jvmwa6460sr6-20091001_43491 (JIT enabled, AOT enabled)
J9VM - 20091001_043491
JIT - r9_20090902_1330ifx1
GC - 20090817_AA)
JCL - 20091006_01
```

Confirm that the report includes the version number, as follows:

- Microsoft Windows

```
java version "1.6.0"
```

- AIX

```
java version "1.6.0"
```

- Linux

```
java version "1.6.0"
```

- HP-UX Itanium

```
java version "1.6.0.05"
```

- Solaris

```
java version "1.6.0_16"
```

- To confirm that the correct IHS version was installed, run *HTTPServer_HOME\bin\versionInfo.bat* on Microsoft Windows, and *HTTPServer_HOME/bin/versionInfo.sh* on UNIX or Linux.
- To confirm that the plug-in is at the correction version, run *Plugin_HOME\bin\versionInfo.bat* on Microsoft Windows, and *Plugin_HOME/bin/versionInfo.sh* on UNIX or Linux.
- To confirm that the installation is successful, review *WAS_HOME\logs\install\log.txt*.

The text “INSTCONFSUCCESS” at the end confirms that the installation was successful.

If the error happens early in the installation, look for the log.txt file in the system temporary area (for example, C:\temp). The installation program copies the log from the temporary area to the logs directory at the end of the installation.

During installation, a single entry in the *WAS_HOME/logs/install/log.txt* file points to the temporary log file, either %TEMP%\log.txt on Microsoft Windows platforms, or /tmp/log.txt on UNIX or Linux platforms.

Task 2-2-9: Uninstalling IBM WebSphere Products

Remove the components of IBM WebSphere as follows:

- To uninstall IBM WebSphere ND 7.0.0.7 go to the uninstall directory in the IBM WebSphere installation directory.

Open a command prompt and run the following command:

- *For Windows*

```
WAS_HOME\uninstall\uninstall.exe
```

- *For UNIX and Linux:*

```
WAS_HOME/uninstall/uninstall.sh
```

- To remove the 32-bit update installer, run:
32bit_UPDATEINSTALLER_HOME\uninstall\uninstall.exe (.sh on UNIX and Linux).
- To remove the 64-bit UpdateInstaller, run:
64bit_UPDATEINSTALLER_HOME\uninstall\uninstall.exe (.sh on UNIX and Linux)
- To remove the IBM HTTP server, run:
HTTPServer_HOME/uninstall/uninstall.exe (.sh on UNIX and Linux).
- To remove the plug-in, run:
Plugin_HOME/uninstall/uninstall.exe (.sh on UNIX and Linux).

After the WebSphere installation is removed, you can find the log file in *WAS_HOME/logs/uninstall/log.txt* .

CHAPTER 3

Installing Additional Components

This chapter discusses:

- Installing Oracle Tuxedo
- Installing Micro Focus Net Express for Windows
- Installing Micro Focus Server Express for UNIX and Linux

Task 3-1: Installing Oracle Tuxedo

This section discusses:

- Understanding Oracle Tuxedo
- Prerequisites
- Obtaining the Oracle Tuxedo Installation Files from Oracle E-Delivery
- 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
- Installing the Oracle Tuxedo Patch on Microsoft Windows
- Uninstalling Oracle Tuxedo 10gR3_VS2008 and Patch on Microsoft Windows
- Checking the Windows Service Account
- Setting Up the Windows Services for Oracle Tuxedo
- Verifying the Server Installation on Microsoft Windows
- Removing Existing Oracle Tuxedo Installations from UNIX (Optional)
- Completing the Preinstallation Checklist on UNIX
- Designating the Oracle Tuxedo Owner on UNIX
- Installing Oracle Tuxedo on UNIX
- Installing the Oracle Tuxedo Patch on UNIX
- Uninstalling Oracle Tuxedo 10gR3 and Patch on UNIX
- Verifying the Server Installation on UNIX

- 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 10gR3, which is available on Oracle E-Delivery. 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.

Note. Oracle supports Oracle Tuxedo 10gR3 for Linux or UNIX, and Oracle Tuxedo 10gR3_VS2008 for Microsoft Windows, with PeopleSoft PeopleTools 8.51. 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 10gR3" to refer to both Oracle Tuxedo 10gR3 for Linux or UNIX, and Oracle Tuxedo 10gR3_VS2008 for Microsoft Windows, unless specifically mentioned.

The minimum patch level certified for running Oracle Tuxedo 10gR3 with PeopleSoft PeopleTools 8.51 is RP031. These installation instructions include the installation of the base Oracle Tuxedo 10gR3, followed by the patch installation.

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 10gR3 on the same machine in separate directories. For example:

On Windows, you may install into C:\oracle\tuxedo10gR3_VS2008 and C:\tux65.

On UNIX, you may install into /home/oracle/tuxedo10gR3 and /prod/tuxedo/6.5.

If more than one PeopleSoft application uses the same Oracle Tuxedo version (that is, the same patch level), then it is recommended that you have a single installation of Oracle Tuxedo to serve all the supported PeopleSoft applications. A single Oracle Tuxedo installation simplifies future maintenance (such as applying patches). However, if you choose to have more than one Oracle Tuxedo installation (this scenario is possible only on UNIX systems, as Oracle Tuxedo does not allow multiple installations of the same version of Oracle Tuxedo on Microsoft Windows), you must install and maintain the same Oracle Tuxedo version more than once in different directories.

See Also

Enterprise PeopleTools 8.51 PeopleBook: PeopleTools Portal Technologies

Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration.

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

"Clustering and High Availability for Enterprise Tools 8.4x," 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
- For UNIX, you must have root access

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

You can obtain the files needed to install Oracle Tuxedo 10gR3 or 10gR3_VS2008 from the Oracle E-Delivery site. At this point you should have already downloaded the necessary 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 8.51 media pack on Oracle E-Delivery are certified for use with PeopleSoft PeopleTools 8.51.

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

See "Preparing for Installation," Using Oracle E-Delivery to Obtain Installation Files.

1. After logging in to Oracle E-Delivery, 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 8.51 Media Pack for your platform, and click Continue.
3. Select Oracle Tuxedo 10gR3 or 10gR3_VS2008 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 E-Delivery, 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	tuxedo10gR3_64_aix_53_ppc.bin
HP-UX Itanium	tuxedo10gR3_64_hpux_1123_ia.bin
HP-UX PA-RISC	tuxedo10gR3_64_hpux_1123_pa.bin
Linux	tuxedo10gR3_64_Linux_01_x86.bin
Microsoft Windows	tuxedo10gR3_32_win_2k8_x86_VS2008.exe
Oracle Solaris on SPARC	tuxedo10gR3_64_sol_9_sp.bin

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

You can download the latest patch for Oracle Tuxedo 10gR3_VS2008 for Microsoft Windows or Oracle Tuxedo 10gR3 for Linux or UNIX from My Oracle Support. The patch level certified at the general availability date for PeopleSoft PeopleTools 8.51 is RP31. Patches released for Oracle Tuxedo 10gR3 and 10gR3_VS2008 after RP31 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 10.3.0.0* from the release drop-down list.
6. Select your platform.

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

Note. If you are running on a Microsoft Window operating system, you should select 32-bit Microsoft Windows. You need 32-bit Oracle Tuxedo to run with PeopleSoft PeopleTools 8.51 on 64-bit Microsoft Windows operating systems.

The supported platforms are:

- AIX
 - HP-UX Itanium
 - HP-UX PA-RISC
 - 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 “VS2008” or “Visual Studio 2008” 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 8.51 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 10gR3_VS2008 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 Oracle Tuxedo 10gR3_VS2008 RP031 are given later in this section.

See Uninstalling Oracle Tuxedo 10gR3_VS2008 and Patch 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 8.51 program for the Oracle Tuxedo installation creates a new service for Microsoft Windows—called ORACLE ProcMGR V10gR3 with VS2008—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\tuxedo10gR3_VS2008). 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 Server Domain Configurations.

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 E-Delivery 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, *tuxedo10gR3_32_win_2k8_x86_VS2008.exe*.

Note. Oracle Tuxedo 10gR3_VS2008 can coexist on a machine with other versions of Oracle Tuxedo.

To install Oracle Tuxedo on Microsoft Windows:

1. Double-click *TUX_INSTALL\tuxedo10gR3_32_win_2k8_x86_VS2008.exe* to begin the installation process.

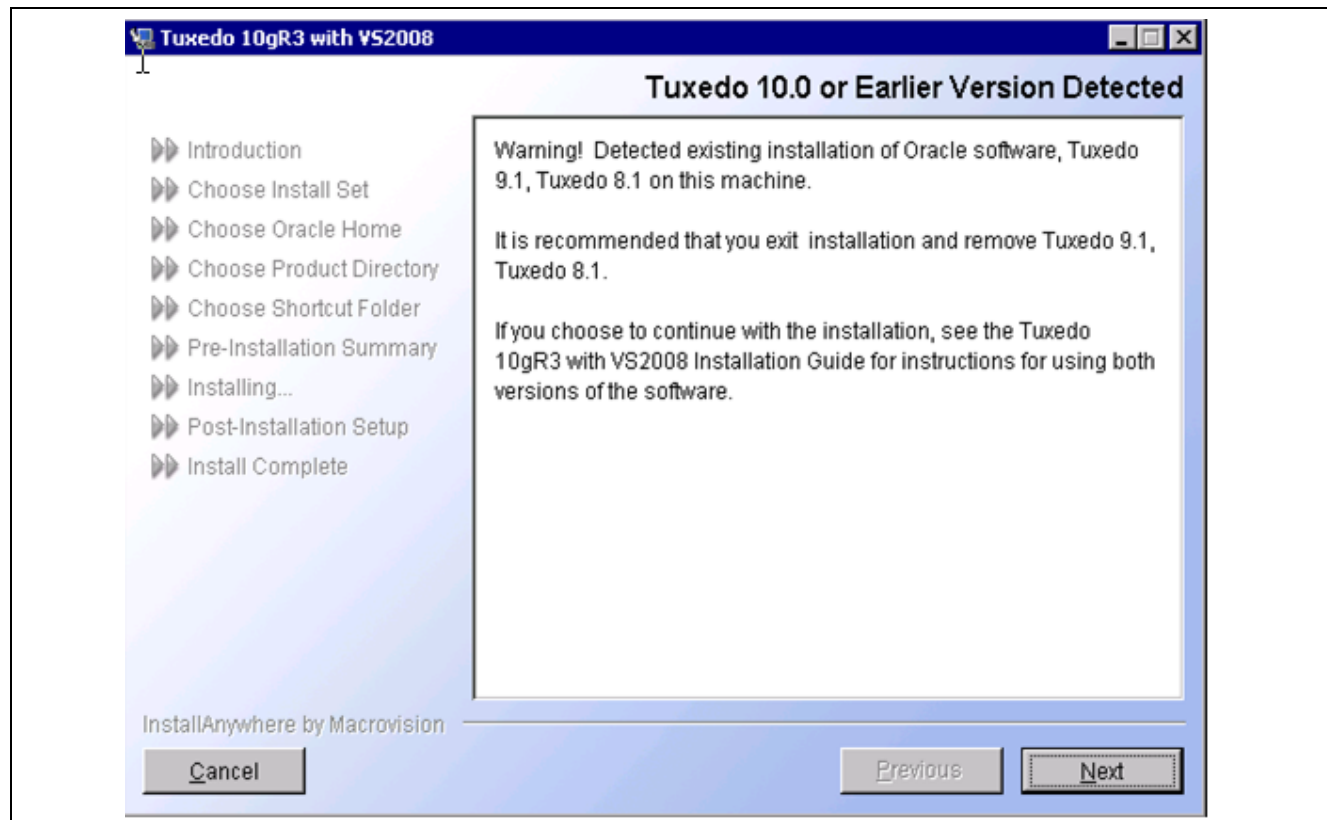
Click OK on the initial window.



Oracle Tuxedo 10gR3 initial installation window

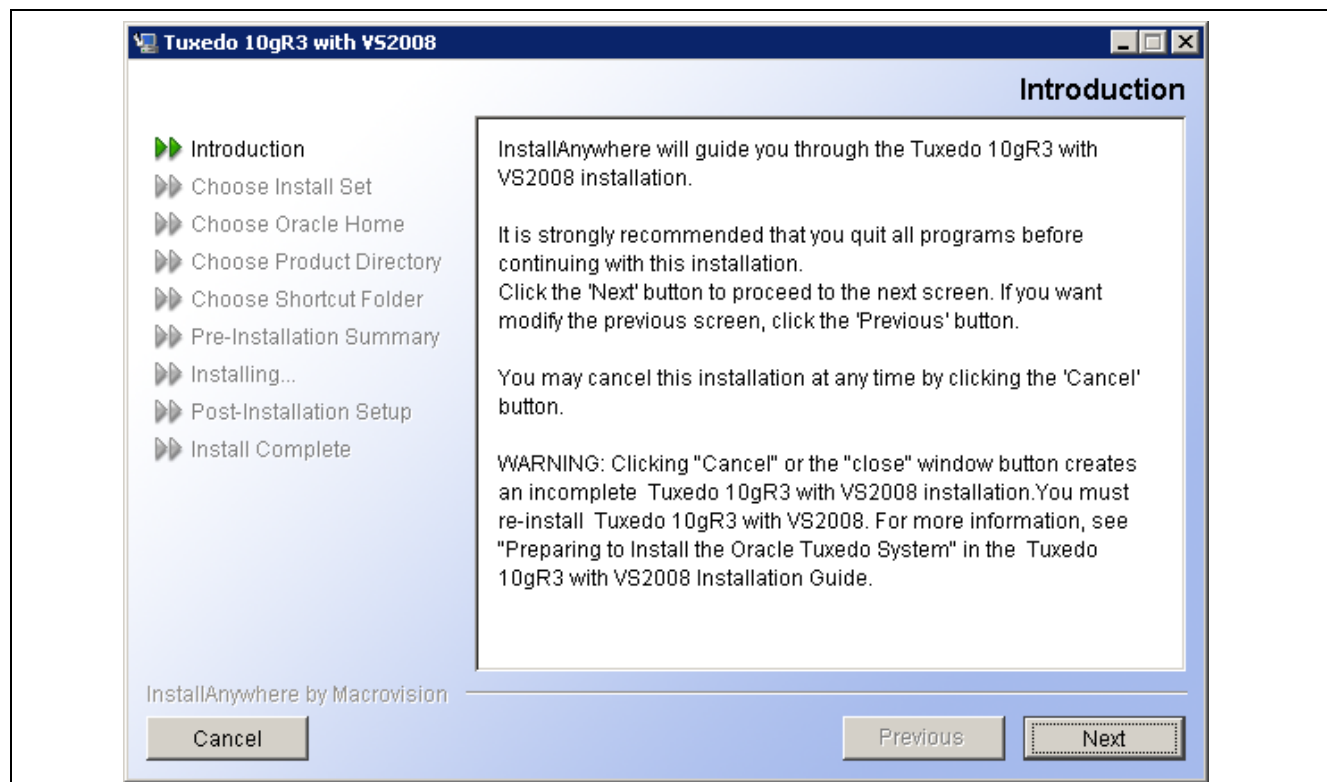
2. If you have other versions of Oracle Tuxedo on your system, you may get a warning that earlier versions were detected, and recommending that you exit and remove the earlier versions.

The message directs you to the Tuxedo 10gR3 with VS2008 Installation Guide for instructions for using more than one version of the software, as shown in this example:



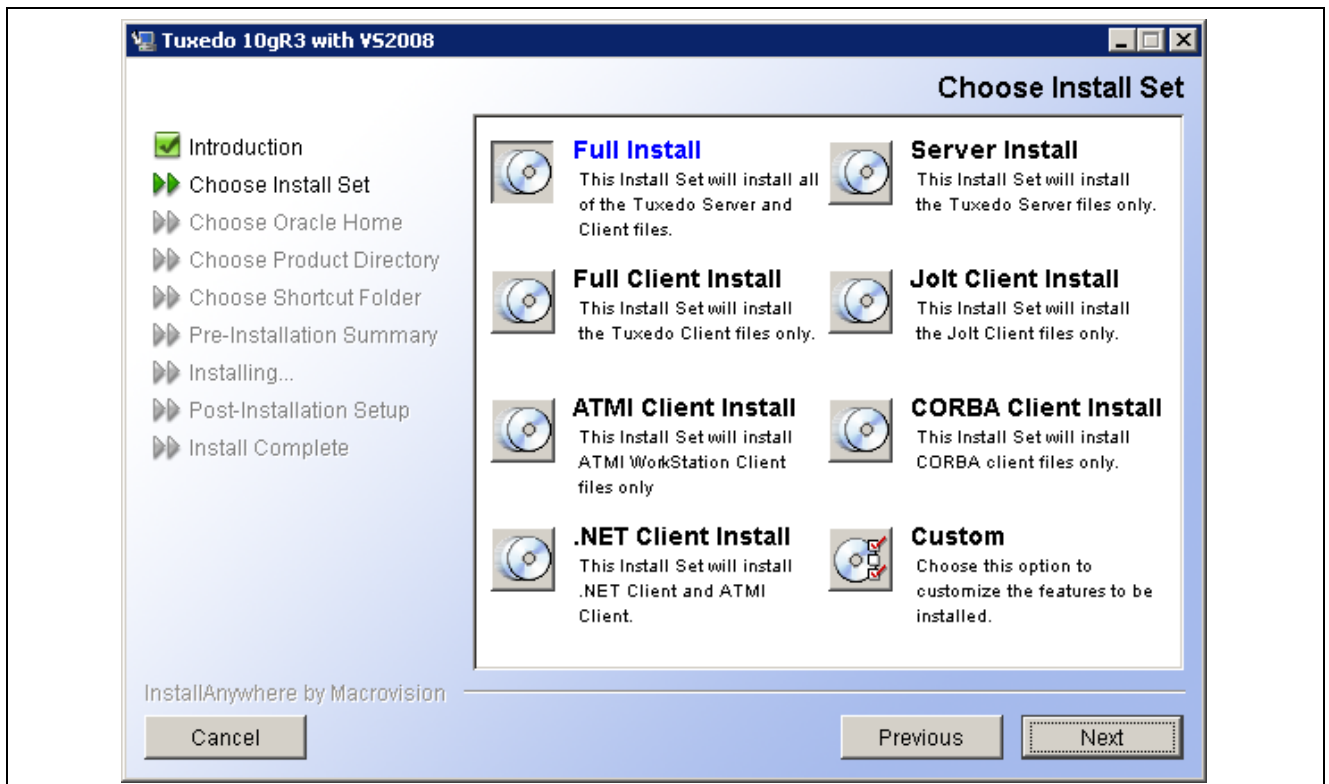
Tuxedo 10.0 or Earlier Version Detected window

3. Click Next.



Oracle Tuxedo installation introduction window

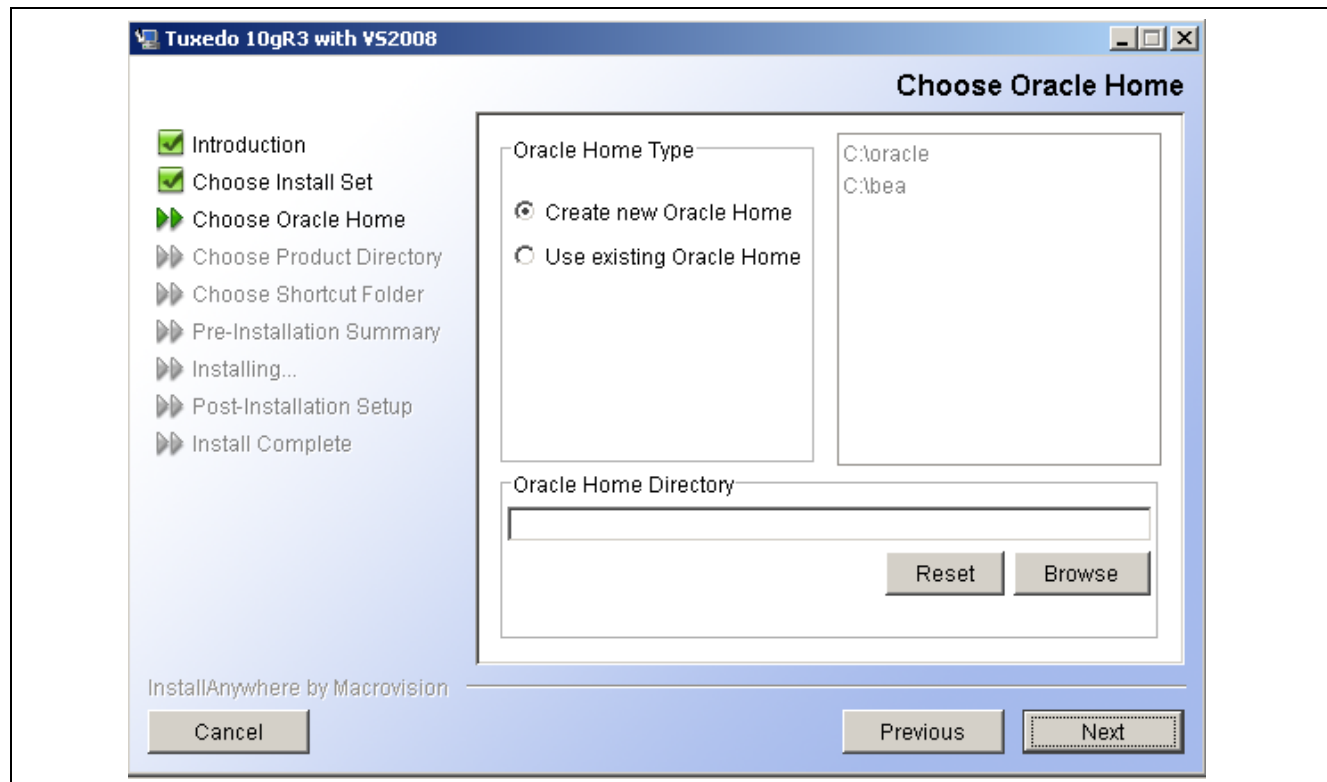
- Accept the default installation set, Full Install and click Next.



Oracle Tuxedo Choose Install Set window

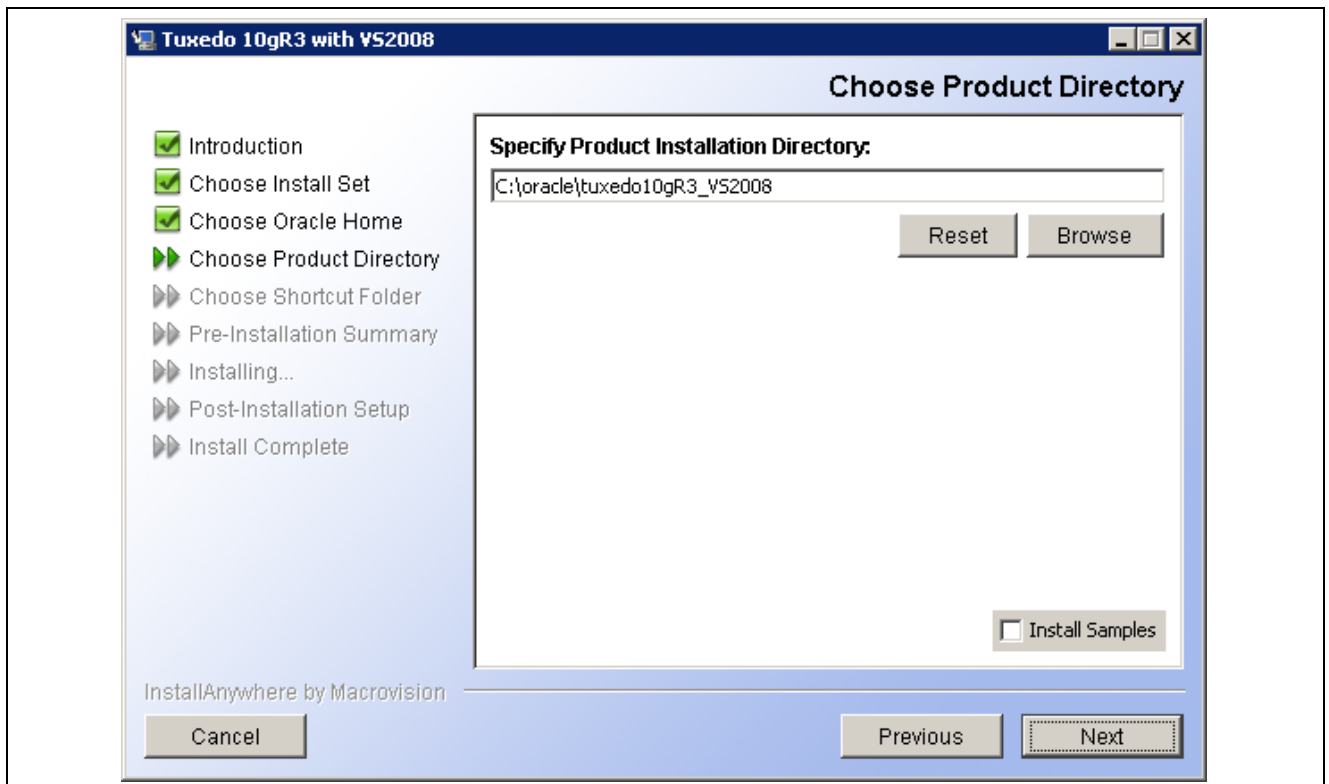
- Specify an Oracle home directory, referred to here as *ORACLE_HOME*.

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.
6. Specify the Oracle Tuxedo installation directory, referred to here as *TUXDIR*.
The default is *ORACLE_HOME\tuxedo10gR3_VS2008*. Accept the default or specify a new location.



Oracle Tuxedo Choose Product Directory window

7. If you see the following window, click Next to continue.

The window appears for some .NET installations, and displays this message:

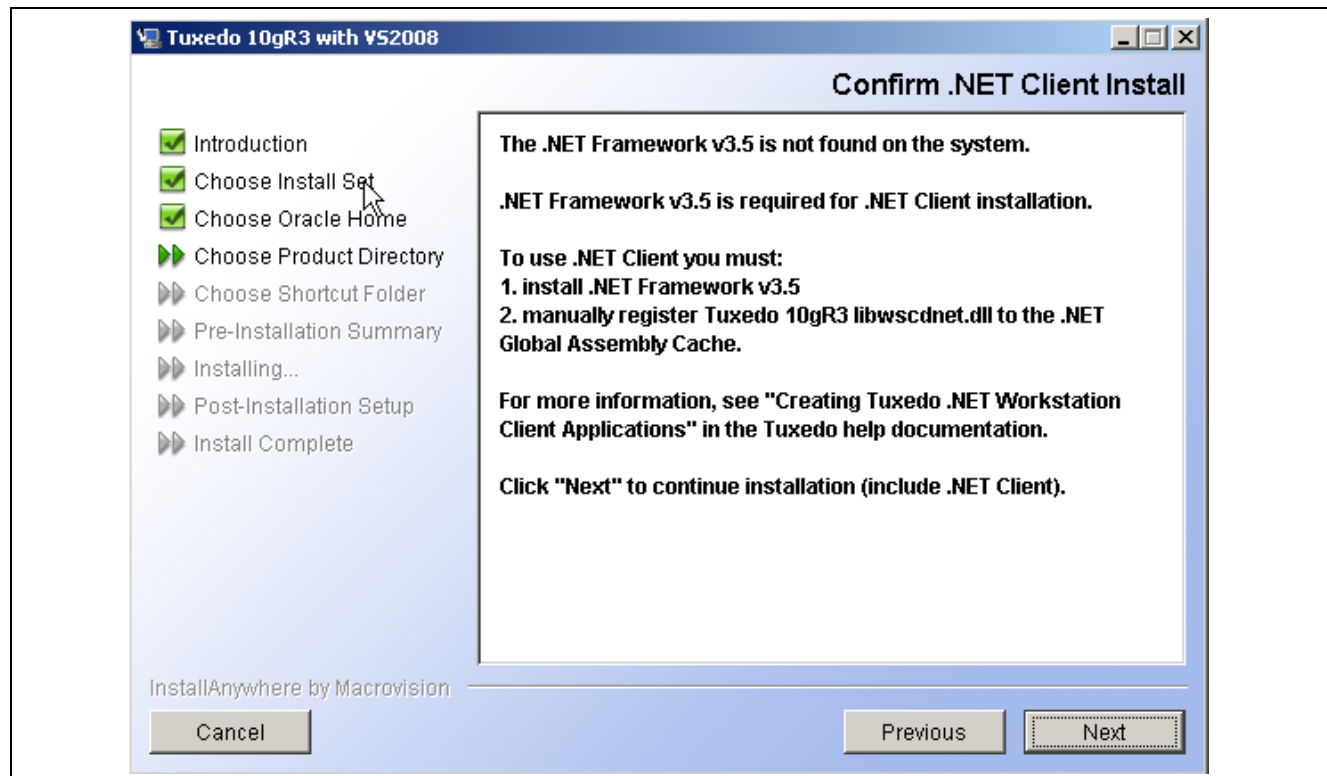
The .NET Framework v3.5 is not found on the system.

.NET Framework v3.5 is required for .NET Client installation.

To use .NET Client you must:

1. install .NET Framework v3.5
2. manually register Tuxedo 10gR3 libwscdnet.dll to the .NET Global Assembly⇒ Cache.

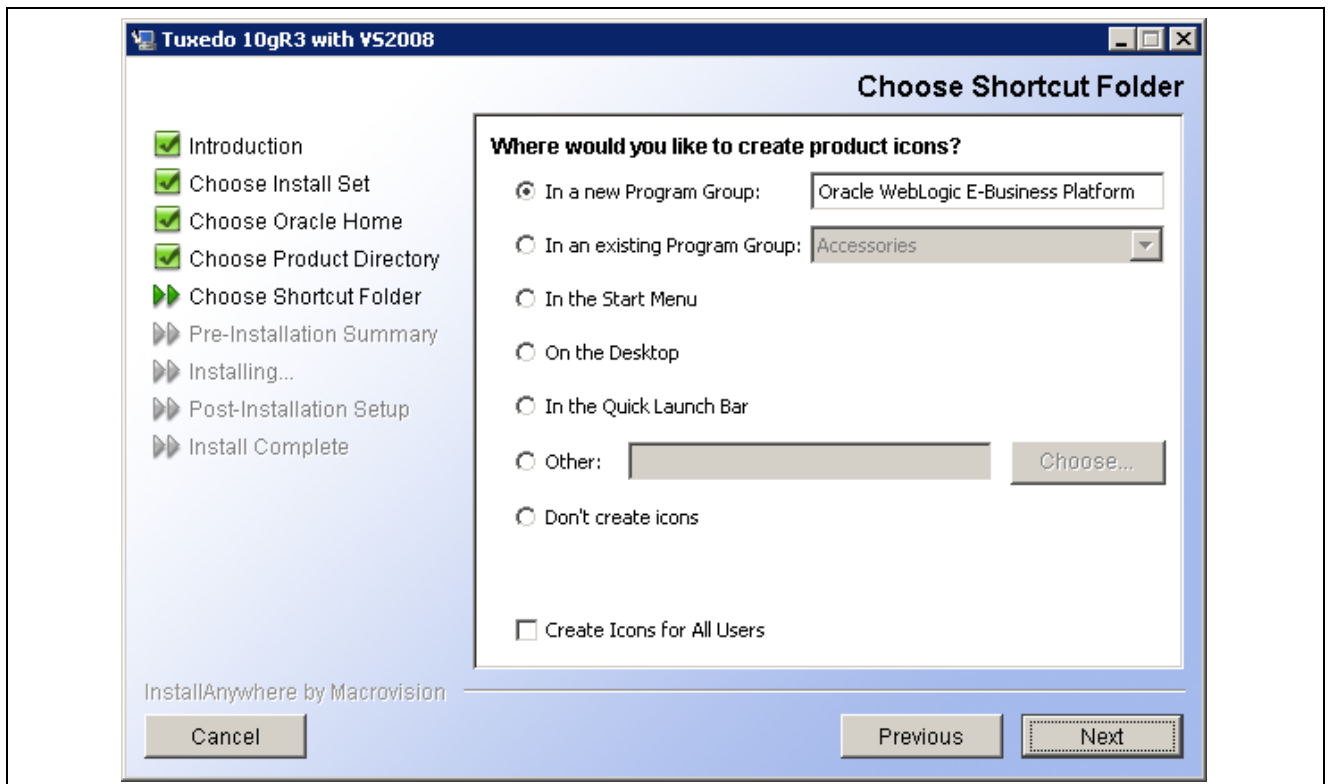
For more information, see "Creating Tuxedo .NET Workstation Client⇒ Applications" in the Tuxedo help documentation.



Oracle Tuxedo Confirm .NET Client Install window

8. Specify the location for the shortcut folder.

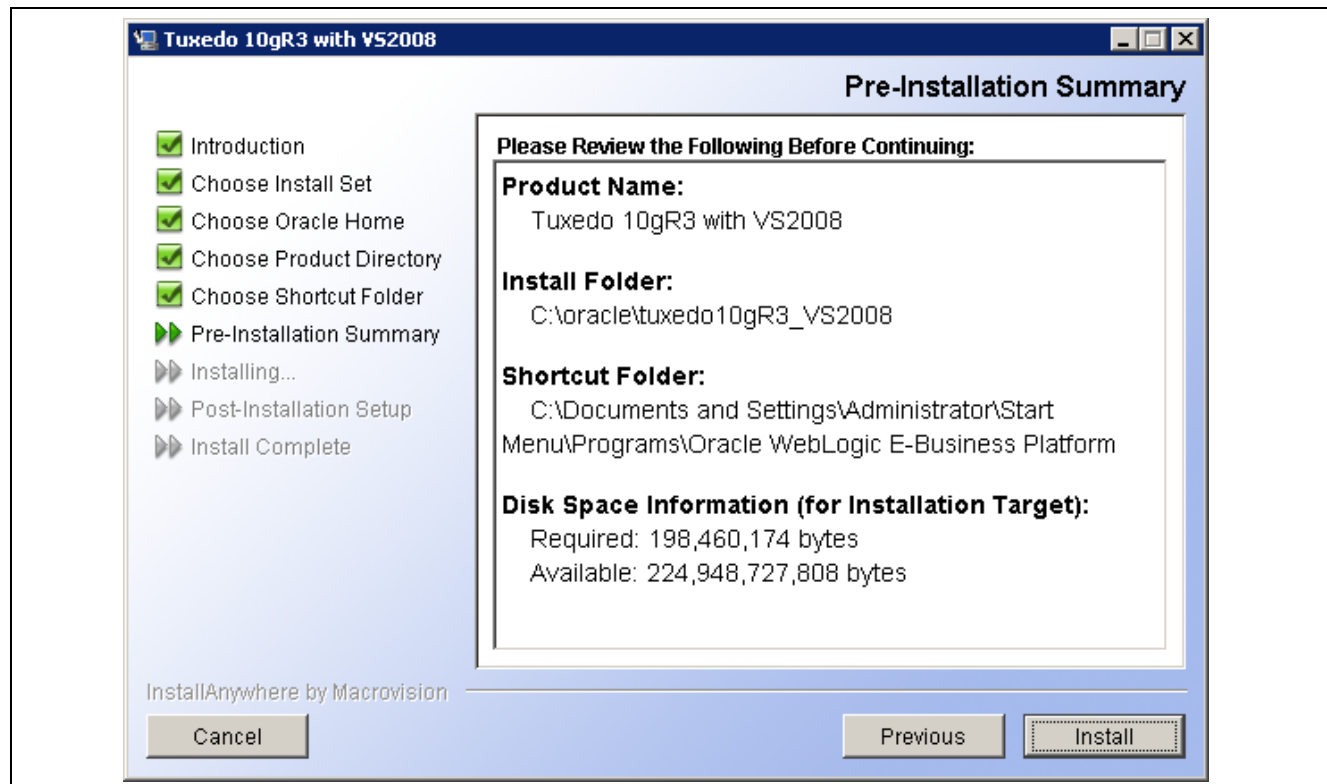
The following example accepts the default, to create product icons in a new program group named Oracle WebLogic E-Business Platform:



Oracle Tuxedo Choose Shortcut Folder window

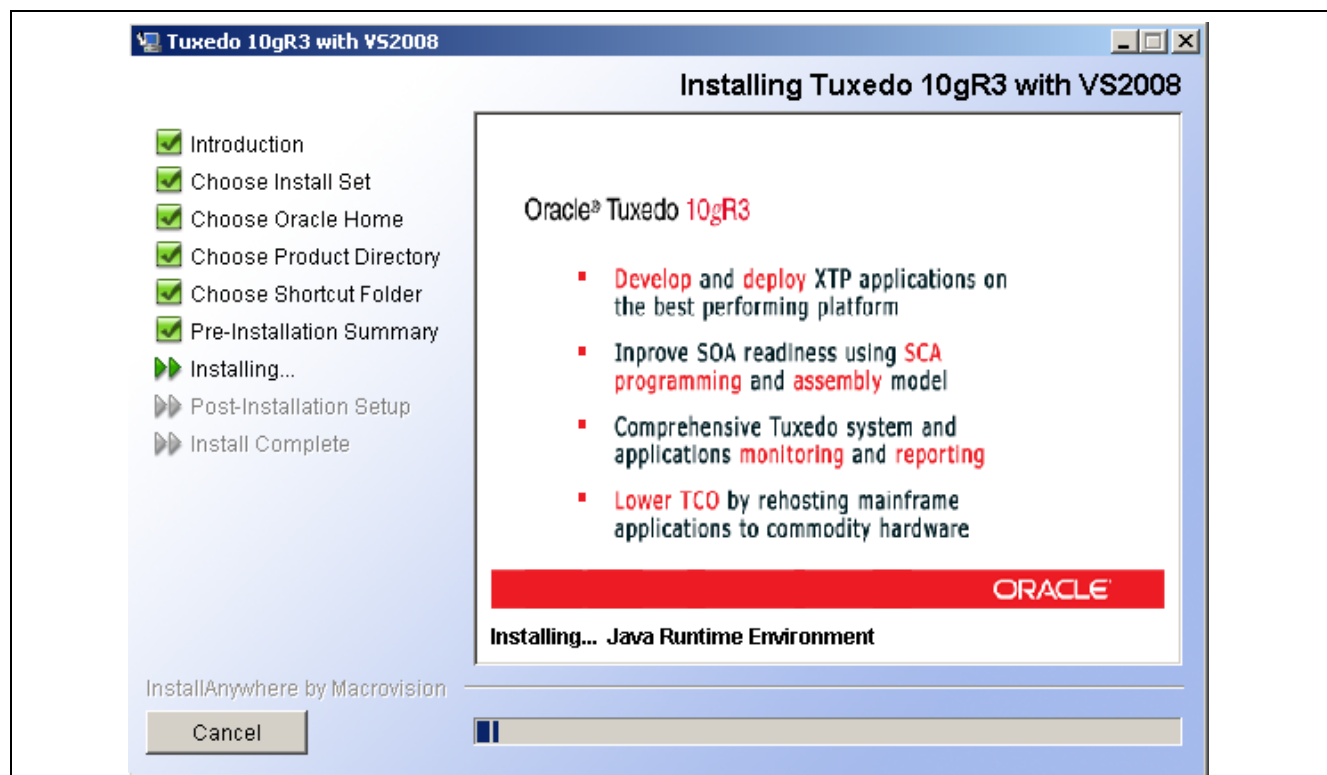
9. Review the summary information, and click Install to continue.

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

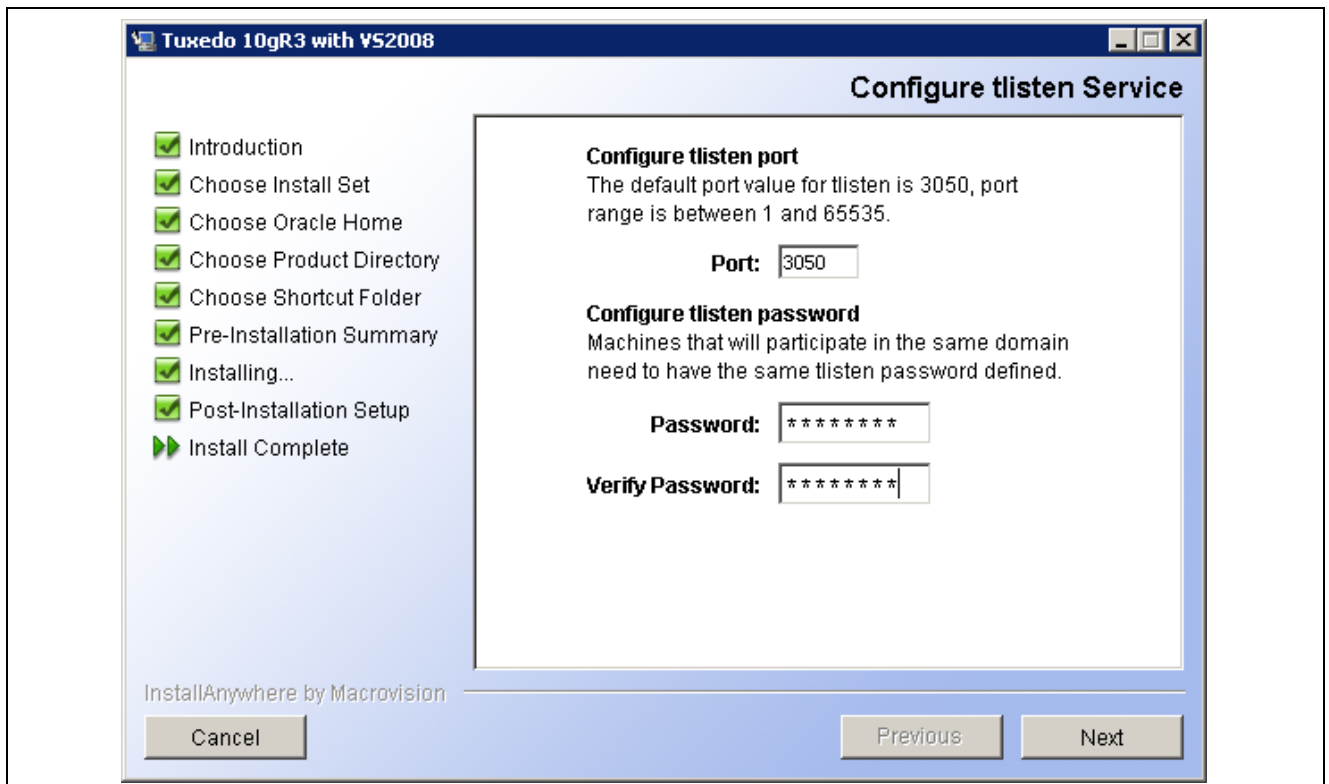
A progress indicator appears during the installation.



Oracle Tuxedo Progress indicator

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*

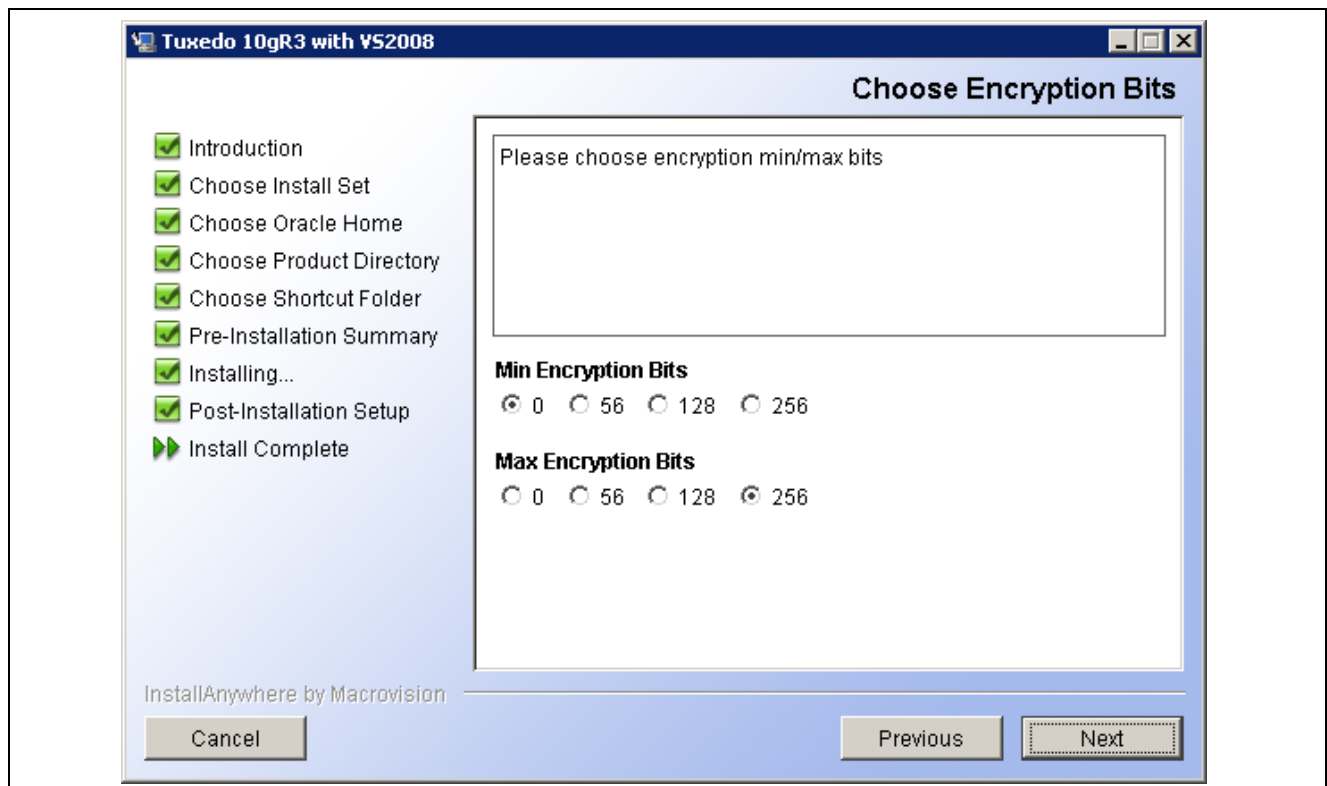
Enter the tlisten passwords.

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



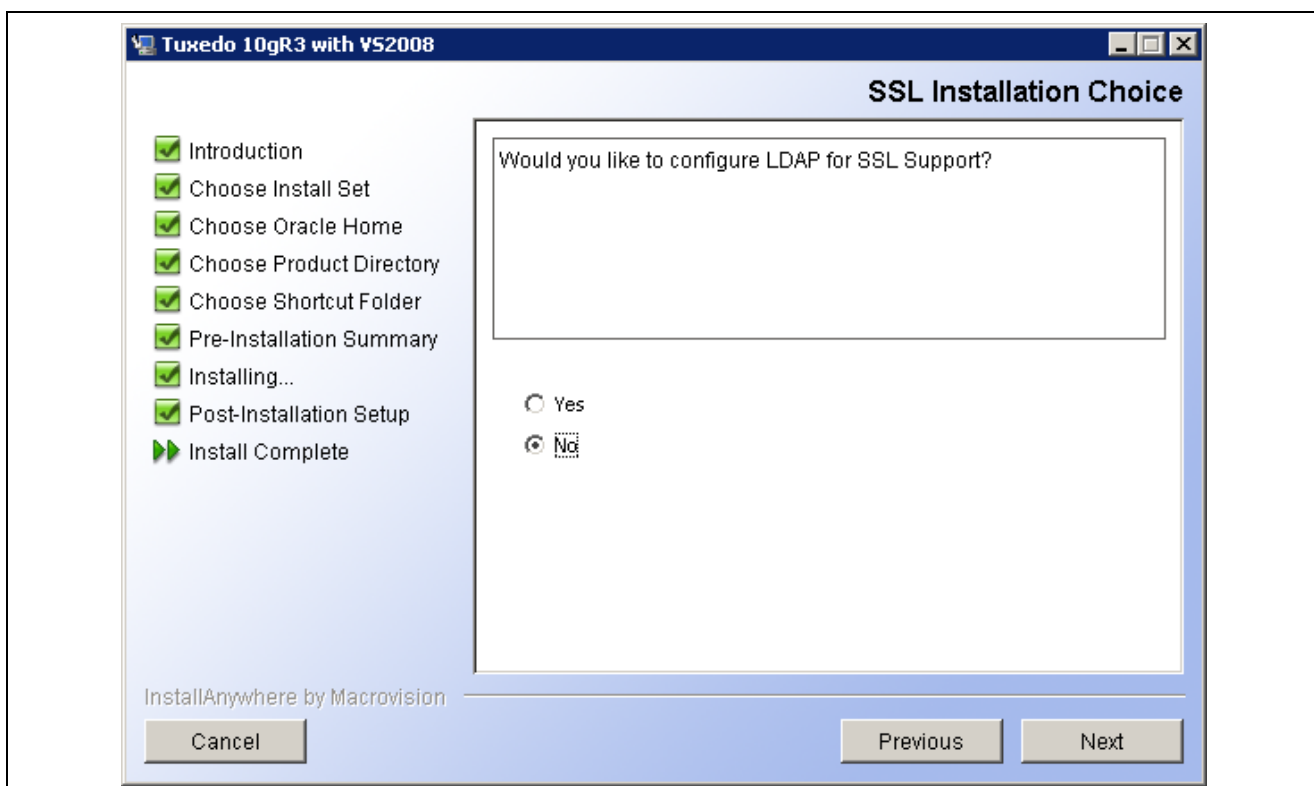
Oracle Tuxedo Tlister Encryption Method window

12. Choose Min Encryption Bits as 0 and Max Encryption Bits as 256. Click Next to continue.



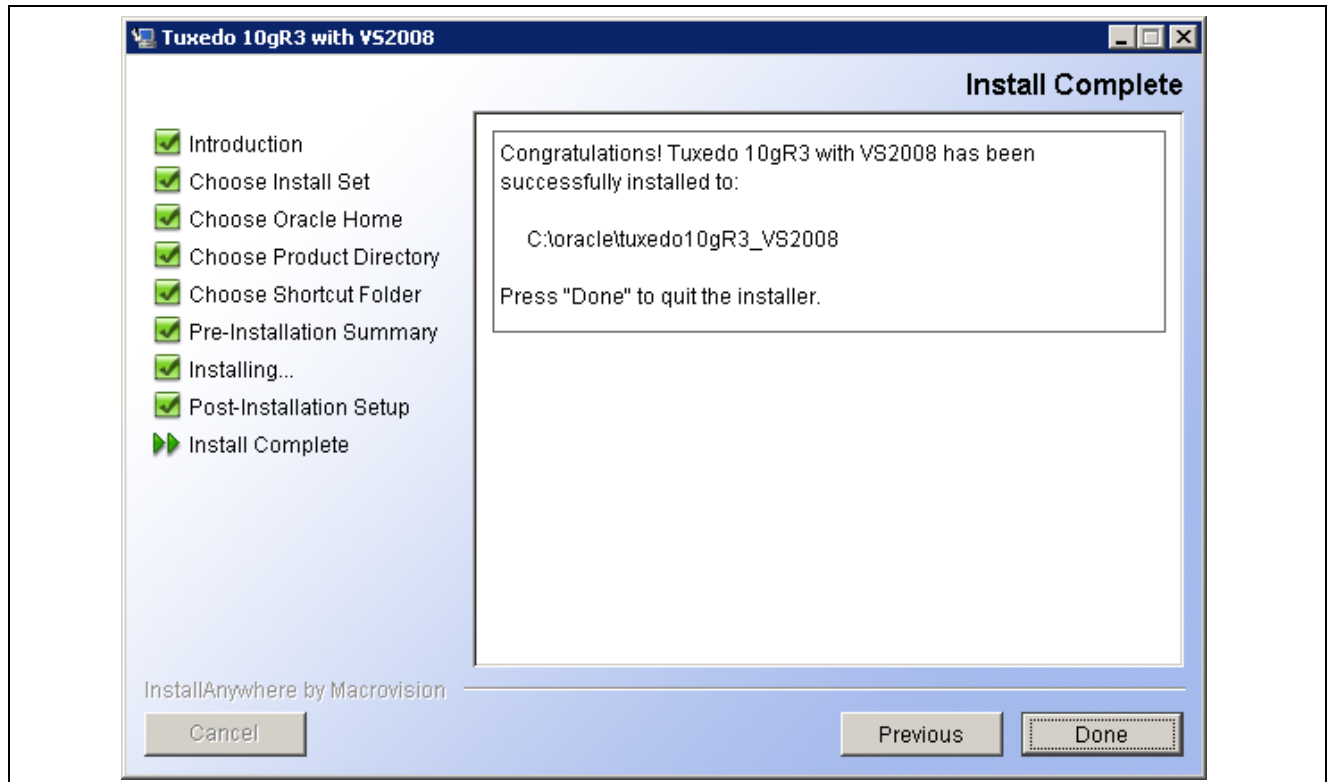
Oracle Tuxedo Choose Encryption Bits window

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



Oracle Tuxedo SSL Installation Choice

14. Click Done to complete the installation.



Oracle Tuxedo Install Complete window

Task 3-1-6: Installing the Oracle Tuxedo Patch on Microsoft Windows

These instructions assume that you have installed the base Oracle Tuxedo 10gR3_VS2008, and have downloaded the platform-specific version of the rolling patch.

To install the patch:

1. Stop all the PeopleSoft PeopleTools domains that are running and using your Oracle Tuxedo 10gR3_VS2008 installation.
2. Select Start, Programs, Administrative Tools, Service.
3. Select each of the following services, right-click and select Stop:
 - ORACLE ProcMGR V10gR3 with VS2008
 - TListen 10gR3 with VS2008 (Port: 3050)

Note. The port number is variable.

4. Uninstall any existing patches.

To check for installed patches, review the file patchlev in the Oracle Tuxedo installation directory, *TUXDIR\udataobj*. The last line of the patchlev file indicates the rolling patch (RP) level that is installed. For example:

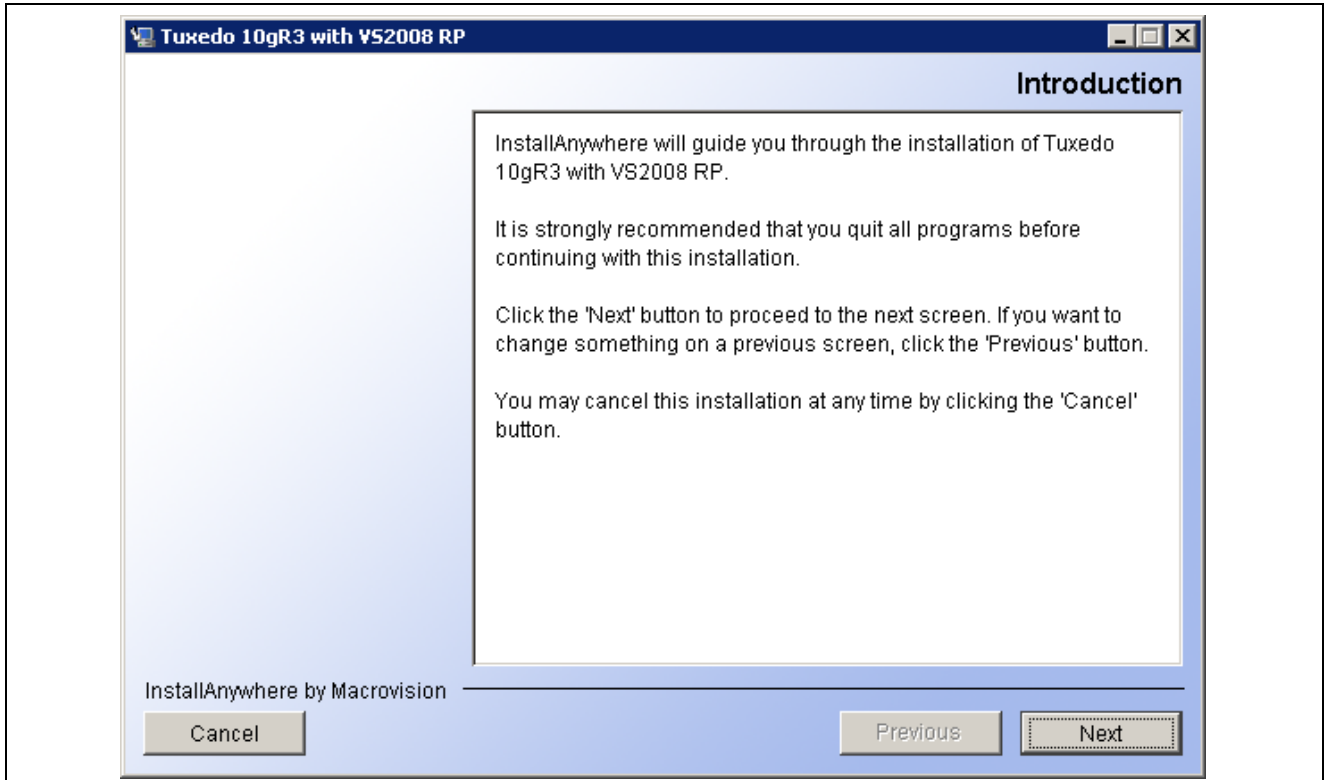
```
031. BUG9656822 TUX10.3: CAN'T INSTALL PATCHES ON WINDOWS 2003 X86-64 VS2005
```


The number “031” indicates that rolling patch 31 has been installed. If there is an existing patch, remove it before installing the new rolling patch.

5. Go to the directory where you downloaded the patch file, *TUX_INSTALL*, and unzip the file.

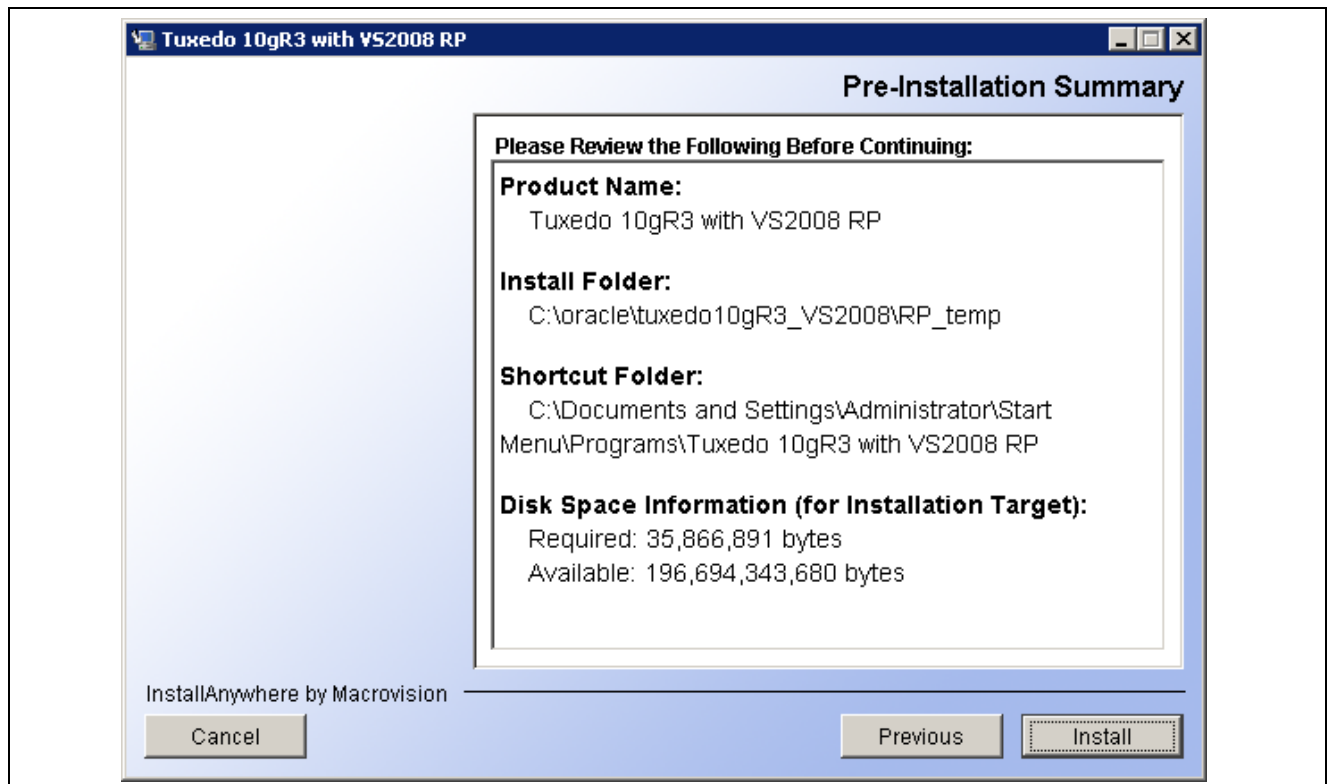
This creates a directory RP31 with the installation files.

6. Go to *TUX_INSTALL\RP31*, and double click RP031.exe.
7. Click Next on the Introduction window to proceed.



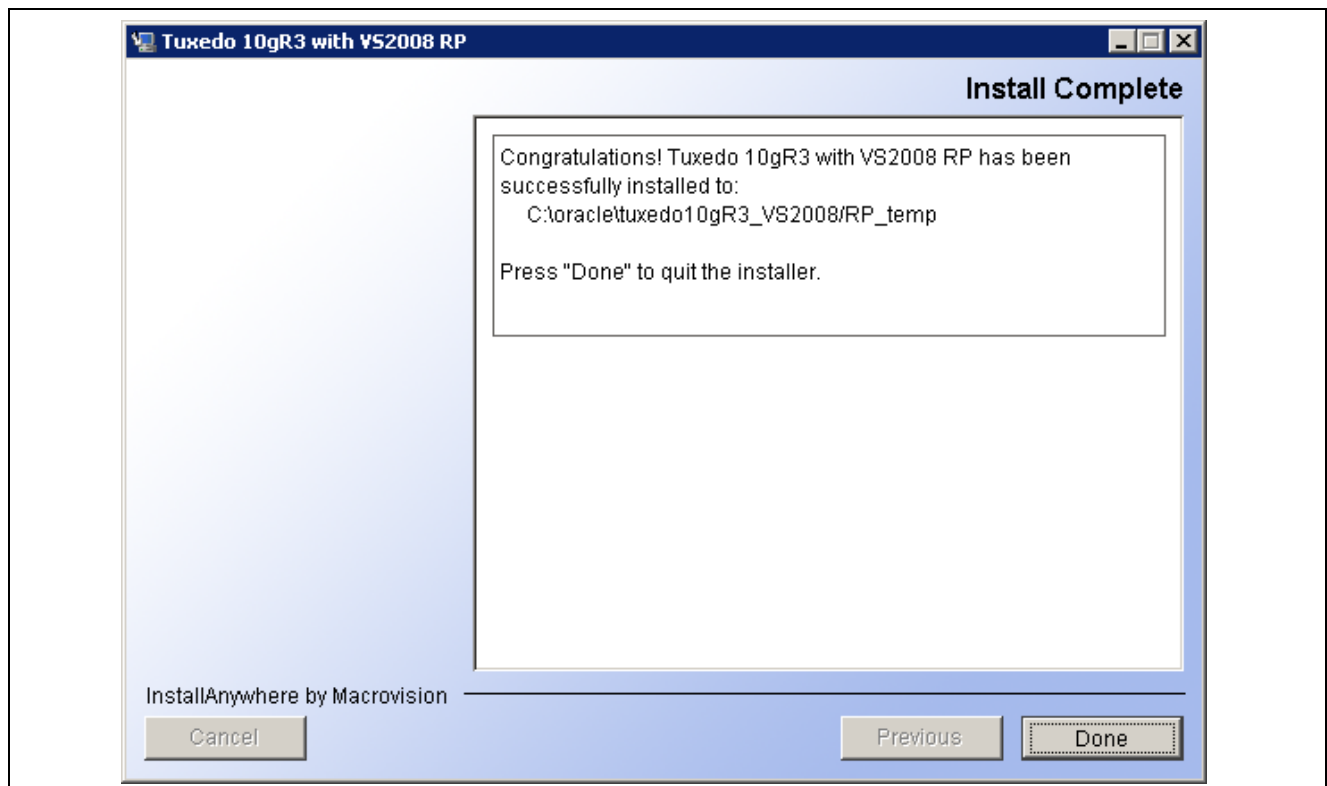
Tuxedo 10gR3 with VS2008 RP Introduction window

8. Review the pre-installation summary, which includes the product name, install folder, shortcut folder, and disk space information, and then click Next.



Tuxedo 10gR3 with VS2008 RP Pre-Installation Summary window

9. Click Done when the installation is complete.



Tuxedo 10gR3 with VS2008 RP Install Complete window

10. Verify the installation.

See Verifying the Server Installation on Microsoft Windows.

Task 3-1-7: Uninstalling Oracle Tuxedo 10gR3_VS2008 and Patch on Microsoft Windows

Remove any Oracle Tuxedo patches followed by the base Oracle Tuxedo 10gR3_VS2008.

To remove the Oracle Tuxedo RP031 patch on Microsoft Windows:

1. Using PSADMIN, shut down any application server, Process Scheduler, and Search server domains that may be running on the machine.
2. Go to the RP_uninstaller folder under the Oracle Tuxedo installation directory:

```
cd TUXDIR\RP_uninstaller
```

3. Double-click Tux10gR3RP_uninstallMain.exe.
4. Click Uninstall, and click Done when the process is complete.

To uninstall the base Oracle Tuxedo 10gR3_VS2008:

1. Go to *TUXDIR*\uninstaller.
2. Double-click Uninstall Tuxedo 10gR3 with VS2008.exe.
3. Click Uninstall, and click Done when the process is complete.

You can confirm that the uninstallation process is complete by checking the directory *TUXDIR*/udataobj. If the patch was successfully removed, the patchlev file will be absent.

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

Task 3-1-8: Checking the Windows Service Account

Use the information in this section to ensure that the 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 V10gR3 with VS2008 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.

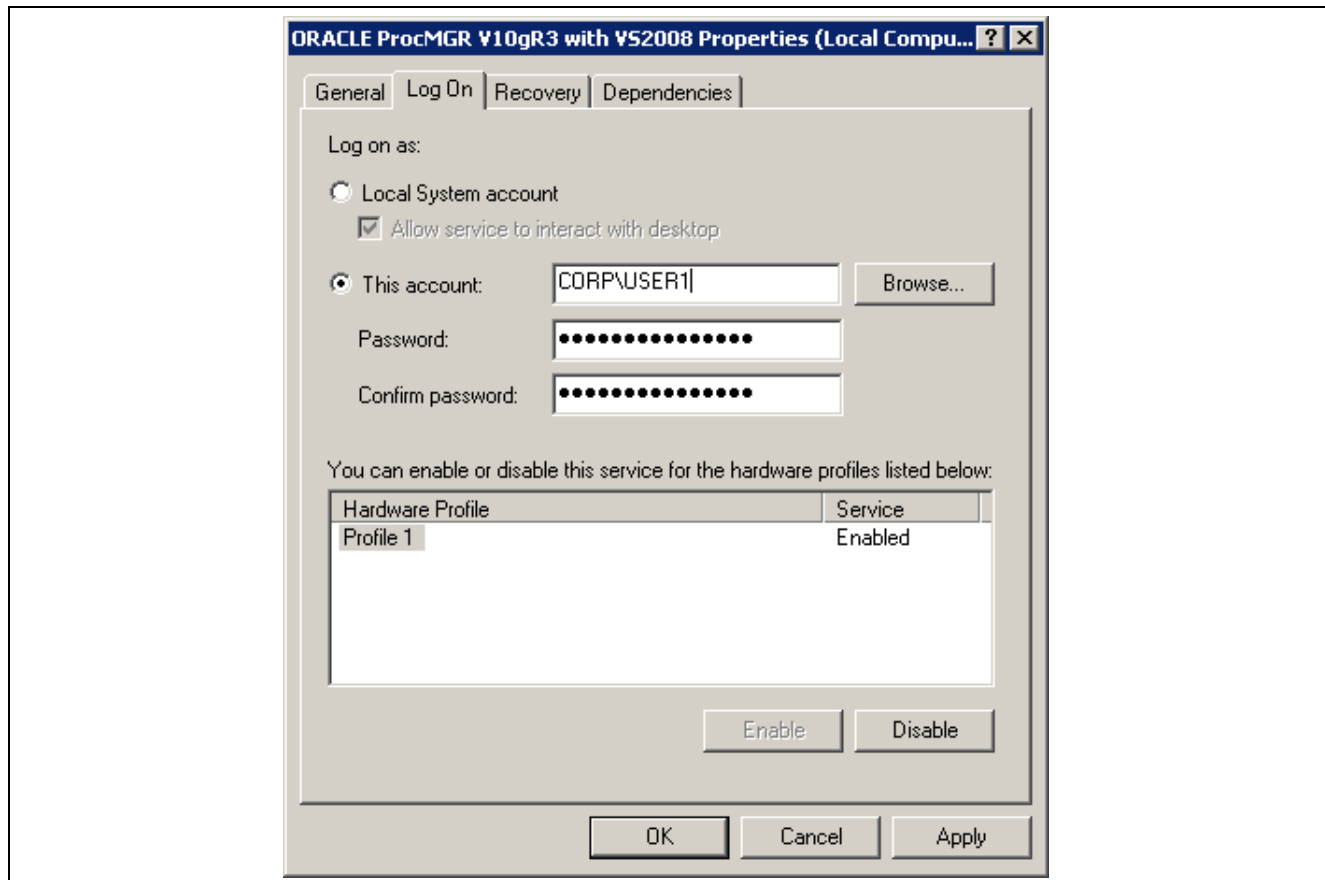
Note. When using Oracle Tuxedo with Process Scheduler, you must use the Windows user name that starts the Process Scheduler server agent. This is necessary because the installation of the PeopleSoft ODBC driver sets up the registry settings to be accessible only by this user name. If you do not use the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

- If you are running on 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 V10gR3 with VS2008 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 V10gR3 with VS2008 service has access to these network drives. The application server and the process scheduler are started by the ORACLE ProcMGR V10gR3 with VS2008 service and therefore inherit the same permissions as the ORACLE ProcMGR V10gR3 with VS2008 service.

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

To set up the Windows services for Oracle Tuxedo:

- Log on again as the Application Server Administrator, TUXADM, or a designated user ID.
- Open the Control Panel and double-click Administrative Tools.
- Select Computer Management and expand Services and Applications.
- Select Services and locate the service labeled *ORACLE ProcMGR V10gR3 with VS2008*.
Double-click ORACLE ProcMGR V10gR3 with VS2008 to open the properties dialog box.
- On the General tab, if the Stop button is enabled, click on it to stop the current ORACLE ProcMGR V10gR3 with VS2008 process.
- Select Log On.



Oracle ProcMGR V10gR3 with VS2008 Properties Dialog Box: Log on Tab

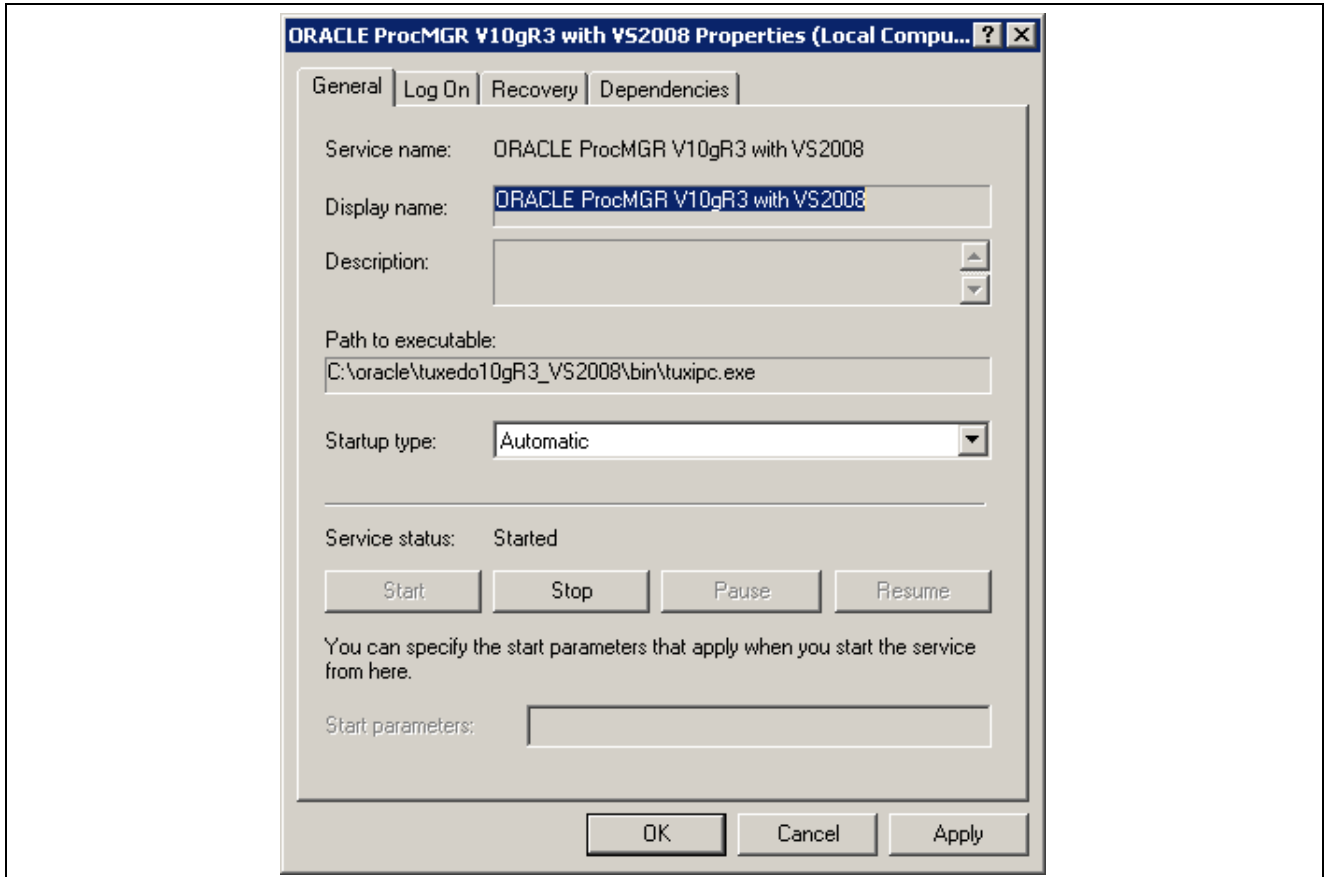
7. Choose either Local System account or This account.

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 V10gR3 with VS2008 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.

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 RP031 was installed:

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

The number “031” indicates that RP31 has been installed. 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 10gR3_VS2008.

Task 3-1-11: Removing Existing Oracle Tuxedo Installations from UNIX (Optional)

You may have older versions of Oracle Tuxedo installed on your system from an earlier version of PeopleSoft PeopleTools. If you are completely upgrading to PeopleSoft PeopleTools 8.51 from an earlier version of PeopleSoft PeopleTools and you do not require the older Oracle Tuxedo anymore, then, you may uninstall it.

Note. It is not mandatory to uninstall older Oracle Tuxedo versions from the machine where you are installing Oracle Tuxedo 10gR3, as older Oracle Tuxedo versions and Oracle Tuxedo 10gR3 can exist on the same machine.

You may have to remove your Oracle Tuxedo installation on UNIX for the following reasons:

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

To remove Oracle Tuxedo from UNIX:

1. Using PSADMIN, shut down any application server, Process Scheduler, and Search server domains that may be running on the machine.
2. Use the UNIX `rm` command to directly remove the Oracle Tuxedo installation.
Be sure to remove the directory containing Oracle Tuxedo, referred to here as *TUXDIR*.
3. Remove the *TUXDIR* environment variable and any entries containing your platform-specific *LIBRARY PATH* and *PATH* environment variables.

The instructions for installing and removing RP031 are given later in this section.

See Uninstalling Oracle Tuxedo 10gR3 and Patch on UNIX.

Task 3-1-12: Completing the Preinstallation Checklist on UNIX

We recommend that you complete the following preinstallation checklist before you begin the Oracle Tuxedo installation. The checklist includes various parameters with descriptions and example values. Specify your values in the Real Value column. Completing this information first should save you time during your installation.

Item	Description	Example Value	Real Value
ORACLE_HOME	The high level directory where you converge the installation for all Oracle products.	[/oracle]	<enter value>
TUXDIR	The directory where Oracle Tuxedo system software will be installed.	[/oracle/tuxedo10gR3]	<enter value>

Item	Description	Example Value	Real Value
Username	The UNIX user name of the Application Server Administrator (Oracle Tuxedo owner).	[tuxedo]	<enter value>
Groupname	Specify the UNIX group name of the Oracle Tuxedo owner.	[tuxedo]	<enter value>

Note. You can select any user name and group name you want; however, you might want to use the “tuxedo” convention for simplicity.

Task 3-1-13: Designating the Oracle Tuxedo Owner on UNIX

A new or existing user must be designated as the Oracle Tuxedo owner.

To designate the Oracle Tuxedo owner:

1. Log in as root.
2. Create the UNIX group and the user name of the individual who will be the owner of Oracle Tuxedo.

Using the values from the preinstallation checklist, create the group and specify the group name. Then create the user who will be the Oracle Tuxedo owner, specifying the user name, group name, and home directory, denoted by TUXDIR from the checklist.

Note. Depending on your operating system, the utility you use to create the user and group is different. For example, HP-UX uses the "sam" utility, AIX uses the "smit" utility, and so on. For the exact utility, refer to your operating system documentation.

Task 3-1-14: Installing Oracle Tuxedo on UNIX

The following procedure assumes that you saved the installation files from Oracle E-Delivery in the directory *TUX_INSTALL*. This procedure uses installation on Linux as an example.

To install Oracle Tuxedo on UNIX or Linux:

1. Make the installer an executable with the following command
2. Start the installation in console mode with the following command:

```
chmod +x tuxedo10gR3_64_Linux_01_x86.bin
```

```
./tuxedo10gR3_64_Linux_01_x86.bin -i console
```

3. Select English as the installation language:

```
Choose Locale...
```

```
-----
->1- English
```

```
CHOOSE LOCALE BY NUMBER: 1
```

4. Press ENTER after reading the introduction.
5. Select Full Install as the installation set:

Choose Install Set

Please choose the Install Set to be installed by this installer.

- >1- Full Install
- 2- Server Install
- 3- Full Client Install
- 4- Jolt Client Install
- 5- ATMI Client Install
- 6- CORBA Client Install

7- Customize...

ENTER THE NUMBER FOR THE INSTALL SET, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: **1**

6. Enter a full path for the top-level installation directory.

The following example creates a new *ORACLE_HOME* directory. If you want to use an existing directory, enter 2 and select one of the existing directories.

Note. In previous Oracle Tuxedo and PeopleSoft PeopleTools releases, the installation directory was referred to as *BEA_HOME*. You may see installation directories from previous releases displayed at this prompt, and if so, you can select one.

Choose Oracle Home

- >1- Create new Oracle Home
- 2- Use existing Oracle Home

Enter a number: **1**

Specify a new Oracle Home directory: **/home/user/Oracle**

7. Enter 2 to accept the default product directory, which is *ORACLE_HOME/tuxedo10gR3*, or enter 1 to specify another location. This directory is referred to as *TUXDIR*.

Choose Product Directory

- >1- Modify Current Selection (/home/user/Oracle/tuxedo10gR3)
- 2- Use Current Selection (/home/user/Oracle/tuxedo10gR3)

Enter a number: **2**

8. Enter *Y* to continue:

Install Samples (Y/N): **Y**

9. Review the installation summary and press ENTER to continue.

Pre-Installation Summary

Please Review the Following Before Continuing:

Product Name:

Tuxedo 10gR3

Install Folder:

/home/user/Oracle/tuxedo10gR3

Link Folder:

/home/user

Disk Space Information (for Installation Target):

Required: 195,549,595 bytes

Available: 13,555,073,024 bytes

PRESS <ENTER> TO CONTINUE:

10. Press ENTER to begin the installation.

Ready To Install

InstallAnywhere is now ready to install Tuxedo 10gR3 onto your system at the⇒
following location:

/home/user/Oracle/tuxedo10gR3

PRESS <ENTER> TO INSTALL:

11. Enter and confirm a password for tlisten.

Configure tlisten Service

Password:

Verify Password:

Password accepted! Press "Enter" to continue.

12. Select 2 for No when asked whether to install SSL support.

SSL Installation Choice

Would you like to install SSL Support?

->1- Yes

2- No

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:

2

13. Press ENTER to exit the installer.

```
Installation Complete
```

```
-----
```

```
Congratulations. Tuxedo 10gR3 has been successfully installed to:
```

```
/home/user/Oracle/tuxedo10gR3
```

```
PRESS <ENTER> TO EXIT THE INSTALLER
```

Task 3-1-15: Installing the Oracle Tuxedo Patch on UNIX

These instructions assume that you have installed the base Oracle Tuxedo 10gR3, and have downloaded and extracted the platform-specific version of the rolling patch.

To install the patch:

1. Stop all the PeopleSoft PeopleTools domains that are running and using your Oracle Tuxedo 10gR3 installation.
2. Uninstall any existing patches.

To check for installed patches, review the file `patchlev` in the Oracle Tuxedo installation directory, `TUXDIR/udataobj`. The last line of the `patchlev` file indicates the rolling patch (RP) level that is installed. For example:

```
031. BUG9656822 TUX10.3: CAN'T INSTALL PATCHES ON WINDOWS 2003 X86-64 VS2005
```

The number “031” indicates that rolling patch 31 has been installed. If there is an existing patch, remove it before installing the new rolling patch.

3. Set the `TUXDIR` environment variable to indicate the absolute path to the directory where you installed the base Oracle Tuxedo 10gR3, `TUX_HOME`:

```
export TUXDIR=TUX_HOME
```

4. Source `tux.env` to set the environment variables:

```
. $TUXDIR/tux.env
```

5. Go to the directory where you downloaded the patch file, `TUX_INSTALL`, and unzip the file.

This creates a directory `RP31` with a TAR file containing the installation executable.

6. Change directory to `TUX_INSTALL/RP031`, uncompress, and extract the TAR file

Note. Use the appropriate commands to uncompress and untar the file on your UNIX operating system.

For example:

```
cd RP031
tar -zxf RP031.tar.Z
```

7. Run the following command to begin the installation:

```
./install
```

8. Enter the Oracle Tuxedo owner:

See Completing the Preinstallation Checklist on UNIX.

```
Installing server and client files...
```

```
Enter owner for patch files:
```

9. Enter the Oracle Tuxedo group name:

```
Enter group for patch files:
```

10. When the installation is complete, you see the following message:

```
The patch installation finished successfully.
```

11. Verify your installation.

See Verifying the Installation on UNIX.

Task 3-1-16: Uninstalling Oracle Tuxedo 10gR3 and Patch on UNIX

Remove any Oracle Tuxedo 10gR3 patches first, followed by the base installation.

This section uses the uninstaller provided with the Oracle Tuxedo RP031 patch. You must use the uninstaller that is the same version of the patch as is currently installed. The uninstaller is provided with the zip file that you downloaded from Oracle E-Delivery.

This section assumes that you downloaded and extracted the files, and set the environment variables as described in the previous section.

To uninstall the RP031 patch from Oracle Tuxedo 10gR3:

1. Set the environment variable TUXDIR to indicate the absolute path to the directory where the patch is installed.
2. Using PSADMIN, shut down any application server, Process Scheduler, and Search server domains that may be running on the machine.
3. Go to the directory where you downloaded, unzipped, and extracted the TAR file:

```
cd TUX_INSTALL/RP031
```

4. Enter the following command:

```
./uninstall
```

```
The uninstallation finished successfully.
```

To uninstall Oracle Tuxedo 10gR3:

1. Go to *TUXDIR*/uninstaller.
2. Enter the following command:

```
./Uninstall_Tuxedo_10gR3
```

3. Follow the instructions on the uninstaller.

You can confirm that the uninstallation process is complete by checking the directory *TUXDIR*/udataobj. If the patch was successfully removed, the patchlev file will be absent.

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

Task 3-1-17: Verifying the Server Installation on UNIX

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

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 RP031 was installed:

```
031. BUG9656822 TUX10.3: CAN'T INSTALL PATCHES ON WINDOWS 2003 X86-64 VS2005
```

The number “031” indicates that RP31 has been installed. If you cannot find a patchlev file in the *TUXDIR/udataobj* directory, it indicates that only the base is installed, and there is no rolling patch installed.

If you do not see the desired output, review your steps and reinstall Oracle Tuxedo 10gR3.

Task 3-1-18: 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 8.51, you can safely skip this section. If you need to run application servers on PeopleSoft PeopleTools 8.51 and earlier PeopleSoft PeopleTools versions on the same machine, read this section to learn about coexistence issues. Although Oracle Tuxedo 10gR3 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 8.51 with Oracle Tuxedo 10gR3, earlier versions of PeopleSoft PeopleTools rely on these environment variables being set.

To change your environment variables:

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 10gR3 *TUXDIR\bin*.

For example the setting *PATH=C:\winnt;C:\oracle\tuxedo10gR3_VS2008\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\tuxedo10gR3_VS2008\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.

3. Your library path on UNIX (the environment variable LD_LIBRARY_PATH, LIBPATH, or SHLIB_PATH; whichever is appropriate for your platform) must contain *TUXDIR/lib* for the earlier Oracle Tuxedo version before any entries for Oracle Tuxedo 10gR3.

For example the setting LD_LIBRARY_PATH=/lib:/usr/lib:/home/user/Oracle/tuxedo10gR3/lib:/prod/tuxedo/6.5/lib, will cause your pre-8.50 domains to no longer work. You would need to change this to LD_LIBRARY_PATH=/lib:/usr/lib:/prod/tuxedo/6.5/lib:/home/user/Oracle/tuxedo10gR3/lib for your pre-8.50 domains to work.

Changing the TListen Port

Installing Oracle Tuxedo 10gR3 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 10gR3 and earlier Oracle Tuxedo versions concurrently.

Task 3-2: Installing Micro Focus Net Express for Windows

This section discusses:

- Prerequisites
- Obtaining Installation Files for Micro Focus Net Express from Oracle E-Delivery
- Installing Micro Focus Net Express
- Installing Micro Focus Net Express 5.1 Wrap Pack 4

Prerequisites

Micro Focus® Net Express™ 5.1 is the supported COBOL compiler on Microsoft Windows for PeopleSoft PeopleTools 8.51.

Check the certification information on My Oracle Support for the supported version for Microsoft Windows operating systems.

For PeopleSoft PeopleTools 8.51, Micro Focus Net Express 5.1 WrapPack 4 is supported on Microsoft Windows 2008 R2 and Microsoft Windows 7. On other supported Microsoft Windows operating systems, Micro Focus Net Express 5.1 is supported.

For Microsoft Windows 2008 R2 and Microsoft Windows 7: To install Micro Focus Net Express 5.1 WrapPack 4, you must first install Micro Focus Net Express 5.1 WrapPack 1 as the base, followed by Micro Focus Net Express 5.1 WrapPack 4.

For other supported Microsoft Windows operating systems: To install Micro Focus Net Express 5.1 WrapPack 4, you must first install Micro Focus Net Express 5.1 as the base, followed by Micro Focus Net Express 5.1 WrapPack 4.

To install and use Micro Focus Net Express you must have Microsoft Internet Explorer 6.0 or later installed.

Task 3-2-1: Obtaining Installation Files for Micro Focus Net Express from Oracle E-Delivery

The Micro Focus Net Express installation files are available on Oracle E-Delivery. 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 E-Delivery to Obtain Installation Files.

To obtain the files for the Micro Focus Net Express installation:

1. After logging in to Oracle E-Delivery, 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 your Micro Focus Net Express 5.1 version as specified in the Prerequisites section, 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 Solaris, you must unzip it on Solaris to avoid problems. If you unzip the file to a staging directory on a Microsoft Windows computer and copy the staging directory to a Solaris, the stage area files may be corrupt.

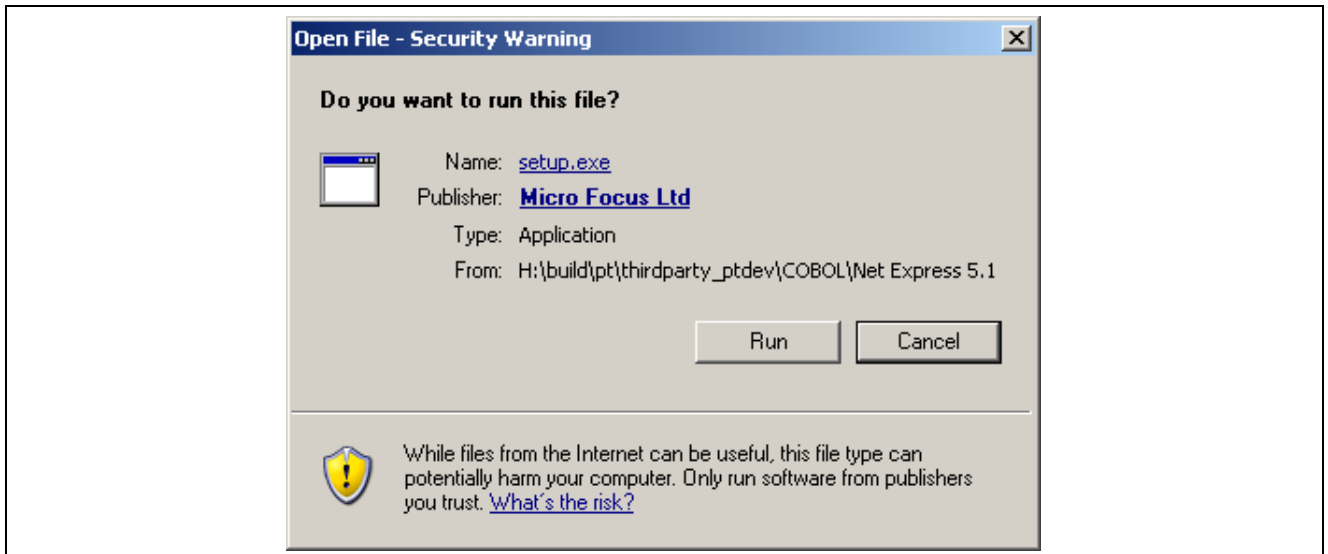
Task 3-2-2: Installing Micro Focus Net Express

The following procedure assumes that you saved the installation files from Oracle E-Delivery in the directory *NE_INSTALL*.

Note. The installation of Micro Focus Net Express WrapPack 1 is similar to this procedure. The installation of Micro Focus Net Express WrapPack 4 is given in the next section.

To install Micro Focus Net Express:

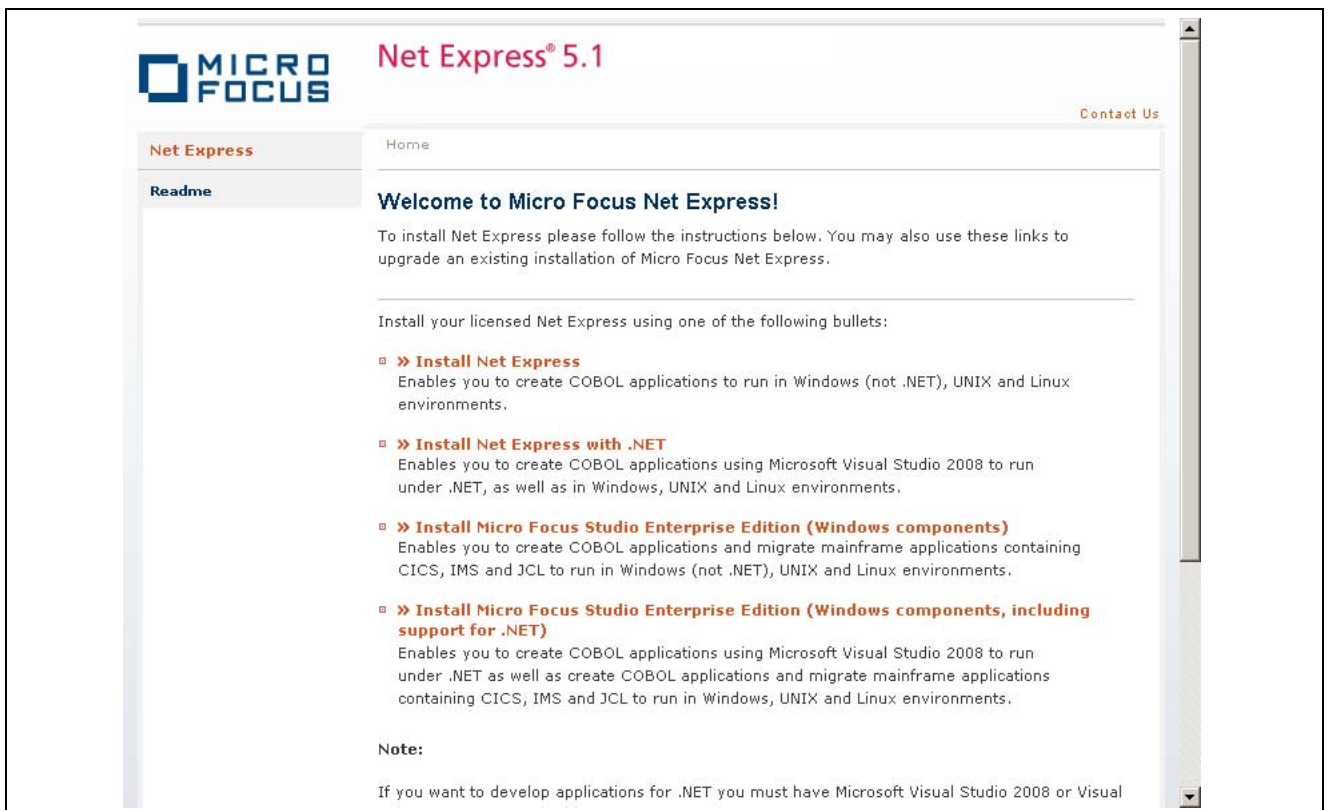
1. Double-click *NE_INSTALL/setup.exe*.
If a security screen appears, click Run to launch the installer.



Open File - Security Warning window

The installation opens a browser window.

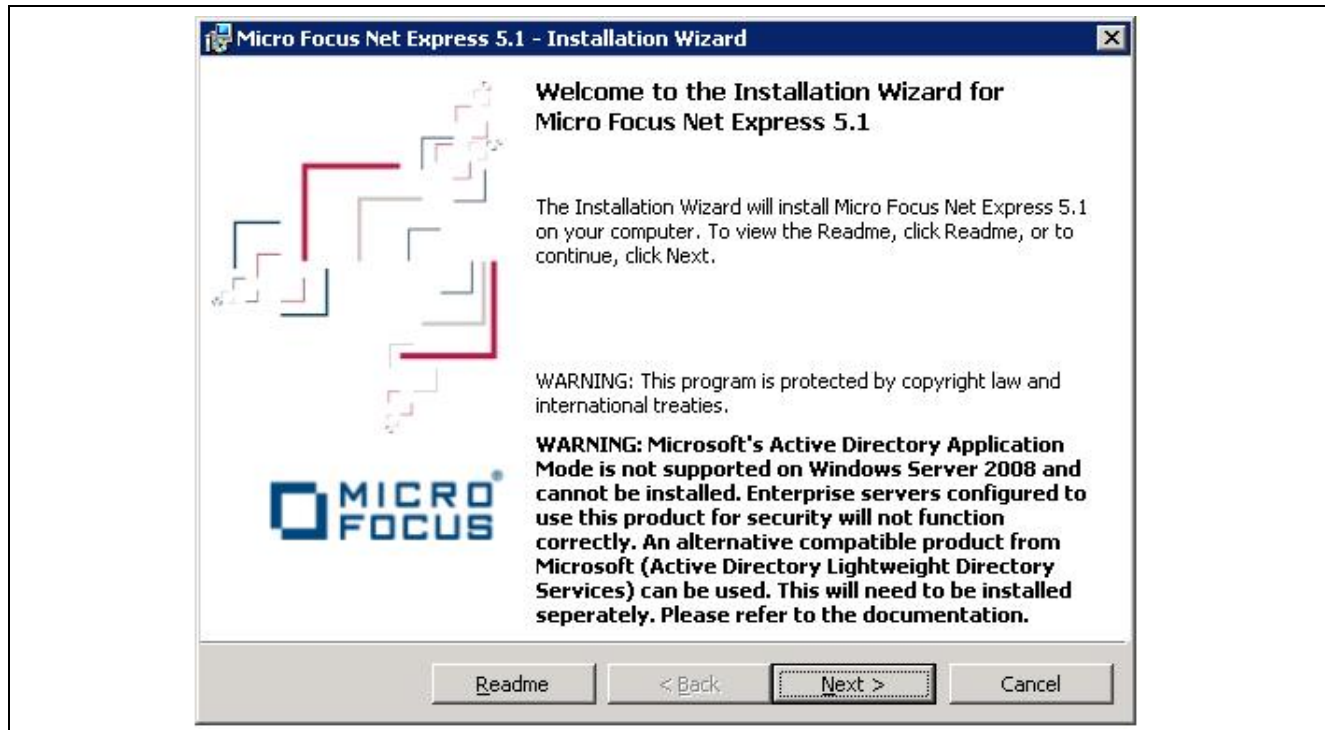
2. Select the Install Net Express link in the Net Express 5.1 window.



Micro Focus Net Express welcome window

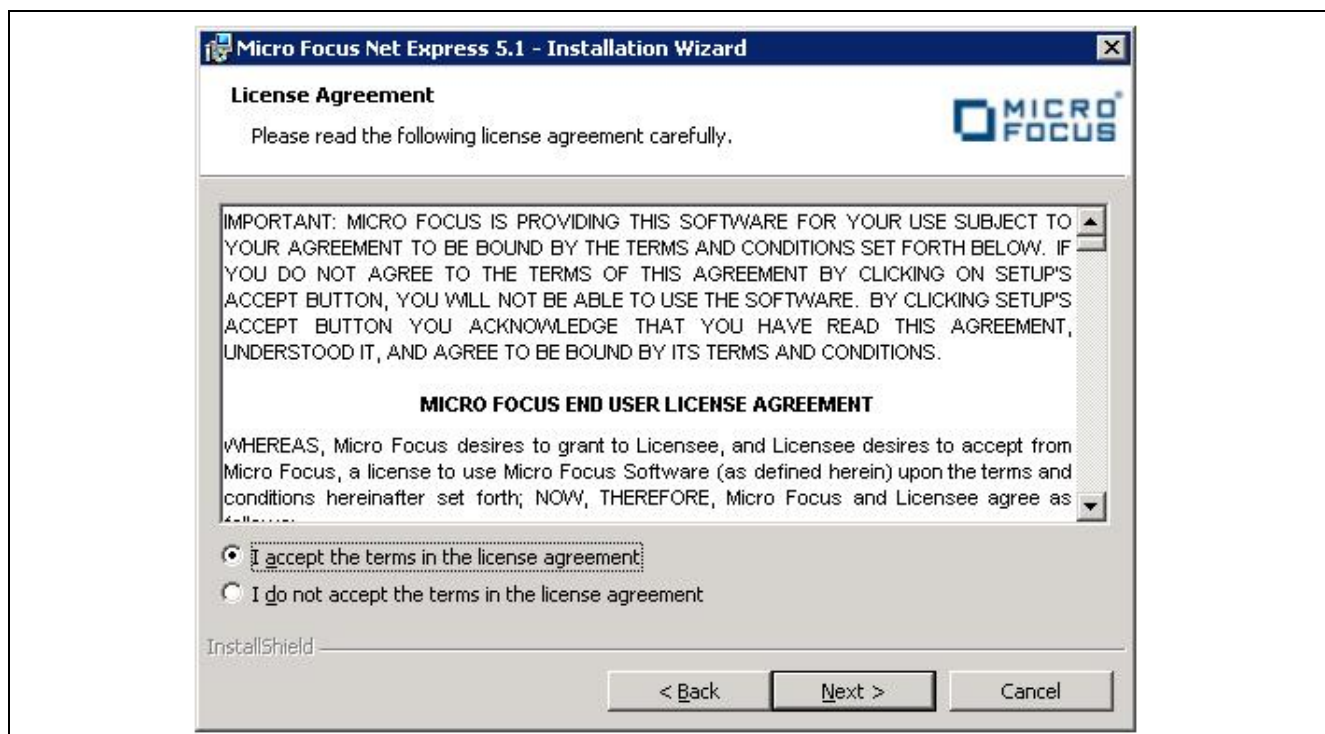
The Install Shield Wizard starts extracting files. This may take a few minutes until the files are extracted, and then the Installation Wizard dialog box appears.

3. Click Next.



Micro Focus Net Express Installation Wizard Welcome window

4. Read the terms of the License Agreement, select the option to accept the terms, and click Next.



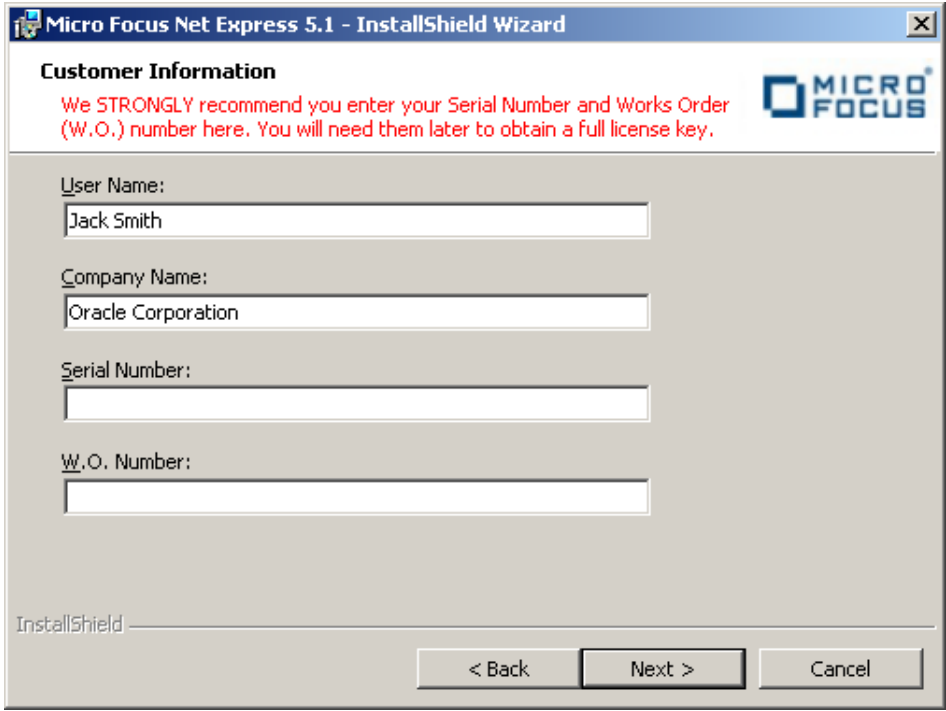
License Agreement window

5. Complete the Customer Information window:
 - a. Enter your name in the User Name field, and enter your Company Name.

- 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 below leaves these field blank.

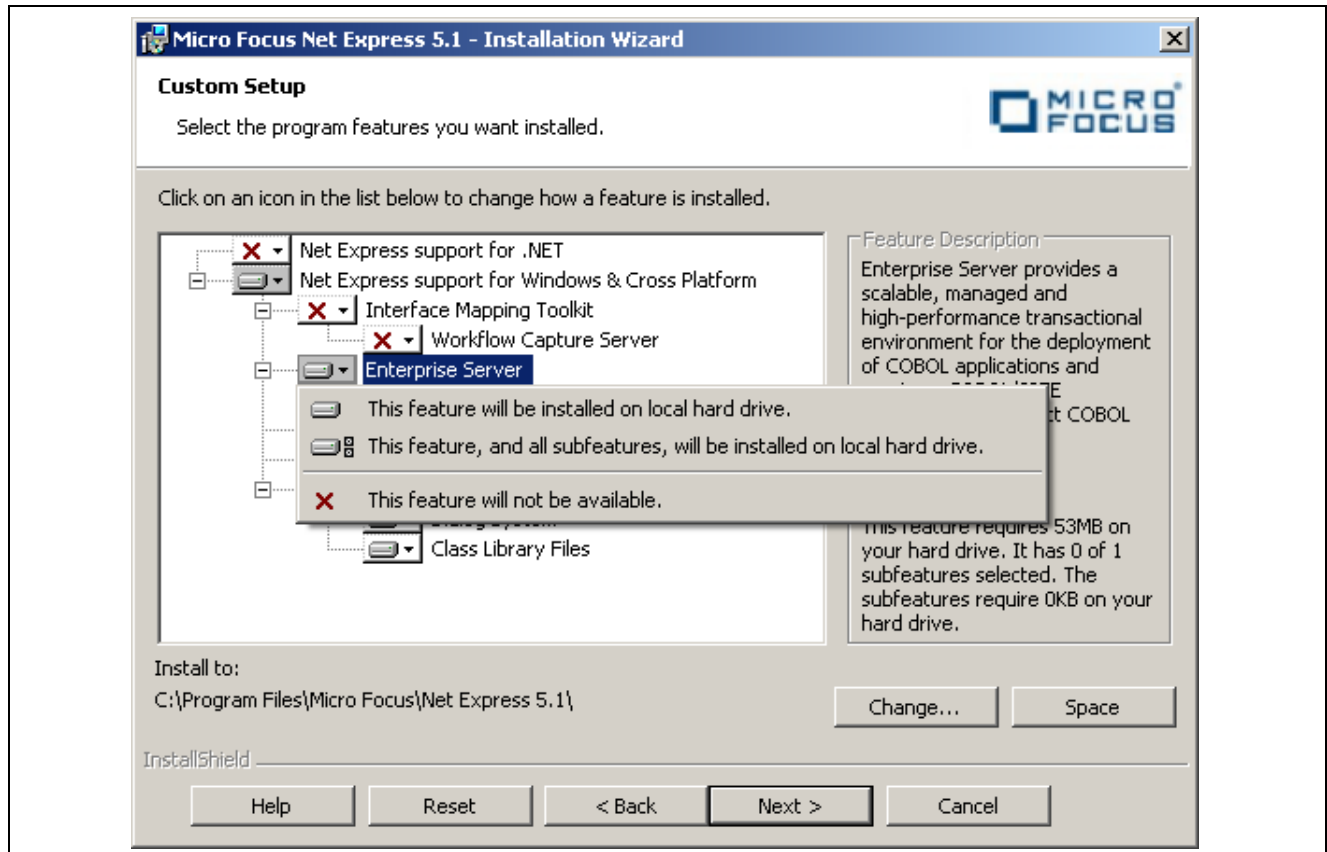
- c. Click Next.

The screenshot shows a Windows-style dialog box titled "Micro Focus Net Express 5.1 - InstallShield Wizard". The window has a blue title bar with a close button. The main content area is titled "Customer Information" and contains a red text message: "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." To the right of this message is the Micro Focus logo. Below the message are four text input fields: "User Name:" with "Jack Smith", "Company Name:" with "Oracle Corporation", "Serial Number:" (empty), and "W.O. Number:" (empty). At the bottom left, it says "InstallShield". At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel".

Customer Information window

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

The Traditional Graphical User Interfaces feature is the only feature required for the PeopleSoft installation. Clear the following features:

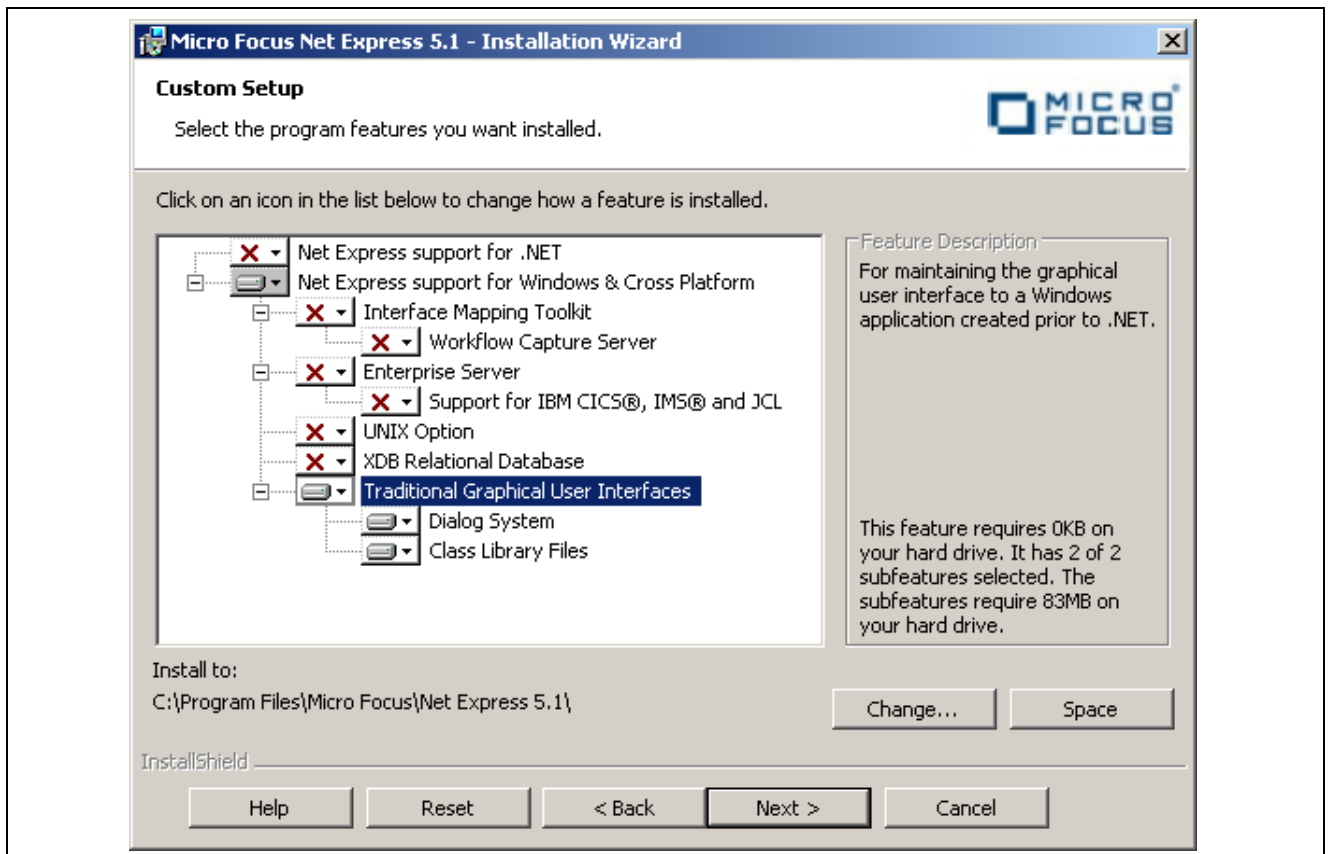
Note. Microsoft .NET framework is not required for compiling and running COBOL applications in PeopleSoft architecture. Neither is .NET required for successful installation of MicroFocus Net Express 5.1.

- Net Express support for .NET
- 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:



Custom Setup window with options selected for PeopleSoft applications

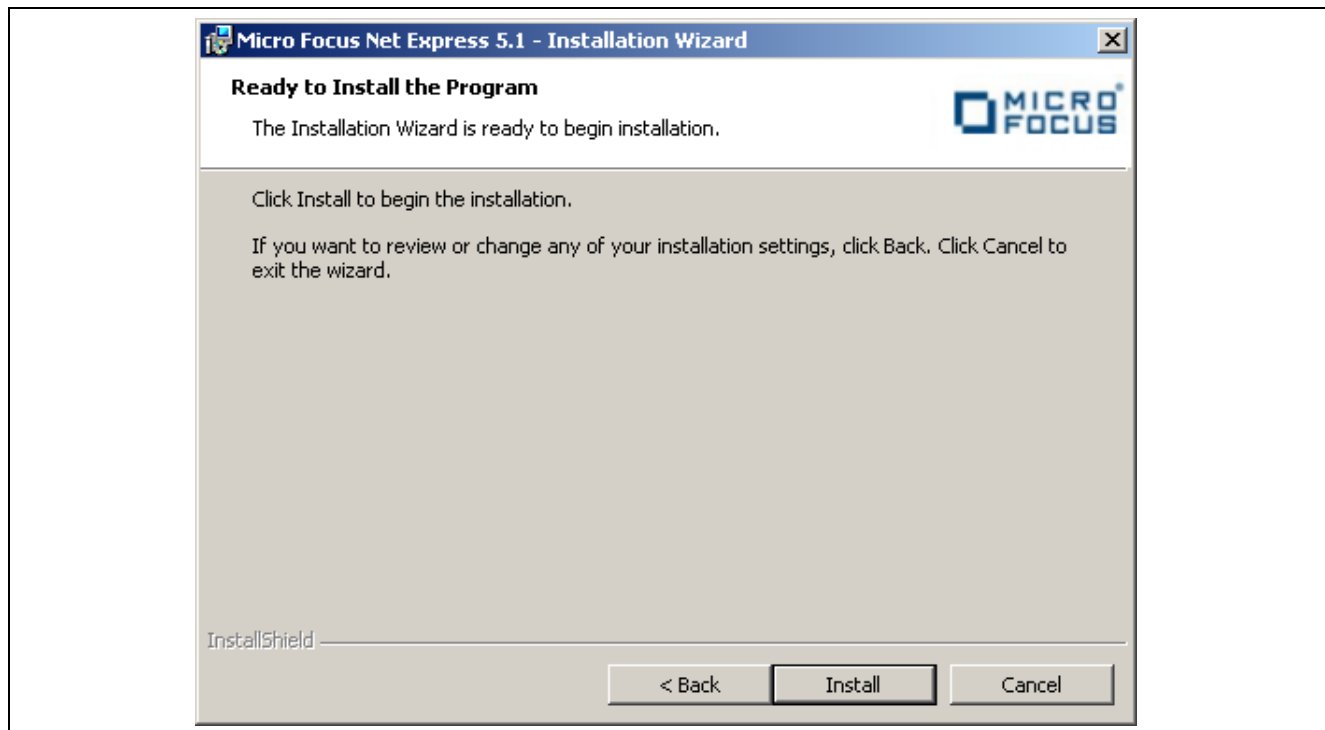
8. Highlight Traditional Graphical User Interfaces.

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:

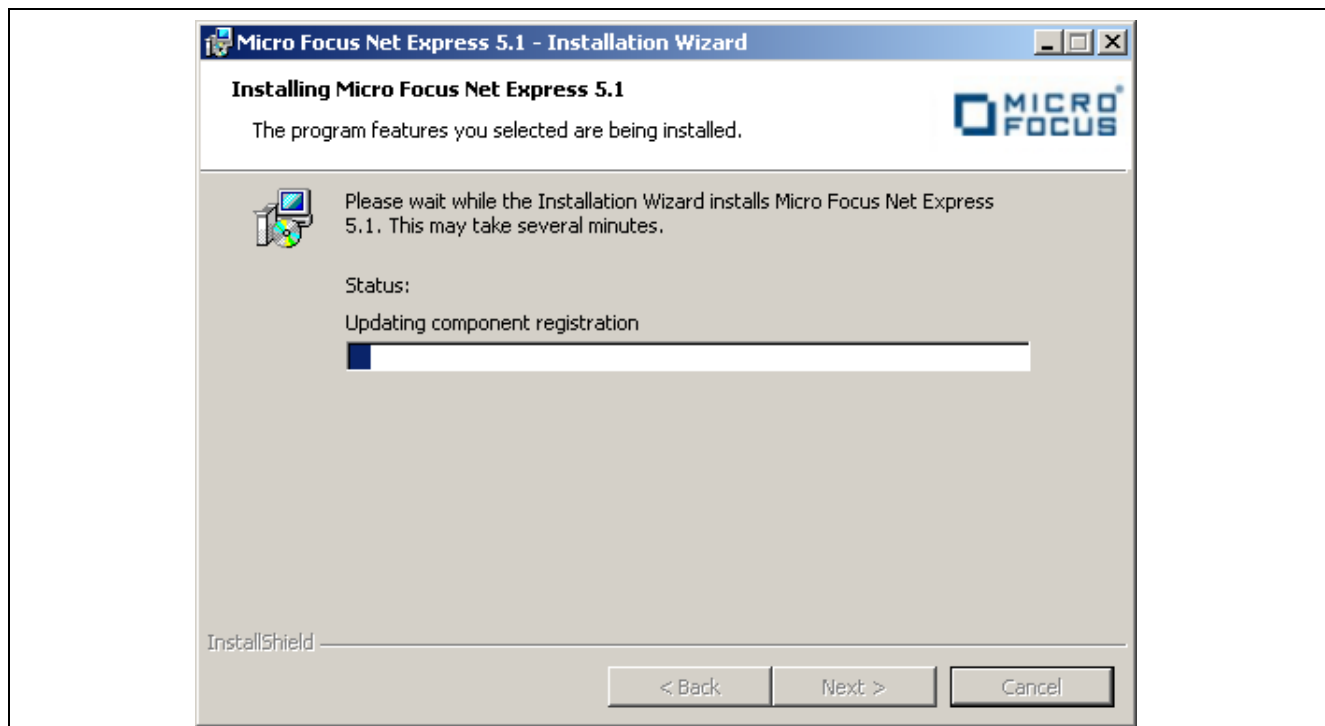
- For 32-bit systems:
C:\Program Files\Micro Focus\Net Express 5.1
- For 64-bit systems:
C:\Program Files (x86)\Micro Focus\Net Express 5.1

9. Click Install.



Ready to Install window

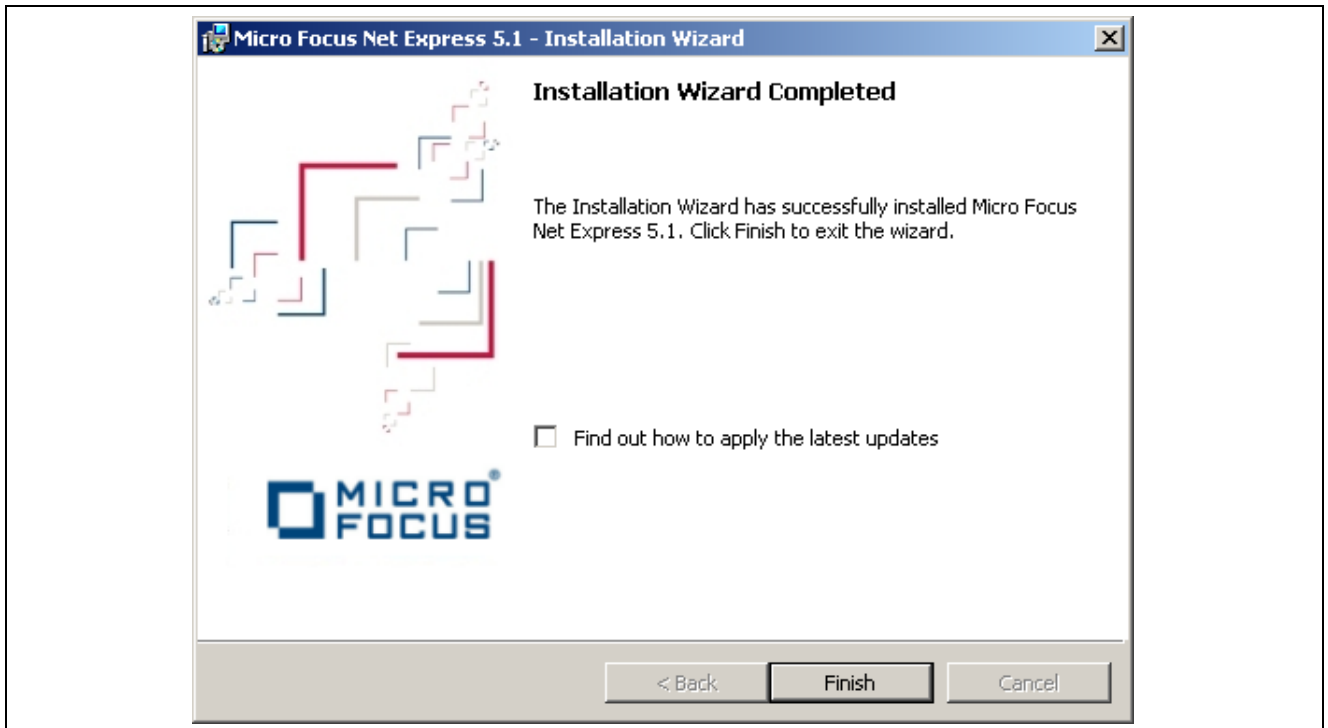
The installation status window appears tracking the installation progress.



Installation Status window

10. Click Finish.

Now you are ready to use Micro Focus Net Express 5.1 COBOL Compiler.



Installation Wizard Completed window

Task 3-2-3: Installing Micro Focus Net Express 5.1 Wrap Pack 4

Before installing this wrap pack, make sure you meet the following requirements:

- You have downloaded and extracted the necessary files to a convenient directory referred to here as *NE_INSTALL*.

See Obtaining Installation Files for Micro Focus Net Express from Oracle E-Delivery.

- You have installed Micro Focus Net Express 5.1.

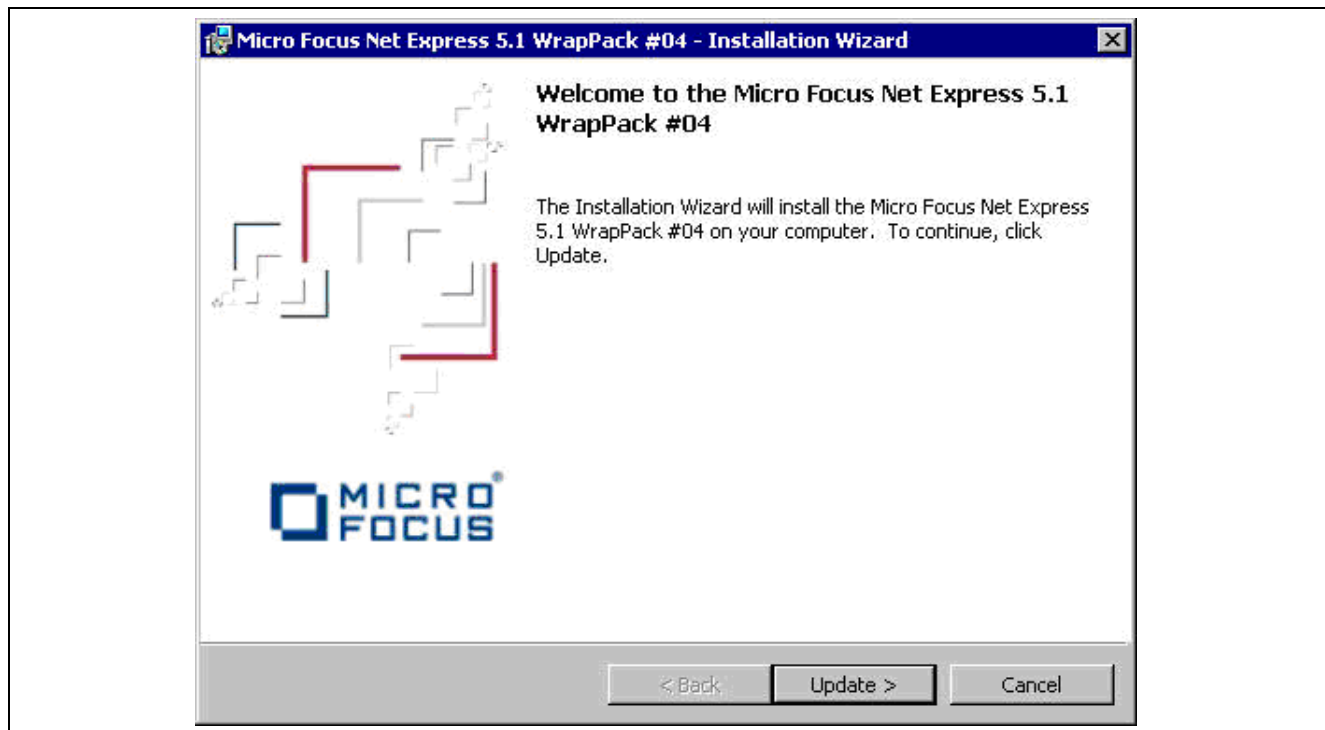
See Installing Micro Focus Net Express.

- You have verified that Micro Focus Security Pack is *not* installed on your system.
- You have verified that Net Express support for .NET Framework is *not* installed on your system.

Important! Micro Focus Security Pack and Net Express support for .NET supplied with Net Express 5.1 are *not* required by PeopleSoft installation of the Micro Focus Net Express COBOL compiler. If they have been installed on your system, be sure to remove the installation before proceeding with the Wrap Pack 4 installation.

To install Micro Focus Net Express 5.1 Wrap Pack 4:

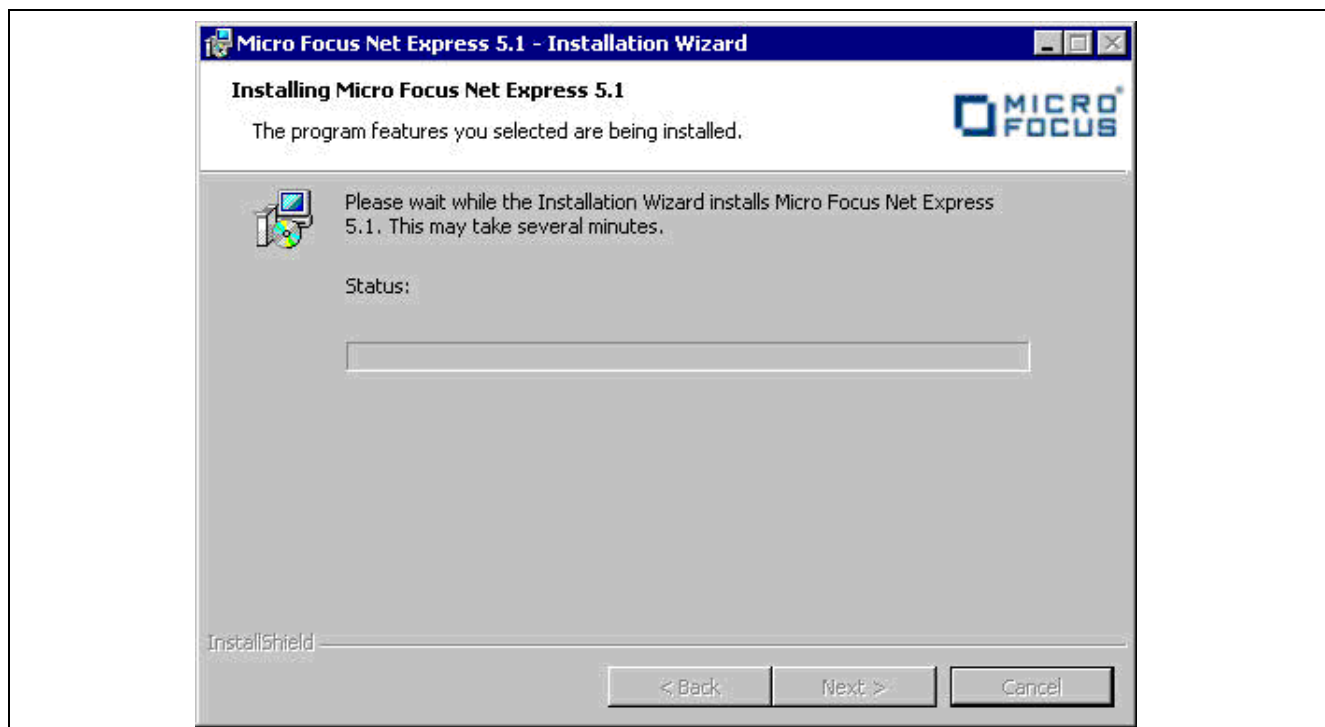
1. Go to *NE_INSTALL* and double-click the file *nxp3251040083.msp*.
2. If a security screen appears, click Open to launch the installer.
3. Click Update on the welcome window.



Micro Focus Net Express 5.1 WrapPack 4 Installation Wizard welcome window

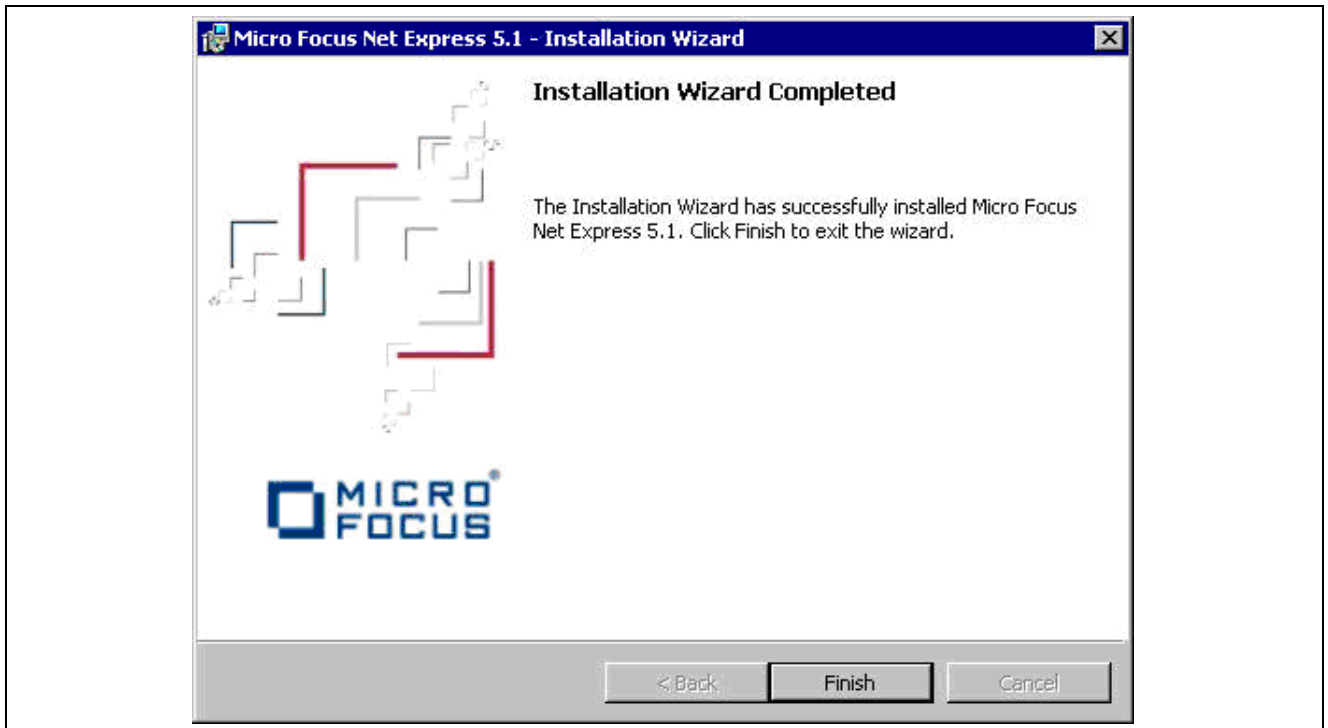
4. Wait while the installation proceeds.

Note. This may take several minutes.



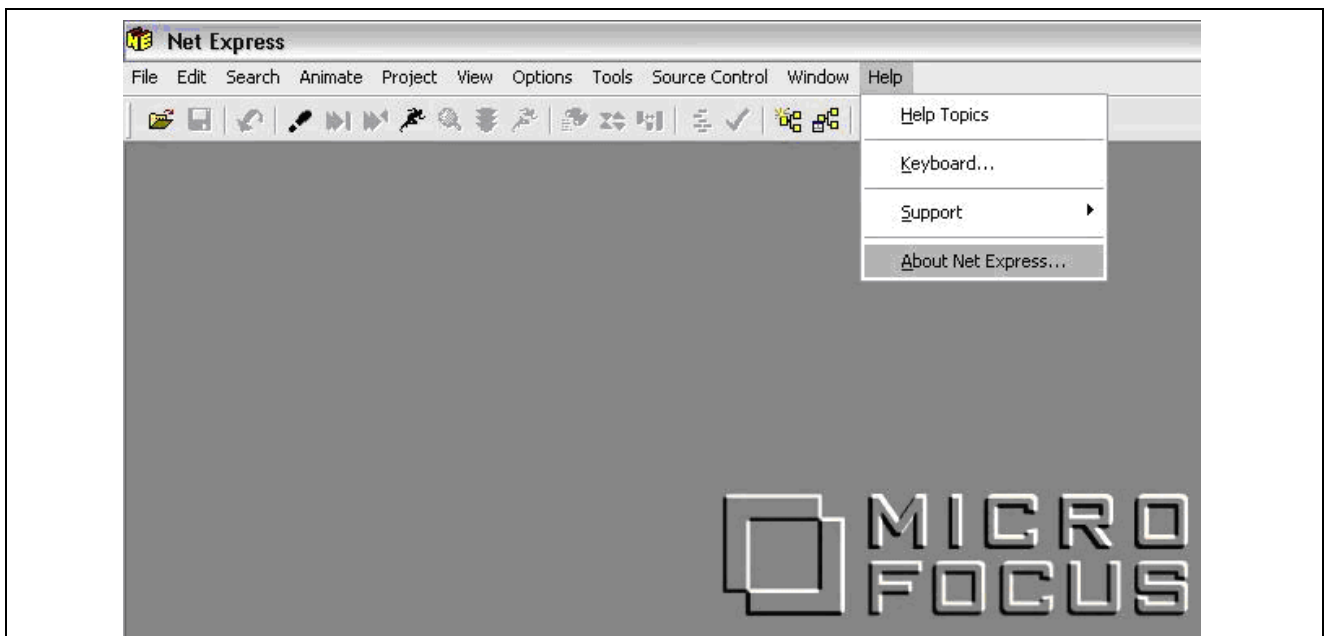
Micro Focus Net Express 5.1 WrapPack 4 Installation status window

5. Click Finish on the installation complete window.



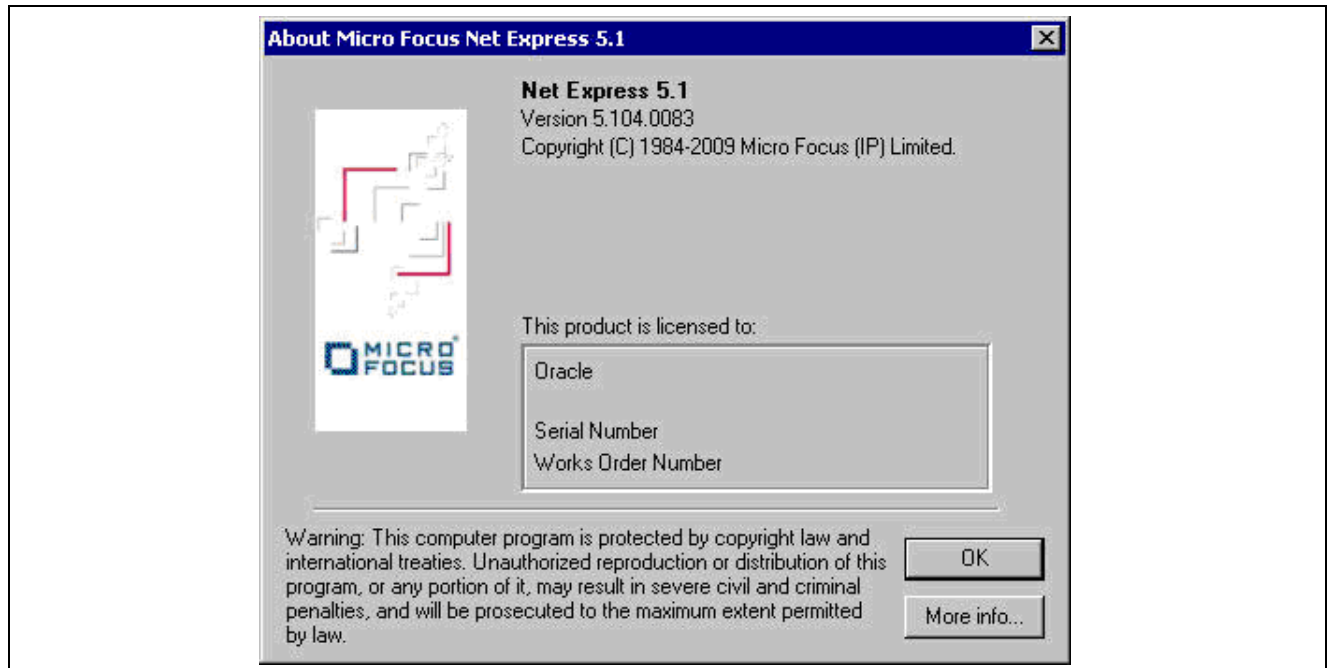
Micro Focus Net Express 5.1 WrapPack 4 Installation Complete window

6. To confirm the installation, select Start, Programs, Micro Focus Net Express 5.1, Net Express.
The Net Express Integrated Development Environment appears.
7. Click Help, About Net Express.



Micro Focus Net Express Integrated Development Environment

8. Verify that the following information is included on the window that appears:
Net Express 5.1
Version: 5.104.0083



About Micro Focus Net Express 5.1 window

Task 3-3: Installing Micro Focus Server Express for UNIX and Linux

This section discusses:

- Understanding Micro Focus Server Express
- Prerequisites
- Obtaining the Installation Files for Micro Focus Server Express from Oracle E-Delivery
- Installing Micro Focus Server Express

Understanding Micro Focus Server Express

Micro Focus® Server Express™ 5.1 Wrap Pack 4 is the supported COBOL compiler on UNIX and Linux for PeopleSoft PeopleTools 8.51. This section provides installation instructions for Micro Focus® Server Express™ 5.1 Wrap Pack 4 COBOL compiler and the License Management Facility used to manage product licenses. These instructions are specifically for installing the Server Express COBOL compiler to use with PeopleSoft software. For more general installation instructions or other supporting documentation concerning Server Express, consult the documentation that comes with the installation software.

See Also

Micro Focus web site: <http://supportline.microfocus.com/>

Server Express Documentation

Prerequisites

Each application created using a Server Express product that will be deployed in a UNIX environment must include a Micro Focus Application Server for Server Express license from Micro Focus or from your Micro Focus licensed supplier. Application Server must be installed on the machine on which the application is to run. Contact your Micro Focus Account Representative or your Micro Focus licensed supplier for details on purchasing Application Server licenses.

If you have a previous Micro Focus COBOL product installed we recommend that you make a backup of any COBOL systems files that you have changed. Examples include cobkeymp, ADISCTRL, cobopt and cobconfig. After you have installed Server Express you might want to apply to the new COBOL product the changes previously applied to these files.

If you are installing a COBOL system over an existing COBOL system, you must first delete the existing system. Alternatively, you might prefer to move your existing COBOL system to another directory until you have verified the new installation.

If you have installed, or plan to install, Application Server or any other Micro Focus product on the same machine as this product, you must install them in different directories.

This Micro Focus product is managed by a License Management Facility (LMF). This facility helps you keep track of the number of licenses you have for the product. In order to use this product it is necessary for you to install the License Management Facility (which is provided with the Server Express software). This software should not be installed in the same directory as Server Express. The default directory depends upon the operating system; for example:

- /opt/lib/mflmf for HP-UX
- /usr/lib/mflmf for RS/6000 and PowerPC systems running AIX
- /opt/lib/mflmf on other systems

If /opt/lib does not exist, use /usr/lib/mflmf instead.

Task 3-3-1: Obtaining the Installation Files for Micro Focus Server Express from Oracle E-Delivery

The Micro Focus Server Express installation files are available on Oracle E-Delivery. At this point you should have already downloaded the necessary files. This section includes additional information on finding and using the files for Micro Focus Server Express if necessary.

See "Preparing for Installation," Using Oracle E-Delivery to Obtain Installation Files.

To obtain the files for the Micro Focus Server Express installation:

1. After logging in to Oracle E-Delivery, 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 Micro Focus Server Express 5.1 Wrap Pack 4, and save the zip files to a temporary directory on your local system.

You must extract (unzip) the file on the platform for which it is intended. For example, if you download the zip file for Solaris, you must unzip it on Solaris to avoid problems. If you unzip the file to a staging directory on a Microsoft Windows computer and copy the staging directory to a Solaris, the stage area files may be corrupt.

Task 3-3-2: Installing Micro Focus Server Express

The following section is provided as an example installation and illustrates a typical Micro Focus Server Express 5.1 Wrap Pack 4 (WP4) installation for PeopleSoft application, as outlined in the overview section above.

The answers to the prompts provided in the following example are recommended by Oracle for PeopleSoft installations, with the exception of the installation directory named in step 12 below. For step 12, you can use the default directory names or choose directory names based on your site's naming conventions.

It is recommended by Micro Focus and Oracle to install LMF in its own directory, instead of in a sub-directory of the Server Express install.

Important! Make sure to select the *correct* bit mode for your UNIX platform:

With PeopleSoft PeopleTools 8.51, enter *64* for all UNIX platforms.

The following example was done on a RedHat Linux x86-64 operating system platform. Installation prompts will vary slightly with respect to specifics of the different UNIX platforms.

1. Log in as root.
2. Create a directory (if it does not exist) where you want to install the Micro Focus Server Express 5.1 WP4. For example:

```
$ mkdir /products/mf/svrexpress-51_wp4-64bit
```

3. Change directory to the newly-created directory.

```
$ cd /products/mf/svrexpress-51_wp4-64bit
```

4. Copy or ftp the Micro Focus Server Express 5.1 WP4 tar file that you obtained from Oracle E-Delivery to this directory.

In this example, the file name is `sx51_wp4_redhat_x86_64_dev.tar`.

Note. This tar file can be obtained from <http://edelivery.oracle.com>

5. List the items in the directory with the following commands:

```
$ ls -l /products/mf/svrexpress-51_wp4-64bit
total 409600
-rwxr-xr-x  1 root  root      209295360 Feb  03 19:23 sx51_wp4_redhat_x86_64_⇒
dev.tar
```

6. Extract the tar file:

```
$ tar -xvf sx51_wp4_redhat_x86_64_dev.tar
```

7. List the items in the directory with the following commands:

```
$ ls
```

```

ADISCTRL  cpylib  dialog  dynload64  etc      lang  snmp           ⇒
          terminfo
aslmf      demo   docs    es          include lib  src           ⇒
          xdb
bin        deploy dynload eslmf-mess install lmf  sx51_wp4_redhat_x86_64_⇒
dev.tar

```

8. To begin the installation, type:

```
$ ./install
```

9. Read the text and follow the instructions to review the readme.txt file:

```
This script will install Micro Focus Server Express 5.1 on this computer.
```

```
The readme.txt file included in this delivery contains details of new features,⇒
enhancements and any restrictions of which you should be aware. This file is⇒
located in :
```

```
/products/mf/svrexpress-5.1_wp4-64bit/docs
```

```
We strongly recommend you read this file once the installation is complete.
```

```
Do you wish to continue (y/n): y
```

10. Read and type *y* to accept the license agreement:

```
Before installing and using this software product you must
agree to be bound by the terms and conditions of the end user
license agreement ("License Agreement") which accompanies this product.
Please take this time to read the License Agreement. If you are not in
agreement with the terms and conditions of the License Agreement, please
return the product to your Account Representative and your money will
be refunded. If you require a replacement copy of the License
Agreement, please contact your Account Representative before proceeding
with the install process.
```

```
Do you agree to the terms of the License Agreement? (y/n): y
```

11. If you are installing on an operating system platform that Micro Focus has not built the product on, you see the following message. Type *y* at the prompt:

```
Micro Focus Install
```

```
This product was not built or tested on this version
of the Operating System.
```

```
This product was built on Operating System:
Linux 2.6.9-11.ELsmp x86_64
Red Hat Enterprise Linux AS release 4 (Nahant Update 1)
and you are installing it on Operating System:
Linux 2.6.18-53.1.14.el5
```

Any product issues you report will only be corrected if they can be reproduced on one of our systems running:

```
Linux 2.6.9-11.ELsmp x86_64
Red Hat Enterprise Linux AS release 4 (Nahant Update 1)
Linux 2.6.9-67.ELsmp i686
Red Hat Enterprise Linux ES release 4 (Nahant Update 6)
Linux 2.6.18-164.el5 x86_64
Red Hat Enterprise Linux Server release 5.4 (Tikanga)
Linux 2.6.18-164.el5 i686
Red Hat Enterprise Linux Server release 5.4 (Tikanga)
```

Please confirm that you want to continue with this installation (y/n): y

12. After reading the information below type y to continue:

This product is certified on the following reference environment. The command⇒
(s) used to gather the information is given following each entry:

Operating System

```
Linux 2.6.9-11.ELsmp x86_64
Red Hat Enterprise Linux AS release 4 (Nahant Update 1)
```

```
uname -s
```

```
uname -r
```

```
uname -m
```

```
cat /etc/redhat-release
```

C Compiler

```
cc gcc version 3.4.6 20060404 (Red Hat 3.4.6-9)
```

```
gcc -v 2>&1 | tail -1
```

C++ Compiler

```
/usr/bin/g++ gcc version 3.4.6 20060404 (Red Hat 3.4.6-9)
```

```
g++ -v 2>&1 | tail -1
```

Assembler

```
as GNU assembler version 2.15.92.0.2 (x86_64-redhat-linux) using BFD version⇒
2.15.92.0.2 20040927
```

```
as -v 2>&1 < /dev/null
```

Linker

```
ld GNU ld version 2.15.92.0.2 20040927
```

```
ld -V 2>&1 | head -1
```

```
.....
.....
```

Please confirm your understanding of the above reference environment details (y⇒/n): **y**

13. Answer *n* (no) to the following prompt:

```
Do you want to make use of COBOL and Java working together? (y/n): n
Skipping Java setup
Should you want to use Java with COBOL later on as super user, run the command ⇒
/products/mf/svexp-5.1_wp4-64bit/bin/java_setup to select the version of Java⇒
you want to use.
Peoplesoft COBOL implementations do not require COBOL and Java to work together.
```

14. Answer *y* (yes) to the following prompt concerning the License Management Facility:

```
This product is protected using the Micro Focus License Management Facility ⇒
(LMF). Please refer to the Development System Licensing Guide for information⇒
relating to the installation of the licensing system and licenses.
If you do not have LMF installed or want to upgrade to the latest version, we⇒
recommend that you install it now.
```

```
Would you like to install LMF now? (y/n): y
```

15. At the following prompt, enter the directory name where you wish to install License Manager.

Note. Micro Focus and Oracle recommend that you install LMF in its own directory, instead of a sub-directory of the Server Express install.

```
Enter the directory name where you wish to install License Manager.
(Press Enter for default directory /opt/microfocus/mflmf)
```

```
/products/mf/mflmf-svexp-51_wp4-64bit
```

```
/products/mf/mflmf-svexp-51_wp4-64bit does not exist
do you wish to create it ? (y/n) y
```

16. Enter *y* (yes) to restrict access to the License Admin System to the superuser account:

```
Empty database created ok. Do you want only superuser to be able to access the⇒
License Admin System? (y/n) y
```

17. Enter *y* (yes) to start license manager automatically at boot time:

```
It is recommended that you let license manager autostart at boot time. Do you⇒
want license manager to be automatically started at boot time? (y/n) y
LMF installation complete.
```

18. If you want to consult the documentation on how to install licenses, follow the instructions in this prompt:

Please consult the Development Licensing Guide for detailed information on how to install licenses.

This may be done by changing directory to where the LMF was installed, and typing:

```
./mflicense
```

```
-----
To run your applications, you need a deployment license installed using⇒
Apptack. See your Deployment Licensing Guide for details. Installing⇒
Apptack...
```

```
Access permissions on directory /var/mfaslmf have changed on this release.⇒
Write access permission has been removed except for superuser use.
Apptack installation complete.
```

19. Enter *64* for the system default mode:

```
This product can be used in either 32-bit or 64-bit modes.
Please enter either 32 or 64 to set the system default mode: 64
System default COBMODE has been set to 64.
```

Important! Specify 64 for AIX, HP-UX PA-RISC, HP-UX Itanium, Sun Solaris and SuSE on z/Linux.

Specify 64 for RedHat or SuSE Linux running in x86-64bit Intel Platforms

Important! For PeopleTools 8.51, enter *64*: for all UNIX platforms.

20. Enter *n* (no) to configure the Enterprise Server later:

```
Installing documentation. Please wait
Enterprise Server provides a scalable, managed, and high-performance⇒
transactional environment for the deployment of COBOL applications and⇒
services, COBOL/J2EE applications and direct COBOL Web Services.
```

```
Your Enterprise Server requires configuration. You can either do it now or⇒
later. To do it now, you need to know the alphanumeric user ID of the⇒
Enterprise Server System Administrator.
```

To do it later, enter the following commands while logged in as root:

```
/products/mf/svrex-5.1_wp4-64bit/bin/eslminstall
/products/mf/svrex-5.1_wp4-64bit/bin/casperm
```

Do you wish to configure Enterprise Server now? (y/n): **n**

21. Enter *n* (no) to the following prompt:

```
XDB is a fully-functional ANSI-compliant relational database management system,⇒
providing support for SQL data access for development purposes.
```

Do you want to install XDB? (y/n): **n**

```
Skipping XDB install. Should you want to install XDB later on, run the⇒
following command as the root user:
```

```
sh /products/mf/svrex-5.1_wp4-64bit/xdb/xdb_install
```

22. Review the information concerning setting the COBDIR, LD_LIBRARY_PATH, and PATH environment variables in the concluding prompt:

Remember to set COBDIR to /products/mf/svrex-5.1_wp4-64bit, include /products⇒
/mf/svrex-5.1_wp4-64bit/lib in LD_LIBRARY_PATH, and include /products/mf⇒
/svrex-5.1_wp4-64bit/bin on your PATH.

WARNING: Any executables (whether a Run-Time System or an application) must be⇒
relinked using this new release. Otherwise, the results of running the older⇒
executables with this new release are undefined.

Installation completed successfully.

The COBOL system is ready to use.

CHAPTER 4

Using the PeopleSoft Installer

This chapter discusses:

- Understanding the PeopleSoft Installer
- Prerequisites
- Verifying Necessary Files for Installation on Windows
- Obtaining the PeopleSoft Installation Files from Oracle E-Delivery
- Running the PeopleSoft Installer
- Installing the Verity Integration Kit
- Installing PeopleSoft Application Software
- Loading the Multilanguage Files

Understanding the PeopleSoft Installer

This section discusses:

- Defining the PeopleSoft Installer
- Understanding PeopleSoft Servers
- 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.

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 run the PeopleSoft installer to install the necessary products on the target machines. Which files are installed depends on which products you are licensed for, the operating system on the target machine, the database platform, and the selected server option. The PeopleSoft Installer installs files directly to Microsoft Windows, UNIX, and Linux 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.

Note. During the installation you select the servers you want to install. Keep in mind that 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.

Note. 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, as discussed in the next chapter.

See "Setting Up the File Server on Windows."

All licensed components of the PeopleSoft Architecture must be installed on each server. If you are not able to download and extract the PeopleSoft installation files directly on a UNIX machine, for example, you can download to the Windows file server and then FTP the files to your UNIX system

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.

Understanding PeopleSoft Servers

You can install the whole range of PeopleSoft servers (file server, application server, and so on) with the PeopleSoft Installer. You can install PeopleSoft server software separately or together. Keep in mind which PeopleSoft PeopleTools functionality resides in each server:

- *File Server:* All Client executables (PSIDE...), Nvision, Change Assistant, files and directories necessary to perform upgrade, and Client SQR.
- *Application Server:* PSADMIN, COBOL for remote call, Verity.
- *Web Server:* Windows PeopleSoft Pure Internet Architecture (PIA) install, UNIX web files and shell scripts, Portal Search data files, and Verity.
- *Process Scheduler Server:* PSADMIN, COBOL, SQR, Verity.
- *Database Server:* Scripts and data directories, files necessary to run Data Mover.

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 Enterprise 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
• HP-UX Itanium • HP-UX PA-RISC (64-bit) • IBM AIX on POWER Systems (64-bit) • Oracle Solaris on SPARC (64-bit)	• HP-UX Itanium • HP-UX PA-RISC (64-bit) • IBM AIX on POWER Systems (64-bit) • Microsoft Windows x64 (64-bit) • Oracle Solaris on SPARC (64-bit)	Microsoft Windows x64 (64-bit)	• IBM AIX on POWER Systems (64-bit) • HP-UX Itanium • HP-UX PA-RISC (64-bit) • Linux x86-64 • Microsoft Windows x64 (64-bit) • Oracle Solaris on SPARC (64-bit)

See Also

Enterprise PeopleTools 8.51 Hardware and Software Requirements.

My Oracle Support, Certifications

Obtaining License Codes

Refer to the following URL for license codes for Oracle's PeopleSoft Enterprise 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 1.6.0 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, and Additional Component Patches Required for Installation," 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 or the directory specified by the -tempdir option when using setup.sh to install.

Oracle strongly recommends that you use the -tempdir option to install, using the following guidelines:

- Do not use /tmp as the temporary directory.
- Do not specify /tmp as the explicit temporary directory for the -tempdir option.
- 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

Enterprise PeopleTools 8.51 Hardware and Software Requirements, Additional Requirements, Describing JRE Requirements

My Oracle Support, Certifications

Task 4-1: Verifying Necessary Files for Installation on Windows

PeopleSoft PeopleTools 8.50 and higher releases are developed using Microsoft Visual C++ 2005. 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
- 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 `psvcrt_retail.msi` manually.

1. Go to `PS_HOME\setup\psvcrt`.
2. Run `psvcrt_retail.msi`.

The installation is completed automatically.

Task 4-2: Obtaining the PeopleSoft Installation Files from Oracle E-Delivery

You obtain the PeopleSoft PeopleTools, PeopleSoft application, and multi-language software by downloading them as zip files from Oracle E-Delivery. At this point you should have already downloaded the necessary files. This section includes additional information on finding and using the installation files if necessary.

See "Preparing for Installation," Using Oracle E-Delivery to Obtain Installation Files.

To obtain the installation files for PeopleSoft PeopleTools from Oracle E-Delivery:

1. After logging in to Oracle E-Delivery, 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 Solaris platform, you must unzip the file on a Solaris operating system. If you unzip the file on a Microsoft Windows machine into a staging directory, and then move the directory to a Solaris machine, the staging area files may be corrupted.

2. Select the radio button for PeopleSoft Enterprise - PeopleTools 8.51 Media Pack, and click Continue.
3. Download the 3 zip files for the PeopleSoft PeopleTools 8.51 installation.

For the PeopleSoft application and multi-language installations, download the appropriate zip files.

4. 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 and multi-language files, extract the zip files into a convenient local directory.

For UNIX only:

After you download the installation files from Oracle E-Delivery, 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
 - setup.hp-ia64
 - setup.linux
 - setup.solaris

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 4-3: Running the PeopleSoft Installer

This section discusses:

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

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 HRMS910 for the 9.1 version of Human Resources Management System.

You can run the installer in GUI mode, on Microsoft Windows operating systems, or in console (text) mode, on UNIX or Linux.

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 UNIX or 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

Enterprise PeopleTools 8.51 PeopleBook: Global Technology

Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Change Assistant

Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration

Enterprise PeopleTools 8.51 Hardware and Software Requirements, "Server Requirements"

Task 4-3-1: 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 on Microsoft Windows, type:

```
PS_INSTALL\disk1\setup.bat [additional flags]
```

To start the PeopleSoft Installer on a supported UNIX or Linux operating system, type:

```
PS_INSTALL/disk1/setup.sh [additional flags]
```

Use setup.sh to start the PeopleSoft Installer on the following platforms:

- AIX
- HP-UX
- Linux
- Solaris

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

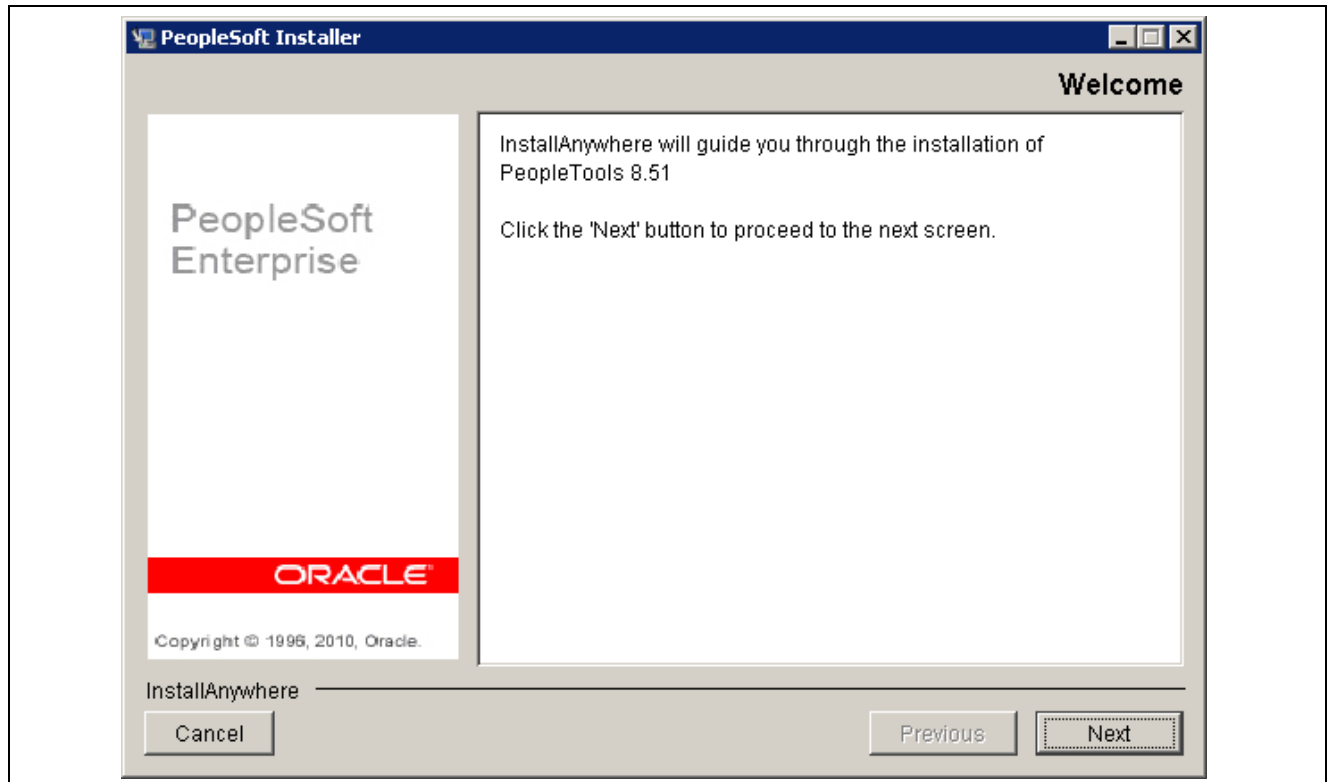
Command Line Option	Allowed Values	Description
-debug	NA	Use this flag to enable debugging mode.
-DDEBUG=true	NA	Use this variable for debugging.

Command Line Option	Allowed Values	Description
-javahome	Path to Java home directory. For example: <code>setup.sh -javahome /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 4-3-2: Installing PeopleSoft PeopleTools in GUI Mode

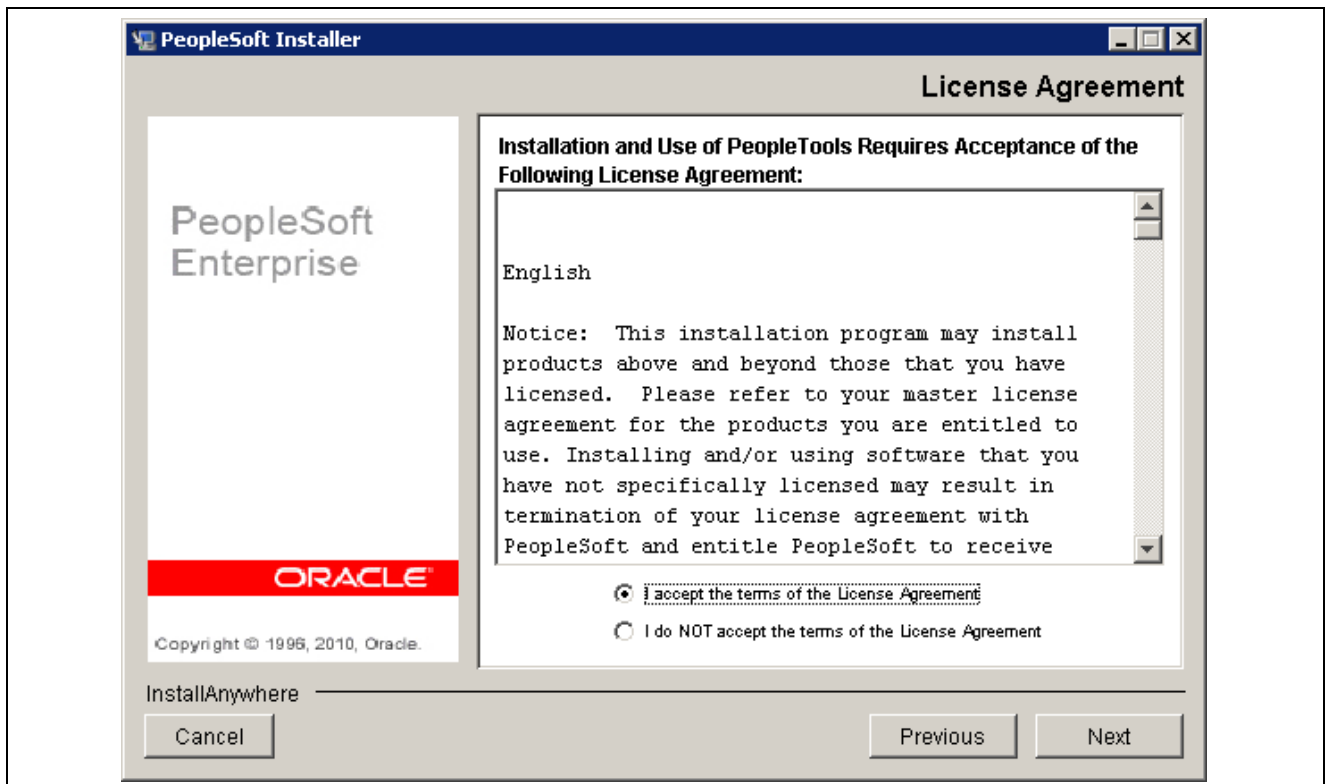
To install PeopleSoft PeopleTools with the PeopleSoft Installer in GUI mode:

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



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.



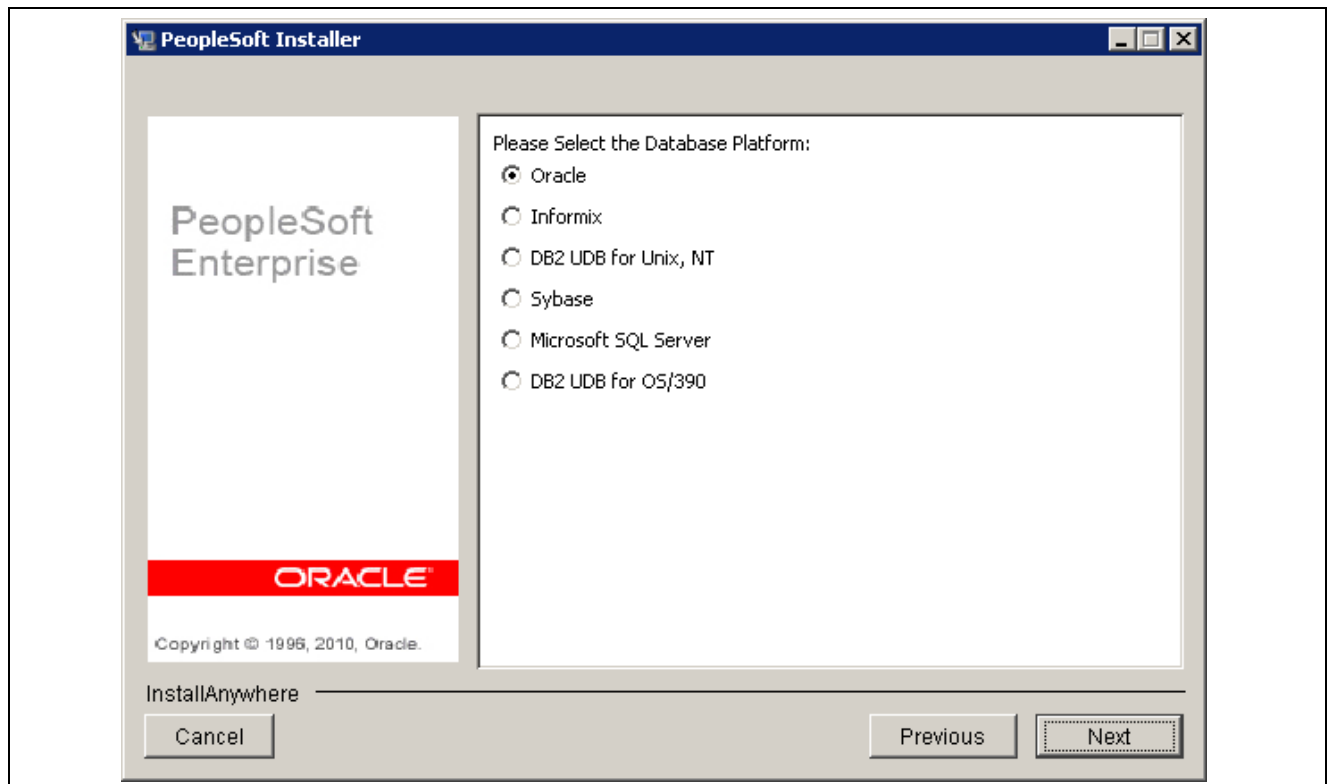
PeopleSoft Installer License Agreement window

3. Enter your license code and click Next.

See Understanding the PeopleSoft Installer, Obtaining License Codes.

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

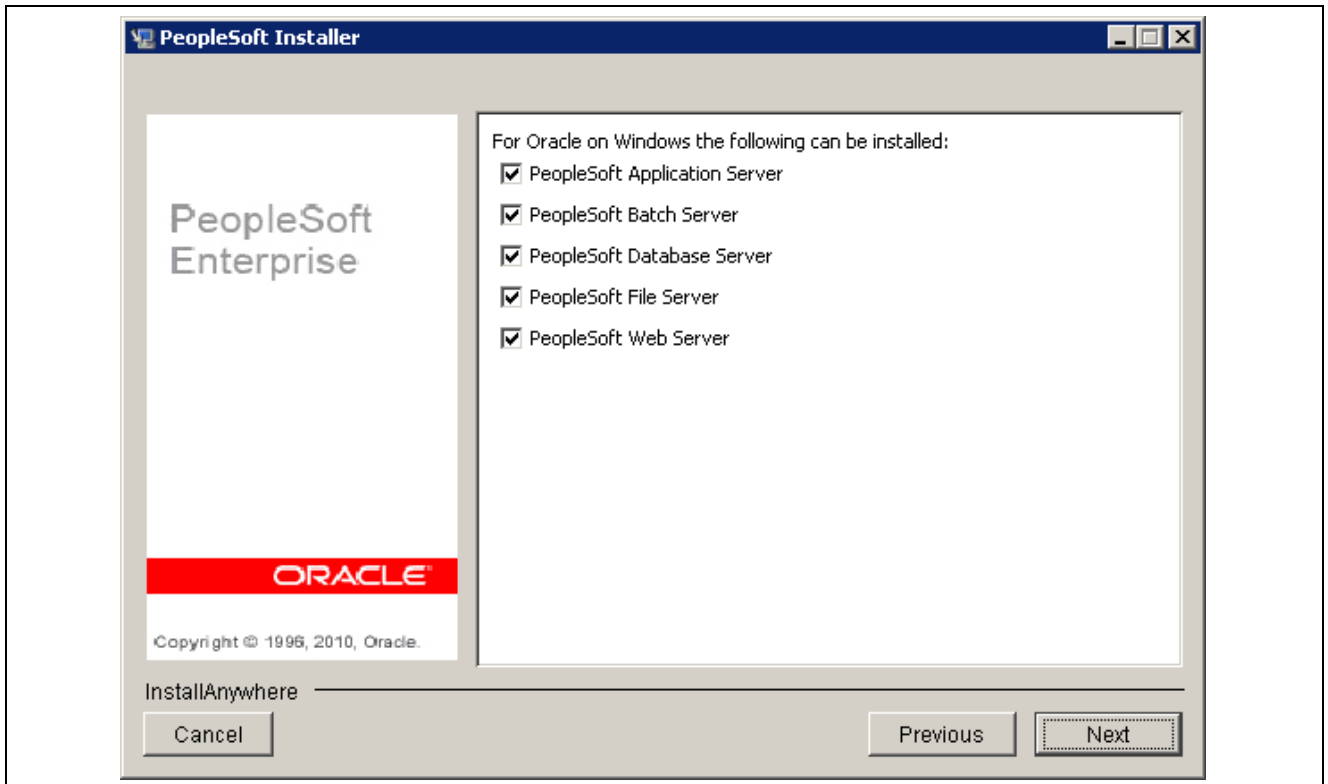
In the following example, an Oracle database platform is selected. The other options are Informix, DB2 UDB for Unix, NT (DB2/LUW), Sybase, Microsoft SQL Server, and DB2 UDB for OS/390 (DB2 z/OS).



Selecting an Oracle database platform for the PeopleSoft PeopleTools installation

5. 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

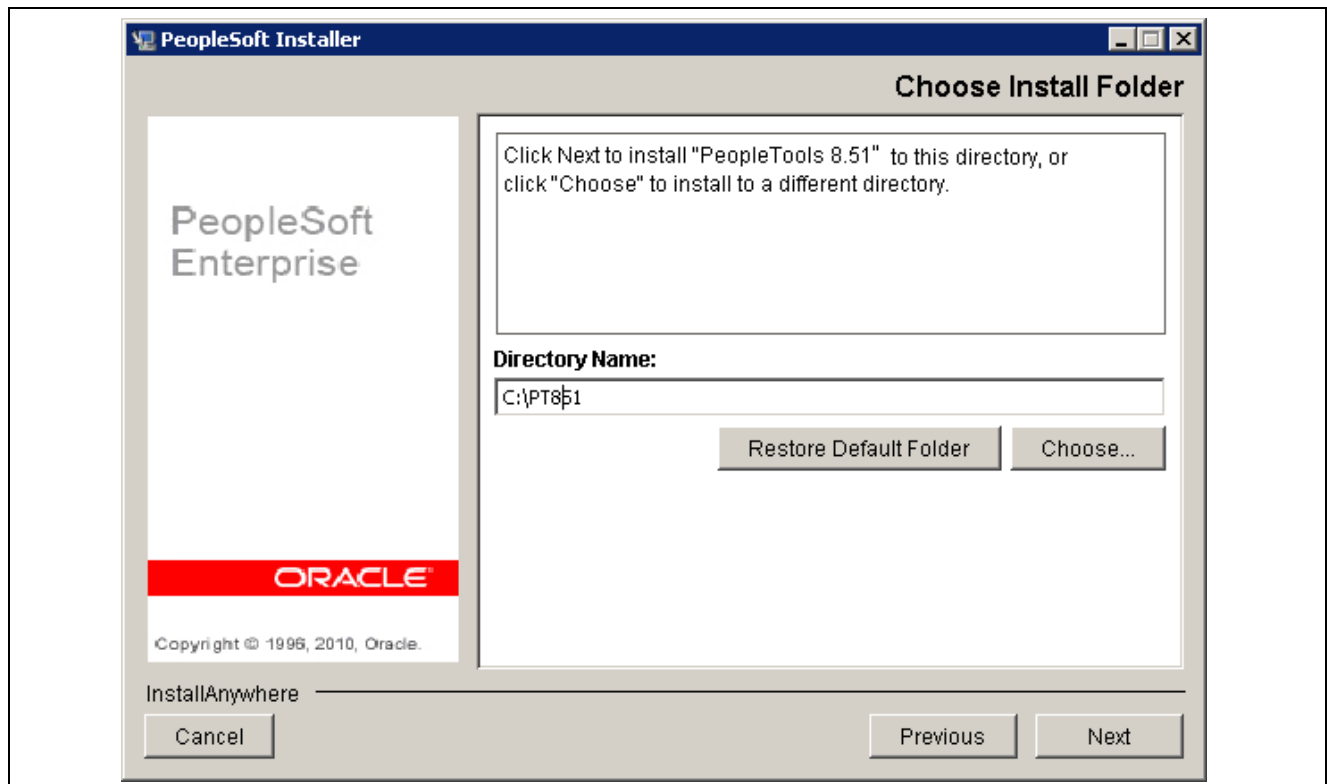
Use the following information to help you make your selection:

- 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”.)
6. 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:\PT851.

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.

Note. If you are installing on UNIX, do not use symbolic links. Use the actual directory.

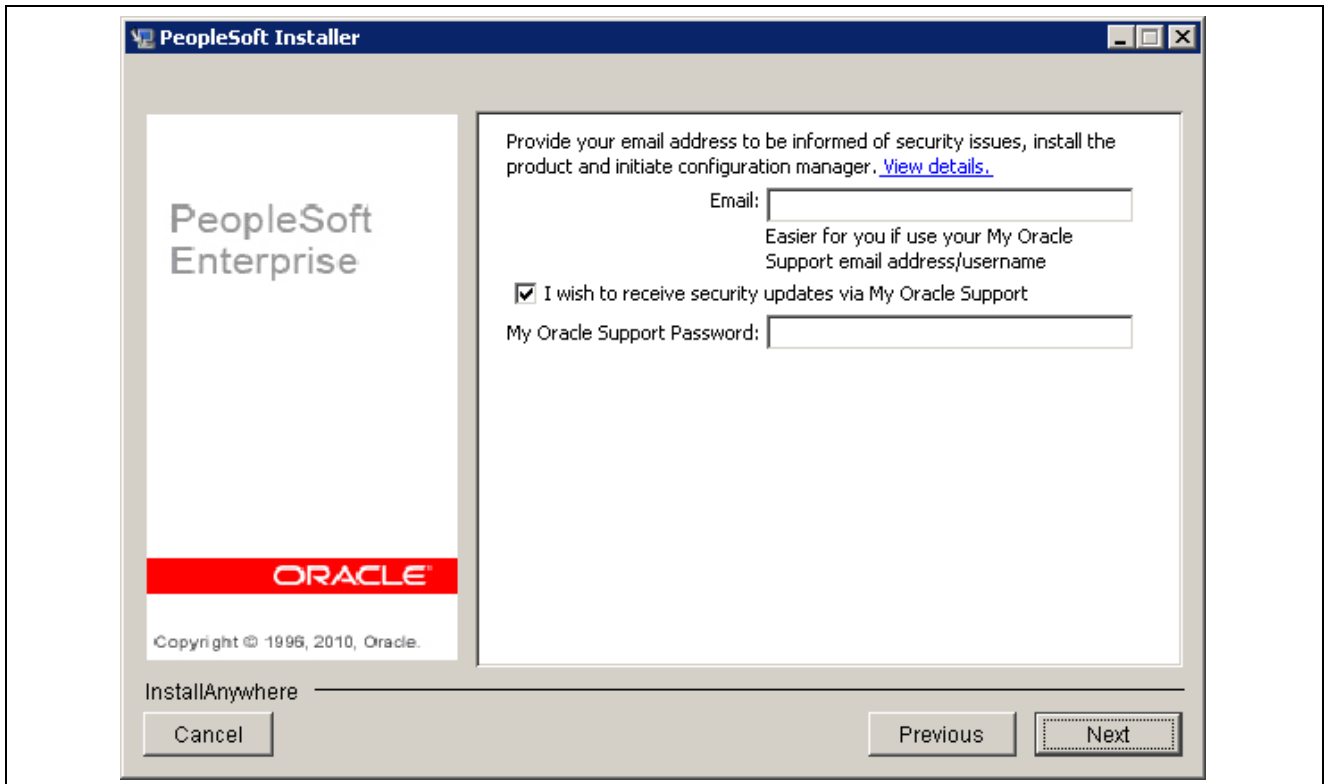


Specifying the installation directory for the PeopleSoft PeopleTools installation

7. 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

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

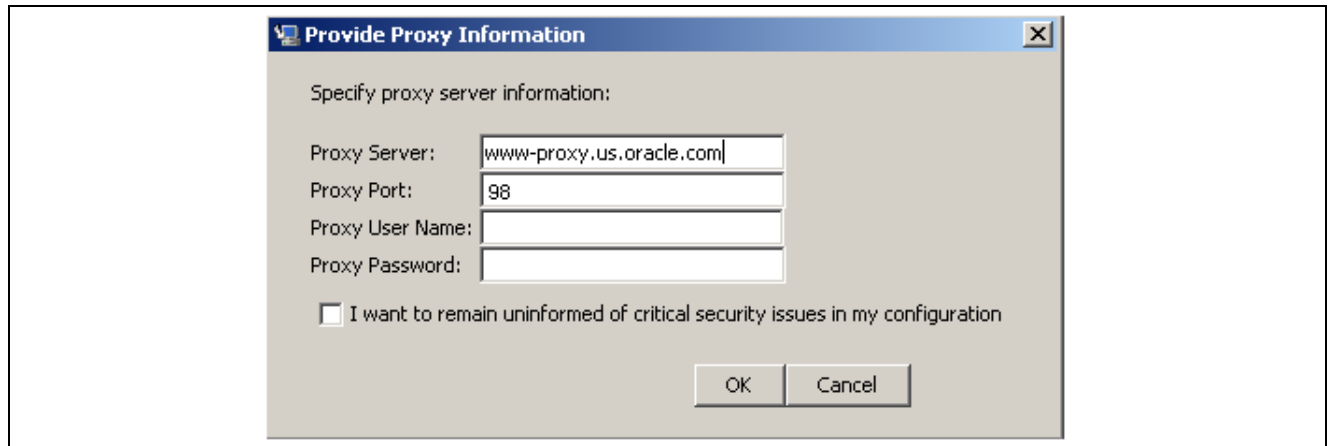
When you click Next, a confirmation dialog box appears asking if you really do not want to receive security updates. If you click Yes, the PeopleSoft PeopleTools installation continues and Oracle Configuration Manager is not configured. You can configure Oracle Configuration Manager later from *PS_HOME/ccr*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

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

9. 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.
10. 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:

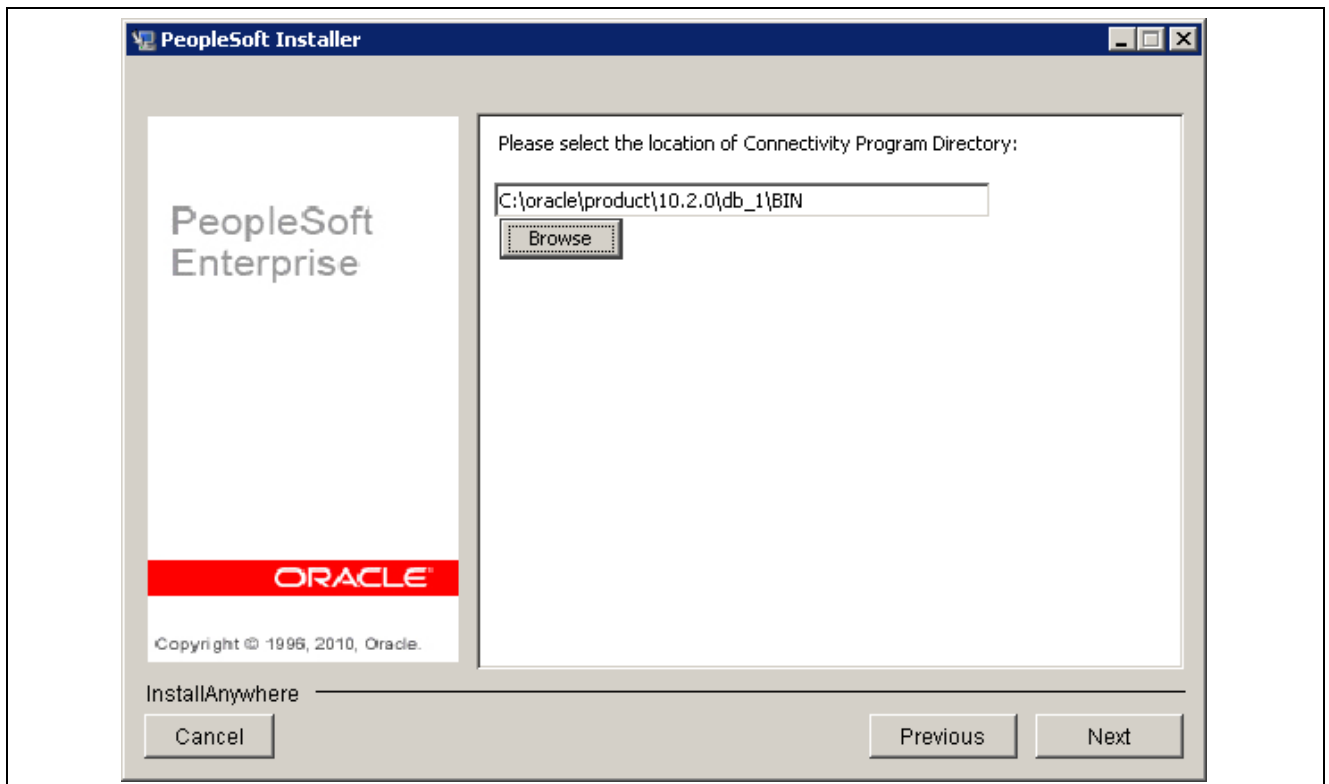
- Proxy Server — The host name of the proxy server, for example `www-proxy.us.oracle.com`.
- Proxy Port — The port for the proxy server, for example, 98.
- Proxy User Name — If the proxy server requires authentication, enter the user name.
- Proxy Password — If the proxy server requires authentication, 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.

11. 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.

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

This example shows the directory for an Oracle database platform:

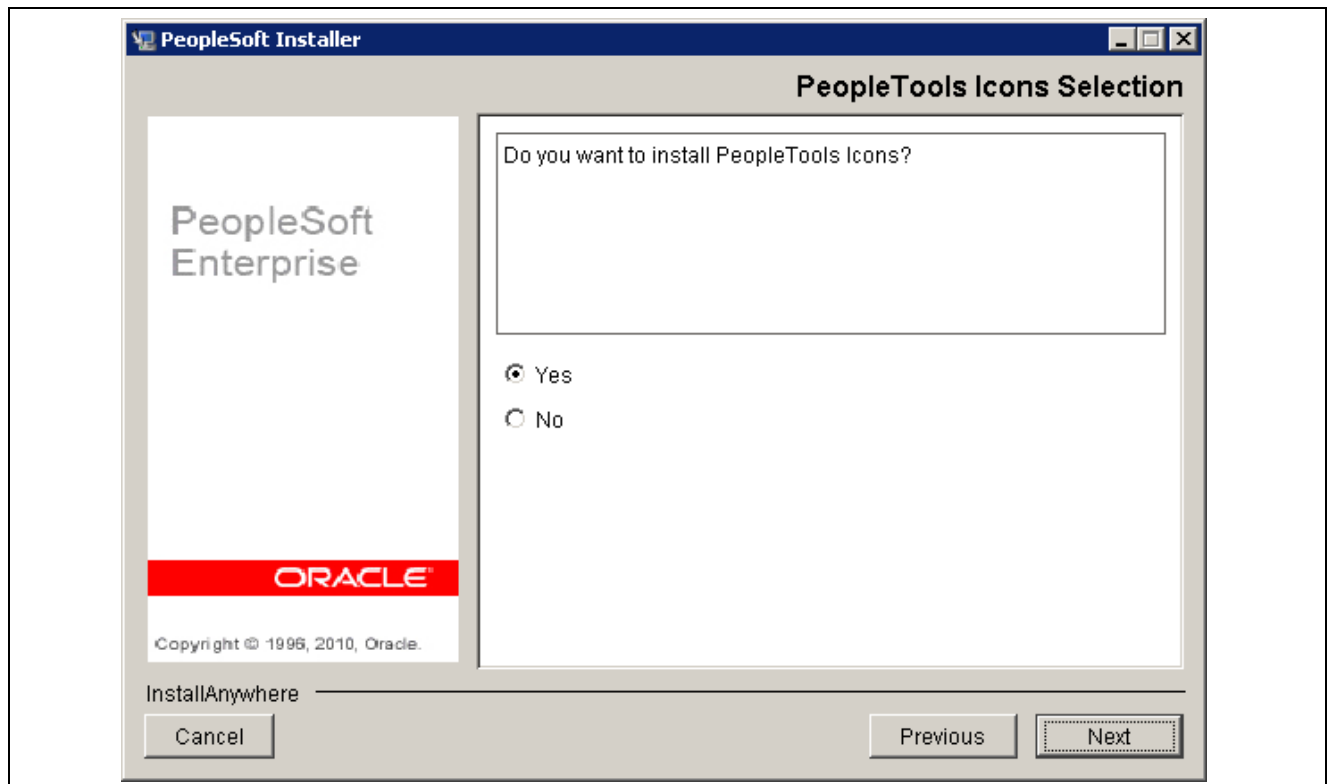


Specifying the Connectivity Program Directory for the PeopleSoft PeopleTools installation

The default location for the connectivity software for Sybase (as set by the vendor) is:
C:\Sybase\OCS-15_0\ddl.

If the database connectivity software was installed to a different directory, enter that path instead.

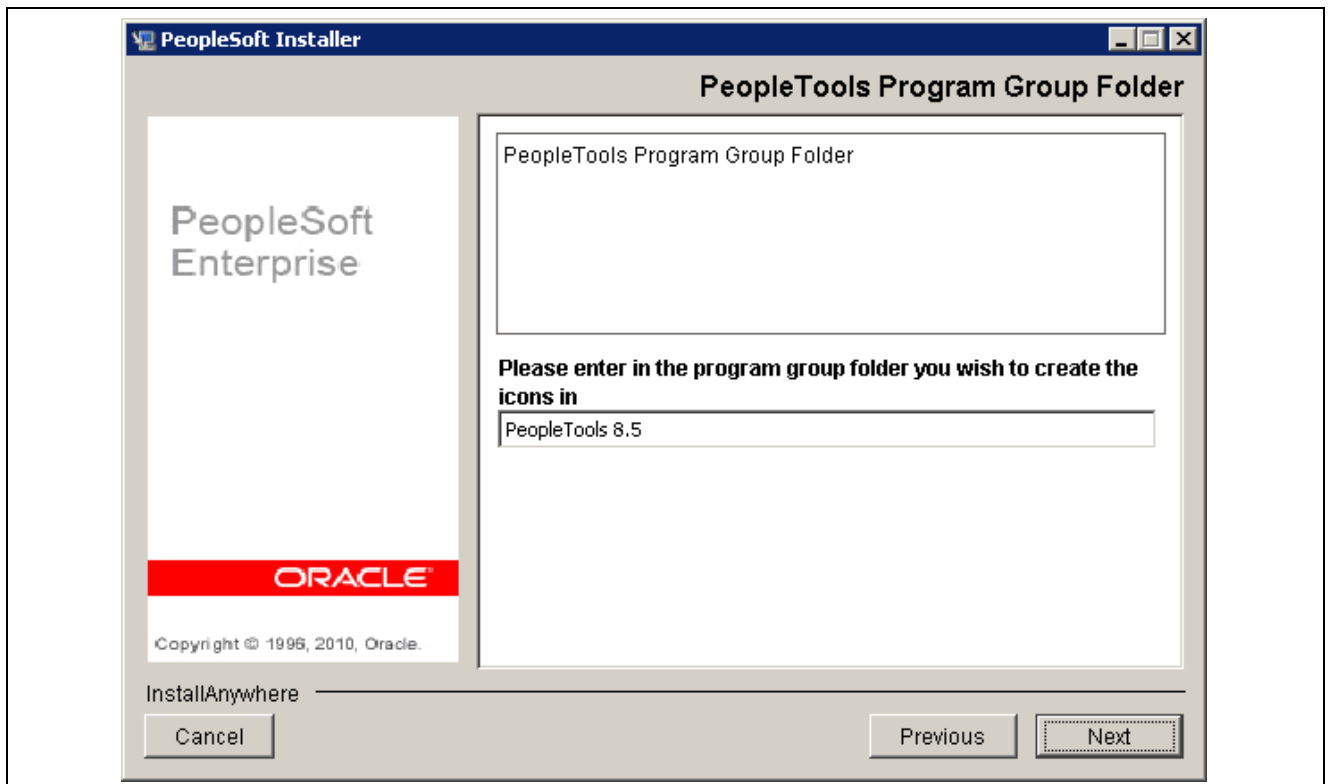
13. Depending on the PeopleSoft servers you selected, choose whether to install the PeopleSoft PeopleTools icons and click Next.



PeopleSoft PeopleTools Installer Icons Selection window

14. 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

15. Enter the configuration information for Environment Management.

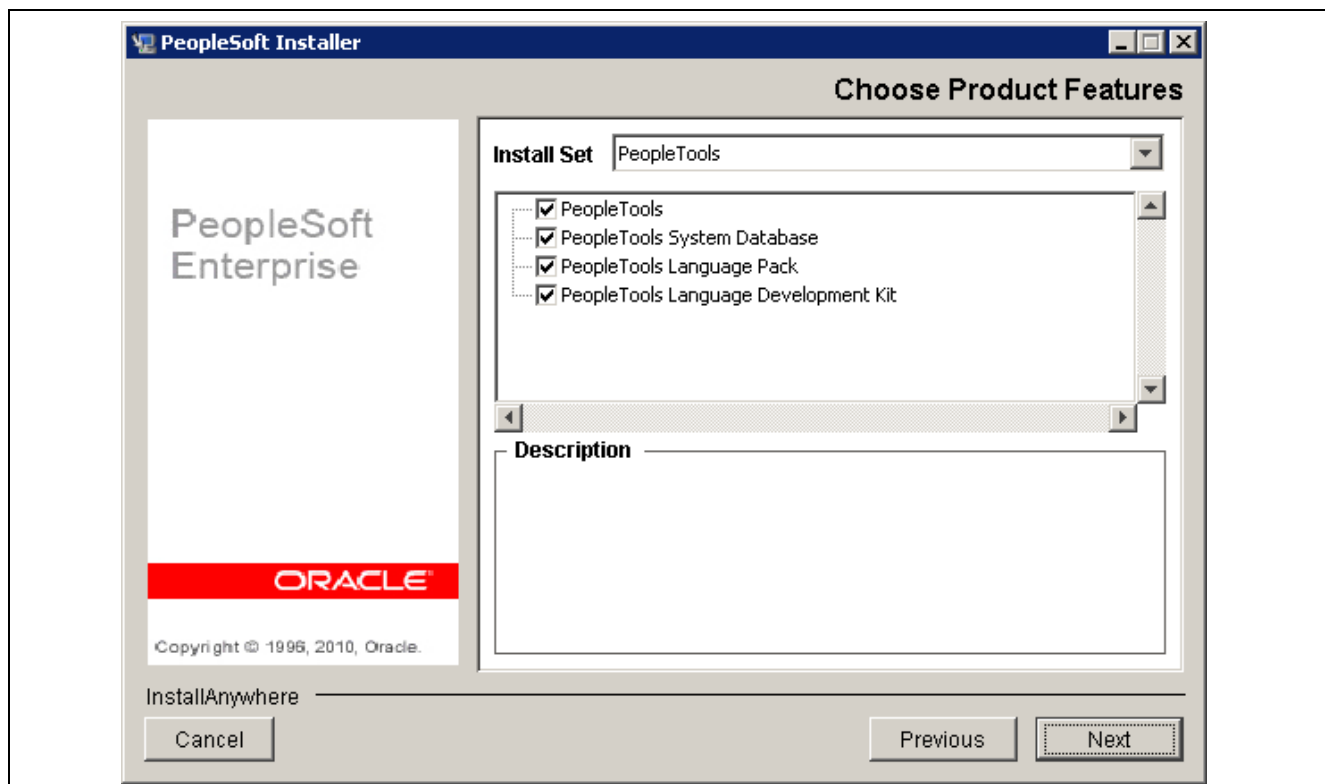
Select the machine name of the web server running the Environment Manager Hub. (This will very likely be the machine on which you run the PeopleSoft Pure Internet Architecture). Select the hub port number (the default is 80, as shown in the example). This needs to match the PeopleSoft Pure Internet Architecture 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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Change Assistant*, "Configuring and Running Environment Management Components."



PeopleSoft PeopleTools Installer Environment Management Details window

16. The next screen lists the PeopleSoft PeopleTools components (features) for which you are licensed. 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.

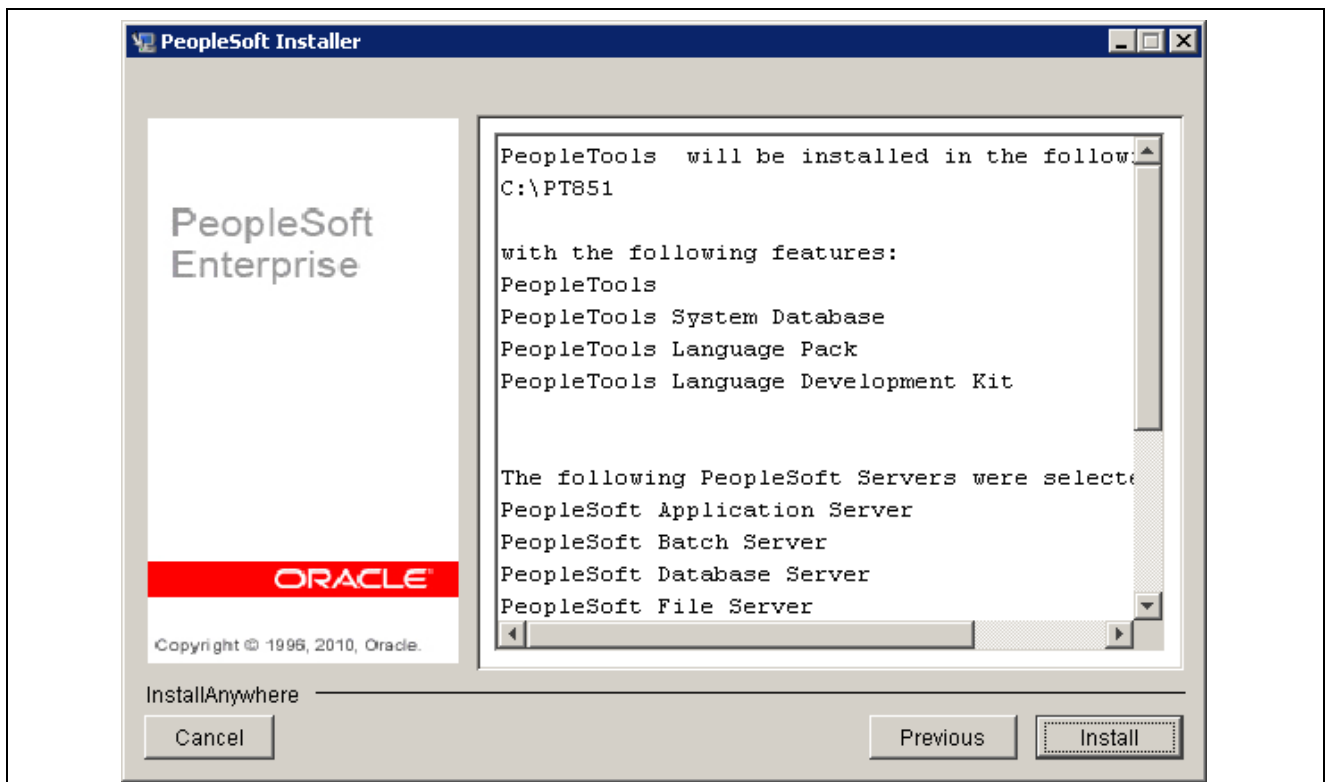
Note. These options are available only for installations on Windows.

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.

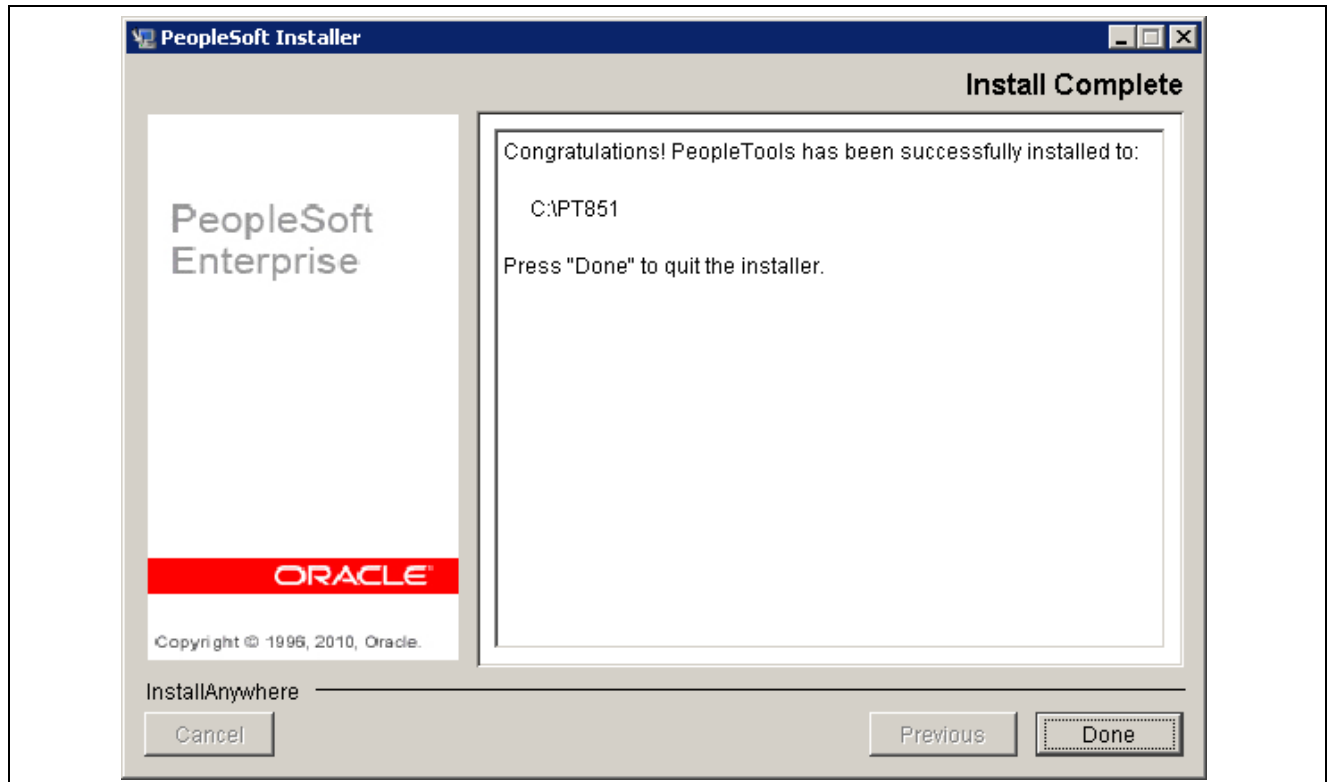
17. You will see an installation confirmation window. If the information is correct, choose Next. If you need to modify any of the information, choose the Back button and make your changes.

The summary information includes the installation directory, the features, and the PeopleSoft servers:



PeopleSoft Installer Summary information window

18. After the files have been installed, click *Finish* to complete the setup.



PeopleSoft Installer Install Complete window

Task 4-3-3: Installing PeopleSoft PeopleTools in Console Mode

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

Note. The console mode installation is typically used on UNIX and Linux platforms.

1. Launch the PeopleSoft Installer in console mode. At the Welcome screen, press ENTER to continue.

See Starting the PeopleSoft Installer.

2. *Windows only:* Accept the license agreement by selecting 1. Select 0 when you are finished.
3. Enter your license code, and press ENTER to continue.

See Understanding the PeopleSoft Installer, Obtaining License Codes.

4. Choose a non-Unicode database by selecting the appropriate number, and then 0 to continue.
5. Select the PeopleSoft servers you want to install.

By default, all of the servers supported for your database platform are selected.

Note. If you are installing on UNIX, do not use Symbolic Links. Use the actual directory.

After your selection, press ENTER; you will be prompted for the destination (for example, *PS_HOME*). Specify the directory and press ENTER to continue.

Note. In console mode, the browse option for specifying a different install directory is unavailable.

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

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

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

Email address / User Name [DEFAULT]:

Provide your My Oracle Support password to receive security updates via your My⇒
Oracle Support account.

Password (optional):

7. 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 enter Next, a confirmation prompt asks if you really do not want to receive security updates. If you enter Y (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 site (<http://metalink.oracle.com>).

You have not provided an email address.

Do you wish to remain uninformed of critical security issues in your⇒
configuration? (Y/N): Y

8. If you want to configure Oracle Configuration Manager in anonymous mode, enter an email address but no password.
9. To configure Oracle Configuration Manager now, enter the email address and password associated with your My Oracle Support account, and press ENTER to continue.

Oracle Configuration Manager checks for Internet connectivity, and verifies the credentials specified. If there is no direct connectivity to the Internet, the next prompt asks you to define a proxy server. Provide the information for the proxy server in the following format:

[<proxy-user>@]<proxy-host>[:<proxy-port>]

Enter the following information:

- Proxy User Name — If the proxy server requires authentication, enter the user name.

Note. If you do not specify the proxy-user, (that is, you enter <proxy-host>:<proxy-port>), a proxy server will be used for the connection, but will not be authenticated.

- 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.

10. If you specify Proxy User Name, a prompt appears asking for a Proxy Password.
11. Enter NONE if you do not want to receive security updates through your My Oracle Support account.

If you want to remain uninformed of critical security issues in your⇒
configuration, enter NONE

Proxy specification (DEFAULT: NONE)

12. Enter Next to confirm connectivity.

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

13. Enter the configuration for Environment Management. Select the machine name and port number.

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). 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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Change Assistant*, "Configuring and Running Environment Management Components."

14. *Windows only:* Specify the database connectivity directory.

The default location for the connectivity software for Sybase (as set by the vendor) is:
c:\Sybase\OCS-15_0\ddl.

If the database connectivity software was installed to a different directory, enter that path instead.

15. *Windows only:* Indicate whether you want icons to be created.

16. Choose the products that you wish to install:

To select/deselect a feature or to view its children, type its number

```
-> 1- PeopleTools
    2- PeopleTools System Database
```

17. At this point, you can toggle the install status of each product. Press 0 and then ENTER to continue and the PeopleSoft Installer will give you a summary of your selection. This summary will depend on your earlier selections.

PeopleTools 8.51 will be installed in the following location:

/home/PT851/ptest

with the following features:

PeopleTools

PeopleTools System Database

The following PeopleSoft Servers were selected by you:

PeopleSoft Application Server

PeopleSoft Batch Server

PeopleSoft Database Server

PeopleSoft File Server

PeopleSoft Web Server

Database Type:

<Database Name>

Environment Hub Configuration:

Hub machine name: PSEMHUB

Hub port number: 80

Press 1 for Next, 2 for Previous, 3 to Cancel, or 5 to Redisplay [1]

18. Press ENTER to start the installation.
19. The PeopleSoft Installer will create a text-based progress bar to indicate the progress of the install.
20. Press ENTER to exit.

Note. For UNIX platforms, if you chose PeopleSoft servers that require a JRE, you see the “Unpacking JRE” message after the progress bar.

21. If you are installing on AIX, go to the *PS_HOME/jre* directory and ensure that the directory has executable permissions. If not, set the permission using a command such as `chmod +x`.

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 higher. 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 E-Delivery. This section assumes that you have already downloaded and extracted the files into a directory referred to as *PS_INSTALL*.

See Also

Obtaining the PeopleSoft Installation Files from Oracle E-Delivery

Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration, "Configuring Search and Building Search Indexes"

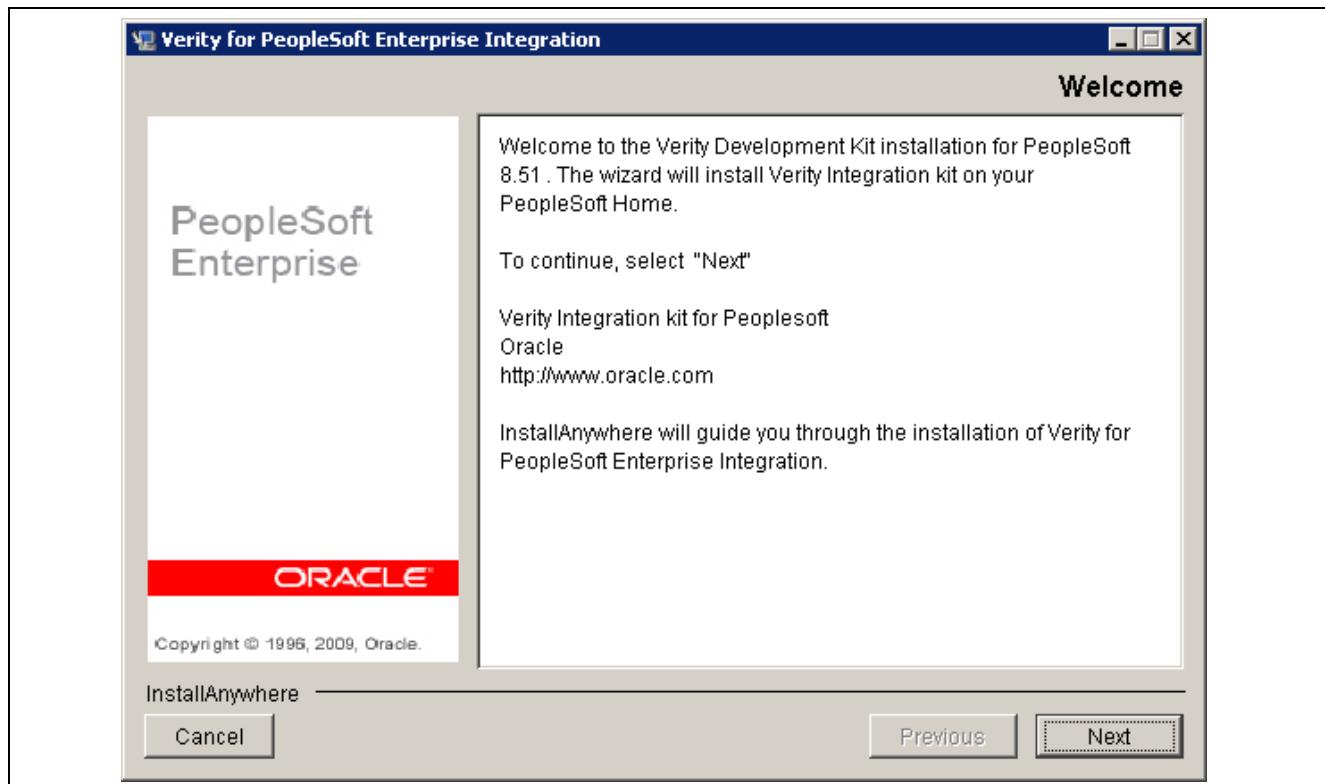
Task 4-4-1: Installing the Verity Integration Kit in GUI Mode

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`.

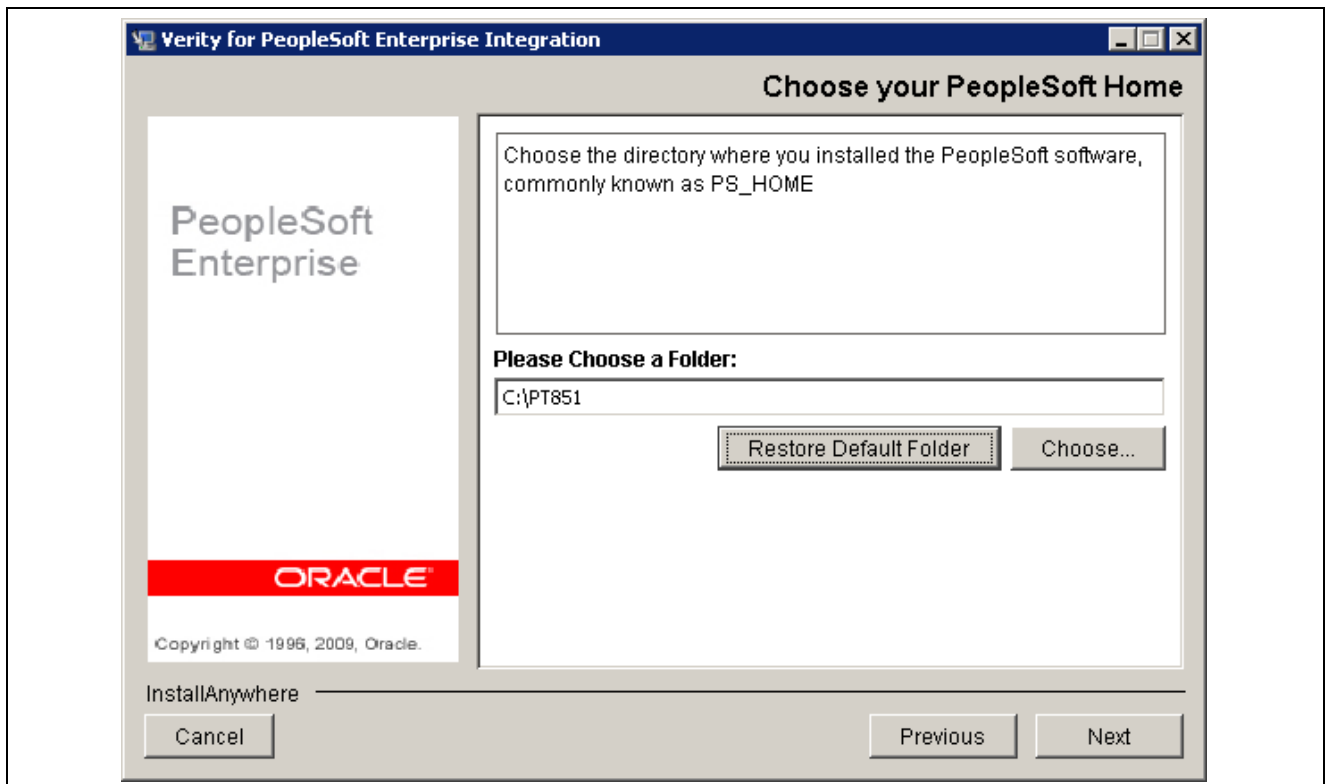
The Welcome window appears. Click Next.



Verity for PeopleSoft Enterprise Integration Welcome window

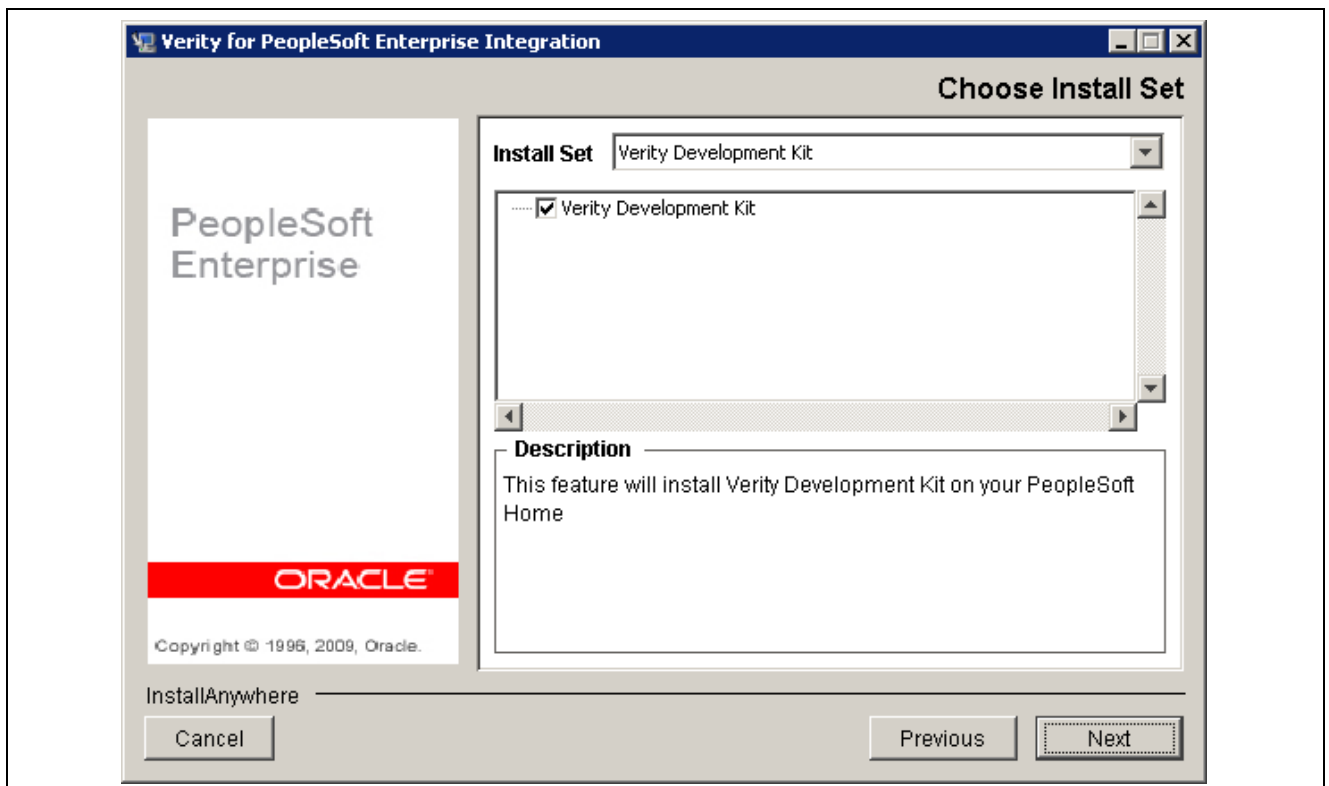
3. Specify the directory where you installed PeopleSoft PeopleTools, referred to as *PS_HOME*, and then click Next.

In the following example, *PS_HOME* is C:\pt851.



Verity for PeopleSoft Enterprise Integration Choose your PeopleSoft Home window

4. Accept the default option to install the Verity Development Kit, and click Next.

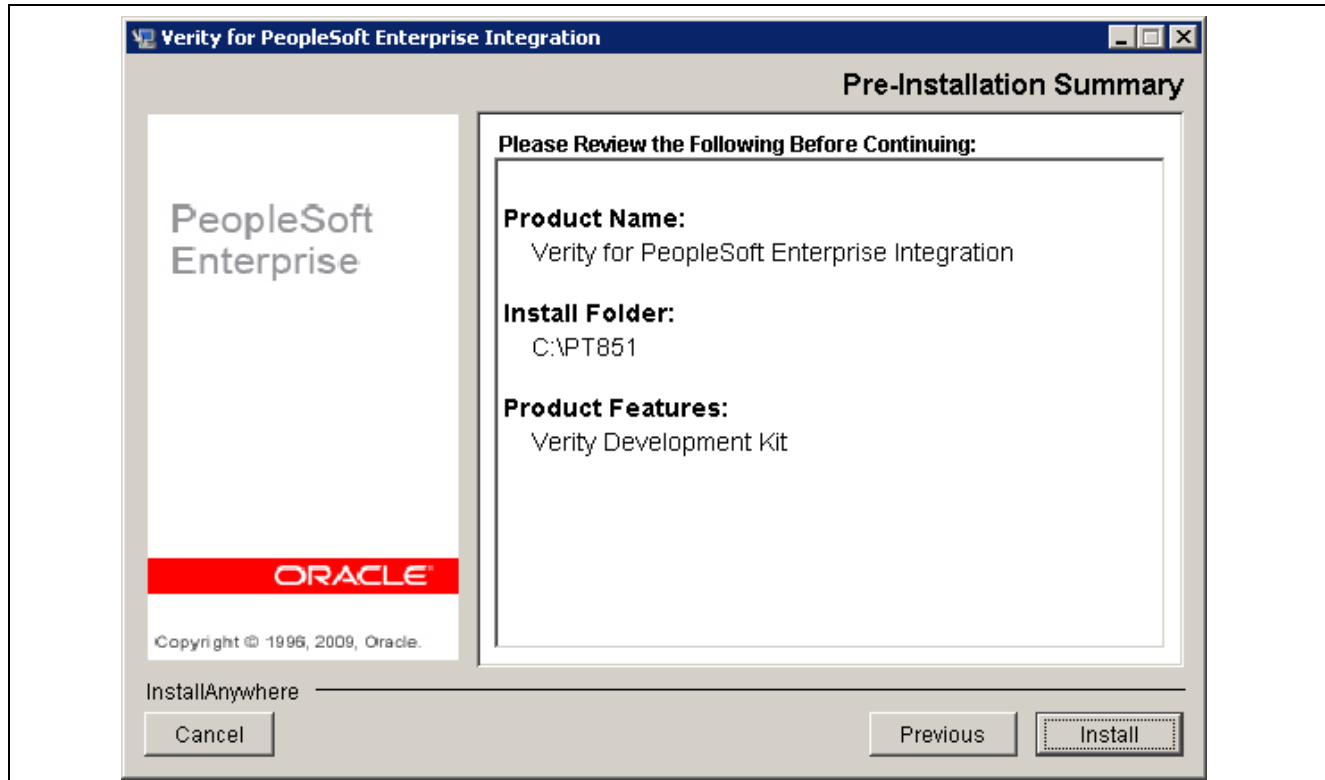


Verity for PeopleSoft Enterprise Integration Choose Install Set window

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.

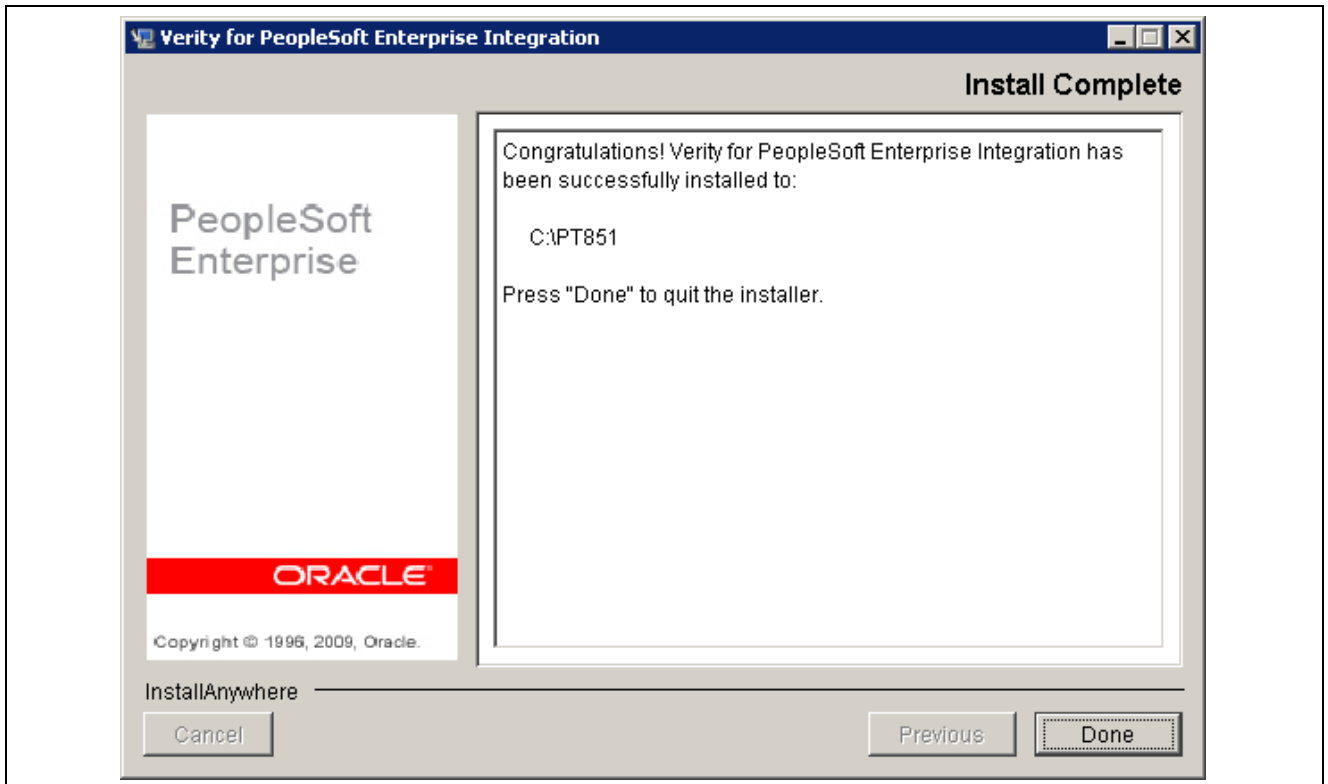
The installation requires a few minutes.



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 8.51.
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/PT8.51):
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 8.51 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 8.51 will be installed in the following
location:
/home/user1/PT8.51 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/PT8.51
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 screens may look slightly different depending upon which application you install. This procedure assumes that you unzipped the PeopleSoft application installation files from Oracle E-Delivery into a directory referred to here as *APP_INSTALL*.

Note. If you are installing more than one application, it is a good idea to create an application-specific *PS_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.

Note. To properly install a Demo database, you must select both the System Database and the Demo Database options during the installation of your PeopleSoft applications.

Note. The next chapter discusses the installation of the application database component to the database server.

To install the PeopleSoft application:

1. Launch the PeopleSoft installer from *APP_INSTALL/disk1*.

See Running the PeopleSoft Installer.

2. After reading the Welcome information, click Next.
3. Click Yes to agree to the Software License Agreement.
4. Enter the PeopleSoft license code and click Next.

See Understanding the PeopleSoft Installer, Obtaining License Codes.

5. Choose a *non-Unicode* database and click Next.
6. Select the servers you want to install and click Next.
7. Specify the directory where you want to install the application.

You must specify the *PS_HOME* directory; that is, the directory where you installed PeopleSoft PeopleTools for a given server. Click Next.

8. A feature selection screen appears. (What you see depends on what product you are installing.) Select the features that you wish to install and click Next.
9. In the confirmation dialog box, click Next to begin the installation.

A message box appears that indicates the progress of the installation.

10. Click Finish to exit the PeopleSoft installation program.

Task 4-6: Loading the Multilanguage Files

If you have licensed and selected to install languages other than English, you need to load the application-specific PeopleSoft Multilanguage files. Each PeopleSoft application installation has a corresponding Multilanguage installation that contains all the non-English translations. This procedure assumes that you unzipped the PeopleSoft application installation files from Oracle E-Delivery into a directory referred to as *ML_INSTALL*.

Warning! The release numbers for the application media pack and the Multilanguage media pack must be in sync. For example, if you are installing HRMS 9.1, you can only use the Multilanguage HRMS 9.1 ML; you cannot use HRMS 8.8 SP1.

Note. Load the Multilanguage files after you install PeopleSoft PeopleTools and the PeopleSoft application software. Install the Multilanguage files to the same *PS_HOME* as you used for PeopleSoft PeopleTools and the PeopleSoft Application.

To load the Multilanguage files:

1. Launch the PeopleSoft installer from *ML_INSTALL/disk1*.
2. After reading the Welcome message, click Next.
3. Click Yes to agree to the Software License Agreement.
4. Enter the PeopleSoft license code and click Next.

See Understanding the PeopleSoft Installer, Obtaining License Codes.

5. Choose to create a *non-Unicode* database and click Next.
6. You will be asked to select the components you want to install.

What you see depends upon what product you are installing. Select the applications you want to install and click Next.

7. From the confirmation dialog box, click Next to begin the installation.
A message box appears indicating the progress of the installation.
8. Click Finish to exit the PeopleSoft installation program.

CHAPTER 5

Setting Up the Windows File Server

This chapter discusses:

- Understanding the File Server
- Mapping a Drive on the Install Workstation
- Installing PeopleSoft PeopleTools on the File Server
- Installing PeopleSoft Application Software
- Loading the Multilanguage Files

Understanding the File Server

The file server is the environment (or file) repository for the PeopleTools Development Environment, which is required for the Database Configuration Wizard to run. The file server is also used for the files necessary to perform an upgrade. This includes Change Assistant and all of the executables and scripts necessary to perform an upgrade. You will apply patches and updates from My Oracle Support 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.

See "Preparing for Installation," Installing Supporting Applications.

Note. *The information in this chapter applies to installations on both UNIX and Microsoft Windows.* If you are doing an installation only for UNIX boxes, you need a Microsoft Windows file server. If you are working only on Microsoft Windows, and you set up your file server in the previous chapter, you can skip this chapter.

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.

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 this chapter to perform such local installations.

Warning! The PeopleSoft Installer installs COBOL source code from the installation directory to your Windows file server and to all UNIX servers, but not to the rest of your Windows servers.

If you are running Windows and your application requires COBOL, we require that you maintain a central repository of your COBOL source code on the file server. If you apply a patch or make customizations, apply them to the file server first, and then disseminate them across your servers as described here. *If you have Windows file, application, and batch servers,* you should compile the COBOL on the file server and copy the cblbina, cblbinu, or cblbine directory (depending on whether you have an ASCII, Unicode or EBCDIC database) to all the application and batch servers. The COBOL compiler itself does not have to be on the file server—as long as the workstation on which it is installed has full access to the shared drives.

For every type of UNIX operating system, we recommend that you designate a single server (either application or batch) as the compile server, so that you can compile COBOL from a central location and then distribute the cblbin directory to the rest of your application and batch servers. If you use this approach, you need only copy patches or customizations from the file server to the compile server. In this case, you would install a COBOL compiler on the master (or compile) server and either the COBOL compiler or runtime on the rest. If you prefer, you can copy patches or customizations from the file server to all of your UNIX servers and compile the COBOL on each machine.

Note. If you want to copy compiled COBOL programs from one UNIX server to another, both servers must be on the same operating system.

For example, if you compile on Solaris for the application server and the Process Scheduler is on AIX, you cannot copy the compiled program (you will also need to compile on the AIX computer).

Note. 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.

Task 5-1: Mapping a Drive on the Install Workstation

If you need to install to the file server 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. The *PS_HOME* directory was discussed in the previous chapter.

See “Using the PeopleSoft Installer.”

Note. If you install the CDs directly from the file server's CD-ROM drive, you can skip this task. Installing directly from the file server is preferable for installation because you do not need a drive to be mapped. It also provides faster performance, as there is no need for a network connection between the workstation and the server.

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 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.

Task 5-2: Installing PeopleSoft PeopleTools on the File Server

To install PeopleSoft PeopleTools on the file server:

1. Launch the PeopleSoft installer from *PS_INSTALL/disk1*.
A welcome screen appears.
2. Click Next.
The licensing agreement appears.
3. Click Yes and enter your 31-digit license code from the license code sheet.
4. Click Next and choose a non-Unicode database.
5. Select *PeopleSoft File Server* and click Next.
6. Click the Browse button, choose the path of the *PS_HOME* directory on the file server, and click OK.
Click Next.
7. Select the location of your connectivity software.
The default location for your connectivity software (as set by the vendor) is as follows. If the database connectivity software was installed to a different directory, enter that path instead.
`c:\Sybase\OCS-12_5\ddl`
8. In the next dialog box, choose Yes to install an Installation icon group on the install workstation. Then click Next.
9. Then specify the desired program group folder (the default is PeopleTools 8.5 Installation) and click Next (a program folder name cannot contain any of the following characters: \ / : * ? " < > |). This step creates an icon group on the installing machine that supplies shortcuts to every program needed throughout the installation process.
10. 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 PIA). Select the hub port number (the default is 80). This needs to match the PIA port. If you change the port number for the PIA configuration, you must also change the web server listener port number for all the agents in the configuration.properties file.

See *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Change Assistant*, "Configuring and Running Environment Management Components."
11. A component selection window appears. This screen lists the PeopleSoft PeopleTools components for which you are licensed. Select the products to install from the Components list.

Note. The components PeopleTools Language Pack and PeopleTools Language Development Kit contain the translated PeopleSoft PeopleTools DLLs and the resource files and headers needed to build them. If you do not need translated files, you may choose to not install these two components. These options are available only for installations on Windows.

- Select *PeopleTools* to install PeopleTools Development Environment and the Upgrade Environment. This component contains the core PeopleSoft PeopleTools files and is required for the proper operation of your PeopleSoft Development and Upgrade environment.
 - Select *PeopleTools Language Pack* if you plan on running the Windows components of your 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 don't 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.
 - Select *PeopleTools System Database* to allow your developers to create custom PeopleSoft PeopleTools applications outside of the delivered PeopleSoft Application.
12. Click Next.
- You should see the Confirm Products dialog box.
13. Click Next to verify that you want to install to the specified directory.
- You see a progress indicator so you can monitor the progress of your installation.
14. When the setup program successfully completes the installation of PeopleSoft PeopleTools, click Finish to exit the installation program.
15. If you are installing on AIX, go to the *PS_HOME/jre* directory and ensure that the directory has executable permissions. If not, set the permission using a command such as `chmod +x`.

Task 5-3: Installing PeopleSoft Application Software

After installing PeopleSoft PeopleTools, install the PeopleSoft application to the same *PS_HOME* directory. The screens may look slightly different depending upon which application you install. This procedure assumes that you unzipped the PeopleSoft application installation files from Oracle E-Delivery into a directory referred to here as *APP_INSTALL*.

Note. If you are installing more than one application, it is a good idea to create an application-specific *PS_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.

Note. To properly install a Demo database, you must select both the System Database and the Demo Database options during the installation of your PeopleSoft applications.

Note. The next chapter discusses the installation of the application database component to the database server.

To install the PeopleSoft application:

1. Launch the PeopleSoft installer from *APP_INSTALL/disk1*.

See Running the PeopleSoft Installer.

2. After reading the Welcome information, click Next.
3. Click Yes to agree to the Software License Agreement.
4. Enter the PeopleSoft license code and click Next.

See Understanding the PeopleSoft Installer, Obtaining License Codes.

5. Choose a *non-Unicode* database and click Next.
6. Select the servers you want to install and click Next.
7. Specify the directory where you want to install the application.
You must specify the *PS_HOME* directory; that is, the directory where you installed PeopleSoft PeopleTools for a given server. Click Next.
8. A feature selection screen appears. (What you see depends on what product you are installing.) Select the features that you wish to install and click Next.
9. In the confirmation dialog box, click Next to begin the installation.
A message box appears that indicates the progress of the installation.
10. Click Finish to exit the PeopleSoft installation program.

Task 5-4: Loading the Multilanguage Files

If you have licensed and selected to install languages other than English, you need to load the application-specific PeopleSoft Multilanguage files. Each PeopleSoft application installation has a corresponding Multilanguage installation that contains all the non-English translations. This procedure assumes that you unzipped the PeopleSoft application installation files from Oracle E-Delivery into a directory referred to as *ML_INSTALL*.

Warning! The release numbers for the application media pack and the Multilanguage media pack must be in sync. For example, if you are installing HRMS 9.1, you can only use the Multilanguage HRMS 9.1 ML; you cannot use HRMS 8.8 SP1.

Note. Load the Multilanguage files after you install PeopleSoft PeopleTools and the PeopleSoft application software. Install the Multilanguage files to the same *PS_HOME* as you used for PeopleSoft PeopleTools and the PeopleSoft Application.

To load the Multilanguage files:

1. Launch the PeopleSoft installer from *ML_INSTALL/disk1*.
2. After reading the Welcome message, click Next.
3. Click Yes to agree to the Software License Agreement.
4. Enter the PeopleSoft license code and click Next.
See Understanding the PeopleSoft Installer, Obtaining License Codes.
5. Choose to create a *non-Unicode* database and click Next.
6. You will be asked to select the components you want to install.

What you see depends upon what product you are installing. Select the applications you want to install and click Next.

7. From the confirmation dialog box, click Next to begin the installation.

A message box appears indicating the progress of the installation.

8. Click Finish to exit the PeopleSoft installation program.

CHAPTER 6

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 Crystal 2008 .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 the Server Transfer, 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

Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration

Prerequisites

The following tasks are prerequisites for setting up the install workstation:

- The workstation must have database connectivity software installed.
To configure Sybase Open Client connectivity please refer to the Sybase Open Client Configuration Guide.
- 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 password, consult PeopleBooks.

See *Enterprise PeopleTools PeopleBook, PeopleTools 8.51: System and Server Administration*, "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"

"Setting Up the File Server"

Task 6-1: 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 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 8.51, Configuration Manager*. (This program group will be available if you installed PeopleSoft PeopleTools on this workstation.)
- If the *PeopleTools 8.51* program group was not installed on this workstation, run *pscfc.exe* directly from the *PS_HOME\bin\client\winx86* directory on the file server.

Task 6-2: 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 Sybase.
 - *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 database server to connect to. When you sign on to Application Designer to connect to the database in later chapters, you enter this value for Database Server Name.
 - *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. Select the Crystal/Bus. Interlink/JDeveloper tab and set the following options:
 - *Crystal EXEs Path* — Set this to the location of your Crystal Reports executables.
 - *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 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 appendix “Using the XSLT Mapper with Oracle BPEL Process Manager” for information on using this area.

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 6-3: Editing the Default Profile

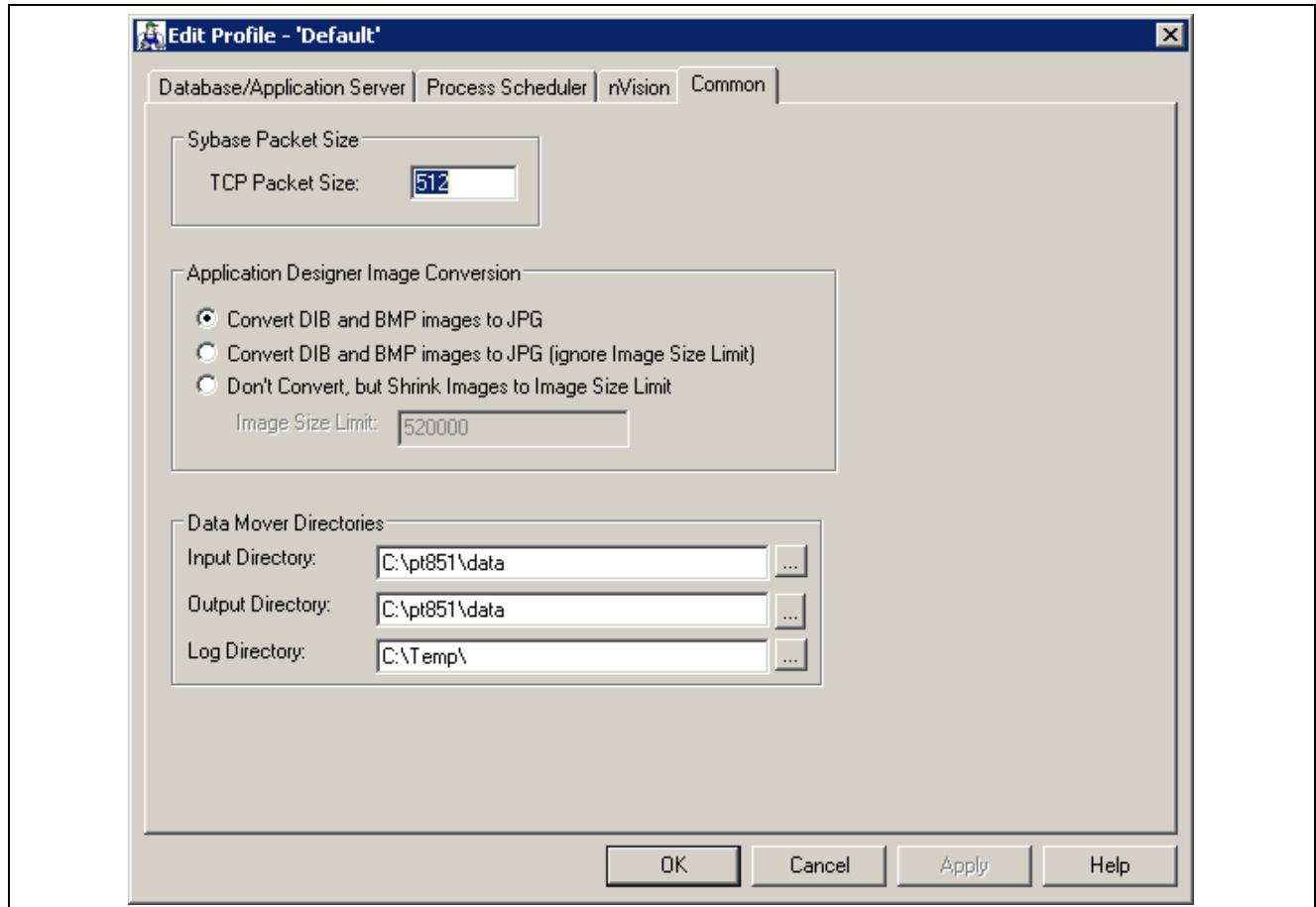
Begin by editing the default profile for the workstation. Among other things, this will verify that the paths to `PS_HOME` and its subdirectories are correctly set, which is required for subsequent tasks.

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 following options; these should have been set correctly by the PeopleSoft installation program:
 - Verify that the PeopleSoft Home Directory (`PS_HOME`) field is set to the path to `PS_HOME` on the file server.

- 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.



Edit Profile dialog box: Common tab

The following fields 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.

See Also

Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration, "Using PeopleSoft Configuration Manager"

Task 6-4: 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 the default name, *PeopleTools 8.51*.
3. If you do not have a PeopleTools 8.51 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 8.51 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 8.51 program group or install local DLLs.

5. Click OK to run Client Setup and close Configuration Manager.

Task 6-5: Installing PeopleSoft ODBC Driver and Configuring the Crystal 2008 .NET Runtime

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 Crystal Reports 2008 application. This would also be required for any other client activities requiring access to the PeopleSoft OpenQuery API.

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.

The installation performs the following tasks:

- Installs PeopleSoft ODBC driver
- Creates PeopleSoft PeopleTools ODBC Data Source Name
- Integrates the Crystal 2008 .NET Runtime with the PeopleSoft environment.

Note. The psodbccrinst.exe install script generates a log file named psodbccrinst.log under the user's TEMP directory. 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

Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Query

Enterprise PeopleTools 8.51 PeopleBook: Crystal Reports for PeopleSoft

CHAPTER 7

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
- 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

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 *Enterprise PeopleTools 8.51 PeopleBook: 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."

Task 7-1: Fulfilling PeopleSoft Database Configuration Wizard Prerequisites

This section discusses:

- Installing the PeopleSoft Database Server Components on the Database Server
- Installing the Sybase Server Software
- Running the Shell Script psconfig.sh

Task 7-1-1: 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 have the Oracle Tuxedo software installed before you run the Database Configuration Wizard.

The Database Configuration Wizard invokes the PeopleSoft Data Mover utility. Data Mover on the UNIX platform has a dependency on the Oracle Tuxedo software.

- You must run the Database Configuration Wizard at the database server.

Be sure the login ID executing the Database Configuration Wizard has sufficient read and write permissions on this server. Ideally the login ID executing the Database Configuration Wizard is part of the same UNIX group that the Sybase owner is part of, usually the DBA group.

Before running the Database Configuration Wizard or Data Mover, run this command to unset the environment variable LD_LIBRARY_PATH_64:

```
unset LD_LIBRARY_PATH_64
```

The environment variable, LD_LIBRARY_PATH_64, is provided in Solaris 7 and 8, and is similar to LD_LIBRARY_PATH, but overrides it during linking when searching for 64-bit dependencies. If only LD_LIBRARY_PATH is defined, it is used for both 32-bit and 64-bit linking. If both LD_LIBRARY_PATH and LD_LIBRARY_PATH_64 are defined, 32-bit linking will be done using LD_LIBRARY_PATH, and 64-bit linking with LD_LIBRARY_PATH_64.

Note. If you are connecting to Sybase from HP, then before running an application (such as Data Mover, the Database Configuration Wizard, or PeopleSoft Application Server) verify that your environment variable LC_ALL at the client has a character set of iso88591—for example, american.iso88591. Otherwise, accented characters may appear incorrectly in PeopleSoft Pure Internet Architecture.

Note. Before you can configure the database, the system administrator ID must have a corresponding password.

See Also

"Using the PeopleSoft Installer"

Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration, "Using PeopleSoft Configuration Manager"

Task 7-1-2: Installing the Sybase Server Software

The Sybase RDBMS software must be installed before you run the Database Configuration Wizard. When the Database Configuration Wizard executes, references such as the following are made transparently to an existing Sybase RDBMS installation:

```
$SYBASE (ex. /products/sybase/15.0.1), $SYBASE_ASE (ex. ASE-15_0), $SYBASE_OCS ⇒  
(ex. OCS-15_0)
```

The Sybase data server that you are going to use to host PeopleSoft applications must be up and running before you start the Database Configuration Wizard.

Note. You must install your ASE server with the iso_1 character set. You must use at least a 4 KB page size for your ASE server. The 16 KB and 2 KB page sizes are not supported on PeopleSoft databases running on PeopleSoft PeopleTools 8.44 and above.

The Database Configuration Wizard needs to start and stop the Sybase 15.0 database server to load server configuration changes. These changes are delivered in the script `spconfig.sql`, which is located in the directory `PS_HOME/scripts`.

Be sure to read the files and verify that the parameters will work in your site. The delivered parameter values are only intended for a Demo database with a very basic install and may require customization. It is common to increase the value for some parameters.

Compare these settings with the `sp_configure` output at your master database on the Sybase dataserver. If the values in the script are higher than those on the dataserver, consider setting the higher values in the script.

Naming conventions for Open Server and SDK libraries have changed to include “syb” in library names. This differentiates Sybase libraries from other frequently-used libraries, such as `libtcl.so` libraries. To illustrate, instead of library names beginning with “lib” (for example, `libsrv.so`), library names now begin with “libsyb” (for example, `libsbsrv.so`). This uniquely identifies the Sybase libraries.

Sybase provides the scripts to facilitate migration to the new naming convention. The scripts are `lnsyblibs` for UNIX and `copylibs.bat` for Microsoft Windows.

- For UNIX, the `lnsyblibs` script creates soft links between old and new library names, allowing pre-15.0 applications to work with renamed libraries.

- Script location:

```
$SYBASE/$SYBASE_OCS/(dev)lib
```

- Script usage:

```
lnsyblibs { create | remove }
```

- For Sybase 15.0, the `create` option makes the symbolic links in `$SYBASE/$SYBASE_OCS/(dev)lib`.
- For Microsoft Windows, the `copylibs.bat` script copies the required *.dll files, allowing the renamed libraries to be used.

- Script location:

`%SYBASE%\%SYBASE_OCS%\dll`

- Script usage:

`copylibs.bat { create | remove }`

- For Sybase 15.0, the create option copies the old-named files in:

`$SYBASE/$SYBASE_OCS/dll`

- For Sybase 15.0, the remove option can be used to delete these files.

Task 7-1-3: Running the Shell Script `psconfig.sh`

The shell script `psconfig.sh` sets up the environment for Data Mover to run. The PeopleSoft Data Mover utility is used to load the database.

To run `psconfig.sh`:

1. Change the directory to `PS_HOME`.
2. Run `psconfig.sh` (`. ./psconfig.sh`)

Task 7-2: 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 steps but will not start the next step—instead the Database Configuration Wizard aborts and tells the user what file to review for the detailed error message. 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 step(s) manually.

Note. If you want to run Data Mover on the same machine as the application server or Process Scheduler, you need to start a new telnet session without running PSADMIN and make sure the PS_SERVER_CFG environment variable is not set. PS_SERVER_CFG is only set when you run PSADMIN, so if you have not run it before this should not be a concern. When running Data Mover, you do not need to run PSADMIN. Consult the PeopleBooks documentation for the details on using PS_SERVER_CFG to set up tracing in Data Mover.

See *Enterprise PeopleTools 8.51 PeopleBook: Data Management*.

Note. During UNIX console mode installation, you can go back to the previous steps whenever you see the instruction: Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1]. Choose 2 for Previous.

To run the Database Configuration Wizard:

1. Go to `PS_HOME/setup/PsMpDbInstall`.

2. Launch the installation using the command `setup.sh`:

See the chapter “Using the PeopleSoft Installer” for additional flags, or for details about running in GUI mode.

See "Using the PeopleSoft Installer," Running the PeopleSoft Installer.

3. You see the following prompt:

```
Welcome to the PeopleSoft Database Configuration Wizard 8.51
```

```
This Wizard will assist you in configuring and loading a PeopleSoft database.
```

```
PRESS <ENTER> TO CONTINUE:
```

4. Press ENTER to continue.
5. Specify the location of `PS_HOME`—the high-level directory where the PeopleSoft software is installed—and press ENTER.

```
Please enter an installation location or press <ENTER> to accept the default
(DEFAULT: [/ds1/syb/PT851])
```

```
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1]
```

6. Press ENTER to continue
7. Select a non-Unicode database, and press ENTER.

```
For a database platform of 'Sybase', are you installing a:
```

```
->1 - Non-Unicode Database
```

```
To select an item enter its number, or 0 when you are finished [0]:
```

8. Select the desired character set and press ENTER.

```
Select Character Set:
```

->1 - Western European ISO 8859-1

To select an item enter its number, or 0 when you are finished [0]: 0

9. The Database Configuration Wizard detects which database files are available for loading. Select the appropriate PeopleSoft database type to load and press ENTER to continue.

You will only see the database types that are valid based on the PeopleSoft Application Modules that you have installed.

Database Create Type:

->1 - Demo
2 - System
3 - PeopleTools System

To select a choice enter its number, or 0 when you are finished [0]: 2

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1]

Note. See the manual database creation appendix for further details about PeopleSoft database types.

10. Select the PeopleSoft application database you want to load, pressing ENTER when you are done. (The available selections will depend upon which application software you have installed.)

Select PeopleSoft Application:

1 - PeopleSoft Fin/SCM Database Objects - US English

To select a choice enter its number, or 0 when you are finished [0]: 0

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1]

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, for HRMS if you select HR-French, you must also select HR-English. This ensures that you install the necessary base-language components.

11. Specify the path where the Sybase client binaries reside, usually \$SYBASE/\$SYBASE_OCS/bin. (For example, /sybase/15.0.1-9705/OCS-15_0/bin.)

Specify the directory path for 'isql'

Please specify a directory name or press Enter

[/products/sybase/15.0.1/OCS-15_0/bin]

12. After you type the appropriate path, the installer will show you where the modified sql scripts required for the Sybase database creation installation will reside. Press ENTER to continue.

Location of modified scripts:

/ds3/syb/PT851/modifiedscripts

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1]

13. Select an option to determine the installation type:

Please select one of the following options

- >1 - Configure a server and create database
- 2 - Create database in existing server

To select a choice enter its number, or 0 when you are finished [0]:

If this is the first database you are installing on the Sybase server, choose option 1 to configure the Sybase server and create the database on a defined server. This will create an additional device to move your tempdb out of the master database. You only need to run this one time per server. In addition, your server will be rebooted after reloading configuration parameters required to host PeopleSoft databases.

Note. If you select the option to configure a server and create a database, you must have the correct permissions, that is, you must be the Sybase owner.

Please read the information below.

You have selected the following option 'Configure server and create database' .
As part of server configuration the installation will shutdown the Database Server and restart it for the server configurations to take effect. Please click on the Back button if you wish to change the options or click Next to continue.

If you select option 2, your tempdb will not be altered.

14. Specify the Sybase data server that will host the application database, and press ENTER.

Server Name [server7.peoplesoft.com]

Note. The Database Configuration Wizard defaults to your UNIX server name, which you do not want to use as a value for this parameter. Instead please specify your Sybase data server name—for example, the DSQUERY environment variable value.

15. Specify the names for the database, data device, log device, and a temp device.

You can accept the defaults or assign new names to the devices. To accept defaults, press ENTER; to change the names, type the new name and then press ENTER.

The data device is the file where the data will reside, the log device is the file where the database log is kept, and the temp device is an additional device that will serve to move the temporary space residing on the master database to a user designed device.

You need to allocate disk space on Sybase before creating a database. To do so, the Database Configuration Wizard uses the `disk init` command. The space allocated on UNIX can be defined as a file system or a raw device. Refer to both the Sybase Installation guide and the Sybase Troubleshooting guide for details on "raw devices" versus "file systems." The Database Configuration Wizard uses separate devices for the data portion and log portion of the database.

The tempdb is a Sybase database defined within the dataserver. The Database Configuration Wizard increases the size of the tempdb from the default size (2 MB) and defines it on a separate device called the "temp device." In determining the size of temp device, consider the number of databases using tempdb, the number of users, and the largest data sort size. PeopleSoft recommends *a minimum of 200 MB* per database; more may be required.

```
Peoplesoft Database Name [PTSYS]
Logical name of the data device [PTSYS_data]
Logical name for the database log device [PTSYS_log]
```

```
File path for the datadevice []
```

```
File path for logdevice []
```

```
Space in MB to be used at the <DATADEVICE> device []
```

```
Space in MB to be used at the <LOGDEVICE> device []
```

If you chose Configure a server and create database, you are now prompted for the tempdb information. If you choose to only build a database, you will not be asked these questions.

```
The logical name for the tempdb database device [PTSYS_temp]
  File path for the tempdevice []
  Space in MB to be used at the <TEMPDEVICE> device []
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1]
```

Note. It is normal for some processes to require a log file size of about 30 percent of your data device size.

16. Enter the requested database server information, pressing ENTER after typing each value.

Note. Whatever you type as your password will not be displayed—for example, connect ID password and database owner/access password requirement.

Note. To grant access to a PeopleSoft user ID the PeopleSoft sign-on process uses a connect ID, which is defined in the database and has minimum privileges that allow it to select only on some security tables. After the access has been granted, the PeopleSoft security will control the access for a PeopleSoft user ID to the application objects. The use of a common connect ID for multiple PeopleSoft IDs simplifies database security maintenance.

Please enter Sybase User information

Owner ID

[sysAdmin] **sa**

OwnerID Password

: **sybase**

Access ID [sa]:

Access Password []: **sybase**

Peoplesoft connect ID [people]: **people**

Peoplesoft connect password []: **peop1e**

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1]

- *Owner ID*: This is the database owner defined in Chapter 1 under "Planning Database Creation". This user needs system administrator privileges to create a database; under the covers this user will run the sql scripts to create the database devices and the database.
- *Owner ID password*: This is the password for the Owner ID.
- *Access ID*: This is the PeopleSoft Access ID defined in Chapter 1 under "Planning Database Creation." This value is case sensitive and must be eight characters or less. You will use it later in this chapter to sign on to Data Mover in "bootstrap mode."

Note. You must limit Access ID and Connect ID, and the passwords for both, to eight characters or less.

- *Access ID Password*: This is the PeopleSoft Access ID Password defined in Chapter 1 under "Planning Database Creation." Limit this to eight characters or less. You will use this value later in this chapter to sign on to Data Mover in "bootstrap mode."
- *Connect ID*: This is the user ID that is used for the initial connection to the database. The use of Connect ID is now mandatory. This is the PeopleSoft Connect ID defined in Chapter 1 under "Planning Database Creation." Limit this to eight characters or less.
- *Connect ID Password*: This is the Connect ID password used to authenticate the Connect ID. Limit this to eight characters or less.

17. Select the base language (the default is US English) and press ENTER.

Select Base Language:

->1 - ENG - US English

To select an item enter its number, or 0 when you are finished [0]: 0

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1]

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 *Enterprise PeopleTools 8.51 PeopleBook: Global Technology*.

18. You see a confirmation dialog indicating the selected database configuration.

Peoplesoft Database Configuration will be installed in the following location:

/ds3/syb/PT851/PT851

Database Platform:

Sybase - Non-Unicode

Application:

PeopleTools System Database - US English

Database Server Name:

SERVER7

Database Name:

PT8SYS

Please type 'back' to go to previous panels

PRESS <ENTER> TO CONTINUE:

19. Press ENTER. Now the PeopleSoft Database Configuration Wizard copies the necessary files over to the modified scripts directory and modifies them.

Note. You will see messages that the Sybase server is being shut down and then restarted if you chose the Configure a server and create database option for the installation type.

Execute diskinit.sql: create Sybase Disk Initialization.

Execute tempdb.sql: Increase the size of Tempdb

Execute createdb.sql for Sybase

Execute addobj.sql for Sybase

Execute updstats.sql for Sybase

Execute altertbl.sql for Sybase

Execute connect.sql for Sybase

Initializing Data Mover ... please wait

Note. The messages are displayed on the console to indicate real time progress of the Database Configuration Wizard. All messages are also written to log files contained in the *PS_HOME/log* directory.

Note. You see a message for every SQL script the Database Configuration Wizard executes, regardless of which option you have chosen.

```

PeopleTools 8.51 - Data Mover
Copyright (c) 2009 PeopleSoft, Inc.
All Rights Reserved
Started: Thu Oct 16 16:13:04 2009
Data Mover Release: 8.51
Database: PTDMO
Creating Database setup script /ds3/syb/851/scripts/ptdmosyb.dms
Ended: Thu Oct 16 16:13:04 2009
Successful completion
Initializing Data Mover ... please wait

```

Note. At this step, DBSetup is invoked via Data Mover to generate the input Data Mover script. This script can be found in the *PS_HOME/scripts* directory.

```

Copyright (c) 2009 PeopleSoft, Inc.
All Rights Reserved
Started: Thu Oct 16 16:13:10 2009
Data Mover Release: 8.51
Database: PTDMO
Importing ACCESS_GRP_LANG
Creating Table ACCESS_GRP_LANG
Import ACCESS_GRP_LANG 0
Building required indexes for ACCESS_GRP_LANG
Updating statistics for ACCESS_GRP_LANG
Records remaining: 1357

```

Note. A portion of the messages generated at this step have been omitted for clarity.

```

Import PSSTATUS 1
Building required indexes for PSSTATUS
Updating statistics for PSSTATUS
SQL Spaces: 0 Tables: 1358 Triggers: 0 Indexes: 1690 Views: 0
SQL Successful - UPDATE PSSTATUS SET OWNERID = 'sa'
SQL Successful - UPDATE PSOPRDEFN SET SYMBOLICID = 'PTDMO', OPERPSWD = OPRID, =>
  ENCRYPTED = 0
SQL Successful - UPDATE PSACCESSPRFL SET ACCESSID = 'sa', SYMBOLICID =>
  'PTDMO', ACCESSPSWD = 'sybase', VERSION = 0, ENCRYPTED = 0
SQL Successful - UPDATE PSOPTIONS SET LICENSE_CODE = 'abcde', LICENSE_GROUP =>
  '06'
SQL Successful - GRANT SELECT ON PSSTATUS TO people
SQL Successful - GRANT SELECT ON PSOPRDEFN TO people
SQL Successful - GRANT SELECT ON PSACCESSPRFL TO people
Ended: Thu Oct 16 16:32:33 2009
Successful completion

```

Note. At this step, the Data Mover import is complete and additional Data Mover commands and scripts are being executed. The first of these commands is ENCRYPT PASSWORD*.

```
completionStarted: Thu Oct 16 16:32:33 2009
Data Mover Release: 8.51
Database: PTDMO
Password encrypted for APPENV
Password encrypted for PSADMIN
Password encrypted for PT8
Password encrypted for PTADMIN
Password encrypted for PTAE
Password encrypted for PTAPPMMSG
Password encrypted for PTCOMP
Password encrypted for PTDMO
Password encrypted for PTEMPL
Password encrypted for PTEND
Password encrypted for PTENT841
Password encrypted for PTENT842
Password encrypted for PTGBL
Password encrypted for PTHVAP
Password encrypted for PTIDE
Password encrypted for PTOLAP
Password encrypted for PTOPT
Password encrypted for PTPORTAL
Password encrypted for PTPRD
Password encrypted for PTPRD843
Password encrypted for PTQETST
Password encrypted for PTRPT
Password encrypted for PTSECADM
Password encrypted for PTSVR
Password encrypted for PTT00LS
Password encrypted for PTUE
Password encrypted for PTUPG
Password encrypted for PTWEB
Password encrypted for PTWEBSERVER
Access Profiles successfully encrypted.
Ended: Thu Oct 16 16:32:33 2009
Successful completion
```

Note. At this step, Data Mover is executing the CREATE_TRIGGER * command.

```
Started: Thu Oct 16 16:32:33 2009
Data Mover Release: 8.51
Database: PTDMO
Creating Trigger for CURRENCY_CD_TBL
Records remaining: 3
Creating Trigger for PSMPRTMPREF
Records remaining: 2
```

```
Creating Trigger for PSWORKLIST
Records remaining: 1
Creating Trigger for RT_RATE_TBL
SQL Triggers: 4
Ended: Thu Oct 16 16:32:34 2009
Successful completion
```

Note. At this step, Data Mover is executing the REPLACE_VIEW command.

```
Started: Thu Oct 16 16:32:34 2009
Data Mover Release: 8.51
Database: PTDMO
View PNLFIELD_VW
Views remaining: 909
```

Note. A portion of the messages generated at this step have been omitted for clarity.

```
View PSTREESTRCTNFW
SQL Views: 910
Ended: Thu Oct 16 16:35:15 2009
Successful completion
Started: Thu Oct 16 16:35:15 2009
Data Mover Release: 8.51
Database: PTDMO
Creating Table MENU_LANG_TMP
Building required indexes for MENU_LANG_TMP
SQL Tables: 1 Indexes: 1
Ended: Thu Oct 16 16:35:16 2009
Successful completion
```

Note. At this step, Data Mover is executing the CREATE_TEMP_TABLE * command.

```
Started: Thu Oct 16 16:35:15 2009
Data Mover Release: 8.51
Database: PTDMO
Creating Table MENU_LANG_TMP
Building required indexes for MENU_LANG_TMP
SQL Tables: 1 Indexes: 1
Ended: Thu Oct 16 16:35:16 2009
Successful completion
```

Note. At this step, Data Mover is complete. If the Database Configuration Wizard executed successfully, you get the message below.

```
Creating Table GPFR_DASR_TMP
```

```

Creating temp table instances (5)

Building required indexes for GPFR_DASR_TMP

Records remaining: 1

Creating Table  GPFR_DASS_TMP

Creating temp table instances (5)

Building required indexes for GPFR_DASS_TMP

SQL Tables: 832  Temp Tables: 7805 Indexes: 8266

Ended: Thu Oct 16 16:35:16 2009

Successful completion

ExitCode: 0

Error: false
=====
Installation Complete
-----

Congratulations. Peoplesoft Database Configuration has been successfully⇒
installed to:

    /ds3/syb/PT851

```

Note. If the Database Configuration Wizard detected an error, you see a message similar to the one below, depending on the error encountered

```

Checking Data Mover log ... please wait

Checking ... ptengs.log          Error

Information

The installation failed to load PeopleSoft data with the following error: Error
in ptengs.log Please look into the log file(s) located under log directory for
details.
Execute a Unix tail command on the log, this will show you the last record you⇒
were processing when the error occurred.

Example:

pt-sun20:$ tail ptengs.log
Updating statistics for CURRCD_TBL_LANG
Records remaining: 982

```



```

Importing CURRENCY_CD_TBL
Creating Table CURRENCY_CD_TBL
SQL Error. Error Position: 230
INSERT INTO PS_CURRENCY_CD_TBL (CURRENCY_CD, EFFDT, EFF_STATUS, DESCR, DESCRSH)
Error: SQL execute error for CURRENCY_CD_TBL
SQL Spaces: 0 Tables: 118 Triggers: 0 Indexes: 122 Views: 0
Ended: Mon Jan 28 15:59:43 2009
Unsuccessful completion

```

Task 7-3: Checking the Log Files and Troubleshooting

This section discusses:

- Checking the Log Files
- Troubleshooting

Task 7-3-1: 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 7-3-2: Troubleshooting

If the Database Configuration Wizard did not complete successfully, please 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.”

If the Database Configuration Wizard fails while creating views, clear the cache folder, for example, *USER_HOME/PS_CACHE*, and repeat the database creation.

See *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*, “Using PeopleSoft Configuration Manager.”

The generated Data Mover import script is saved in the *PS_HOME/scripts* directory. The script conforms to the following naming convention:

<dbname>syb.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.
(See the note below for additional information on determining where the script stopped.)

Note. 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, add the 'SET START' statement before the first 'IMPORT *;' statement. If the failure occurred during a subsequent IMPORT, 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. Log on using the ACCESSID you specified when you created your Data Mover scripts with the Database Setup program.

This starts Data Mover in *bootstrap mode*.

The input window should display the DMS import script for the database. The script has the format <dbname>syb.dms.

3. If necessary, select File, Open, and browse to the *PS_HOME/scripts* directory to find the appropriate DMS script.
4. Add the following line before the offending IMPORT command (the one being executed when the failure occurred):

```
SET START <RECORD NAME>;
```

where <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' 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.

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. With PeopleSoft PeopleTools 8.51 and higher, 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. 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' 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 non-leading PS recname, add PS_ to the beginning of the recname; otherwise the table will not be found.

5. To restart the script, use the `psdmtx` command to execute Data Mover on the command line. First, change the directory.

```
cd $PS_HOME/bin
```

Note. You can run `psdmtx` by supplying arguments on the command line, or by passing the arguments from a text file. You will use a text file in this procedure.

6. Use the following command to view the help for `psdmtx`:

```
pt-sun20:$ psdmtx /help
Usage:  psdmtx  [-CT DB2|DB2ODBC|DB2UNIX|INFORMIX|MICROSFT|ORACLE|SYBASE]
              [-CS server name]
              [-CD database name]
              [-CO user id]
              [-CP user pswd]
              [-CI connect id]
              [-CW connect id pswd]
              [-I process instance]
              [-FP filename]
```

or

```
psdmtx [parmfile]
```

To capture the output in a file, use a “pipe” symbol (>) followed by a filename. For example:
 psdmtx [arguments] > filename.txt

Use the following list of commands and descriptions for the psdmtx arguments:

Command Argument	Description
-CT <DB type>	The type of database to connect to: SYBASE.
-CS <SERVER NAME>	The name of the database server (data server) you connect to.
-CD <DBNAME>	Your selected Database Name.
-CO <ACCESSID>	Use the <DBNAME> Access ID to run Data Mover in bootstrap mode.
-CP <ACCESSPWD>	The password for <DBNAME> Access ID.
-CI <CONN ID>	The ID used to connect to the database server.
-CW <CONN PSWD>	The password for the specified connection ID.
-FP <filename>	The filename for the Data Mover import script (DMS) to run.

7. To set up Data Mover to rerun the Data Mover import script in bootstrap mode, do the following:
 - a. Change directory to *PS_HOME/setup*.
 - b. Copy parmfile to parm<DBNAME>. For example, *parmPT851*.
 - c. Edit parm<DBNAME>.

Use the information in the table above to edit the file for your configuration.

Use SYBASE for <DB type>.

For example:

Before

```
-CT <DB type> -CS <SERVER NAME> -CD <DBNAME> -CO <ACCESSID> -CP <ACCESSPWD>=>
-CI <CONN ID> -CW <CONN PSWD> -FP <filename>
```

After

```
-CT SYBASE -CS SPSUN07JJ -CD PT851 -CO PT851 -CP PT851 -CI people -CW=>
people -FP $PS_HOME/scripts/pt851syb.dbs
```

8. To launch Data Mover to rerun the Data Mover import script in bootstrap mode, do the following:
 - Change directory (cd) to *PS_HOME/bin*
 - Run the psdmtx command with the edited parm<DBNAME> file.

```
pt-sun20:$ psdmtx ../setup/parmPT851
```

At this point you see Data Mover log messages tracking Data Mover progress.

See Also

"Using the PeopleSoft Installer," Verifying Necessary Files for Installation on Windows.

Task 7-4: 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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Application Designer Developer's Guide*

Note. If you are installing either a PeopleSoft PeopleTools System Database or a database delivered on PeopleSoft PeopleTools 8.51, 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.

Here is a list of applications for which this task must be run because the version of the database that was shipped is different than the version of PeopleSoft PeopleTools that you are running. If your application release is earlier than the release listed in the table, you must run this task:

Application Release	Application Database Version	Requires Update to 8.51?
CRM 9.0	8.48	Yes
EPM 9.1	8.50	Yes

Application Release	Application Database Version	Requires Update to 8.51?
Fin/SCM 9.0	8.48	Yes
Fin/SCM 9.1	8.50	Yes

Verify your application and PeopleSoft PeopleTools release information on My Oracle Support. After logging in, select More, Certifications, and go to the Product Roadmap area. Search for the product you are installing. You can find the PeopleTools release in the Technology area. For information on earlier releases, select the link Product Roadmap (Pre-2006).

If the PeopleTools version is not 8.51, you must run this task. Otherwise, continue to the task Running Additional Data Mover Scripts.

Task 7-4-1: 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.

Note. 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 7-4-2: Updating PeopleTools System Tables

Run SQL scripts to update your PeopleSoft PeopleTools system tables to the latest PeopleSoft PeopleTools release (currently 8.51).

Use a query tool, such as isql, to run SQL scripts while in the PeopleSoft database.

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, and rel851
8.41	rel842, rel843, rel844, rel845, rel846, rel847, rel848, rel849, rel850, and rel851
8.42	rel843, rel844, rel845, rel846, rel847, rel848, rel849, rel850, and rel851
8.43	rel844, rel845, rel846, rel847, rel848, rel849, rel850, and rel851
8.44	rel845, rel846, rel847, rel848, rel849, rel850, and rel851
8.45	rel846, rel847, rel848, rel849, rel850, and rel851
8.46	rel847, rel848, rel849, rel850, and rel851
8.47	rel848, rel849, rel850, and rel851
8.48	rel849, rel850, and rel851
8.49	rel850 and rel851
8.50	rel851
8.51	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
```

- Edit and run the grant.sql script in the *PS_HOME*\scripts directory. This will grant permissions to the Connect ID.
- Invoke Data Mover by running *PS_HOME*\bin\client\winx86\psdmt.exe.
The PeopleSoft Logon window appears.
Log on using a valid PeopleSoft Operator ID, such as PS for HRMS or VP1 for FDM.
- Run the storeddl.dms Data Mover script in the *PS_HOME*\scripts directory.

Note. Comment the other platform-specific scripts according to your platform.

This will update your platform-specific DDL model statements.

Log out of Data Mover for the next step.

- Invoke Data Mover by running *PS_HOME*\bin\client\winx86\psdmt.exe.
The PeopleSoft Logon window appears.

Log on using the access ID you specified when you created your Data Mover scripts with the Database Setup program.

This will start Data Mover in bootstrap mode.

8. Run the msgtlsupg.dms Data Mover script in the *PS_HOME*\scripts directory.

This will update the PeopleSoft PeopleTools messages in your database.

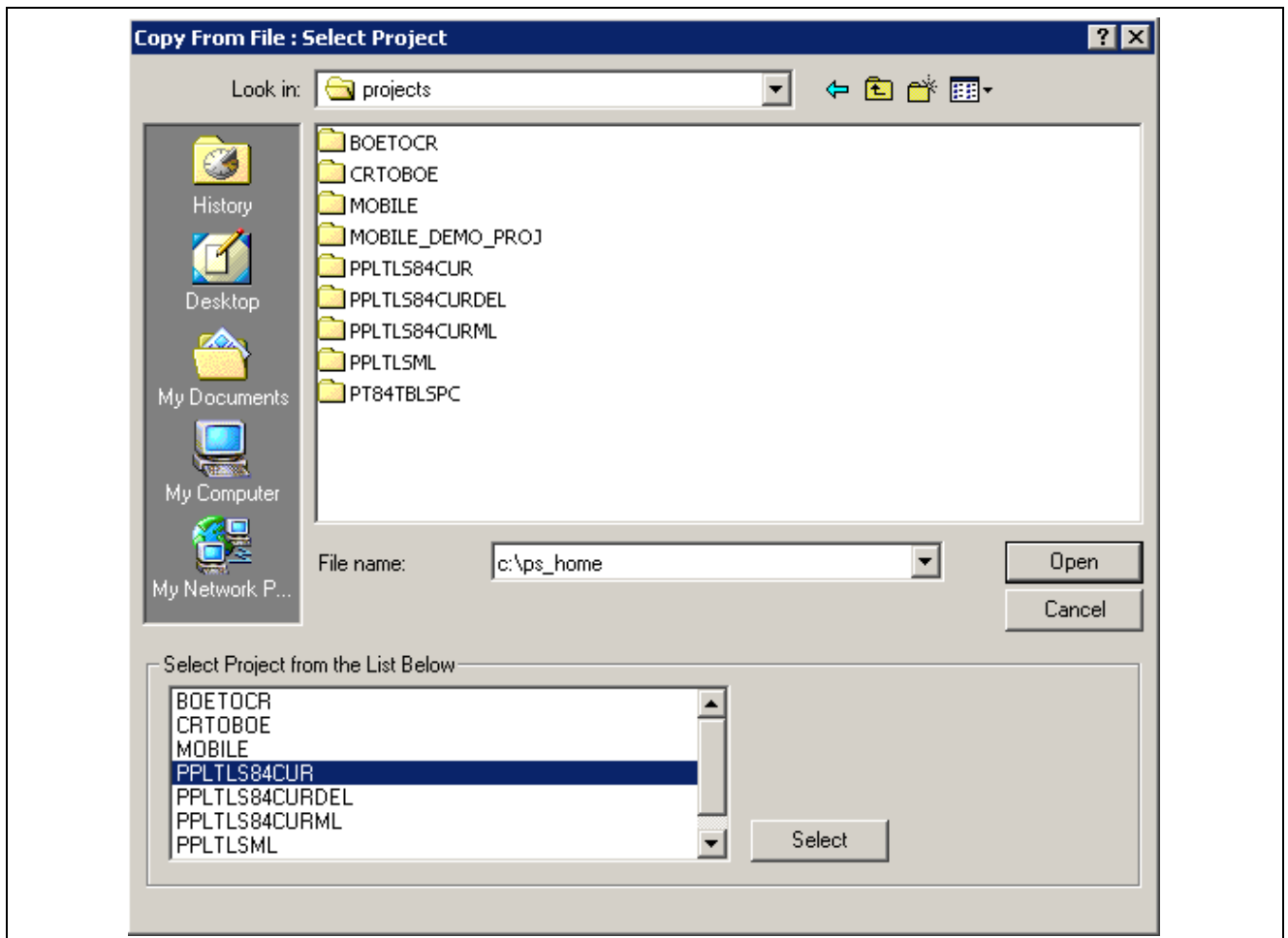
Task 7-4-3: Updating PeopleTools Database Objects

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.

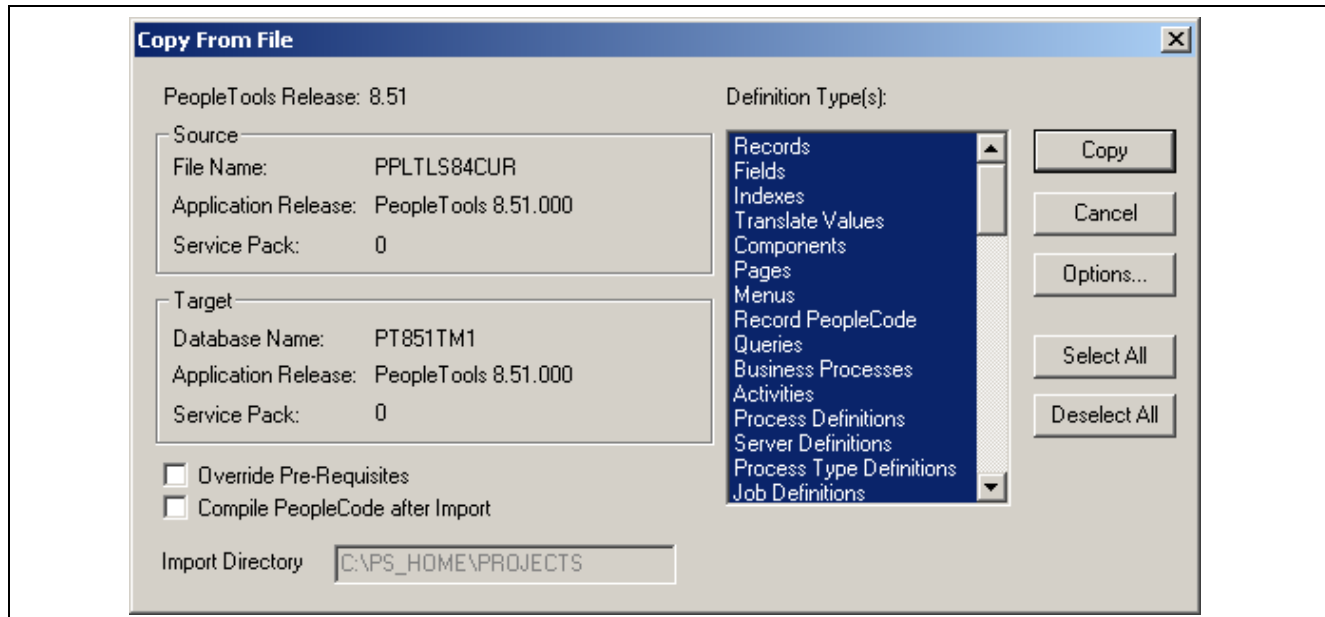
Note. If the project already exists on the database, a confirmation dialog box appears asking if you want to overwrite the existing project. Select the File radio button and click OK to overwrite the existing project.



Selecting 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 7-4-4: 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.

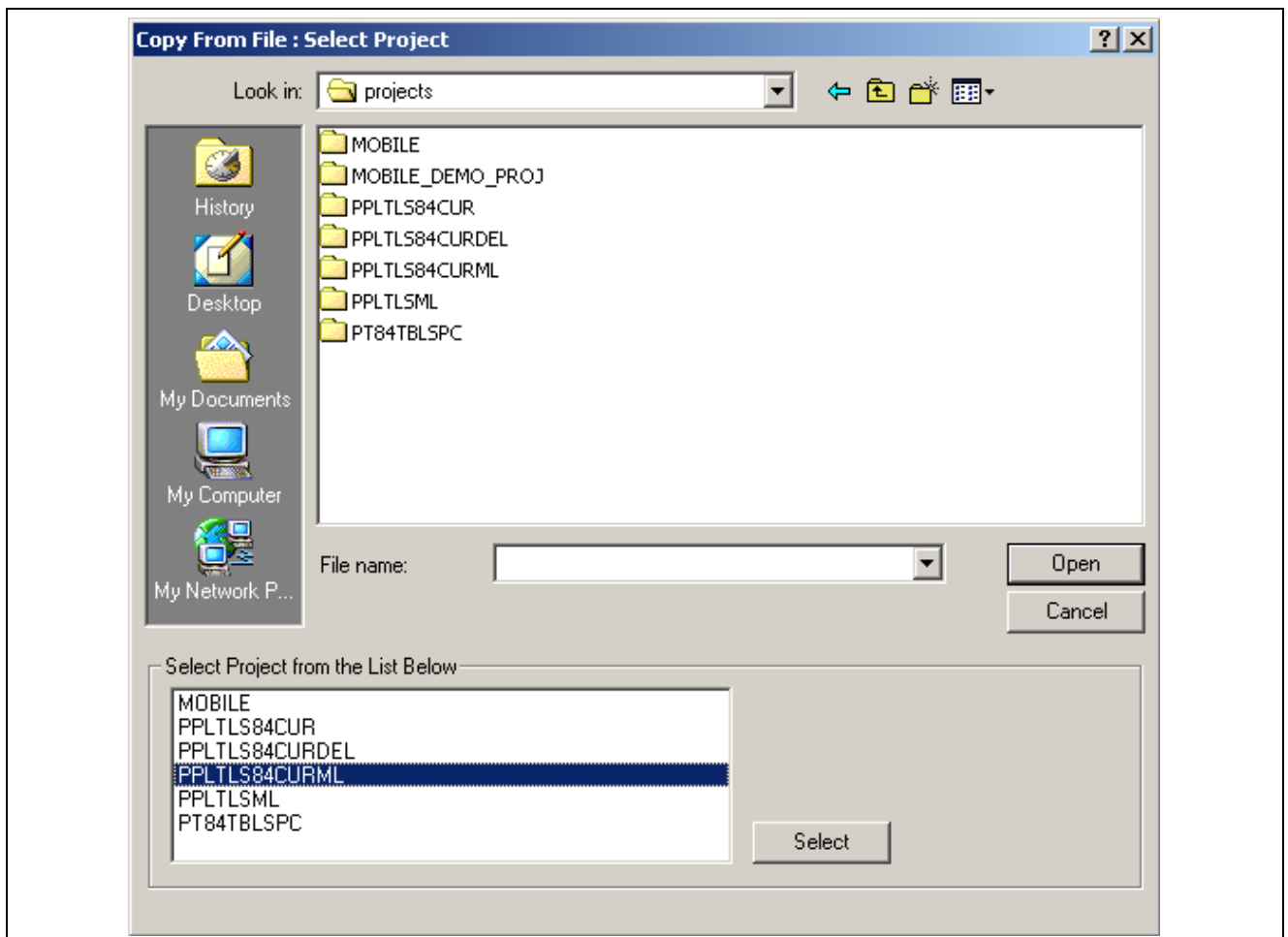
Note. If you have licensed and installed French into this database, copy the PPLTLSML project instead of the PPLTLS84CURML project for French *only*. Substitute the project name PPLTLSML instead of PPLTLS84CURML in the instructions below. Copy the PPLTLS84CURML project to update any non-French languages 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 8.51:

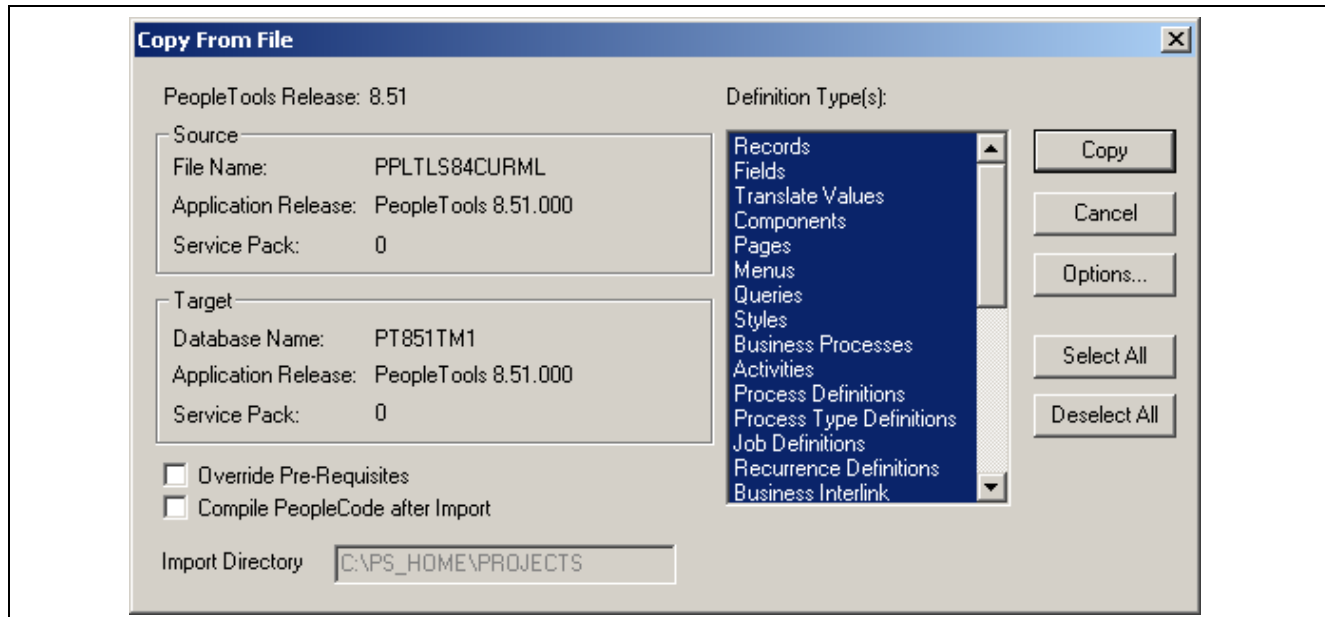
1. Bring up the Configuration Manager and select the Display tab.
Ensure that the language matches the base language of your database. Always run upgrade copy as a base language user.
2. Launch Application Designer and sign on to your database with a valid PeopleSoft user ID.
3. Select Tools, Copy Project, 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 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 7-4-5: 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:

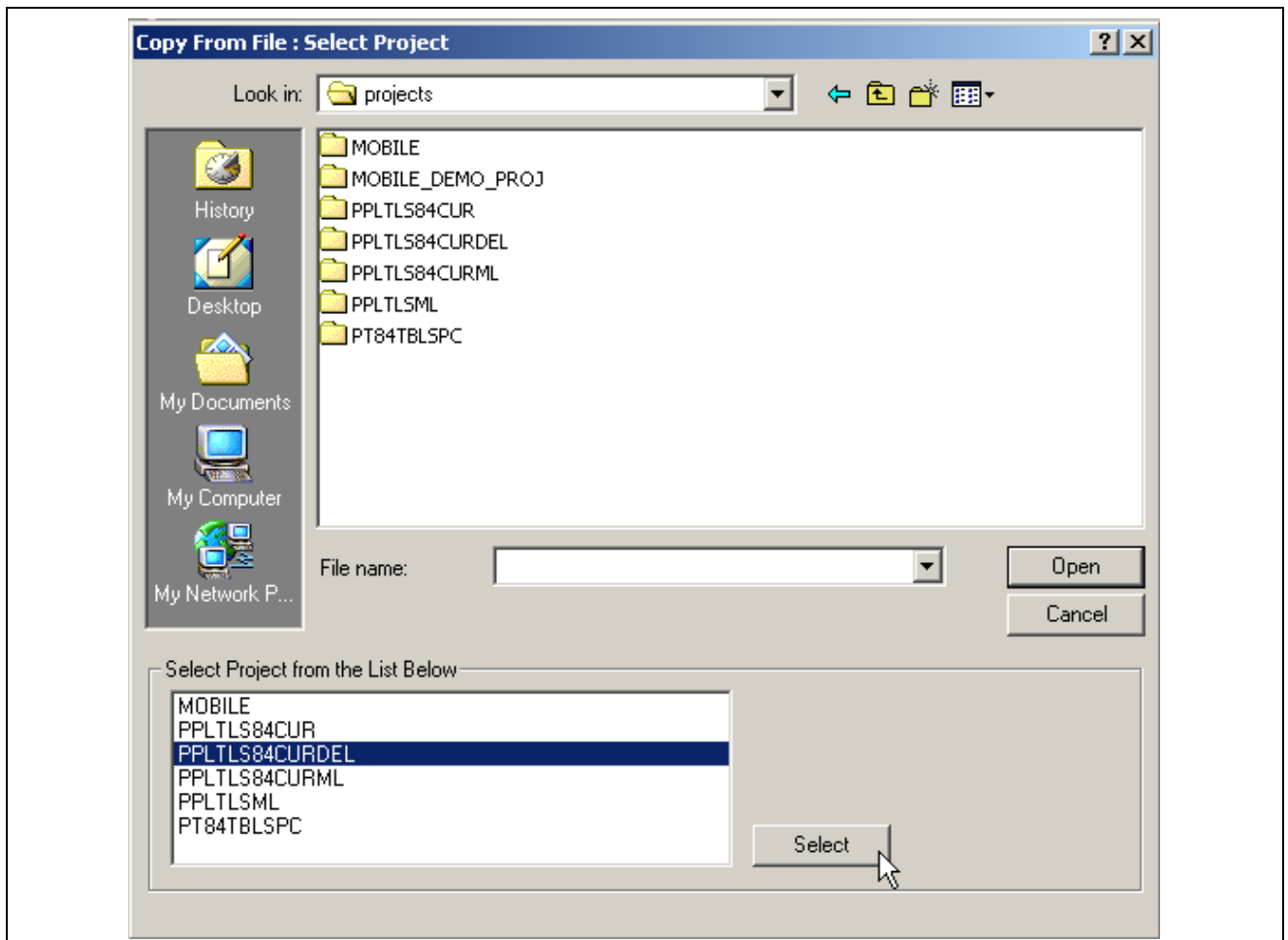
Field <FIELDNAME> is in use on at least one record.

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.

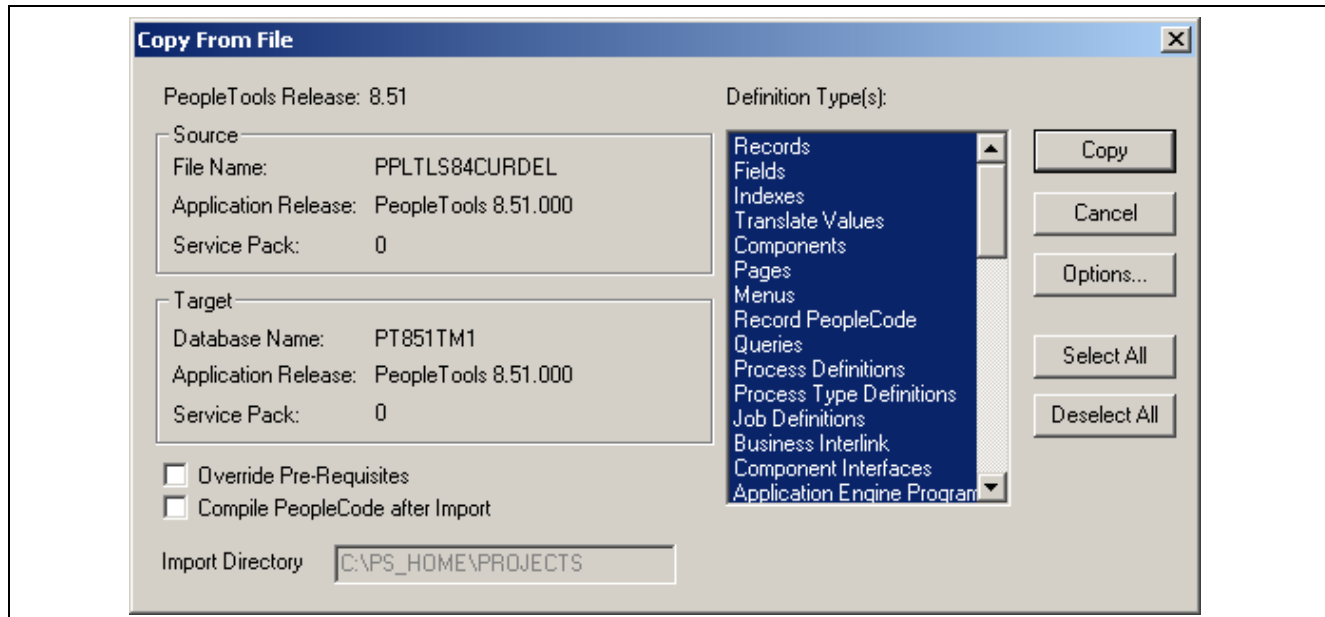
Note. If the project already exists on the database, a confirmation dialog box appears asking if you want to overwrite the existing project. Select the File radio button and click OK to overwrite the existing project.



Selecting 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 are applying a required for install PeopleSoft PeopleTools patch *and if a database project is included*, apply the database projects now. Make sure to read the patch release notes to find out if database changes are in the patch. Read the documentation included with the patch and follow any additional instructions. This is discussed in the next section.

See Applying Patched PeopleTools Database Objects.

Task 7-4-6: 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.

Note. If no project is included as part of the patch, run *PS_HOME\scripts\PTPATCH.DMS* in user mode instead.

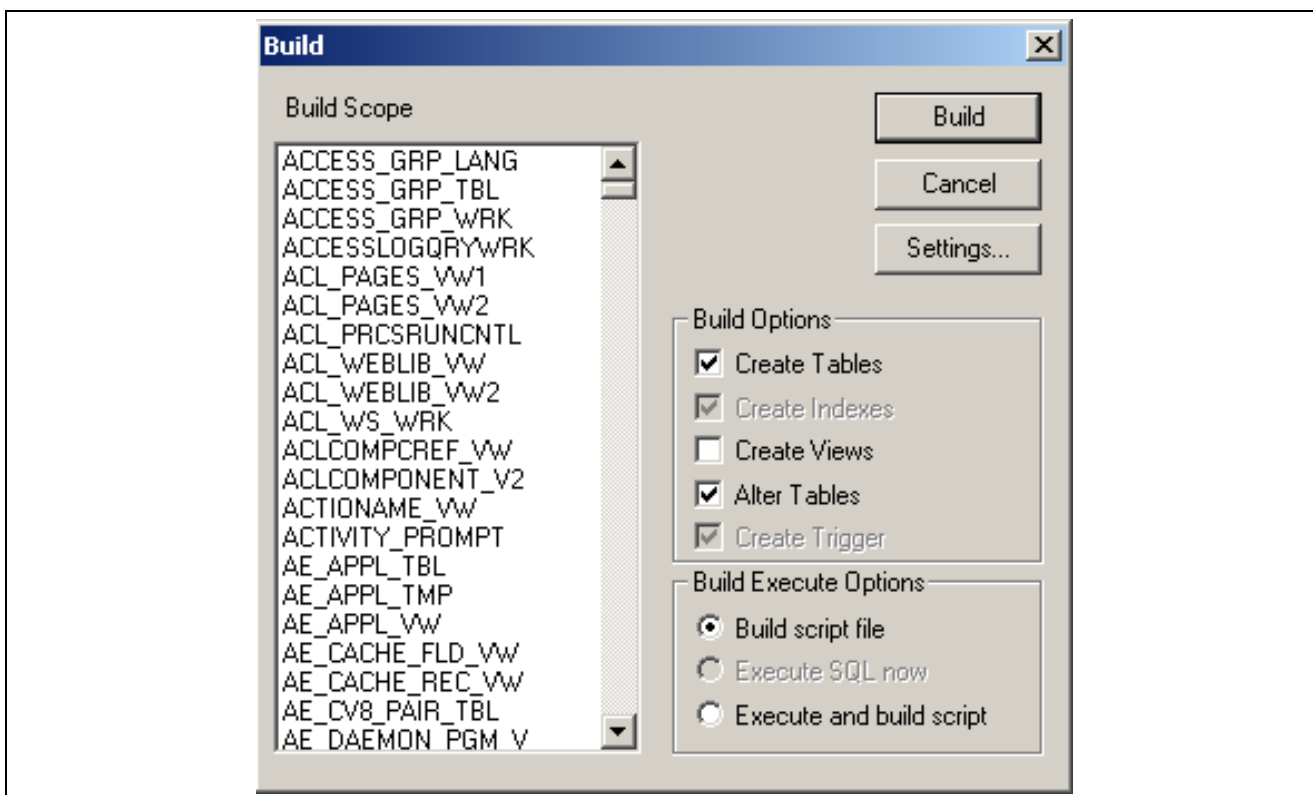
Task 7-4-7: Altering PeopleTools Tables

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:

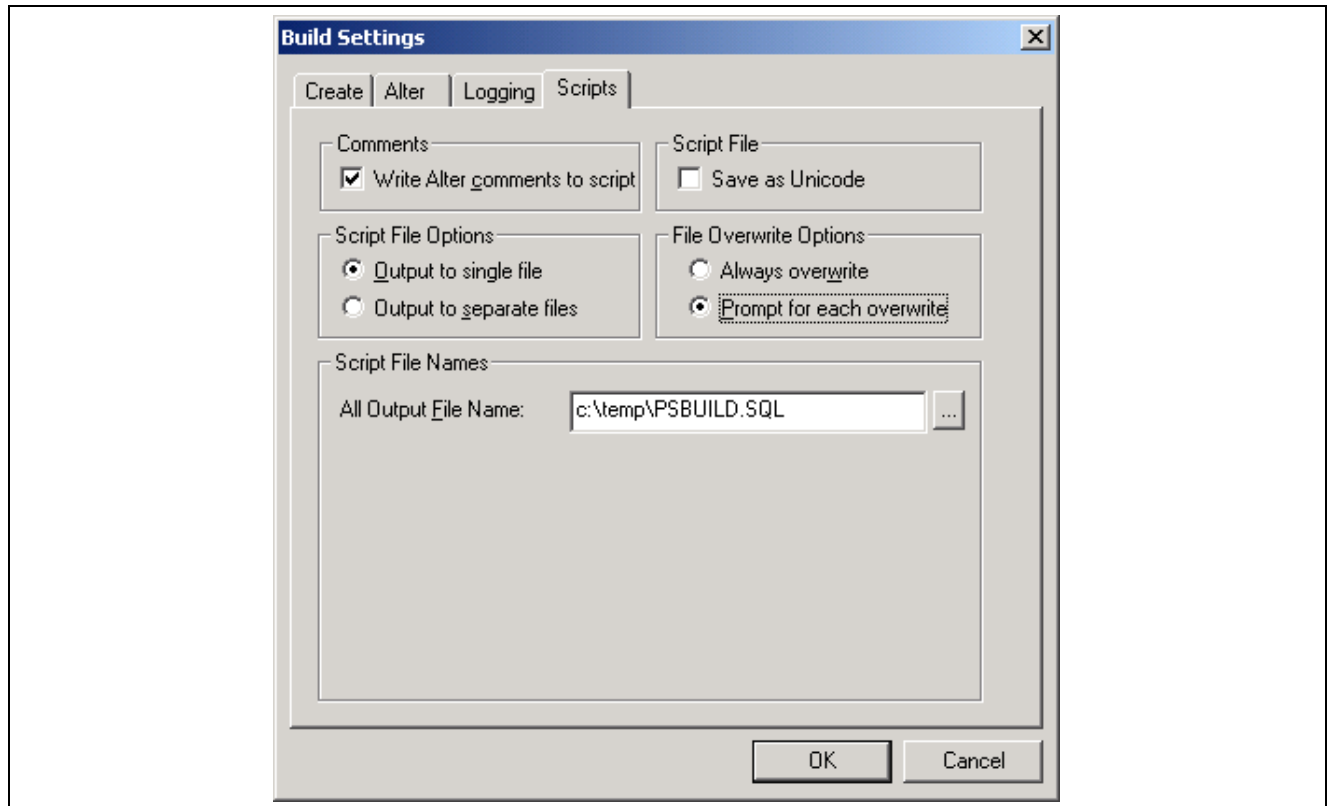


The Build dialog box

5. Select Create Tables and Alter Tables in the Build Options region (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:

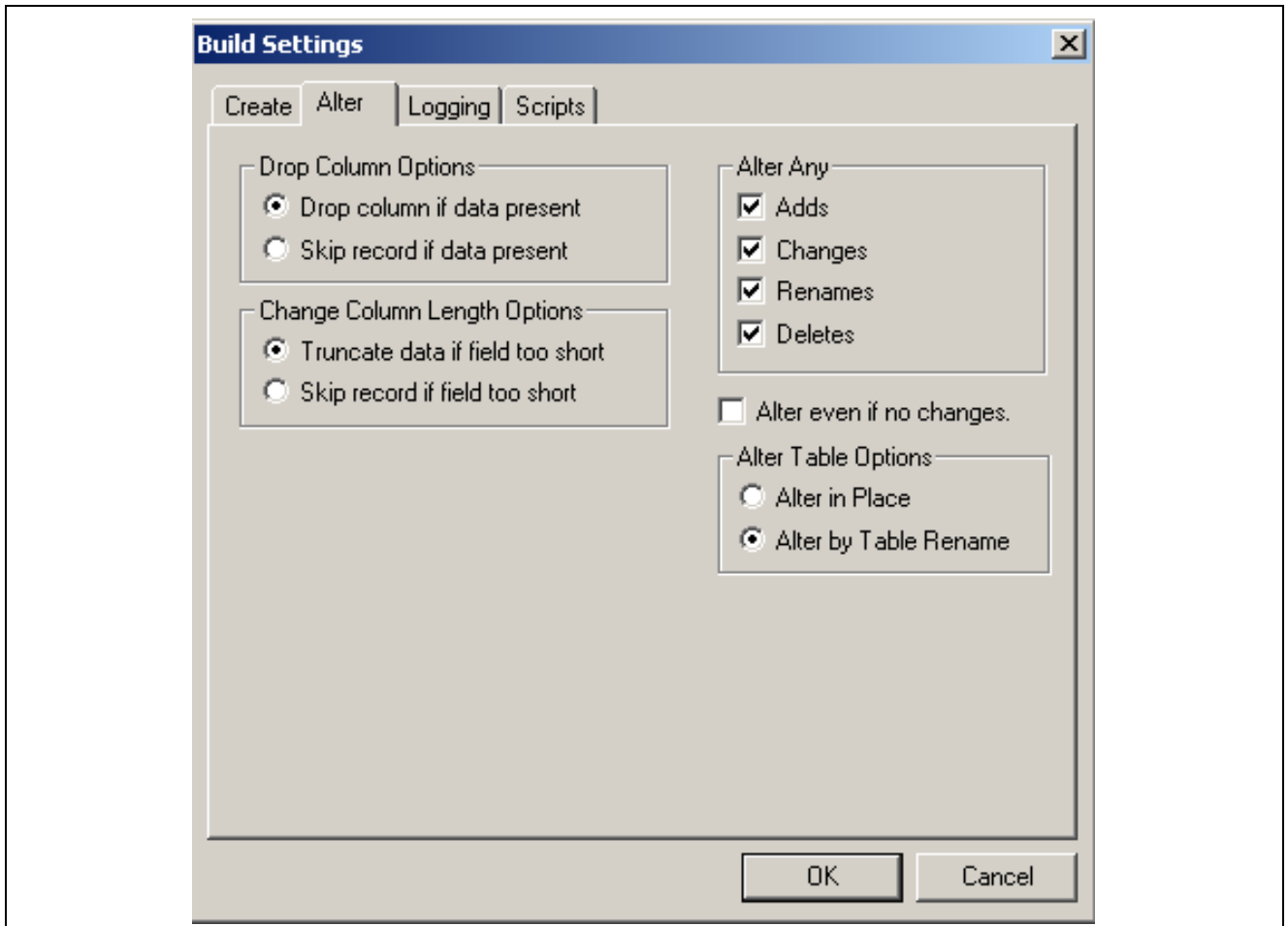


Build Settings dialog box: Scripts tab

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.

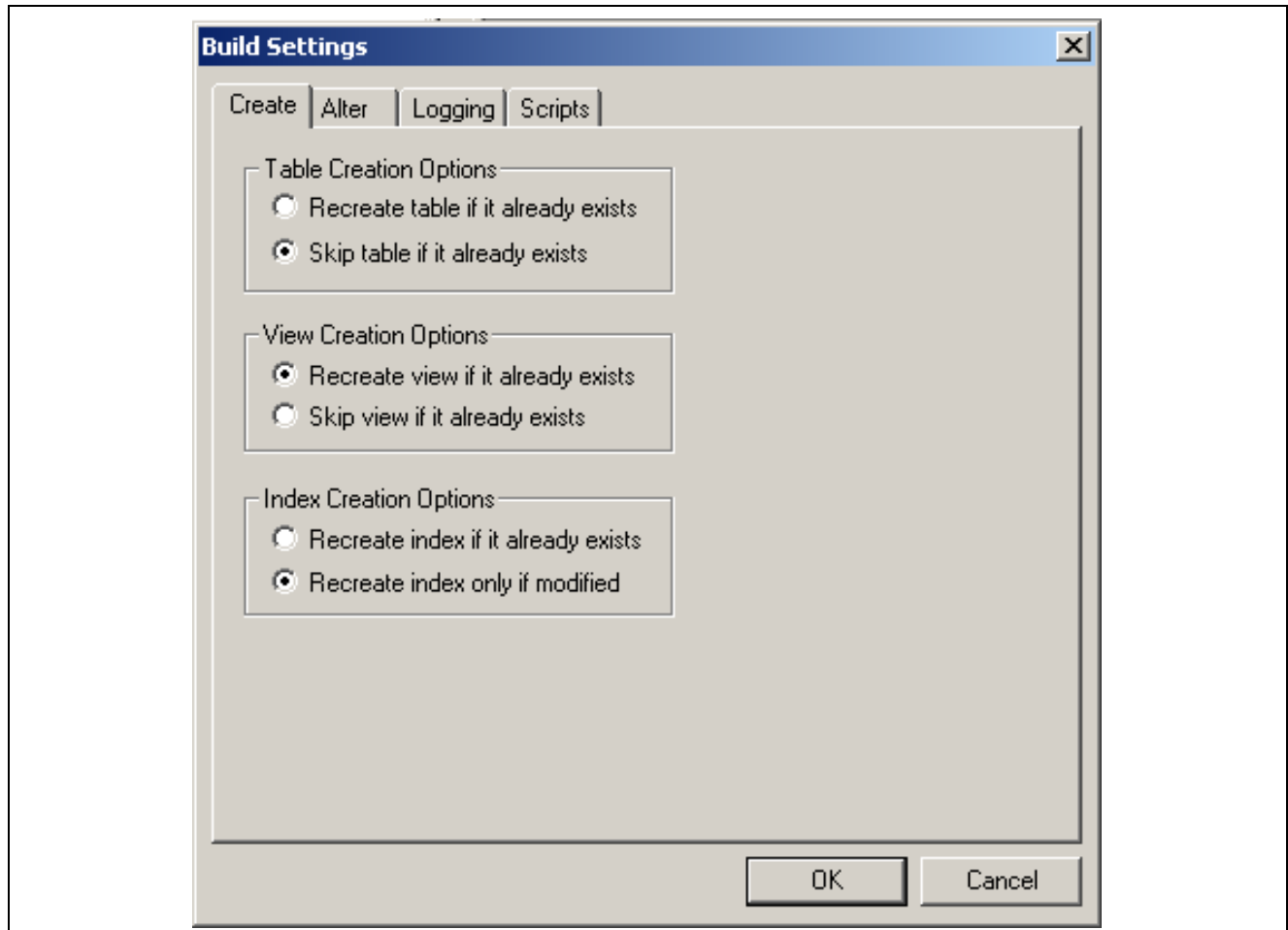
Drop column if data present should be selected in the Drop Column Options region, and Truncate data if field too short should be selected in the Change Column Length Options region.

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 7-4-8: 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 8.51 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.

- Log on using the access ID you specified when you created your Data Mover scripts with the Database Setup program.

This will start Data Mover in bootstrap mode.

- 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, and pt851tls
8.41	pt842tls, pt843tls, pt844tls, pt845tls, pt846tls, pt847tls, pt848tls, pt849tls, pt850tls, and pt851tls
8.42	pt843tls, pt844tls, pt845tls, pt846tls, pt847tls, pt848tls, pt849tls, pt850tls, and pt851tls
8.43	pt844tls, pt845tls, pt846tls, pt847tls, pt848tls, pt849tls, pt850tls, and pt851tls
8.44	pt845tls, pt846tls, pt847tls, pt848tls, pt849tls, pt850tls, and pt851tls
8.45	pt846tls, pt847tls, pt848tls, pt849tls, pt850tls, and pt851tls
8.46	pt847tls, pt848tls, pt849tls, pt850tls, and pt851tls
8.47	pt848tls, pt849tls, pt850tls, and pt851tls
8.48	pt849tls, pt850tls, and pt851tls
8.49	pt850tls and pt851tls
8.50	pt851tls
8.51	None

- Run the pslanguages.dms Data Mover script in the *PS_HOME*\scripts directory.

This script loads language-specific seed data.

- 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.

- 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:

```
UPDATE PSLANGUAGES SET INSTALLED=1 WHERE LANGUAGE_CD = 'xxx';
```

where xxx is one of the PeopleSoft three-letter language code identifiers, as described earlier.

See "Preparing for Installation," Planning Multilingual Strategy.

Run the SQL command identified above using your SQL tool.

- Open Data Mover using a valid PeopleSoft Operator ID, such as PS for HRMS or VP1 for FDM.

8. If you are a Multilingual customer and have licensed non-English languages, run the pt851tlsxxx.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 pt851tlsxxx.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 pt851tlsxxx.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 7-4-9: 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
- 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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Application Engine*, "Managing Application Engine Programs."

Converting Portal Objects

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 SYBASE -CS <server name> -C0⇒
<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 Downloads section of My Oracle Support for Required at Install patches for your application and apply the patches after installing your database.

See *Enterprise PeopleTools 8.51 PeopleBook: PeopleTools Portal Technologies*.

Converting Query Headings

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 SYBASE -CS <server name> -C0⇒
```

```
<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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Query*.

Converting Setup Manager

The application engine program UPGTSM DAT 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 UPGTSM DAT Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT SYBASE -CS <server name> -C0⇒  
<oprid> -CP <pswd> -R INSTALL -AI UPGTSM DAT
```

Converting Navigation Collection and Pagelet Wizard Data

The application engine program UPGT846PP adds Navigation Collection and Pagelet Wizard data from the Common Components and Enterprise 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 Enterprise 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 UPGT846PP Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT SYBASE -CS <server name> -C0⇒  
<oprid> -CP <pswd> -R INSTALL -AI UPGT846PP
```

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

The application engine program UPGPT848PP adds the following Pagelet Wizard data sources from Enterprise 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 Enterprise 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 SYBASE -CS <servername> -C0⇒  
<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 SYBASE -CS <servername> -C0⇒  
<oprid> -CP <pswd> -R INSTALL -AI UPGPT850PTFP
```

Updating Feeds for Active Data Guard

The Application Engine program UPGPT851PTFP updates Service Operations used by Feeds for Active Data Guard support.

Run the UPGPT851PTFP Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT SYBASE -CS <servername> -C0⇒  
<oprid> -CP <pswd> -R INSTALL -AI UPGPT851PTFP
```

Populating the Hash Values

The Application Engine program UPGTHASH populates the hash columns on PSPCMTEXT and PSSQLHASH if they are empty.

Run the UPGTHASH Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT SYBASE -CS <servername> -C0=>
<oprid> -CP <pswd> -R INSTALL -AI UPGTHASH
```

Task 7-4-10: 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 SYBASE -CS <servername> -C0=>
<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 7-4-11: 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 SYBASE -CS <servername> -CO=>  
<oprid> -CP <pswd> -R INSTALL -AI UPGPTSERVOPR
```

Task 7-5: 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 7-6: 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, HRMS, 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 7-6-1: 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 7-6-2: 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 pt851tlsxxx.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 7-7: Running VERSION Application Engine Program

Run the VERSION Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT SYBASE -CS <server name> -CO=>
<userid> -CP <userpswd> -R INSTALL -AI VERSION
```

Use the values for the server name, database name and user ID that you entered on the startup tab of the Configuration Manager for <server_name>, <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 you want to be associated with the <userid>.

See "Setting Up the Install Workstation."

Task 7-8: 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.

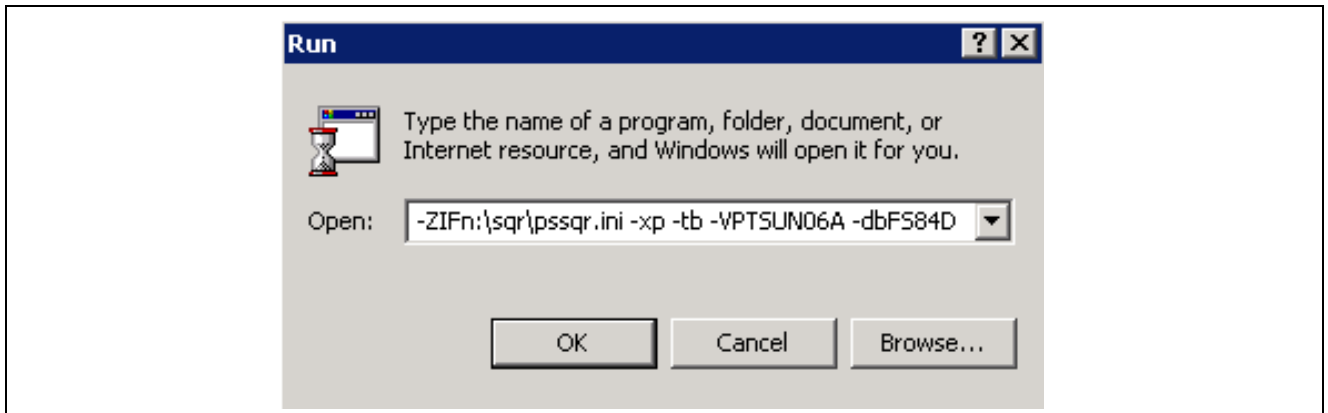
Task 7-8-1: Running SQRs on the Client Workstation

To run an SQR on the client workstation:

1. Select Start, Run, click Browse, and navigate to *PS_HOME*\bin\sqr\SYB\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, *-fd:\psbase\psenv\fsdmo*).



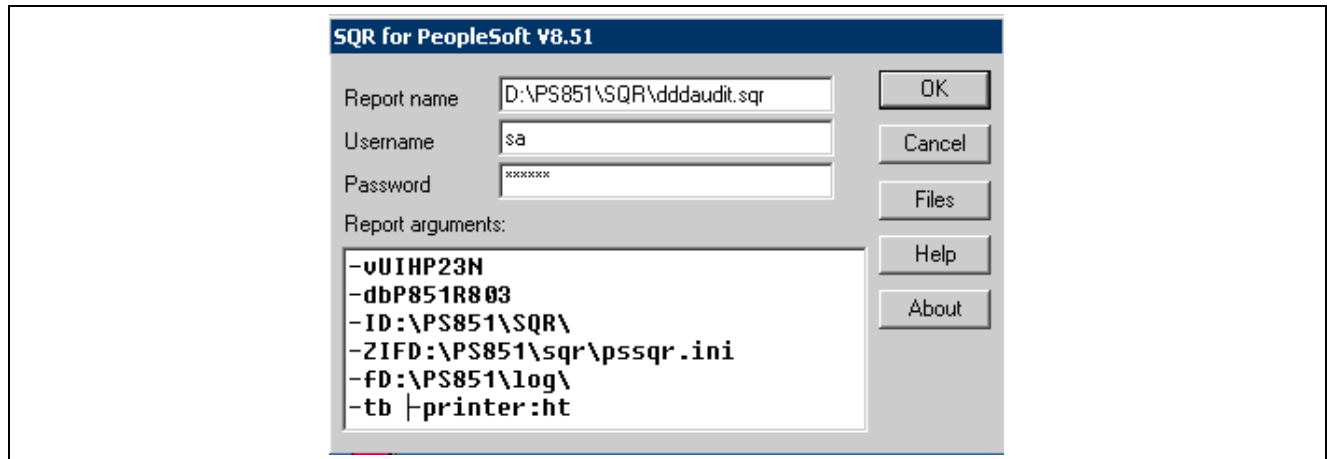
Running an SQR report on the client

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.
-xp	Excludes stored procedure creation during SQR execution.
-tb	Removes trailing blanks.
-v	Sybase server name.
-db	Sybase database name.
-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 resulting dialog box should look something like this:



SQR for PeopleSoft dialog box

4. Enter the following values:
 - Enter the report name.
You must specify the full path.
 - Enter the access ID in the Username field.
 - Enter the access password in the Password field.
 - Enter the database name, using the -db option.
 - Enter the Sybase instance name, using the -v option.
5. Click OK to run the SQR report.

Task 7-8-2: 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\SYB\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 sqrw 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.
 - Database name
 - Username: Enter the access ID.
 - Password: Enter the access password.
 - Report arguments: Make any necessary modifications to the saved arguments.
8. Click OK.

Task 7-9: Checking the Database

Run and examine two 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.

For further information about the dddaudit and sysaudit reports, consult PeopleBooks. 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 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.

See *Enterprise PeopleTools 8.51 PeopleBook: Data Management*, "Ensuring Data Integrity."

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

Enterprise PeopleTools 8.51 PeopleBook: Data Management

Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration

Task 7-10: 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 (see the table at the beginning of the task "Updating PeopleTools System Tables"), this task is optional.

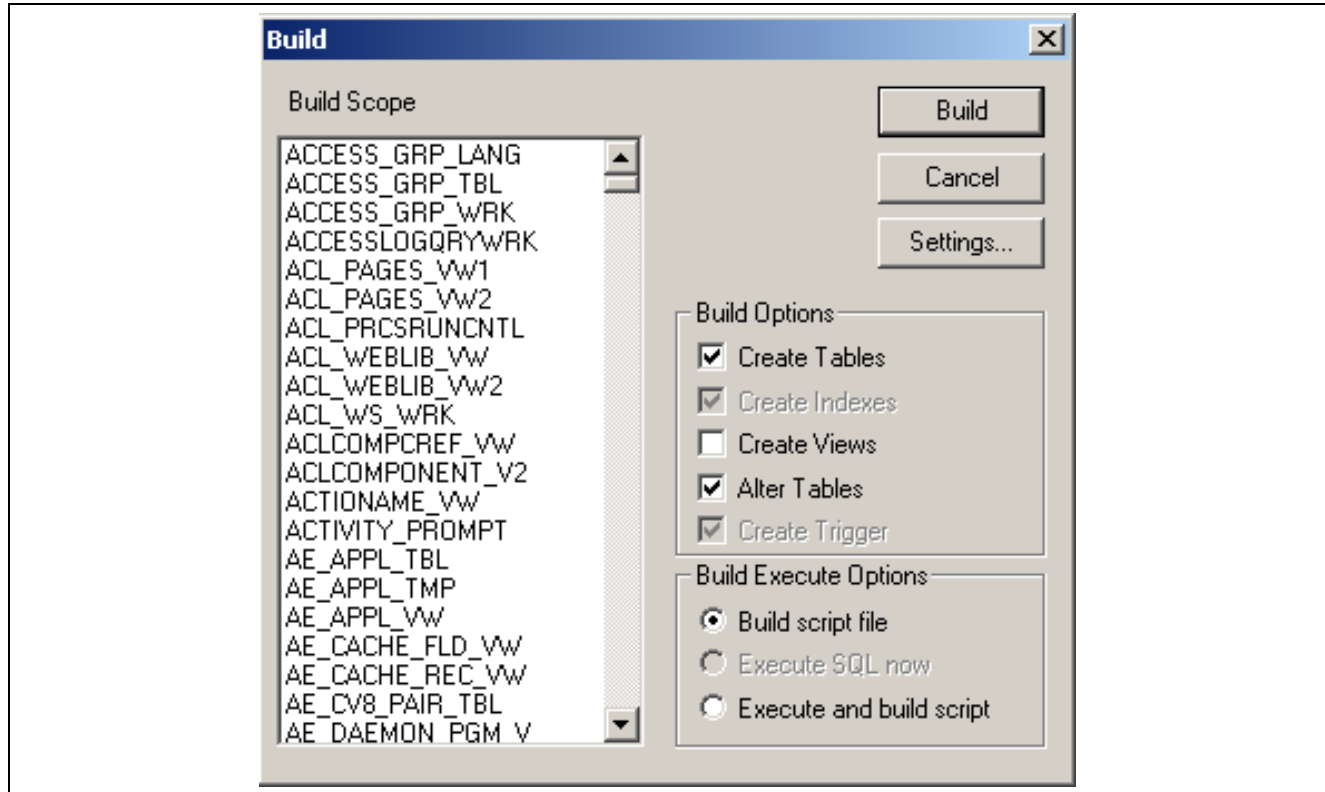
Note. Triggers are always dropped and re-created during the alter process and will always show up in the generated Alter Audit script. You can ignore the generated script for triggers.

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.

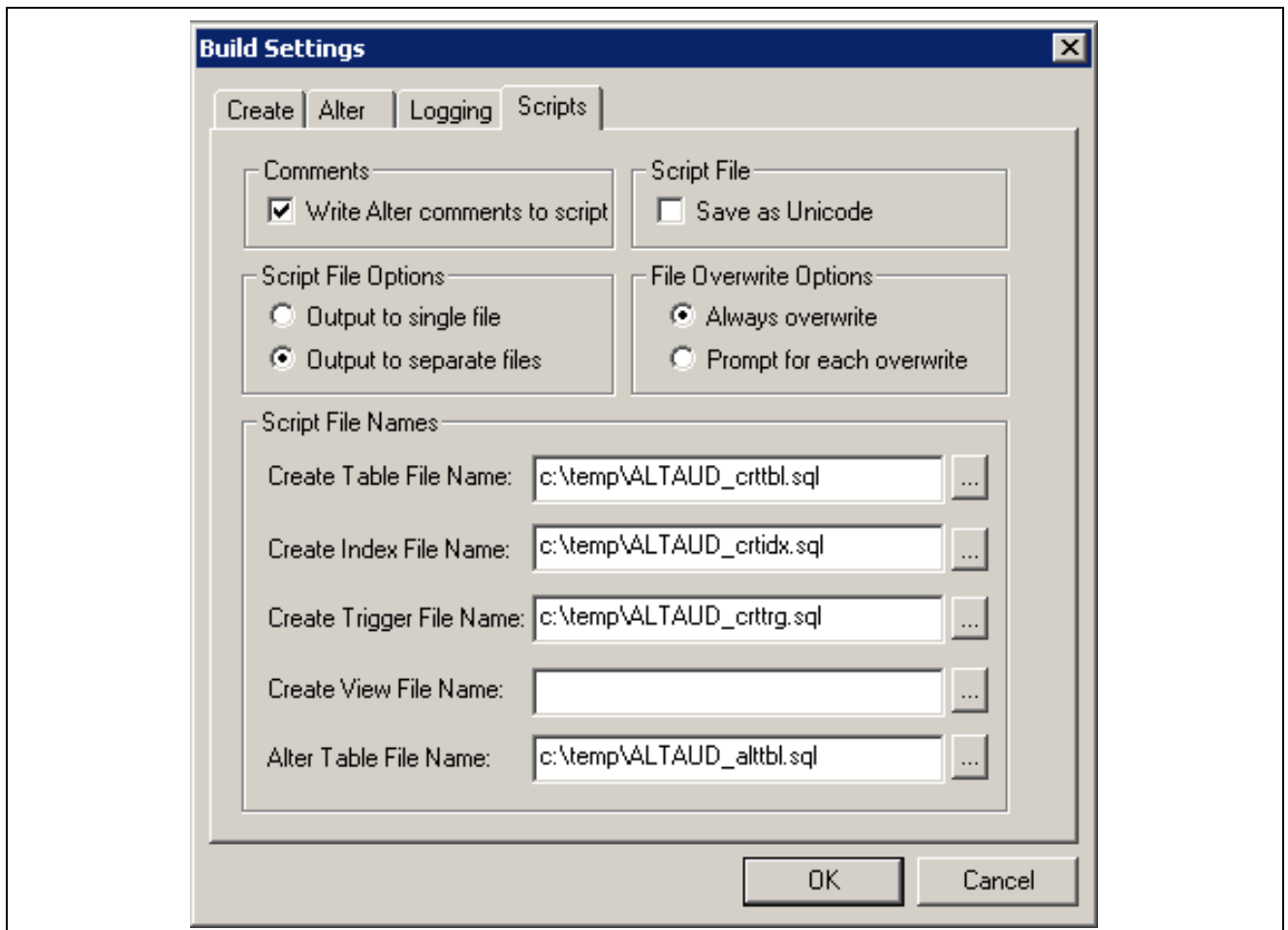
The Build dialog box appears:



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:

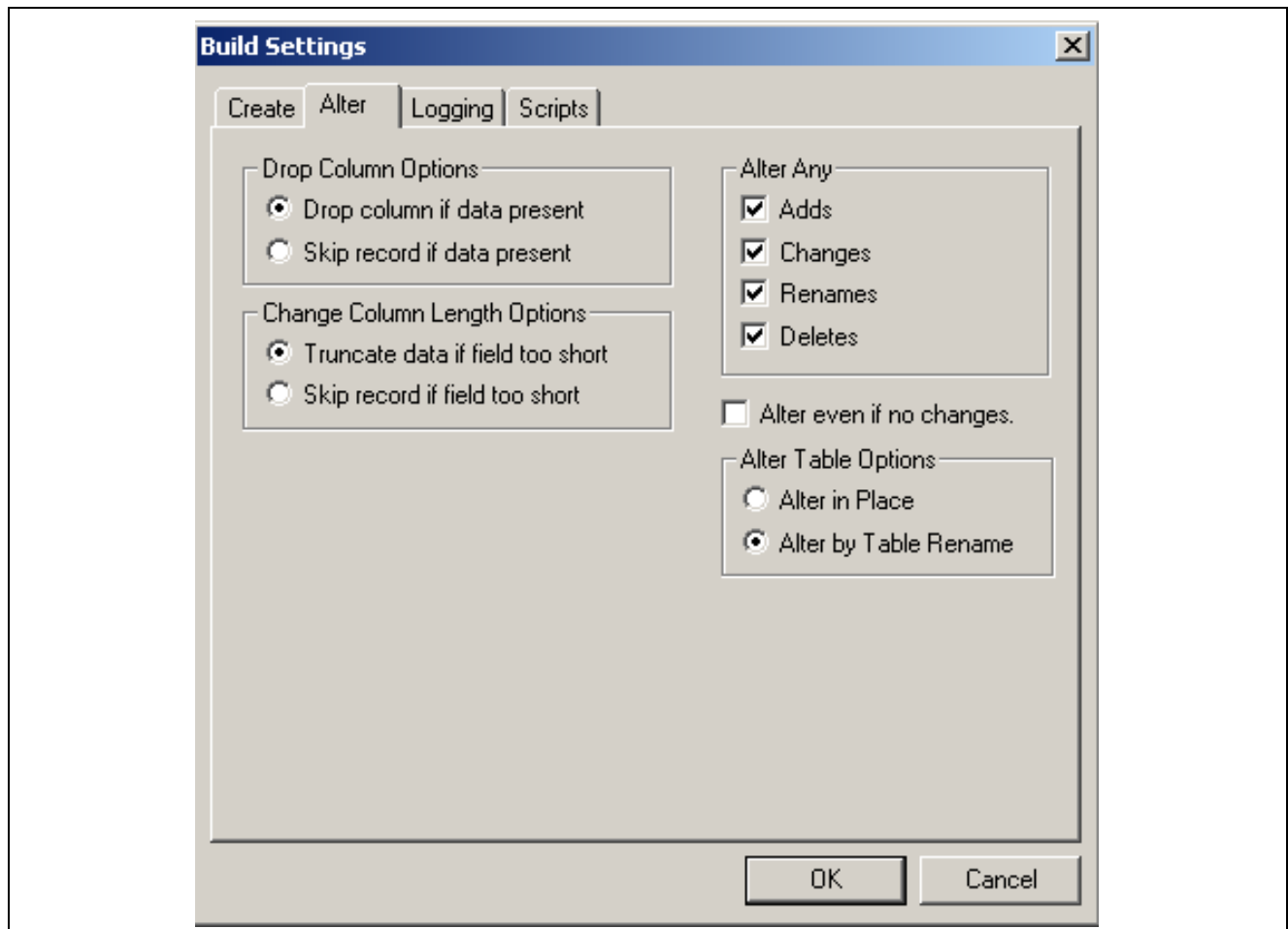


Build Settings dialog box: Scripts tab

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.

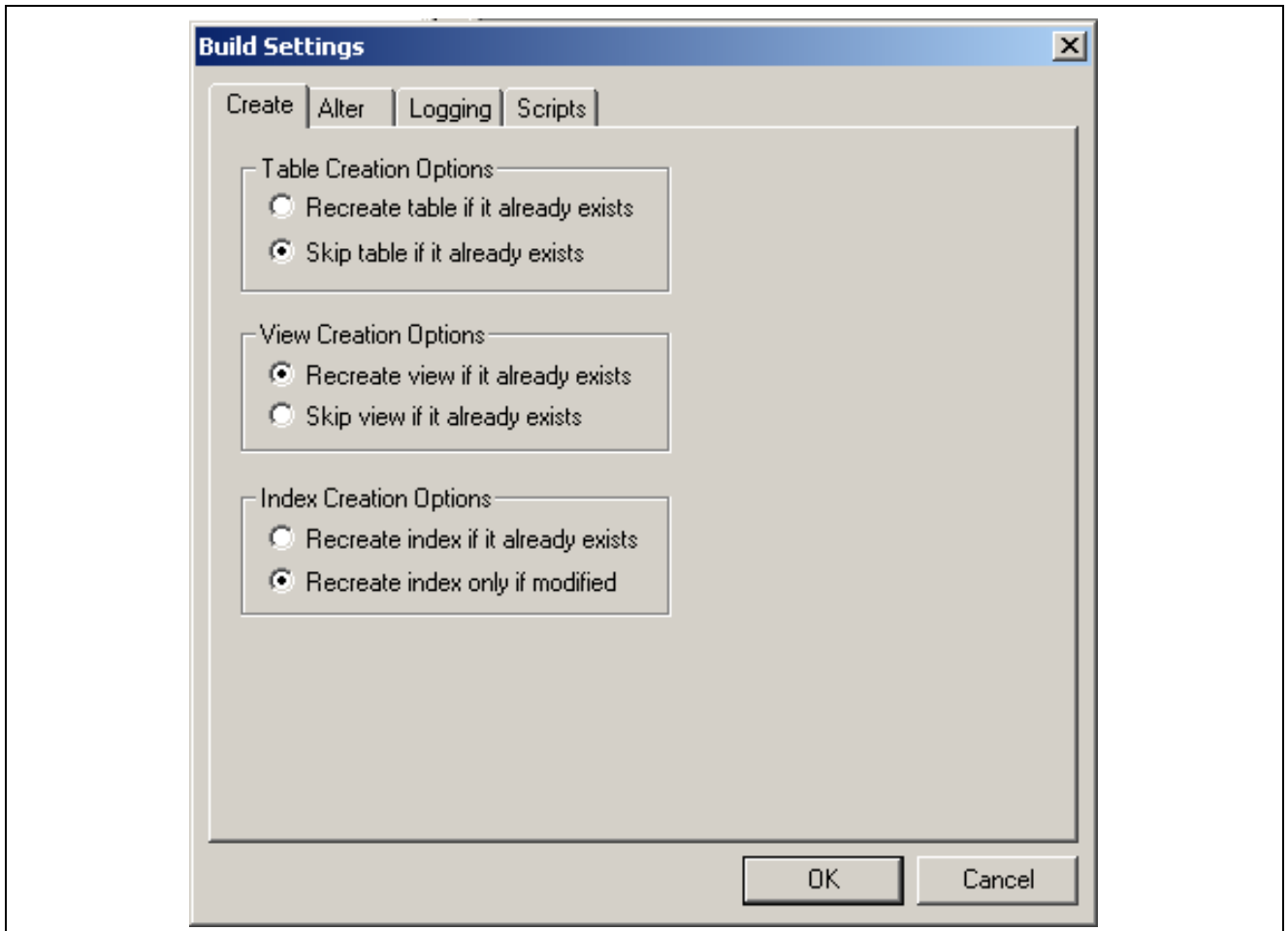
Drop column if data present should be selected in the Drop Column Options region, and Truncate data if field too short should be selected in the Change Column Length Options region.

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.

CHAPTER 8A

Configuring the Application Server on Windows

This chapter discusses:

- Understanding the Application Server
- Prerequisites
- Setting Up COBOL for Remote Call
- Verifying Database Connectivity
- Creating, Configuring, and Starting an Initial Application Server Domain
- Configuring Asian Language Fonts

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 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 under "Other Products".

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, 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 Server Domain Configurations.

See *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*, "Working with Server Domain Configurations."

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

"Using the PeopleSoft Installer," Understanding PeopleSoft Servers

"Setting Up Process Scheduler on Windows," Starting Process Scheduler as a Windows Service

Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration, "Using PSADMIN Menus"

Enterprise PeopleTools 8.51 PeopleBook: Data Management

My Oracle Support, Certifications

"Setting Up the Install Workstation"

"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 10gR3.

See "Installing Additional Components."

- Granted authorization to a PeopleSoft user ID to start the application server. User ID: VP1 for Enterprise Performance Management and Financials/Supply Chain Management, and PS for HRMS, should be delivered with authorization to start the application server.
- 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, and the password for these users is stored in a fairly accessible text file. 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 8A-1: 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 "Compiling COBOL on Windows."

If your application does not contain COBOL programs, you do not need to purchase or compile COBOL.

See *Enterprise PeopleTools 8.51 Hardware and Software Requirements*.

Task 8A-2: 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 Sybase use ISQL or another native SQL interpreter.

Task 8A-3: 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 8A-3-1: Creating, Configuring, and Starting the Application Server Domain

To create, configure, and start the application server domain:

1. To run PSADMIN, 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 *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*, "Working with Server Domain Configurations."

5. Specify *4* for small if this is your initial domain installation, press ENTER.

See *Enterprise PeopleTools 8.51 PeopleBook: 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	15) DBNAME : [HR84]
2) Quick Server : No	16) DBTYPE : [SYBASE]
3) Query Servers : No	17) UserId : [QEDM0]
4) Jolt : Yes	18) UserPswd : [QEDM0]
5) Jolt Relay : No	19) DomainID : [TESTSERV]
6) WSL : No	20) AddToPATH : [D:\Apps\db⇒
\Sybase150\OCS-15_0\dll]	
7) PC Debugger : No	21) ConnectID : [people]
8) Event Notification : Yes	22) ConnectPswd : [people]
9) MCF Servers : No	23) ServerName : [DSQUERY]
10) Perf Collator : No	24) WSL Port : [7000]
11) Analytic Servers : Yes	25) JSL Port : [9000]
12) Domains Gateway : No	26) JRAD Port : [9100]
Actions =====	
13) Load config as shown	
14) Custom configuration	
h) Help for this menu	
q) Return to previous menu	

HINT: Enter 15 to edit DBNAME, then 13 to load

Enter selection (1-26, 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, type the new value, and press ENTER.

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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft MultiChannel Framework*, "Configuring REN Servers."

11. Enter 20 for the feature AddToPATH, and enter the path to the Sybase open client dll directory. For example:

C:\Apps\db\Sybase150\OCS-15_0\dll

12. 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.

13. 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.
14. To start the application server (whether you installed a REN server or not), select *1*, Boot this domain, from the PeopleSoft Domain administration menu.
 15. 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.

16. If you plan to continue with PIA installation and testing, do not shut down the application server at this time.
17. 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 8A-3-2: Testing the Three-Tier Connection

If you get an error message when you try to start the application server, 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 8.51, 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. If you do not enter a value, the default value PS is entered.

This password is required when you use three-tier mode in Application Designer to connect to the application server. If you do not set the Domain Connection Password in Configuration Manager or in the Application Server configuration file, the default value PS is used when you sign in to Application Designer in three-tier mode.

See *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*, "Using PeopleSoft Configuration Manager."

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 8.51, 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 (either the default value or one set by the user), 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 8A-3-3: 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 8.51, 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 PSADMIN.

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

- 1) Application Server
- 2) Process Scheduler
- 3) Search Server
- 4) Service Setup
- q) Quit

Command to execute (1-4, q): 1

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\8.51
```

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 8A-3-4: 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 PSADMIN.
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 tmlodcf 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 *Enterprise PeopleTools 8.51 PeopleBook: 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 *Enterprise PeopleTools 8.51 PeopleBook: 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 8A-3-5: 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

Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration

Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft MultiChannel Framework

Task 8A-4: Configuring Asian Language Fonts

For text that is rendered by the Java Virtual Machine on the application server (for example, charting) the appropriate fonts must be available on the system. If characters are missing or fail to display after installation, additional configuration may be needed. Fonts are defined with a logical name (such as psjvm.1) in the database, and a system font name (such as HGGothic) on the application server. Mappings between the logical name and the system font name are defined on the application server in *PS_HOME\class\PSOFTFonts.properties*. These mappings generally do not need to be specified for non-Asian languages.

Note. psjvm.1 is used by default.

The information that follows is an example of the Japanese entries on Microsoft Windows:

```
ps.lang.1=JPN
JPN.psjvm.1=MS Mincho
JPN.psjvm.2=MS Gothic
```

In the example above, 'psjvm.1' and 'psjvm.2' can be used in charting style classes.

See Also

Enterprise PeopleTools 8.51 PeopleBook: PeopleCode API Reference, "Charting Class"

CHAPTER 8B

Configuring the Application Server on UNIX

This chapter discusses:

- Understanding the Application Server
- Understanding the Application Server Domain Processes
- Prerequisites
- Setting Environment Variables
- Setting Up COBOL for Remote Call
- Verifying Database Connectivity
- Creating, Configuring, and Starting an Initial Application Server Domain
- Configuring Asian Language Fonts

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 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 application servers for the PeopleSoft installation on several UNIX and Linux operating system platforms. For detailed information, consult the certification information on My Oracle Support. The application server support can be found on the certification pages under "Other Products".

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, 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:

```
$HOME/psft/pt/<peopletools_version>
```

See "Preparing for Installation," Defining Server Domain Configurations.

See *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*, "Working with Server Domain Configurations."

Note. If you are connecting to Sybase from HP, then before running an application (such as Data Mover, the Database Configuration Wizard, or PeopleSoft Application Server) verify that your environment variable LC_ALL has a character set of iso88591—for example, american.iso88591. Otherwise, accented characters may appear incorrectly in the PeopleSoft Pure Internet Architecture.

See Also

"Using the PeopleSoft Installer," Understanding PeopleSoft Servers

Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration, "Using PSADMIN Menus"

Enterprise PeopleTools 8.51 PeopleBook: Data Management

My Oracle Support, Certifications

"Setting Up the Install Workstation"

"Compiling COBOL on UNIX"

Understanding the Application Server Domain Processes

On most platforms (AIX, Solaris, and HP-UX) no changes are required from the system defaults, in order to allow the “small” and “development” domains that are shipped with PeopleSoft PeopleTools to boot successfully.

Refer to the performance documentation for guidance in configuring your system to run larger domains. That document describes the suggested minimum kernel settings for running PeopleSoft PeopleTools in a real-world environment.

See PeopleTools Performance Guidelines White Paper on My Oracle Support.

Permanently changing system-wide parameters generally requires root privileges, and any changes to the kernel configuration of your operating system should be done with care.

If you are installing PeopleSoft PeopleTools 8.50 or higher on HP-UX 11.31, be aware that hosts with machine names longer than 8 characters require the HP-UX kernel configuration `uname_eoverflow` to be set to 0 (zero).

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 10gR3.

See "Installing Additional Components."

- Granted authorization to a PeopleSoft user ID to start the application server. User ID: VP1 for Enterprise Performance Management and Financials/Supply Chain Management, and PS for HRMS, should be delivered with authorization to start the application server.
- 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>'
```

- HP-UX only: Ensure that the locale is set correctly.

If your application server is installed on HP-UX, and your database platform is Sybase, you must modify the locales.dat file. Open the file \$\$SYBASE/locales/locales.dat in a text editor. In the section [hp ux] change the line

```
locale = default, us_english, roman8
to
locale = default, us_english, iso_1
```

Note. Installers typically use VP1 or PS to test the application server, and the password for these users is stored in a fairly accessible text file. 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 8B-1: Setting Environment Variables

Telnet to your UNIX system. Log in and ensure the following environment variables are set appropriately.

Note. The environment variables for Tuxedo must be set explicitly; they are not set by running psconfig.sh. These can be also set using the .profile file in the user's home directory.

- \$TUXDIR must be set to the correct Oracle Tuxedo installation directory. For example:

```
TUXDIR=/home/user/Oracle/tuxedo10gR3; export TUXDIR
```

- \$TUXDIR/lib must be prepended to LD_LIBRARY_PATH, LIBPATH, or SHLIB_PATH, whichever is appropriate for your platform. For example:

```
LD_LIBRARY_PATH=$TUXDIR/lib:$LD_LIBRARY_PATH; export LD_LIBRARY_PATH
```

- \$TUXDIR/bin must be prepended to PATH. For example:

```
PATH=$TUXDIR/bin:$PATH; export PATH
```

One method to ensure that the following PeopleSoft environment variables are set is to source psconfig.sh. Go to the *PS_HOME* directory, and enter the following command:

```
. ./psconfig.sh
```

Alternatively you can make sure the following environment variables are set in the .profile file in the user's home directory:

- \$SYBASE, \$SYBASE_ASE, \$SYBASE_OCS must point to the correct Sybase installation. For example:

```
$SYBASE=/products/sybase/15.0.1;export SYBASE
$SYBASE_ASE=ASE-15_0; export SYBASE_ASE
$SYBASE_OCS=OCS-15_0; export SYBASE_OCS
```

- \$SYBASE/\$SYBASE_ASE/bin and \$SYBASE/\$SYBASE_OCS/bin must be added to PATH.
- \$SYBASE/\$SYBASE_ASE/lib and \$SYBASE/\$SYBASE_OCS/lib must be appended to LD_LIBRARY_PATH, LIBPATH, or SHLIB_PATH, whichever is appropriate for your platform.
- \$DSQUERY must be set to the correct instance.
- \$COBDIR must be set to the Server Express installation directory. For example:

```
COBDIR=/cobol/prod/svrexpress-5.1_wp4;export COBDIR
```

- \$COBDIR/bin must be appended to the PATH; for example:

```
PATH=$PATH:$COBDIR/bin;export PATH
```

- \$COBDIR/lib must be appended to LD_LIBRARY_PATH, LIBPATH, or SHLIB_PATH, whichever is appropriate for your platform. For example:

```
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$COBDIR/lib;export LD_LIBRARY_PATH
LIBPATH=$LIBPATH:$COBDIR/lib;export LIBPATH
SHLIB_PATH=$SHLIB_PATH:$COBDIR/lib;export SHLIB_PATH
```

Task 8B-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 "Compiling COBOL on UNIX."

If your application does not contain COBOL programs, you do not need to purchase or compile COBOL.

See *Enterprise PeopleTools 8.51 Hardware and Software Requirements*.

Task 8B-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 Sybase use ISQL or another native SQL interpreter.

Task 8B-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 8B-4-1: Creating, Configuring, and Starting the Application Server Domain

To create, configure, and start the application server domain:

1. To run PSADMIN, 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 characters or less. The domain name is used to create a directory name under the *PS_CFG_HOME/appserv* directory.

See *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*, "Working with Server Domain Configurations."

5. Specify *4* for small if this is your initial domain installation, press ENTER.

See *Enterprise PeopleTools 8.51 PeopleBook: 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      15) DBNAME           : [HR84]
2) Quick Server        : No      16) DBTYPE           : [SYBASE]
3) Query Servers       : No      17) UserId           : [VP1]
4) Jolt                : Yes     18) UserPswd         : [VP1]
5) Jolt Relay          : No      19) DomainID         : [TESTSERV]
6) WSL                 : No      20) AddToPATH          : [/products/Sybase⇒
/15.0.1/OCS-15_0/bin]
7) PC Debugger         : No      21) ConnectID        : [people]
8) Event Notification  : Yes     22) ConnectPswd      : [people]
9) MCF Servers         : No      23) ServerName       : [SPSUN1000]
10) Perf Collator      : No      24) WSL Port         : [7000]
11) Analytic Servers   : Yes     25) JSL Port         : [9000]
12) Domains Gateway    : No      26) JRAD Port        : [9100]

```

Actions

=====

- 13) Load config as shown
- 14) Custom configuration
- h) Help for this menu
- q) Return to previous menu

HINT: Enter 15 to edit DBNAME, then 13 to load

Enter selection (1-26, 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, type the new value, and press ENTER.

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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft MultiChannel Framework*, "Configuring REN Servers."

11. Enter 20 for the feature AddToPATH, and enter the path to the Sybase bin directory. For example:

```
/products/Sybase/15.0.1/OCS-15_0/bin
```

12. 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.
13. 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.
14. To start the application server (whether you installed a REN server or not), select *1*, Boot this domain, from the PeopleSoft Domain administration menu.
15. 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.

16. If you plan to continue with PIA installation and testing, do not shut down the application server at this time.
17. 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 8B-4-2: Testing the Three-Tier Connection

If you get an error message when you try to start the application server, 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 8.51, 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. If you do not enter a value, the default value PS is entered.

This password is required when you use three-tier mode in Application Designer to connect to the application server. If you do not set the Domain Connection Password in Configuration Manager or in the Application Server configuration file, the default value PS is used when you sign in to Application Designer in three-tier mode.

See *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*, "Using PeopleSoft Configuration Manager."

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 *I*, Boot this domain, from the PeopleSoft Domain administration menu. Select option *I*, Boot (Serial Boot) or 2, Parallel Boot, from the PeopleSoft Domain Boot menu.

10. Select Start, Programs, PeopleTools 8.51, 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 (either the default value or one set by the user), 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 8B-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 8.51, 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 PSADMIN.

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
-----
```

- ```
1) Application Server
2) Process Scheduler
3) Search Server
q) Quit
```

Command to execute (1-3, q): 1

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  
:/home/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: /home/JSMITH/pseopletools/8.51

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 8B-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 PSADMIN.
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 tmlodcf 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 *Enterprise PeopleTools 8.51 PeopleBook: 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 *Enterprise PeopleTools 8.51 PeopleBook: 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 8B-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 the PSADMIN PeopleSoft Domain Administration 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.

Also check that you do not have older Tuxedo releases (such as Tuxedo 6.4) prepended in your PATH or runtime library (LIBPATH, SHLIB\_PATH or LD\_LIBRARY\_PATH, depending on UNIX platform).

### See Also

*Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*

*Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft MultiChannel Framework*

---

## Task 8B-5: Configuring Asian Language Fonts

For text that is rendered by the Java Virtual Machine on the application server (for example, charting) the appropriate fonts must be available on the system. If characters are missing or fail to display after installation, additional configuration may be needed. Fonts are defined with a logical name (such as psjvm.1) in the database, and a system font name (such as HGGothic) on the application server. Mappings between the logical name and the system font name are defined on the application server in `PS_HOME/appserver/classes/PSOFTFonts.properties`. These mappings generally do not need to be specified for non-Asian languages.

---

**Note.** On UNIX, the X11 font packages must be installed.

---

---

**Note.** `psjvm.1` is used by default.

---

The information that follows is an example of the Japanese entries on HP-UX:

```
ps.lang.1=JPN
JPN.psjvm.1=HGGothicB
JPN.psjvm.2=HGMinchoL
```

In the example above, 'psjvm.1' and 'psjvm.2' can be used in charting style classes. Extra fonts and languages can be added if needed.

---

**Note.** *On all UNIX platforms*, the `PS_HOME/jre/lib/fonts.propertiesXXX` file (where XXX represents the locale that the machine is operating under) must contain the mappings for all the fonts that will be used by the application server to generate charts. On most platforms, the default `font.propertiesXXX` files contain mappings only for those fonts most commonly used by each locale. If you wish to generate charts using fonts that are not by default mapped into the `font.propertiesXXX` file for your locale, you must manually modify the default file to include this information. Find the `font.propertiesXXX` files containing the appropriate mapping information, and append that mapping information to the end of the `font.propertiesXXX` file that matches your machine's locale.

---

---

**Note.** *On HP-UX*, the path to the fonts must be entered in the JVM's `font.propertiesXXX` file (where XXX is the locale that the machine is operating under). Each full path must be separated by colons under the setting `hp.fontpath`. This file is located in `PS_HOME/jre/lib`. Following is an example:

```
hp.fontpath=/usr/lib/X11/fonts/ms.st/typefaces:/usr/lib
/X11/fonts/TrueType/japanese.st/typefaces:
```

---

## See Also

*Enterprise PeopleTools 8.51 PeopleBook: PeopleCode API Reference*, "Charting Class"

## 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
- 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 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.

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 the version of the web servers packaged with 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.

---

**Warning!** Do not use GUI mode to install the PeopleSoft Pure Internet Architecture if you want to install on a IBM WebSphere server *and* you are running on a UNIX platform. In this situation, use console mode to set up the PeopleSoft Pure Internet Architecture.

---

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 UNIX or 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 Enterprise Portal have their own installation instructions, which are available on My Oracle Support. For an overview of the various types of portals, consult the following.

See *Enterprise PeopleTools 8.51 PeopleBook: PeopleTools Portal Technologies*.

- *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 *Enterprise 8.51 PeopleBook: Integration Broker Administration*, "Managing Integration 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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft 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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Change Assistant*.

## See Also

*Enterprise PeopleTools 8.51 PeopleBook: Security Administration*

*Enterprise PeopleTools 8.51 PeopleBook: 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 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 to determine whether setting the authentication domain is required for correct operation.

See *Enterprise PeopleTools 8.51 PeopleBook: PeopleTools Portal Technologies*, "Configuring the Portal Environment."

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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft 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: Installing the PeopleSoft Pure Internet Architecture on Oracle WebLogic in GUI Mode

This section describes how to install the PeopleSoft Pure Internet Architecture on Oracle WebLogic.

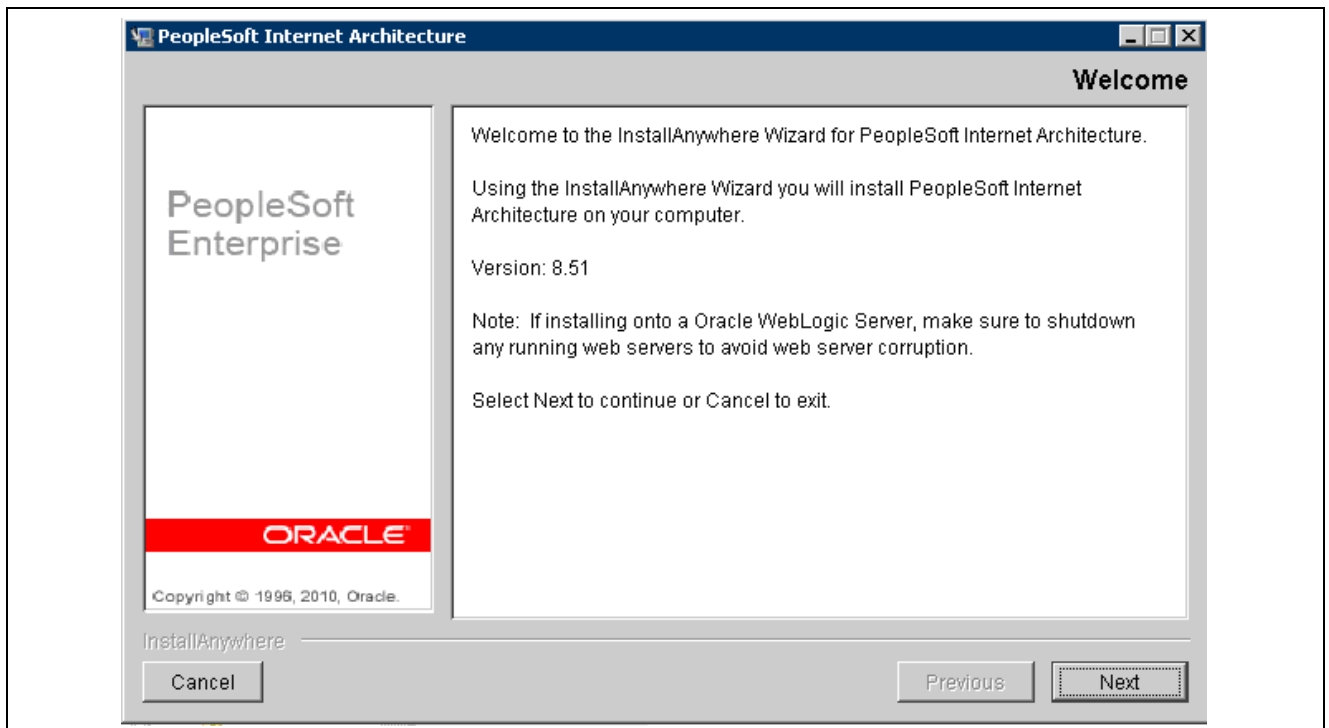
PeopleSoft PeopleTools 8.51 supports 64-bit Oracle WebLogic 10.3.2.

See "Installing Web Server Products," Installing Oracle WebLogic.

See *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*, "Working with BEA WebLogic."

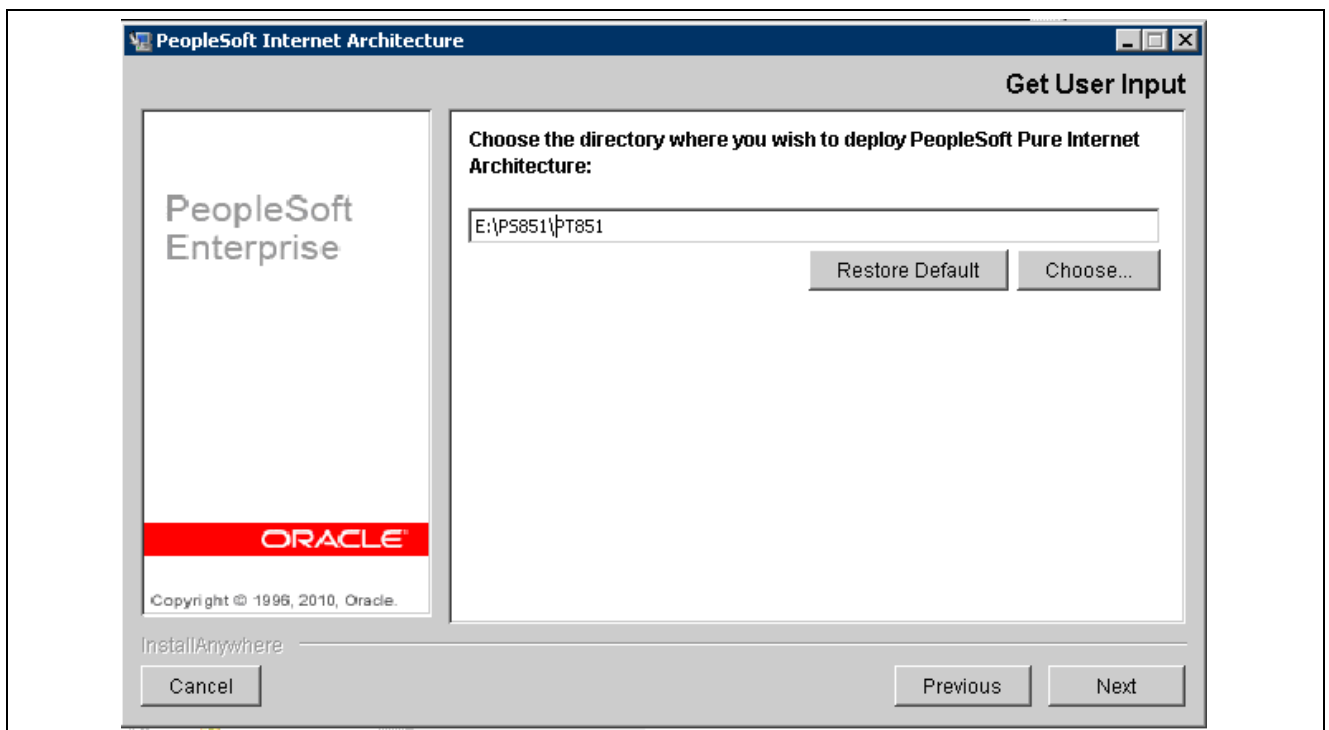
To install the PeopleSoft Pure Internet Architecture on Oracle WebLogic:

1. Go to `PS_HOME\setup\PsmPPIAInstall` and run `setup.bat`.
2. Click Next on the Welcome window.



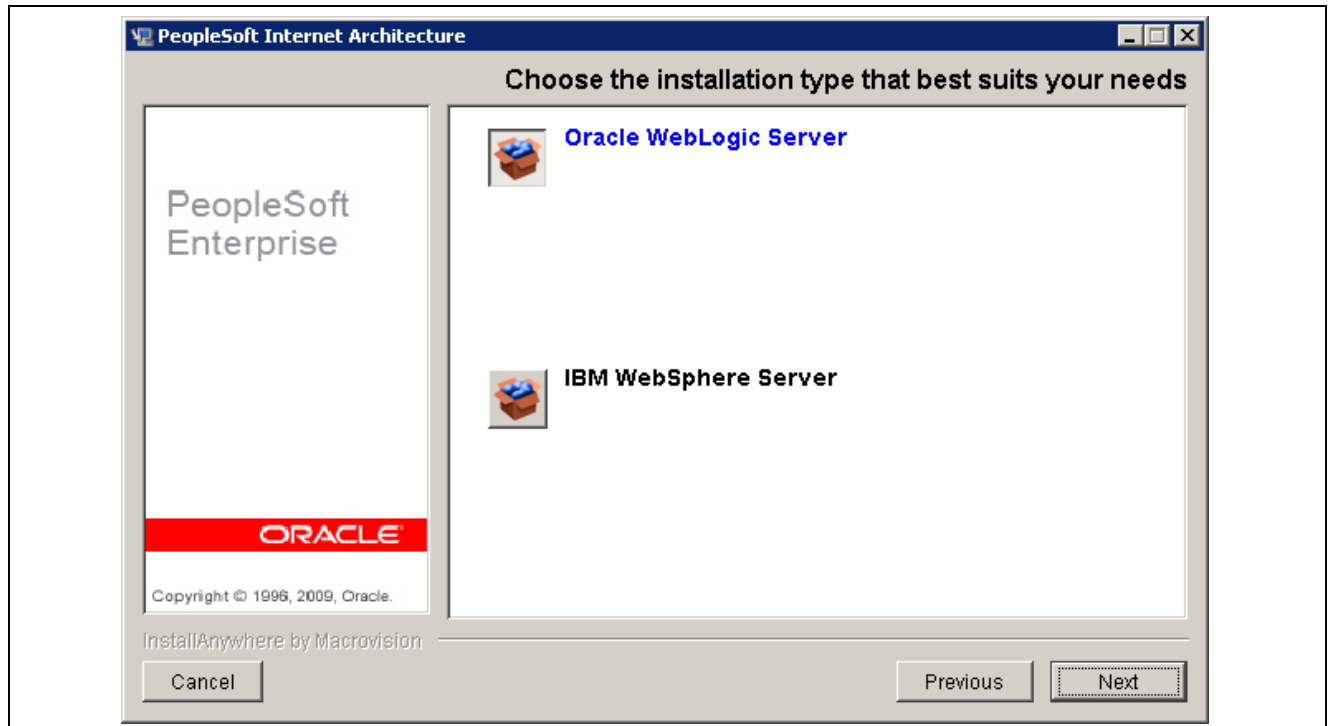
PeopleSoft Internet Architecture Welcome window

3. Enter the location where you want to install the PeopleSoft Pure Internet Architecture, referred to in this documentation as *PIA\_HOME*.



Specifying the installation location for the PeopleSoft Internet Architecture

4. Select Oracle WebLogic Server and click Next.



Selecting the installation type for PeopleSoft Pure Internet Architecture

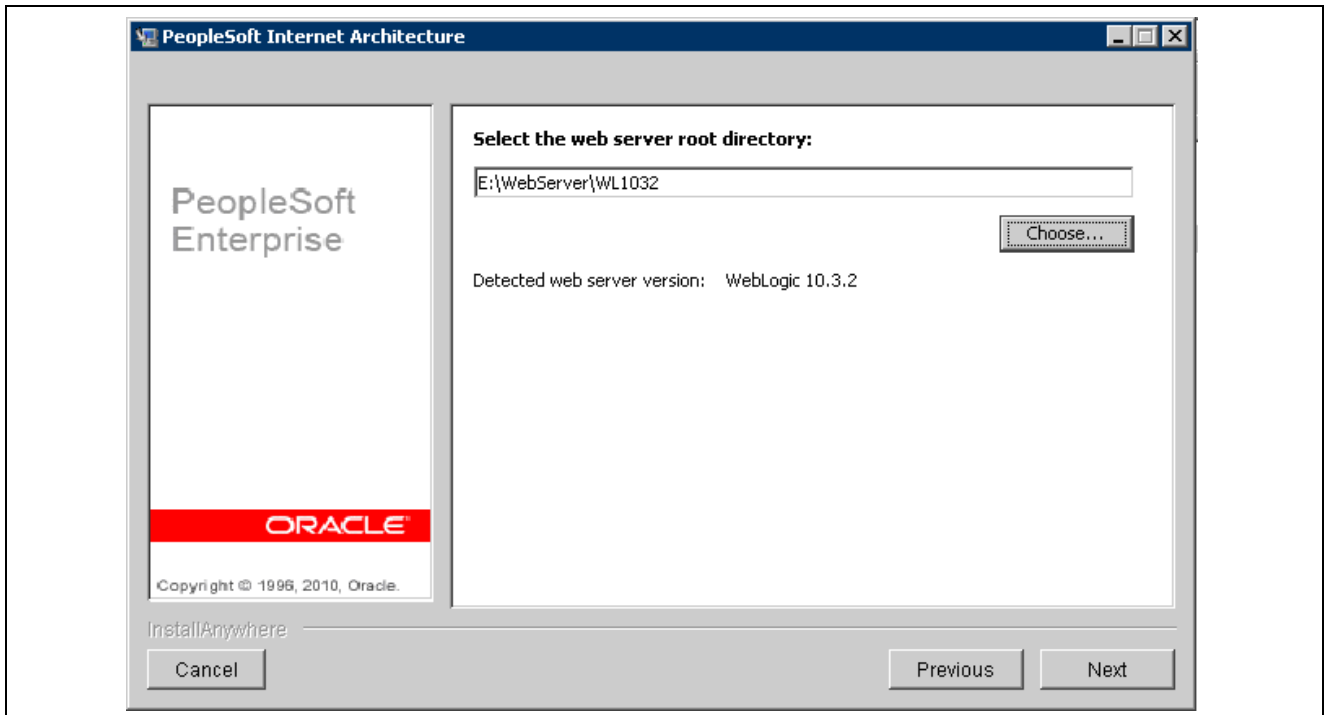
5. Specify the root directory where Oracle WebLogic is installed, *WLS\_HOME*, and click Next.

---

**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 requires 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 domain to be created.

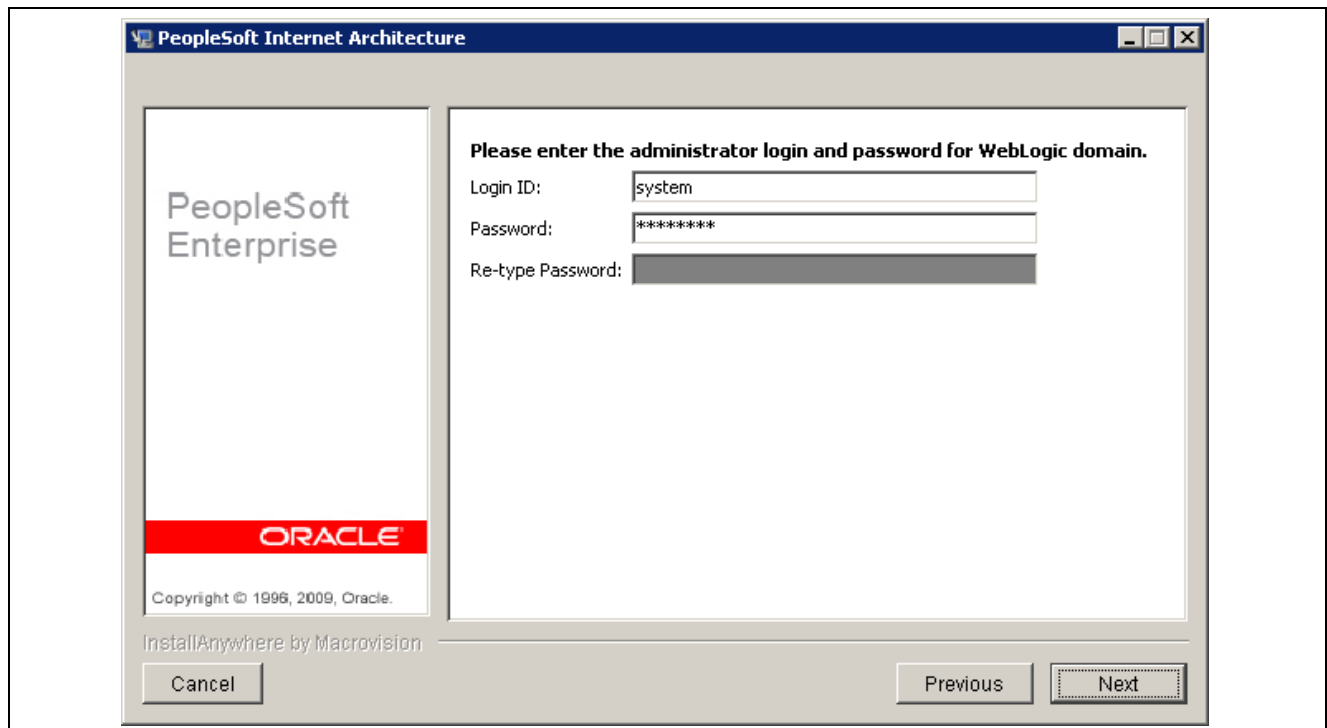
The password must be at least 8 alphanumeric characters with at least one number or special character.

---

**Note.** The default login ID is system, and the default password is Passw0rd (with a capital “P” and zero rather than the letter “o”).

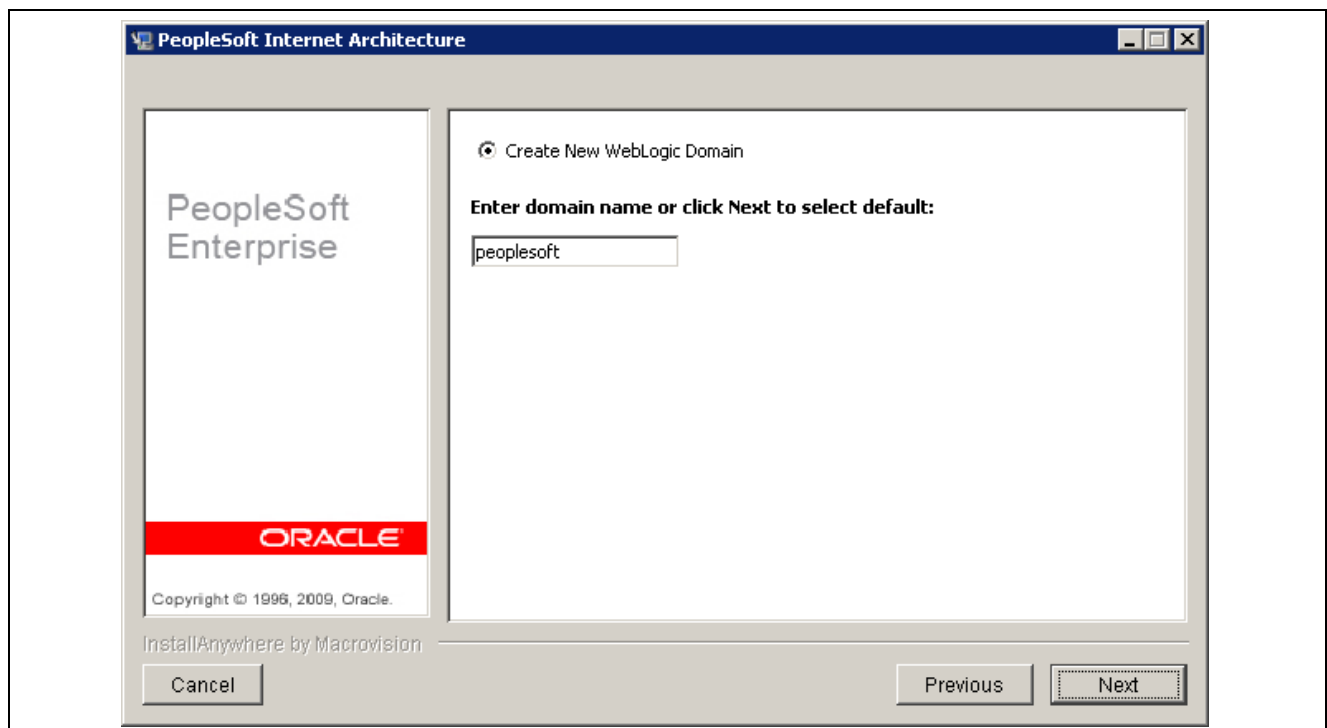
---

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.

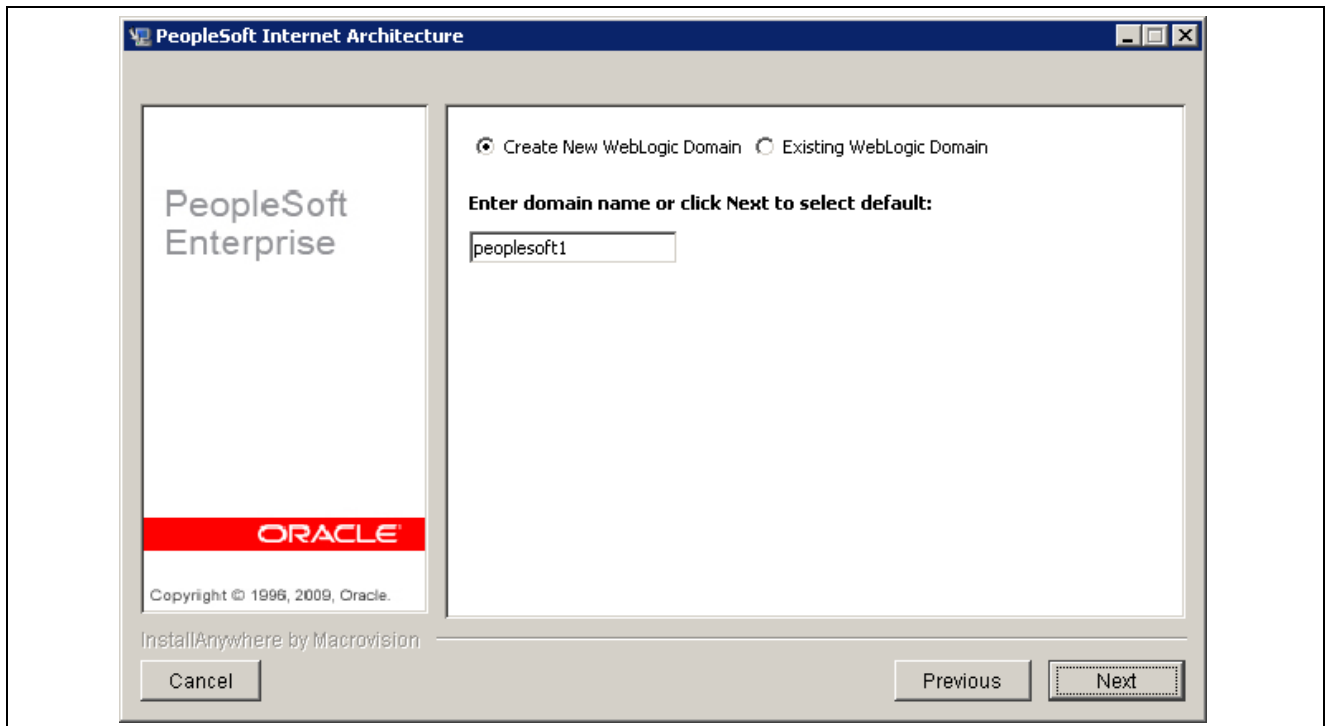


Entering new domain name on the PeopleSoft Internet Architecture window

8. If there are existing Oracle WebLogic domains on your system, select one of the options Create New WebLogic Domain or Existing WebLogic Domain.

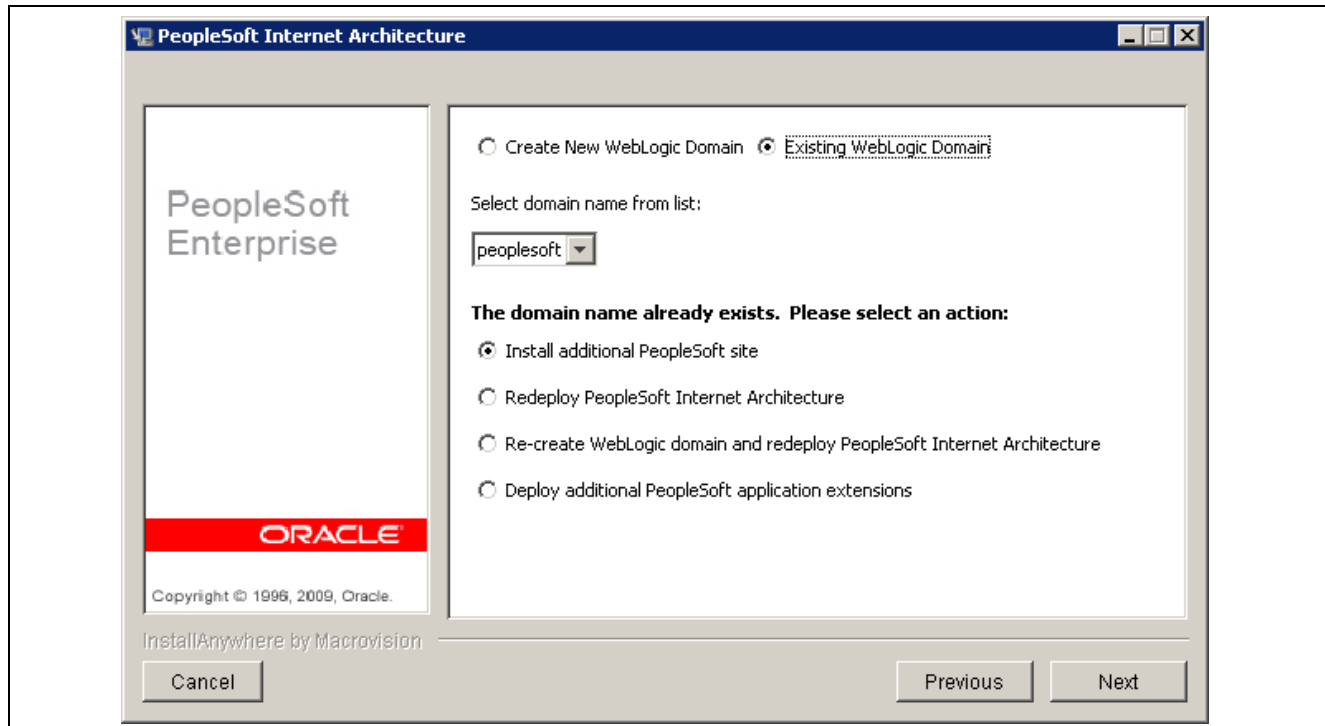
If you select **Create New WebLogic Domain**, the installation process automatically generates a valid domain name in the domain name field.

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.

---

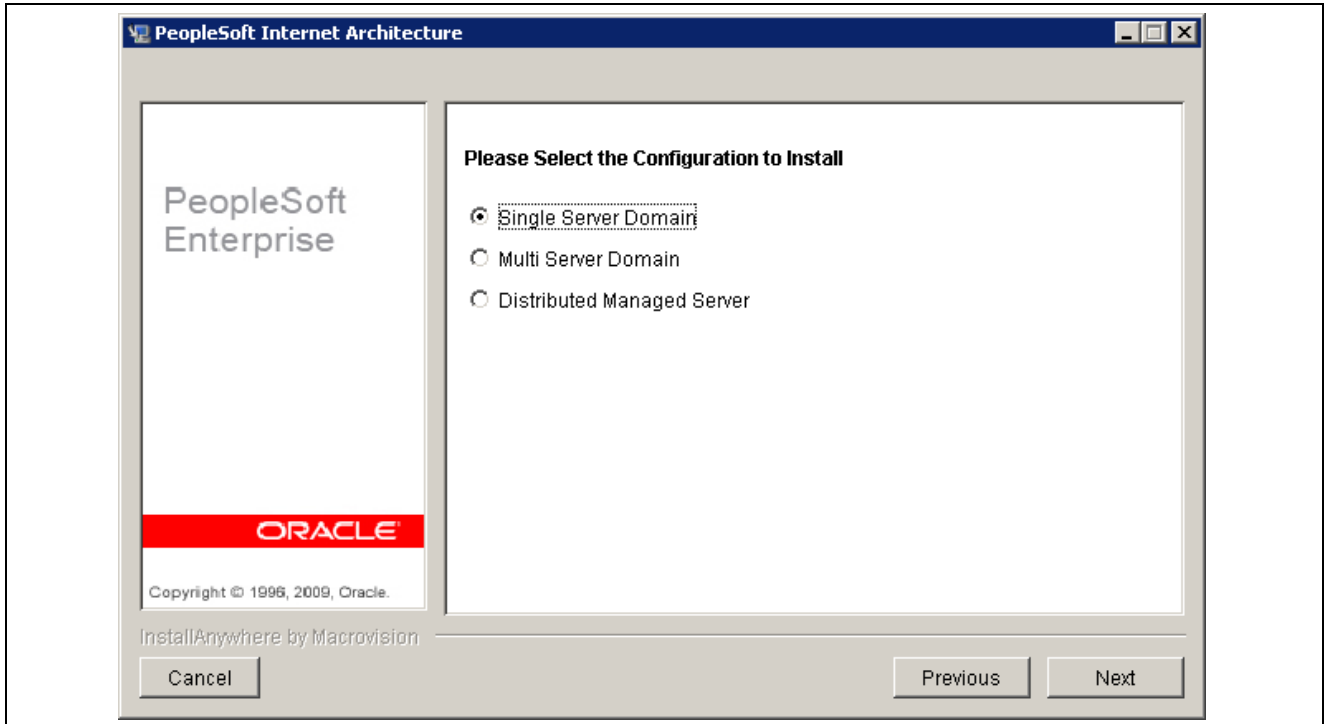
See *Enterprise PeopleTools 8.51 PeopleBook: PeopleTools Portal Technologies*.



- *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 Enterprise application is deployed to it. This configuration is intended for single user or very small scale, nonproduction environments. This configuration is very similar to the Oracle WebLogic domain provided in PeopleSoft PeopleTools 8.40 through 8.44.

- *Multi Server Domain*

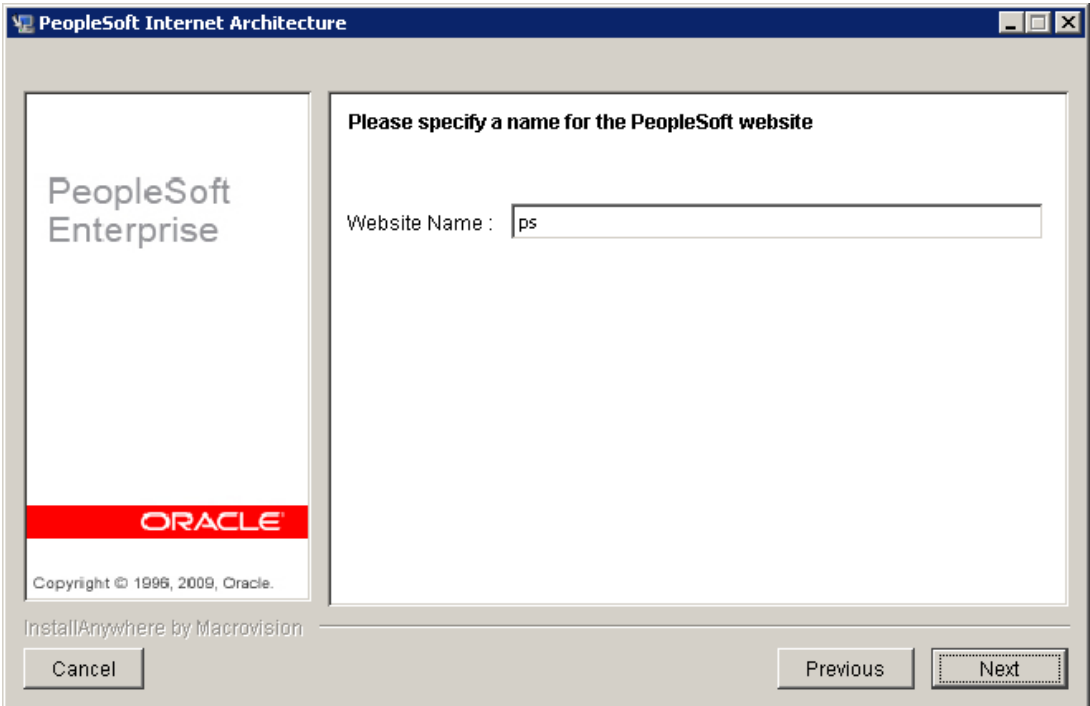
This domain configuration contains seven unique server definitions, a Oracle WebLogic cluster, and the PeopleSoft Enterprise application split across multiple servers. This configuration is intended for a production environment.

- *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.

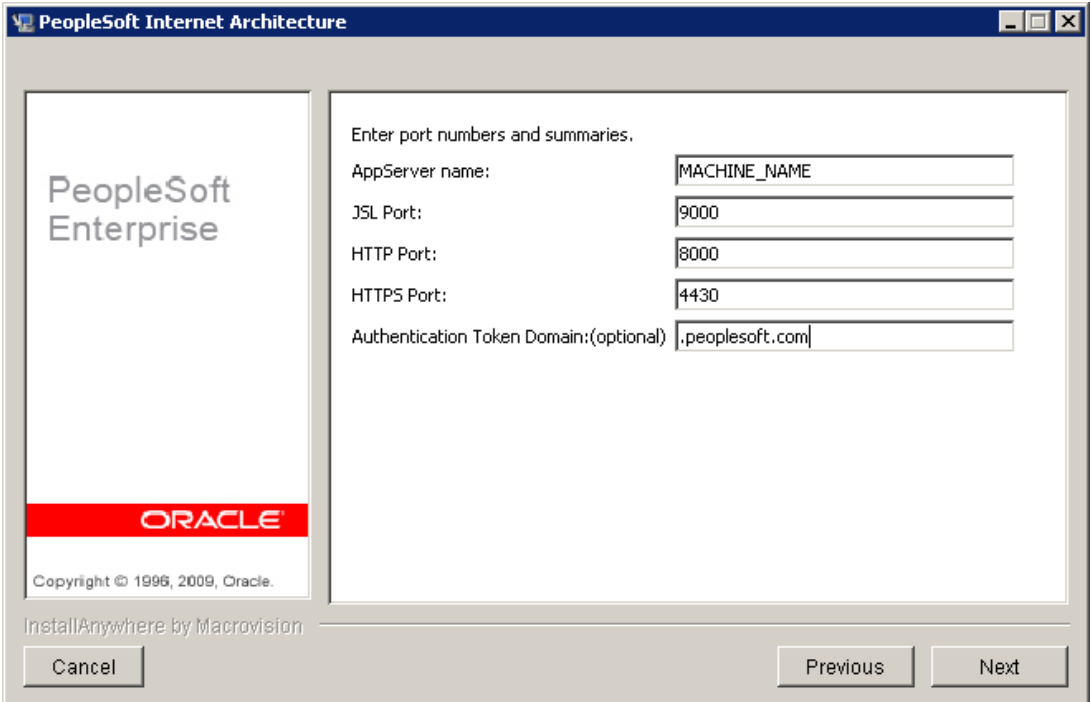
12. Enter a PeopleSoft web site name; the default is ps.

**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

13. 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.

14. Accept the default for the web profile, PROD, or enter another name.

The example below shows the default web profile name, PROD, and user ID, PTWEBSEVER.

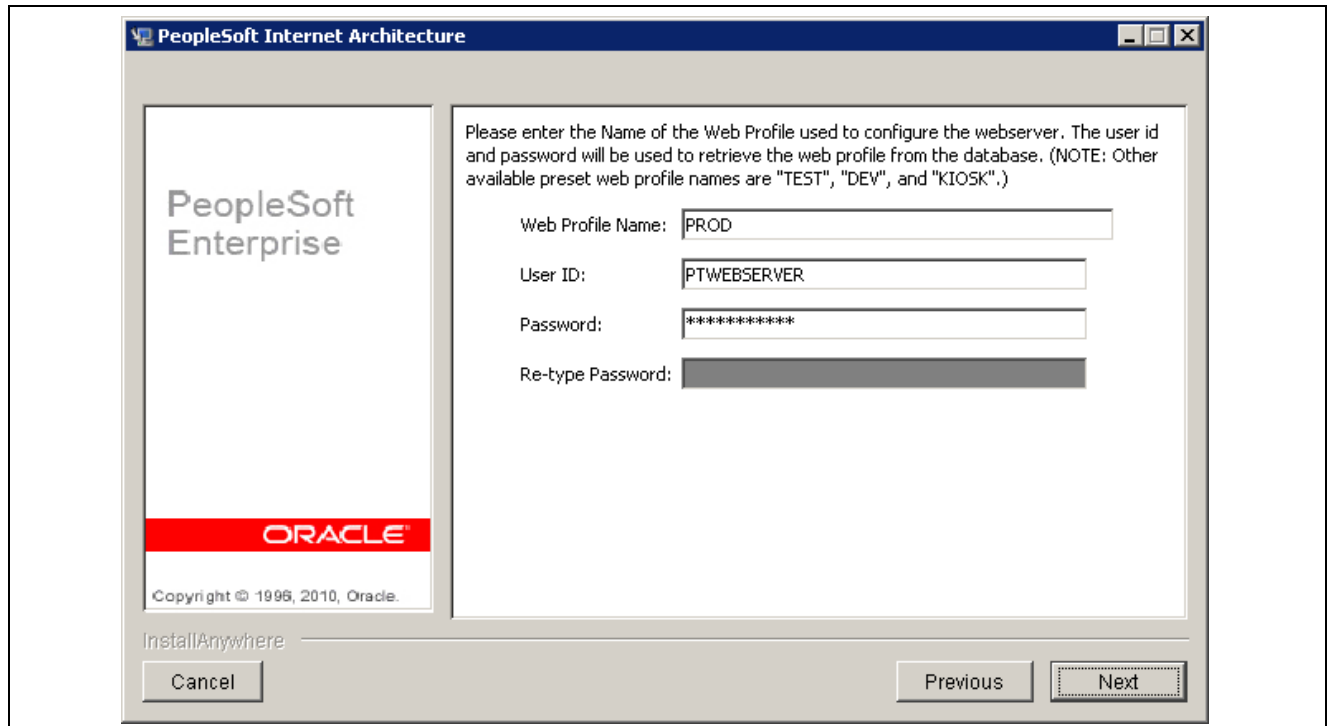
The web profile name will be used to configure this web site. You can specify one of the other predelivered web profiles, DEV, TEST, or KIOSK, or enter a different name. If you intend to use a web profile name other than the default, be sure to review the information on web profile configuration and security.

See *Enterprise PeopleTools 8.51 PeopleBook: Security Administration*, "Encrypting Text With PSCipher."

---

**Note.** If you are upgrading your application database to PeopleSoft PeopleTools 8.44 and above, you must set up the PTWEBSEVER user ID. Go to PeopleTools, Security, User Profiles, User Profiles. Click Add a New Value, enter PTWEBSEVER for User ID, and click Add. Enter and confirm a password, and enter a description. Enter the role *PeopleTools Web Server* and then click Save.

---



Specifying web profile information

15. 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.

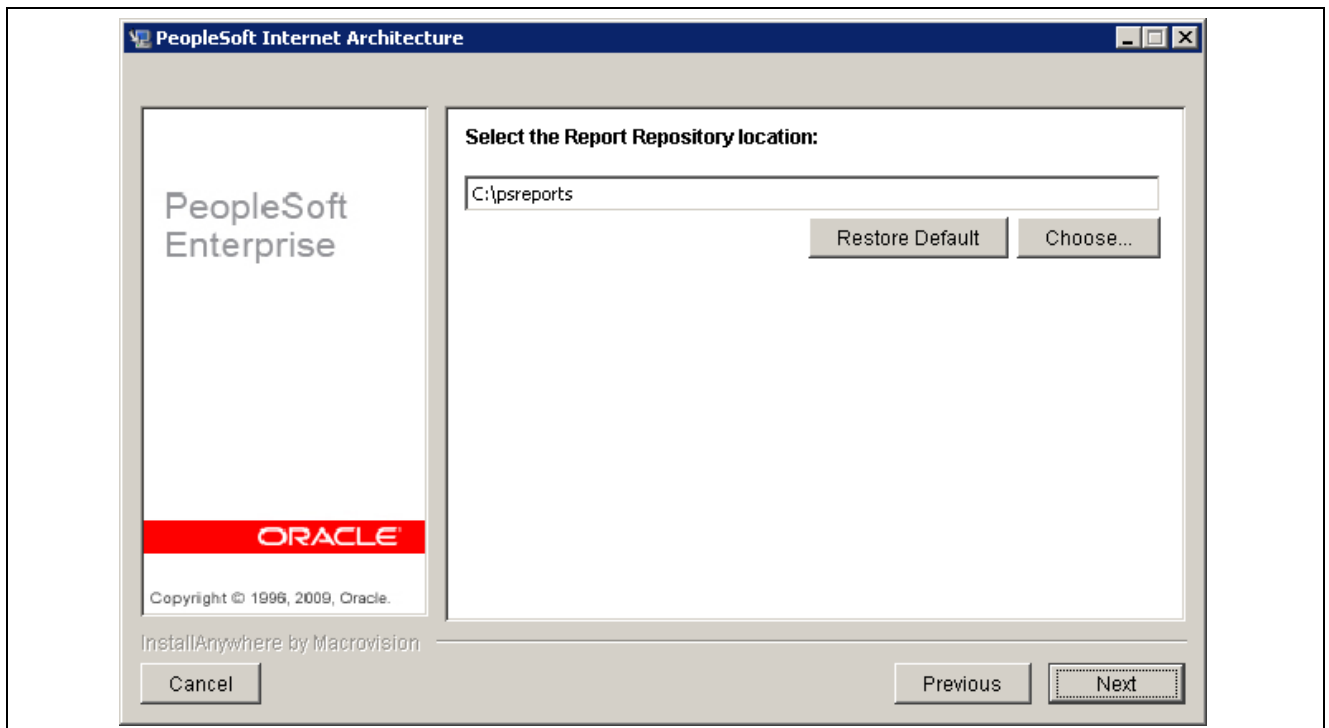
---

**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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleTools Portal Technology*.

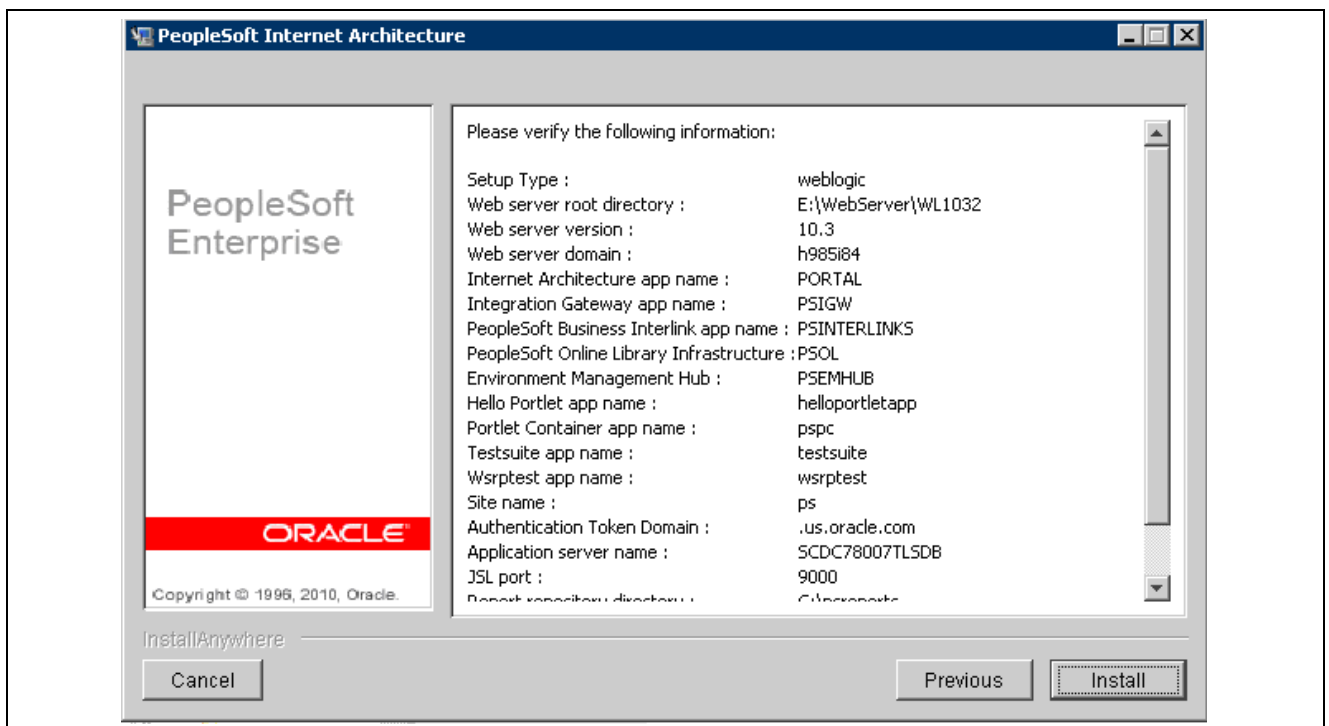
See "Setting Up Process Scheduler on Windows," Setting Up the Process Scheduler to Transfer Reports and Logs to Report Repository.



Specifying the Report Repository location

16. Verify all of your selections (click Back if you need to make any changes), and click Install to begin the installation.

The window summarizes the installation information, such as web server software, web server root directory, version, and so on.



Summary information for the PeopleSoft Internet Architecture installation

An indicator appears showing the progress of your installation.

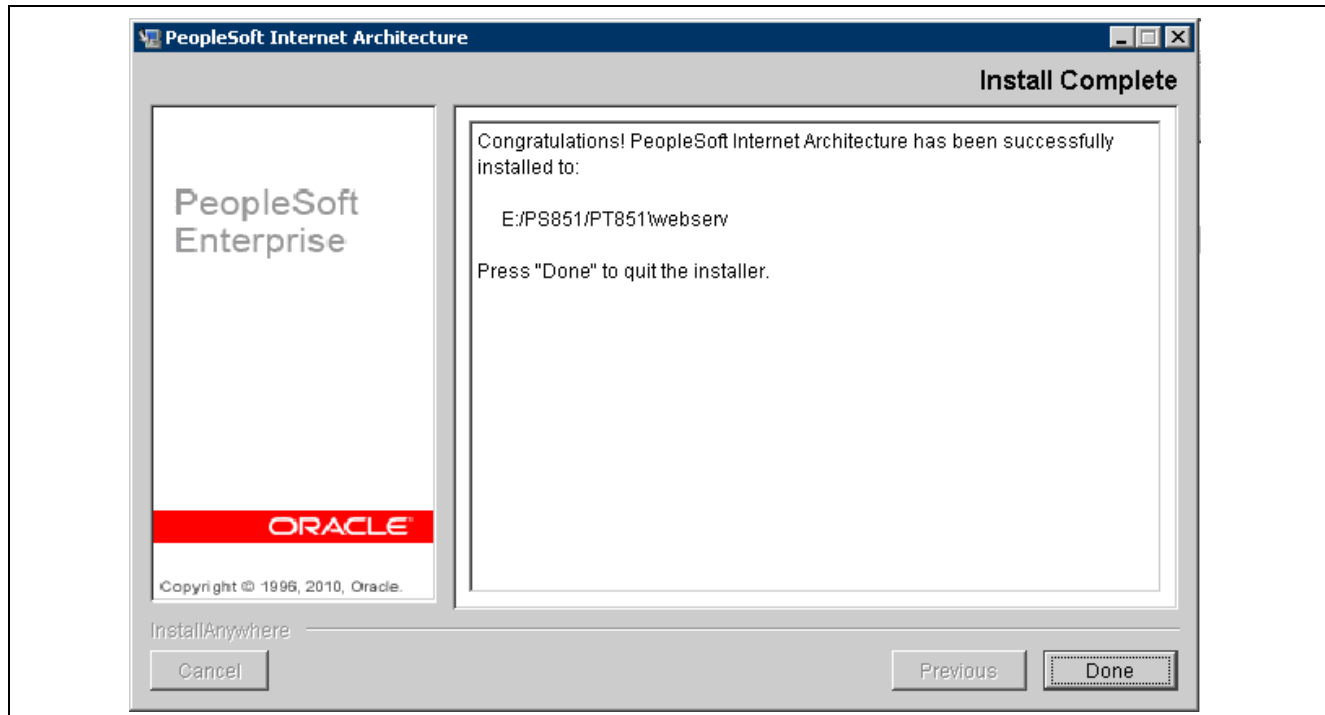
17. Click Finish to complete the installation.

The default installation directory is `<PIA_HOME>\websevr\<domain>\`.

---

**Note.** If you are installing into an existing domain, you need to restart that domain.

---



PeopleSoft Internet Architecture Install Complete window

---

## Task 9A-2: 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 8.51 requires a 64-bit IBM WebSphere ND installation.

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 PIA install again.

## See Also

"Installing Web Server Products," Installing IBM WebSphere Application Server

## Task 9A-2-1: Installing the PeopleSoft Pure Internet Architecture on IBM WebSphere

Before installing the PeopleSoft Pure Internet Architecture (PIA) on IBM WebSphere Application Server Network Deployment, (referred to here as IBM WebSphere ND) you must have installed the IBM WebSphere ND software.

See "Installing Web Server Products," Installing IBM WebSphere Application Server.

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.

---

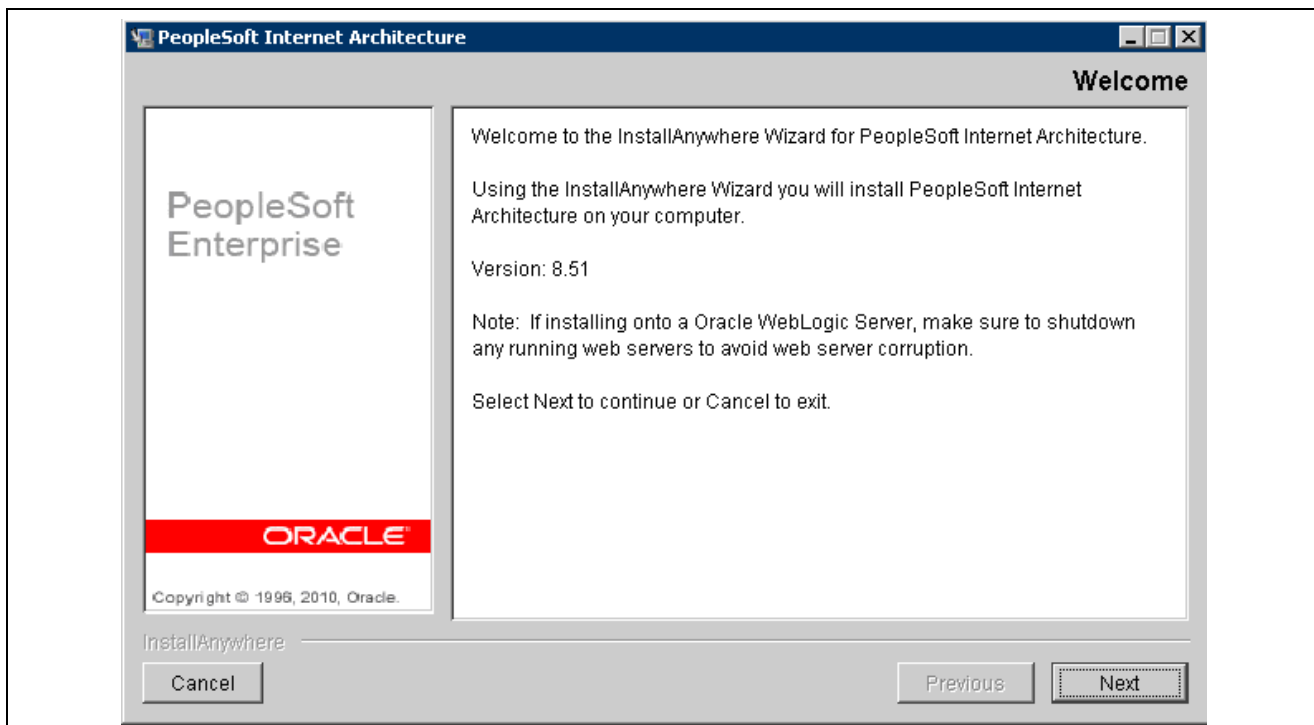
**Note.** Both IBM WebSphere Application Server Network Deployment and PeopleSoft Pure Internet Application need to be installed and deployed using the same user id. Following this requirement avoids any security and profile management issues.

---

To install the PIA on IBM WebSphere ND:

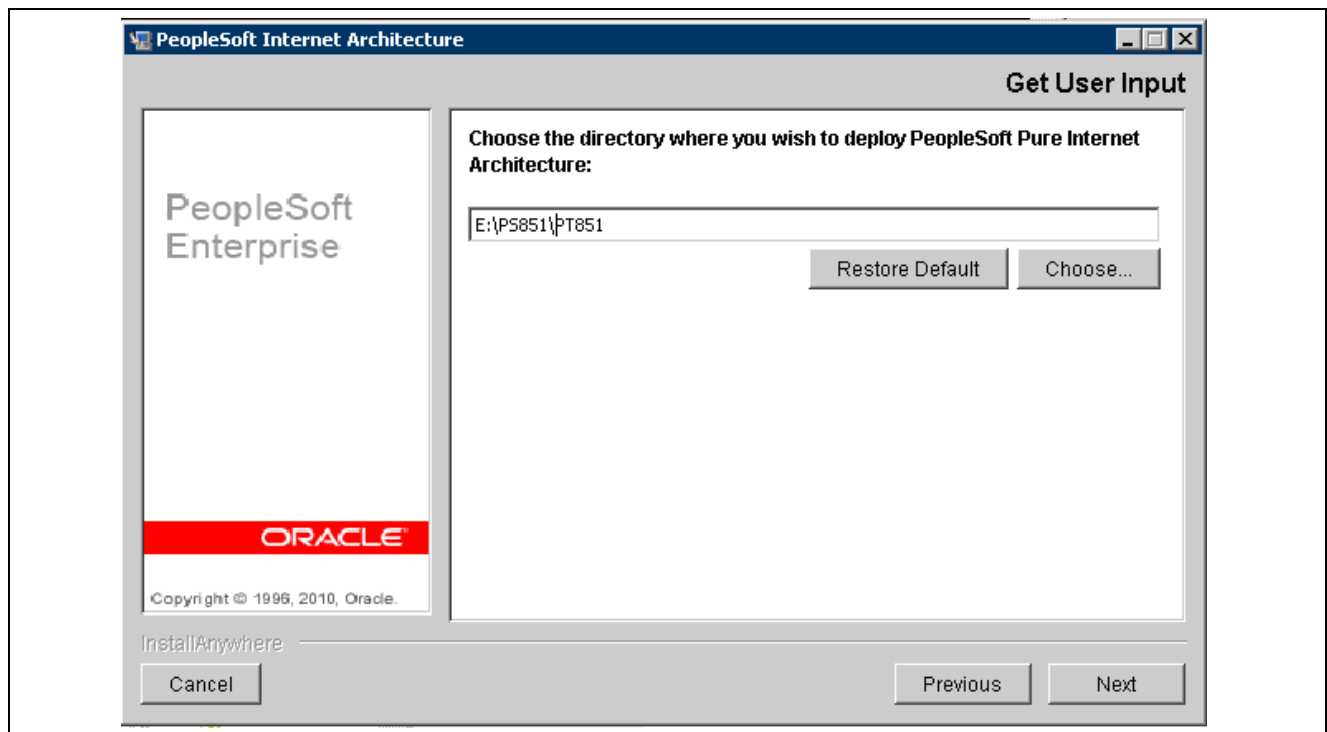
1. Go to *PS\_HOME\setup\PsmPPIAInstall*.
2. Double-click on *setup.bat*.

The Welcome window appears.



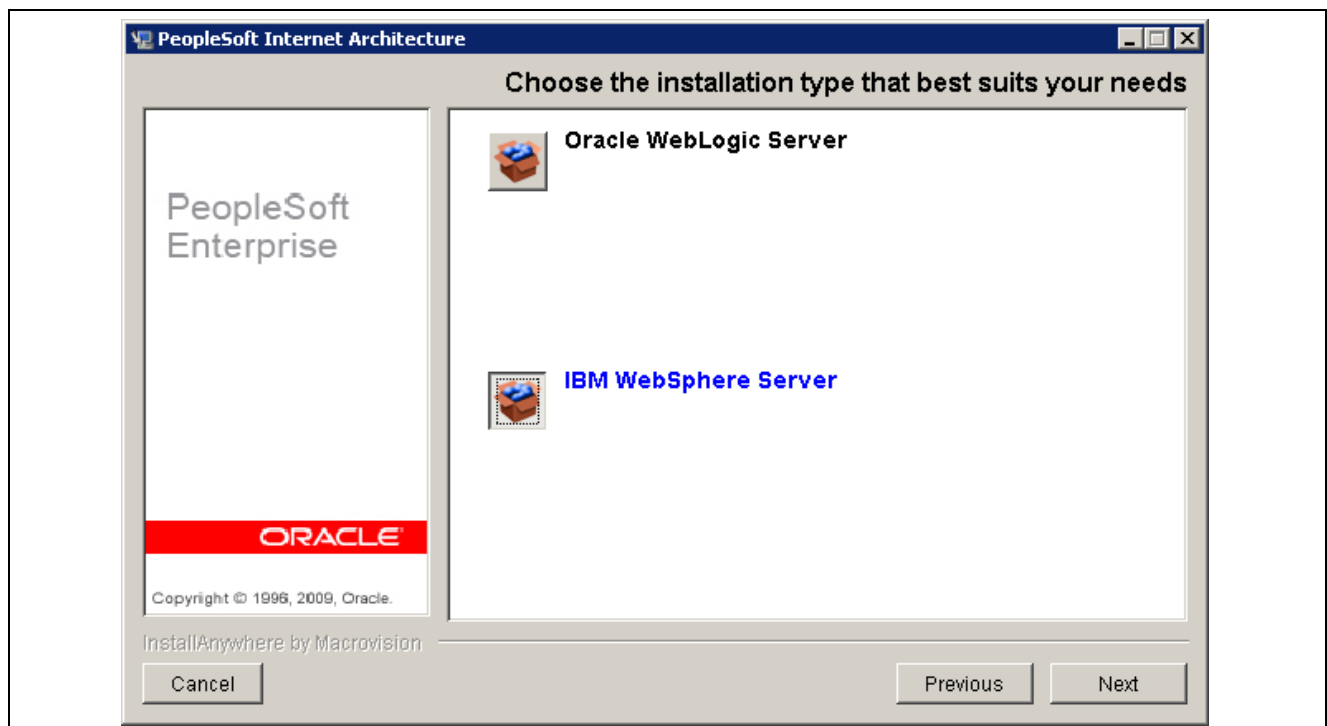
PeopleSoft Internet Architecture Welcome window

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*.



Specifying the installation location for the PeopleSoft Pure Internet Architecture

4. Select the option IBM WebSphere Server and click Next.



Selecting IBM WebSphere Server

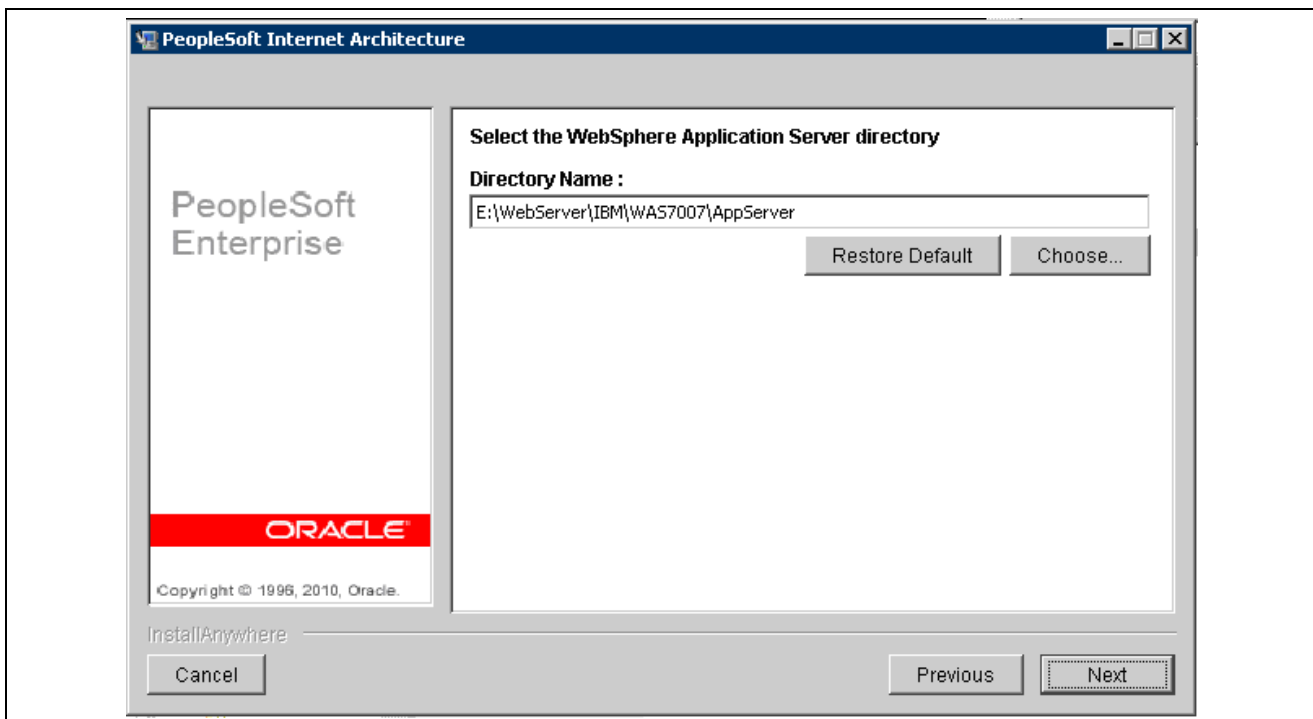
5. Specify the directory where IBM WebSphere ND was installed, referred to as *WAS\_HOME*. Click Next.



---

**Note.** If you specify a 32-bit installation of IBM WebSphere ND, as message appears asking you to confirm the decision. Keep in mind that PeopleSoft PeopleTools requires 64-bit IBM WebSphere ND.

---



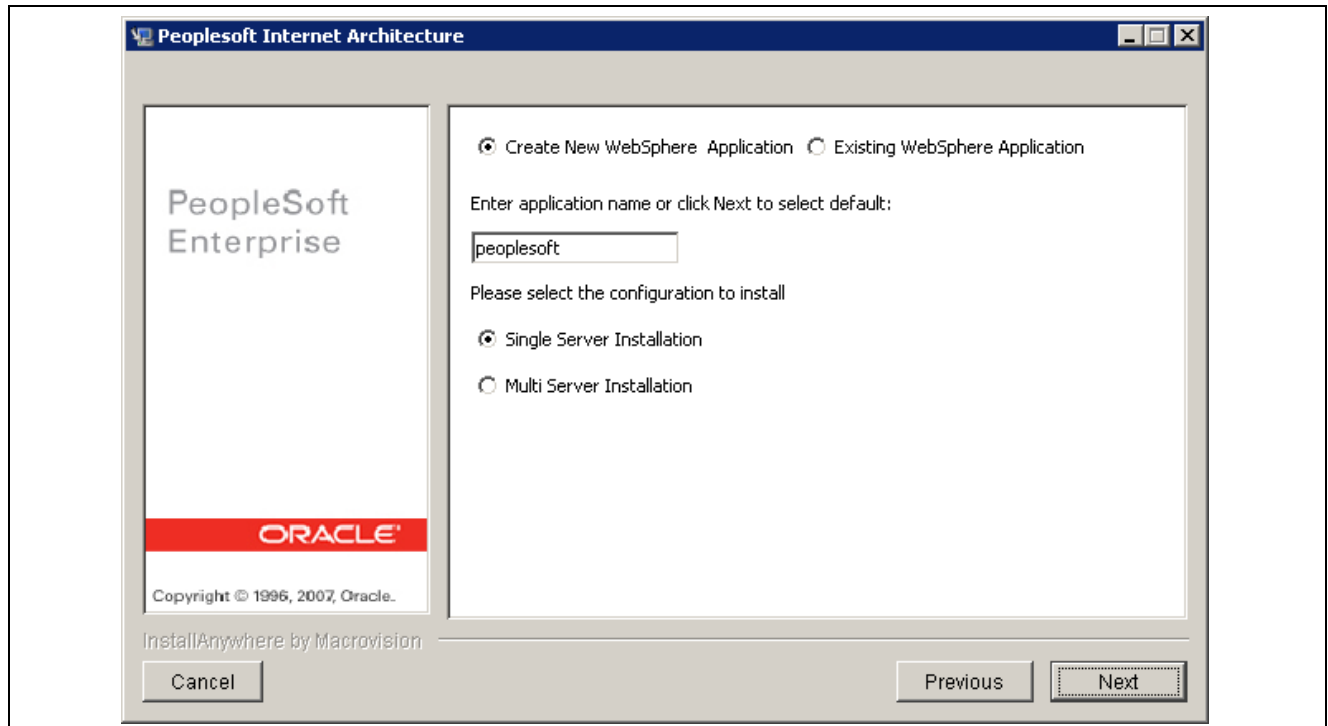
Specifying the IBM WebSphere application server installation directory for the PeopleSoft Internet Architecture

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.

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.

---

#### *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:

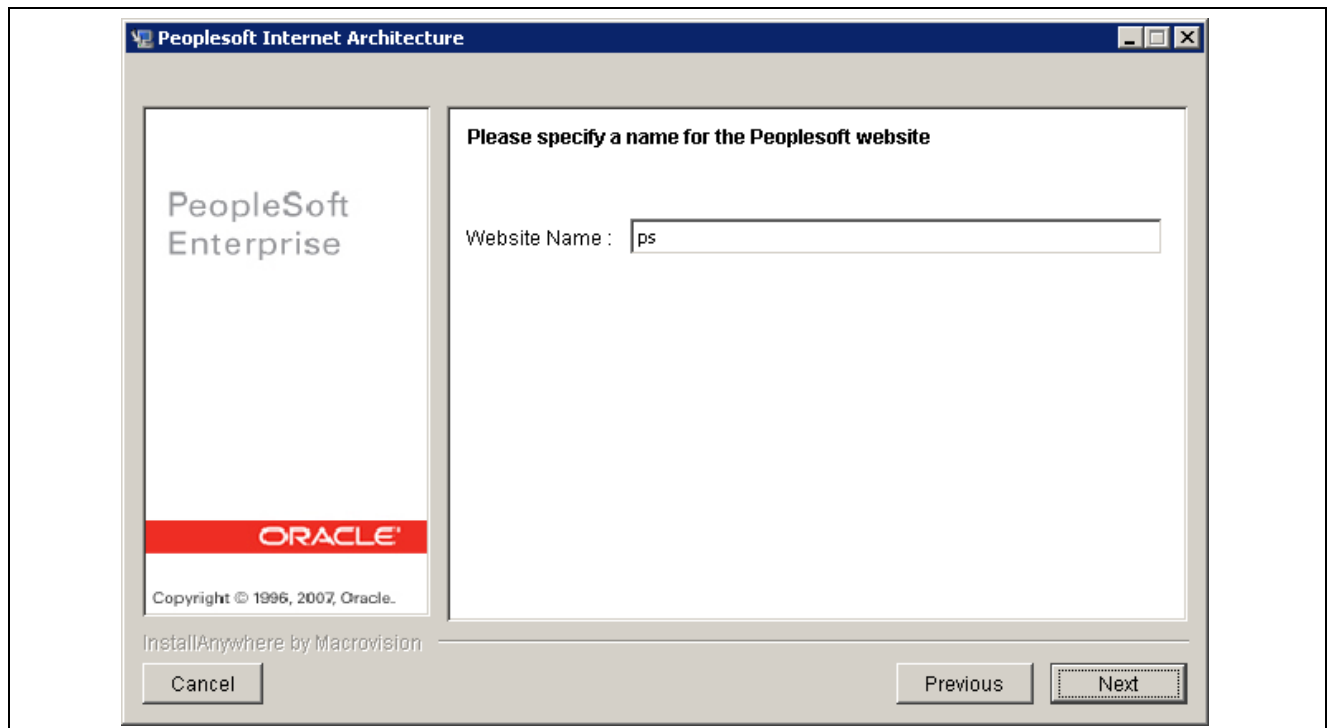
| Server Name | Purpose                                                            | HTTP or HTTPS Port Number |
|-------------|--------------------------------------------------------------------|---------------------------|
| server1     | PORTAL applications                                                | X                         |
| psemhub     | PeopleSoft Environment Management Framework applications (PSEMHUB) | X+1                       |

7. If there are application packages in the archives directory, you'll be asked whether you want to deploy them. If you're using an existing domain, you'll only be prompted if you selected Deploy additional PeopleSoft extensions.
8. Enter a PeopleSoft web site name; the default is ps.

---

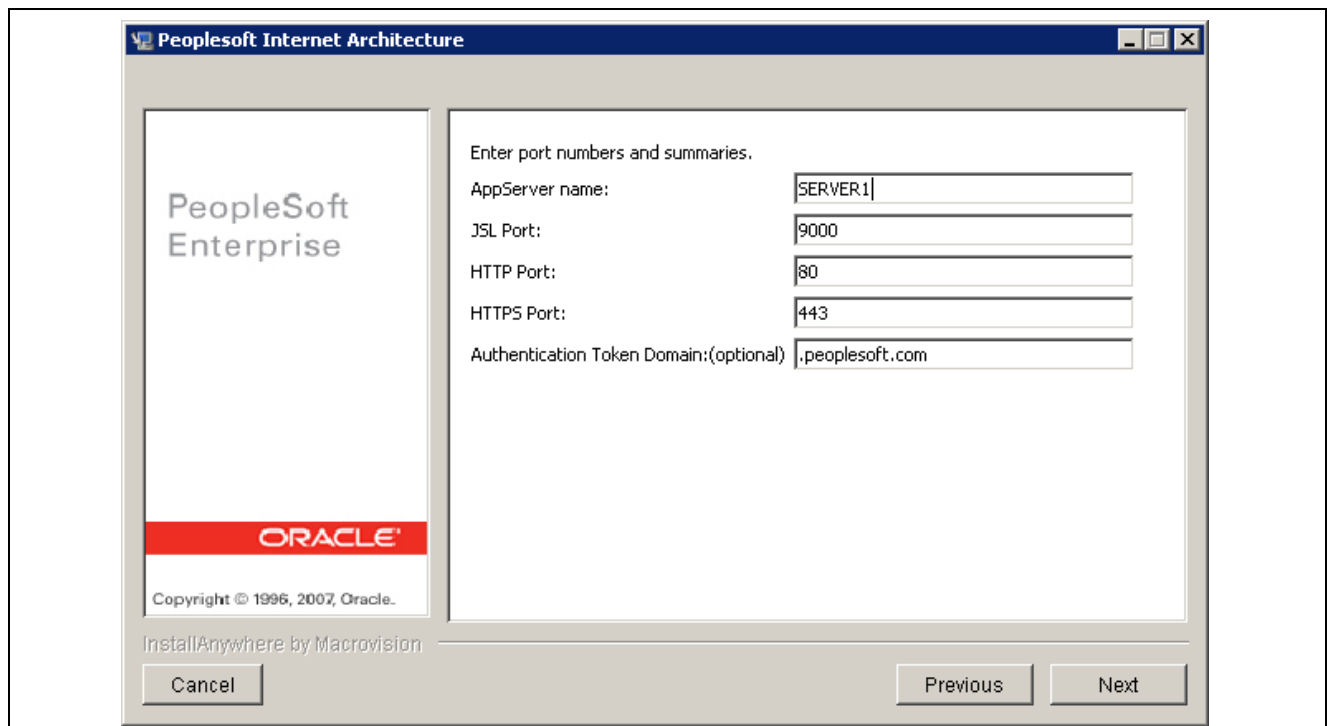
**Warning!** The site name can include underscores ( \_ ), but an underscore cannot be followed by a numeric character or the string "newwin" (for example, my\_site\_3 or my\_newwin\_site).

---



Entering the PeopleSoft web site name

9. 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 your application server name, your port numbers, and the authentication token domain

- *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.

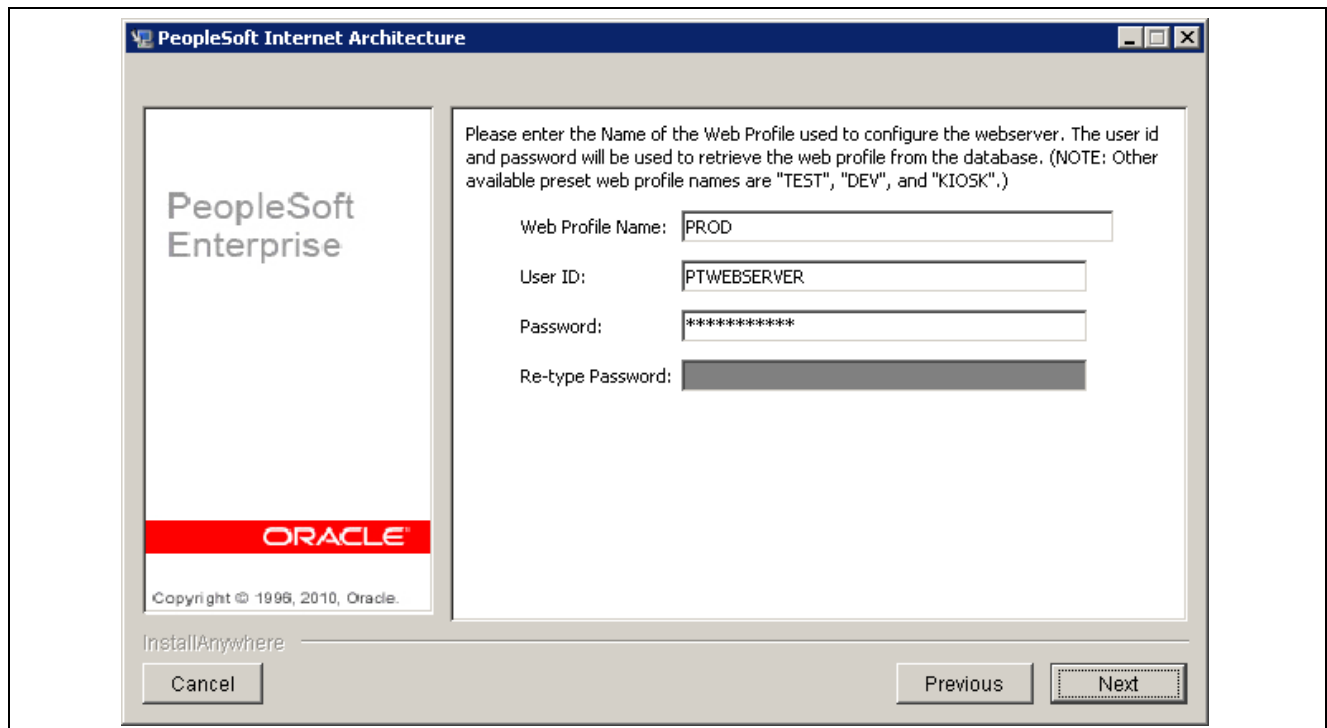
See "Understanding the PeopleSoft Pure Internet Architecture."

#### 10. Accept the default for the web profile, PROD, or enter another name.

The following example shows the default web profile name, PROD, and 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 name other than the default, be sure to review the information on web profile configuration and security.

See *Enterprise PeopleTools 8.51 PeopleBook: Security Administration*, "Encrypting Text With PSCipher."



Entering a web profile name

If you are upgrading your application database to PeopleSoft PeopleTools 8.47 or later, you will need to set up the PTWEBSEVER user ID by doing the following:

- a. Go to PeopleTools, Security, User Profiles, User Profiles, click Add a New Value.
  - b. Enter PTWEBSEVER for User ID, and click Add.
  - c. Enter and confirm a password.
  - d. Enter a description, the role *PeopleTools Web Server* and then click Save.
11. Specify the root directory for the Report Repository (c:\psreports by default), and click Next.

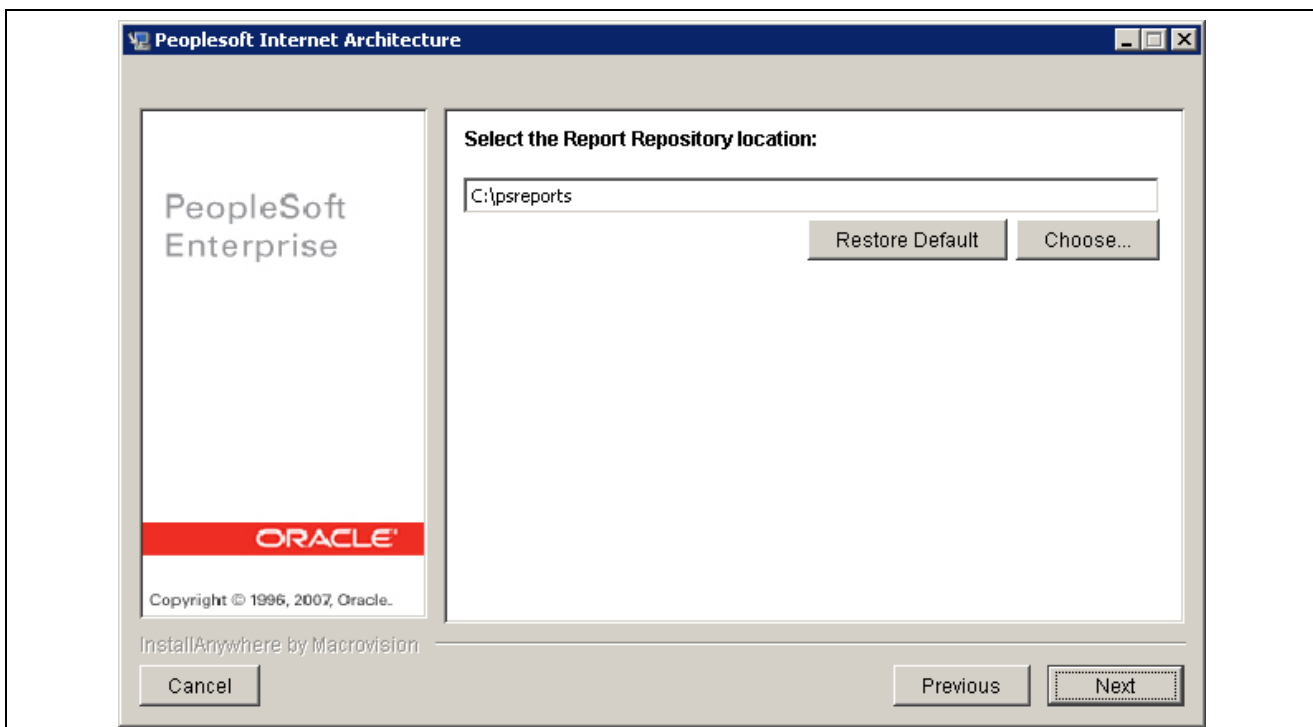
Make sure that the report repository directory is shared, and that you have write access.

---

**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.

---

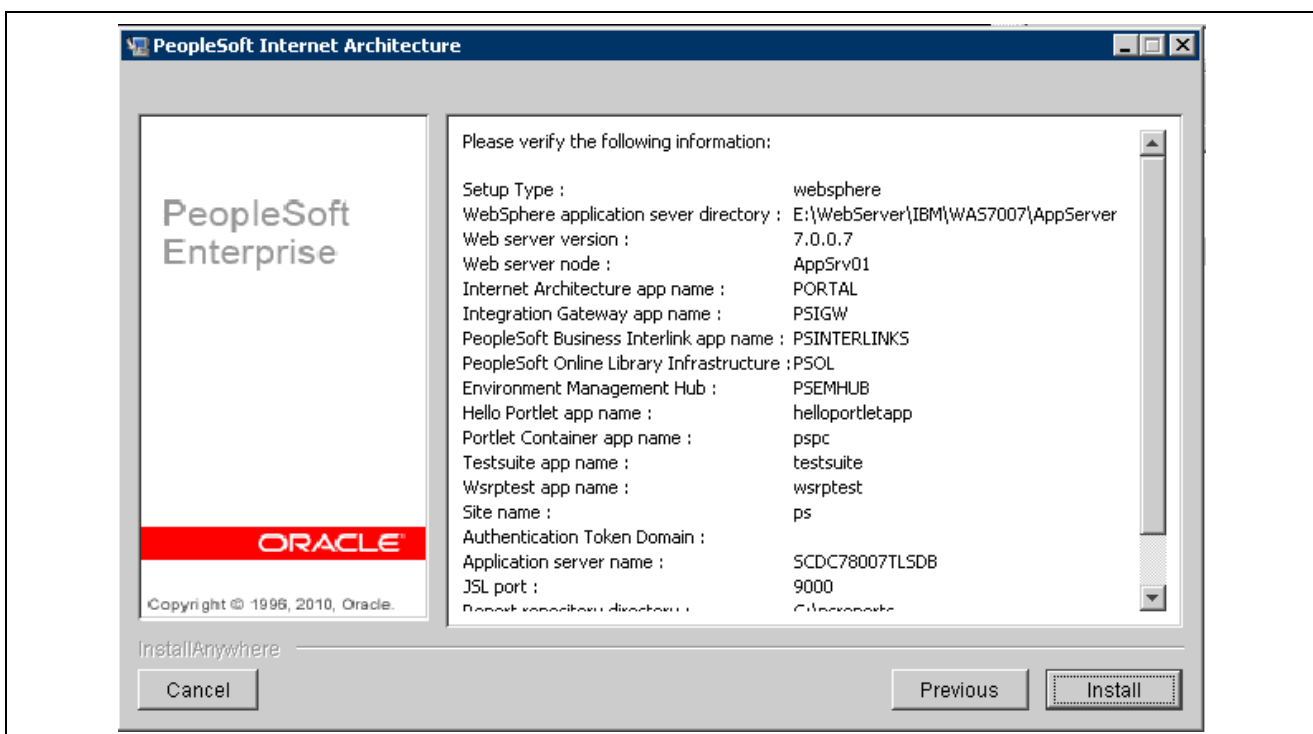
See "Setting Up Process Scheduler on Windows," Setting Up the Process Scheduler to Transfer Reports and Logs to Report Repository.



Specifying the report repository

## 12. Verify all your selections.

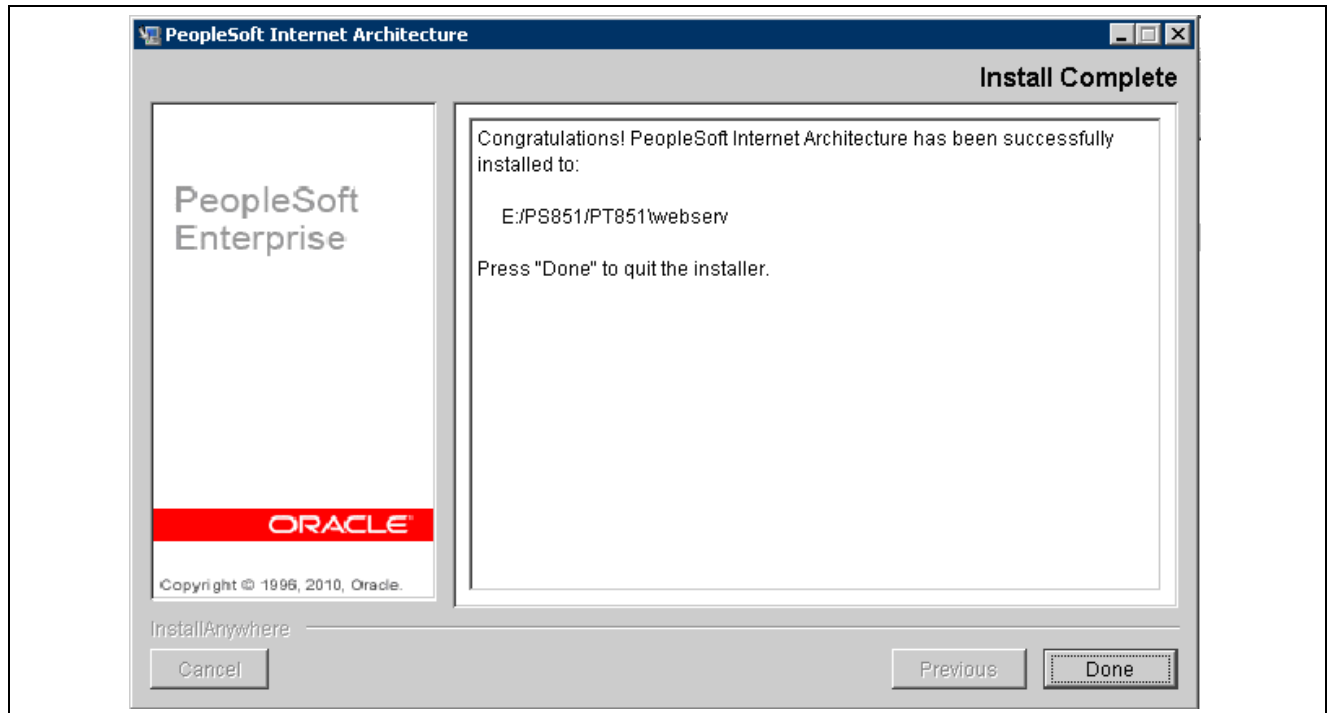
The window lists the installation information, such as the web server type, directory, version, and so on. Click Back if you need to make any changes and click Next to begin the installation. An indicator shows the progress of your installation.



Verifying Installation options window

- Click Done to complete the installation.

The default installation directory is `<PIA_HOME>\webserv\<profile_name>`.



PeopleSoft Internet Architecture installation complete window

## Task 9A-2-2: 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:

- Open IBM WebSphere Administration Console at `http://<machine-name>:9060/ibm/console`
- Log in as any user.
- Choose Applications, Enterprise Applications.
- Select the check boxes for the PeopleSoft Pure Internet Architecture applications you want to uninstall, and click Stop.
- Select the check boxes for the PeopleSoft Pure Internet Architecture applications you want to uninstall, and click Uninstall.
- Save your configuration.
- 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-3: Testing the PeopleSoft Pure Internet Architecture Installation

This section discusses:

- Starting and Stopping Oracle WebLogic
- Starting and Stopping IBM WebSphere Application Servers
- Accessing the PeopleSoft Signon

---

**Note.** 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.)

---

### Task 9A-3-1: Starting and Stopping Oracle WebLogic

If you are using the Oracle WebLogic web server, you need to sign on to Oracle WebLogic. If you are using IBM WebSphere instead, go on to the next procedure.

---

**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:

1. To start Oracle WebLogic Server as a Windows service, install the server as a windows service using the following command in your Oracle WebLogic domain directory):

*Single Server:*

```
installNTservicePIA.cmd
```

*Multi Server or Distributed Server:*

```
installNTservice.cmd <ServerName>
```

The 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.

2. To start Oracle WebLogic Server as a foreground process, execute the following command in your Oracle WebLogic domain directory (the default directory is `<PIA_HOME>\webserv\<domain_name>\bin`):

- *Single Server:*

```
startPIA.cmd (on Windows)
startPIA.sh (on UNIX)
```

- *Multi Server or Distributed Server:*

```
startWebLogicAdmin.cmd (on Windows)
startWebLogicAdmin.sh (on UNIX)
```

and then

```
startManagedWebLogic.cmd <ManagedServerName> (on Windows)
startManagedWebLogic.sh <ManagedServerName> (on UNIX)
```

3. To stop the server, execute the following command in your Oracle WebLogic domain directory:

*Single Server:*

```
stopPIA.cmd (on Windows)
stopPIA.sh (on UNIX)
```

*Multi Server or Distributed Server:*

```
stopWebLogic.cmd [-url t3://ServerHostName:port | <ManagedServerName>] (on⇒
Windows)
stopWebLogic.sh [-url t3://ServerHostName:port | <ManagedServerName>] (on UNIX)
```

See *Enterprise PeopleTools 8.51 PeopleBook: PeopleTools Portal Technology*.

## Task 9A-3-2: 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 7.0 (WebSphere ND), use the WebSphere First Steps utility:

1. Select Start, Programs, IBM WebSphere, Application Server Network Deployment V7.0, Profiles, `<profile_name>`, First steps.

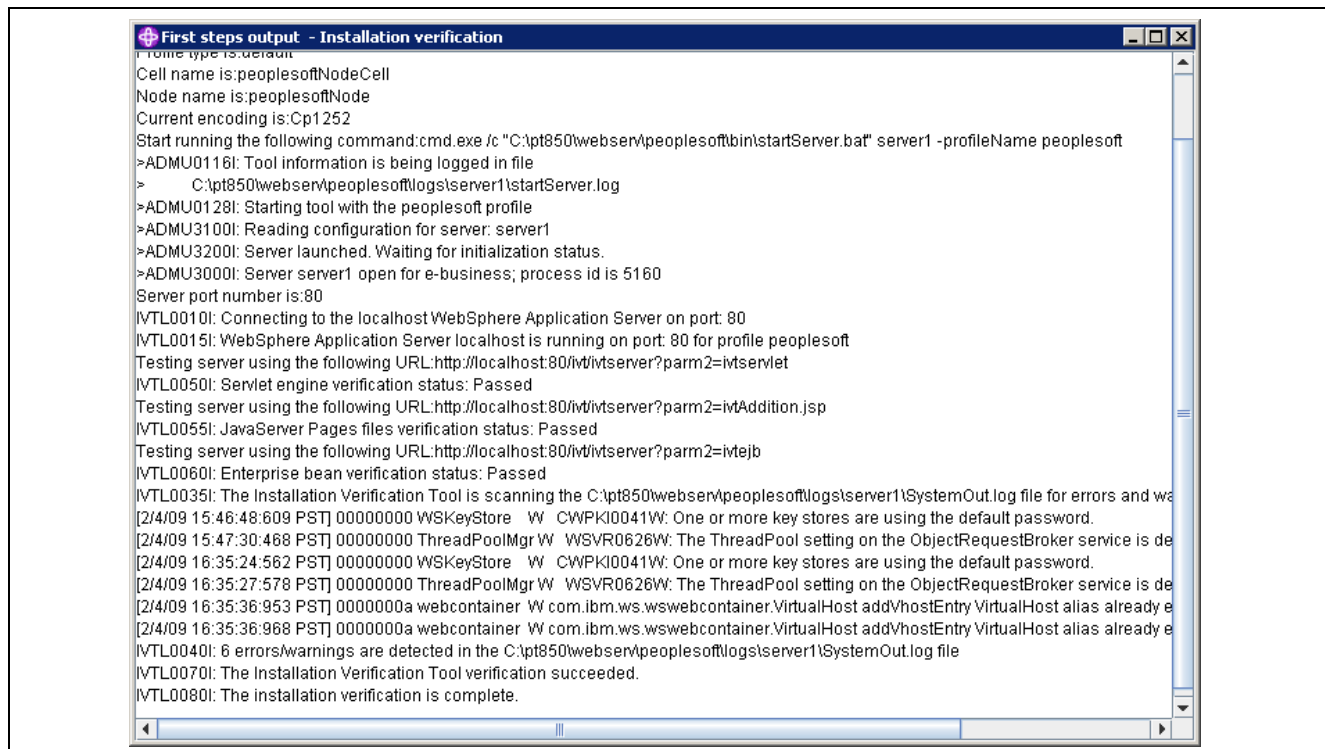
The following example shows the First steps window for the default profile *peoplesoft*:



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/pt851/webserver/peoplesoft/bin/startServer.sh server1
```

To stop WebSphere ND, use the following command:

```
<PIA_HOME>/webserv/<profile_name>/bin/stopServer.sh <server_name>
```

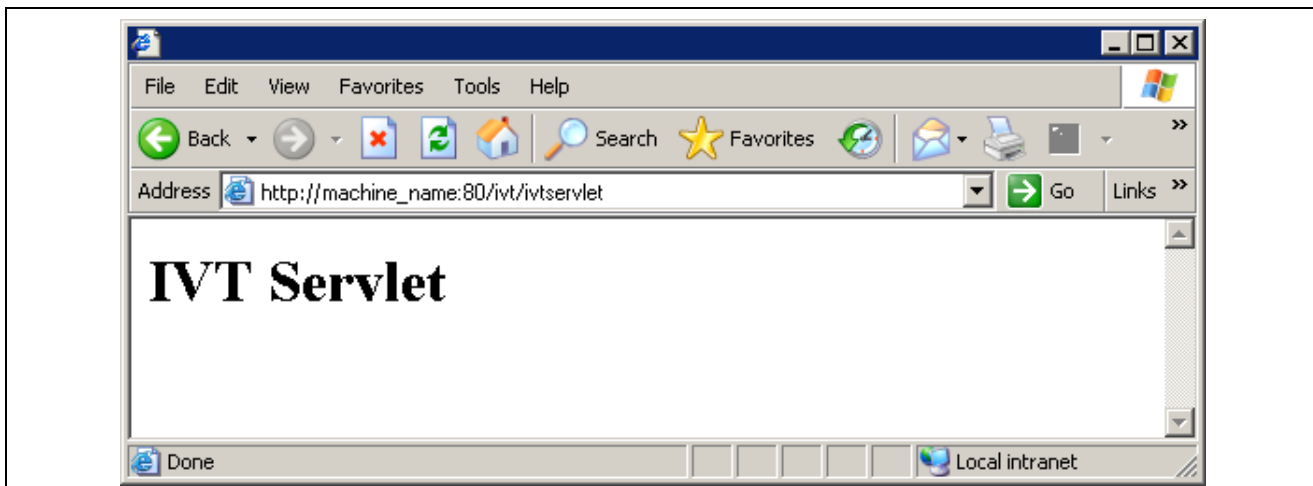
## Verifying the IBM WebSphere Installation

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 the next section, to verify the installation.

### Task 9A-3-3: 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):

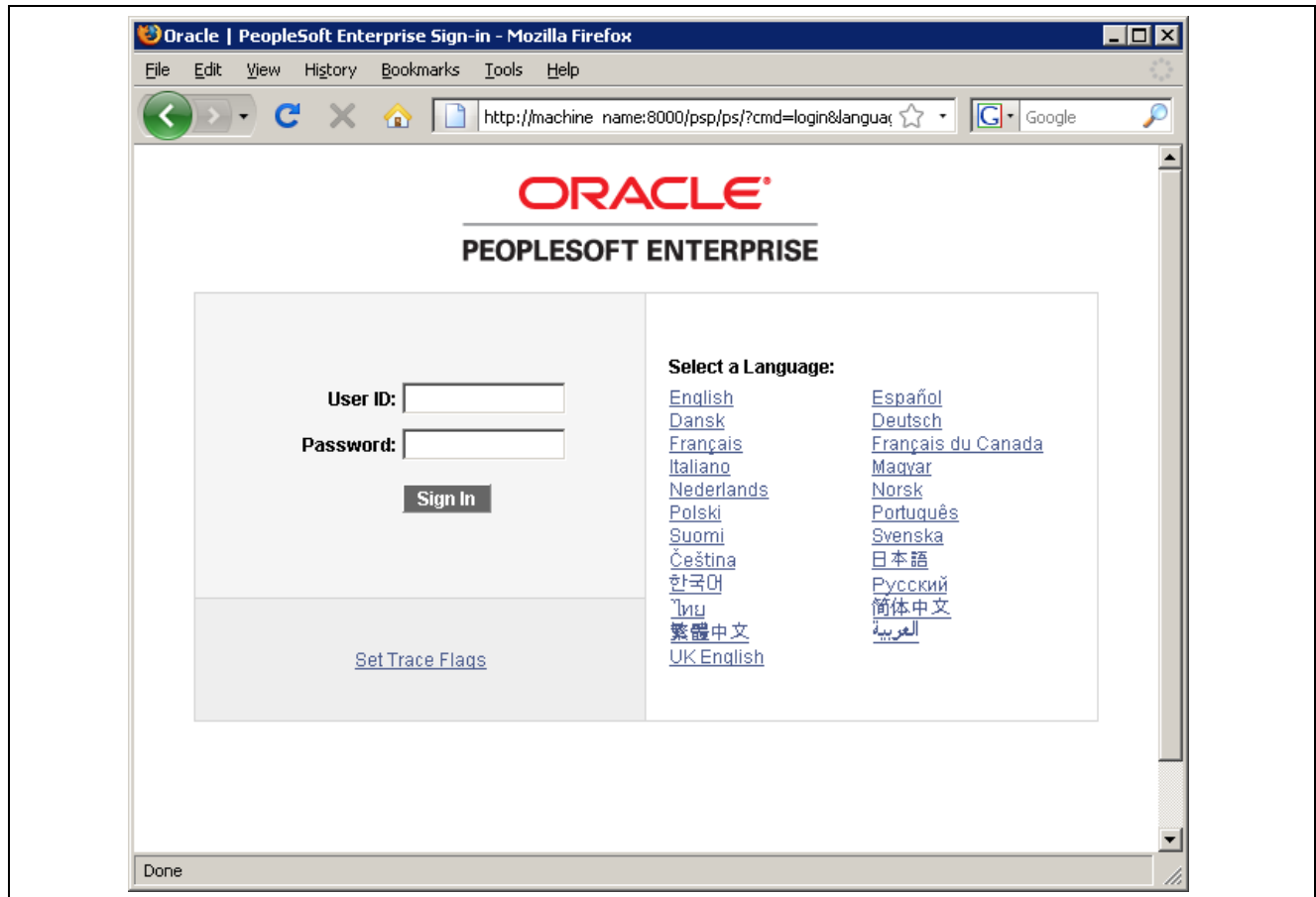
`http://<machine_name>:<http_port>/<site_name>/signon.html`

---

**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 are case sensitive. You need to enter the user ID and password using UPPERCASE characters.

Different applications use different default user IDs and passwords. For instance, for HRMS applications you enter PS for the user ID and the password. For Financials applications, you enter VP1 for the user ID and the password. Your application-specific install instructions contain any custom, delivered user IDs that you should use for the demonstration environment.

## Task 9A-4: Completing Post-Installation Steps

This section discusses:

- Updating the Installation Table
- Updating PeopleTools Options

- Updating Database Information

## Task 9A-4-1: 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-4-2: 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 Enterprise PeopleTools 8.51 PeopleBook: Global Technology, "Controlling Currency Display Format."*
- Base Time Zone — Enter a value for the base time zone for your PeopleTools database.  
*See Enterprise PeopleTools 8.51 PeopleBook: Global Technology "Setting and Maintaining Time Zones."*
- Data Field Length — 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 Enterprise PeopleTools 8.51 PeopleBook: Global Technology, "Selecting and Configuring Character Sets and Language Input and Output."*
- 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 Enterprise PeopleTools 8.51 PeopleBook: Global Technology, "Sorting in PeopleTools."*

## Task 9A-4-3: 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
- Installing the PeopleSoft Pure Internet Architecture on Oracle WebLogic in Console Mode
- Installing the PeopleSoft Pure Internet Architecture on IBM WebSphere in Console Mode
- Testing 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. 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 the version of the web servers packaged with 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 6 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 UNIX or 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 Enterprise Portal have their own installation instructions, which are available on My Oracle Support. For an overview of the various types of portals, consult the following.

See *Enterprise PeopleTools 8.51 PeopleBook: PeopleTools Portal Technologies*.

- *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 *Enterprise 8.51 PeopleBook: Integration Broker Administration*, "Managing Integration 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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft 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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Change Assistant*.

## See Also

*Enterprise PeopleTools 8.51 PeopleBook: Security Administration*

*Enterprise PeopleTools 8.51 PeopleBook: 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 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 to determine whether setting the authentication domain is required for correct operation.

See *Enterprise PeopleTools 8.51 PeopleBook: PeopleTools Portal Technologies*, "Configuring the Portal Environment."

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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft 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: Installing the PeopleSoft Pure Internet Architecture on Oracle WebLogic in Console Mode

This section describes how to install the PeopleSoft Pure Internet Architecture on Oracle WebLogic. PeopleSoft PeopleTools 8.51 supports 64-bit Oracle WebLogic 10.3.2.

See *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*, "Working with 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.sh -tempdir <temporary_directory>
```

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: 8.51
```

```
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/PT851]:
```

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 [/opt/bea]: /data4/WLS\_HOME

Detected web server version: WebLogic 10.3.2

---

**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 password must be at least 8 alphanumeric characters with at least one number or special character.

---

**Note.** The default login ID is system, and the default password is Passw0rd (with a capital “P” and zero rather than the letter “o”).

---

Please enter the administrator login and password for WebLogic domain.

Login ID [system]:

Password [Passw0rd]:

Re-type Password [Passw0rd]:

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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleTools 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 enterprise application is deployed to it. This configuration is intended for single user or very small scale, nonproduction 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 Enterprise 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 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]:

15. 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 or UNIX>."

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.

16. Accept the default for the web profile, PROD, or enter another name.

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 name other than the default, be sure to review the information on web profile configuration and security.

See *Enterprise PeopleTools 8.51 PeopleBook: Security Administration*, "Encrypting Text With PSCipher."

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", "PROD",⇒
and "KIOSK".)

Web Profile Name [DEV]:
User ID [PTWEBSEVER]:
Password [PTWEBSEVER]:
Re-type Password [PTWEBSEVER]:

Note. If you are upgrading your application database to PeopleSoft PeopleTools 8.44 and above, you must set up the PTWEBSEVER user ID. Go to PeopleTools, Security, User Profiles, User Profiles. Click Add a New Value, enter PTWEBSEVER for User ID, and click Add. Enter and confirm a password, and enter a description. Enter the role *PeopleTools Web Server* and then click Save.

17. Specify the root directory for the Report Repository.

The default directory is `<user_home>/PeopleSoft Internet Architecture/psreports`, where `<user_home>` is the home directory for the current user.

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 [/ds1/home/PeopleSoft Internet⇒ Architecture/psreports]:

18. Verify all of your selections and press Enter to begin the installation.

You see a progress indicator showing the progress of your installation.

19. When the installation is complete, exit from the console window.

The default installation directory is `<PIA_HOME>/webserv/<domain>/`, where `<domain>` is the web server domain (peoplesoft by default).

Task 9B-2: 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 on an IBM WebSphere Application Server. PeopleSoft PeopleTools 8.51 requires a 64-bit IBM WebSphere installation.

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 PIA install again.

See Also

"Installing Web Server Products," Installing IBM WebSphere Application Server

Task 9B-2-1: Installing the PeopleSoft Pure Internet Architecture on IBM WebSphere Application Server ND

Before installing the PeopleSoft Pure Internet Architecture (PIA) on IBM WebSphere Application Server, you must have installed the IBM WebSphere ND software.

See "Installing Web Server Products," Installing IBM WebSphere Application Server.

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.

Note. Both IBM WebSphere Application Server Network Deployment and PeopleSoft Pure Internet Application must be installed and deployed using the same user id. This restriction has been put forth in order to avoid any security and manage profile creation issues.

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 requires 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 *PeopleTools 8.51 PeopleBook: System and Server Administration*, "Working with IBM WebSphere."

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- peoplesoft1
- 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 Enterprise 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. If you select the option Deploy additional PeopleSoft application extension, select the application packages you want to deploy:

- >1- EMP PeopleSoft Activity Based Mgmt

12. 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).

13. 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."

14. Accept the default for the web profile, PROD, or enter another name.

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 name other than the default, be sure to review the information on web profile configuration and security.

See *Enterprise PeopleTools 8.51 PeopleBook: Security Administration*, "Encrypting Text With PSCipher."

Note. If you are upgrading your application database to PeopleSoft PeopleTools 8.44 and above, you must set up the PTWEBSEVER user ID. Go to PeopleTools, Security, User Profiles, User Profiles. Click Add a New Value, enter PTWEBSEVER for User ID, and click Add. Enter and confirm a password, and enter a description. Enter the role PeopleTools Web Server and then click Save.

15. 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.

16. Verify your selections and press Enter to start the installation. You see an indicator showing the progress of your installation.
17. When the installation is complete, exit from the console window.

The default installation directory is `<PIA_HOME>\websrv\<profile_name>`.

Task 9B-2-2: Uninstalling the PeopleSoft Pure Internet Architecture from IBM WebSphere

You cannot uninstall PeopleSoft Pure Internet Architecture simply by deleting `<PIA_HOME>/websrv/<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>\websrv\<profile_name>\bin\stopServer.bat server1
```

On UNIX:

```
<PIA_HOME>\websrv\<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>/websrv/<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-3: Testing the PeopleSoft Pure Internet Architecture Installation

This section discusses:

- Starting and Stopping Oracle WebLogic
- Starting and Stopping IBM WebSphere Application Servers
- Accessing the PeopleSoft Signon

Note. 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.)

Task 9B-3-1: Starting and Stopping Oracle WebLogic

If you are using the Oracle WebLogic web server, you need to sign on to Oracle WebLogic. If you are using IBM WebSphere instead, go on to the next procedure.

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:

1. To start Oracle WebLogic Server as a foreground process, execute the following command in your Oracle WebLogic domain directory (the default directory is `<PIA_HOME>\webserv\<domain_name>\bin`):

- *Single Server:*

```
startPIA.cmd (on Windows)
startPIA.sh (on UNIX)
```

- *Multi Server or Distributed Server:*

```
startWebLogicAdmin.cmd (on Windows)
startWebLogicAdmin.sh (on UNIX)
```

and then

```
startManagedWebLogic.cmd <ManagedServerName> (on Windows)
startManagedWebLogic.sh <ManagedServerName> (on UNIX)
```

2. To stop the server, execute the following command in your Oracle WebLogic domain directory:

Single Server:

stopPIA.cmd (on Windows)
stopPIA.sh (on UNIX)

Multi Server or Distributed Server:

stopWebLogic.cmd [-url t3://ServerHostName:port | <ManagedServerName>] (on⇒
Windows)
stopWebLogic.sh [-url t3://ServerHostName:port | <ManagedServerName>] (on UNIX)

See *Enterprise PeopleTools 8.51 PeopleBook: PeopleTools Portal Technology*.

Task 9B-3-2: 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 7.0 (WebSphere ND), use the WebSphere First Steps utility:

1. Select Start, Programs, IBM WebSphere, Application Server Network Deployment V7.0, 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
/home type is: default
Cell name is: peoplesoftNodeCell
Node name is: peoplesoftNode
Current encoding is: Cp1252
Start running the following command: cmd.exe /c "C:\pt850\websrv\peoplesoft\bin\startServer.bat" server1 -profileName peoplesoft
>ADMU0116I: Tool information is being logged in file
>      C:\pt850\websrv\peoplesoft\logs\server1\startServer.log
>ADMU0128I: Starting tool with the peoplesoft profile
>ADMU3100I: Reading configuration for server: server1
>ADMU3200I: Server launched. Waiting for initialization status.
>ADMU3000I: Server server1 open for e-business; process id is 5160
Server port number is: 80
IVTL0010I: Connecting to the localhost WebSphere Application Server on port: 80
IVTL0015I: WebSphere Application Server localhost is running on port: 80 for profile peoplesoft
Testing server using the following URL: http://localhost:80/ivt/ivtservlet
IVTL0050I: Servlet engine verification status: Passed
Testing server using the following URL: http://localhost:80/ivt/ivtservlet?parm2=ivtAddition.jsp
IVTL0055I: JavaServer Pages files verification status: Passed
Testing server using the following URL: http://localhost:80/ivt/ivtservlet?parm2=ivtejb
IVTL0060I: Enterprise bean verification status: Passed
IVTL0035I: The Installation Verification Tool is scanning the C:\pt850\websrv\peoplesoft\logs\server1\SystemOut.log file for errors and wa
[2/4/09 15:46:48.609 PST] 00000000 WSKeyStore  W  CWPJKI0041W: One or more key stores are using the default password.
[2/4/09 15:47:30.468 PST] 00000000 ThreadPmgr W  WSVR0626W: The ThreadPmgr setting on the ObjectRequestBroker service is de
[2/4/09 16:35:24.562 PST] 00000000 WSKeyStore  W  CWPJKI0041W: One or more key stores are using the default password.
[2/4/09 16:35:27.578 PST] 00000000 ThreadPmgr W  WSVR0626W: The ThreadPmgr setting on the ObjectRequestBroker service is de
[2/4/09 16:35:36.953 PST] 0000000a webcontainer W  com.ibm.ws.wswebcontainer.VirtualHost addVhostEntry VirtualHost alias already e
[2/4/09 16:35:36.968 PST] 0000000a webcontainer W  com.ibm.ws.wswebcontainer.VirtualHost addVhostEntry VirtualHost alias already e
IVTL0040I: 6 errors/warnings are detected in the C:\pt850\websrv\peoplesoft\logs\server1\SystemOut.log file
IVTL0070I: The Installation Verification Tool verification succeeded.
IVTL0080I: The installation verification is complete.

```

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/pt851/webserver/peoplesoft/bin/startServer.sh server1
```

To stop WebSphere ND, use the following command:

```
<PIA_HOME>/websrv/<profile_name>/bin/stopServer.sh <server_name>
```

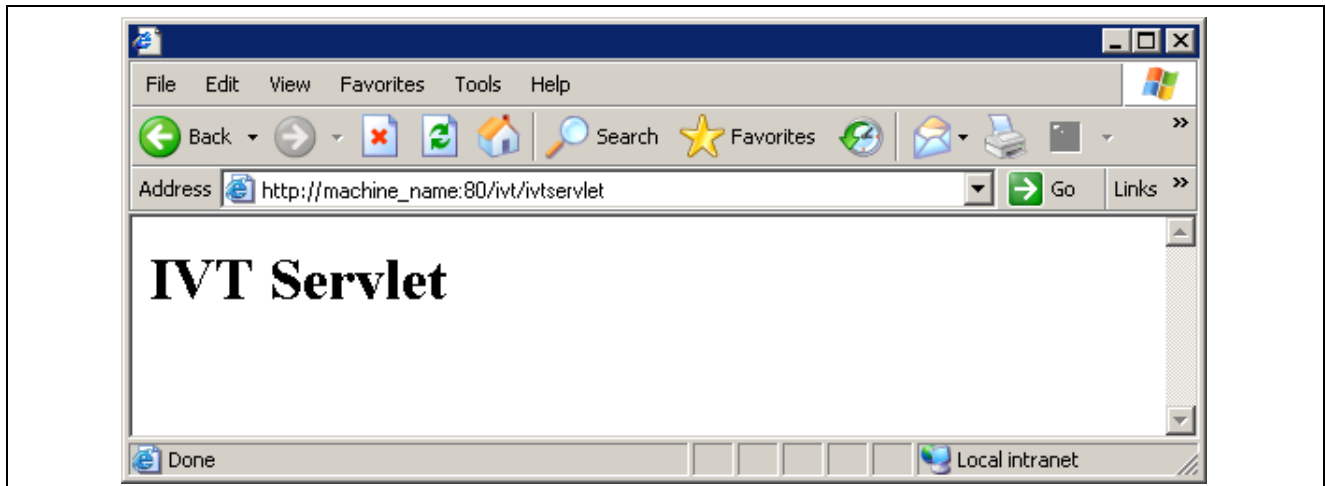
Verifying the IBM WebSphere Installation

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 the next section, to verify the installation.

Task 9B-3-3: Accessing the PeopleSoft Signon

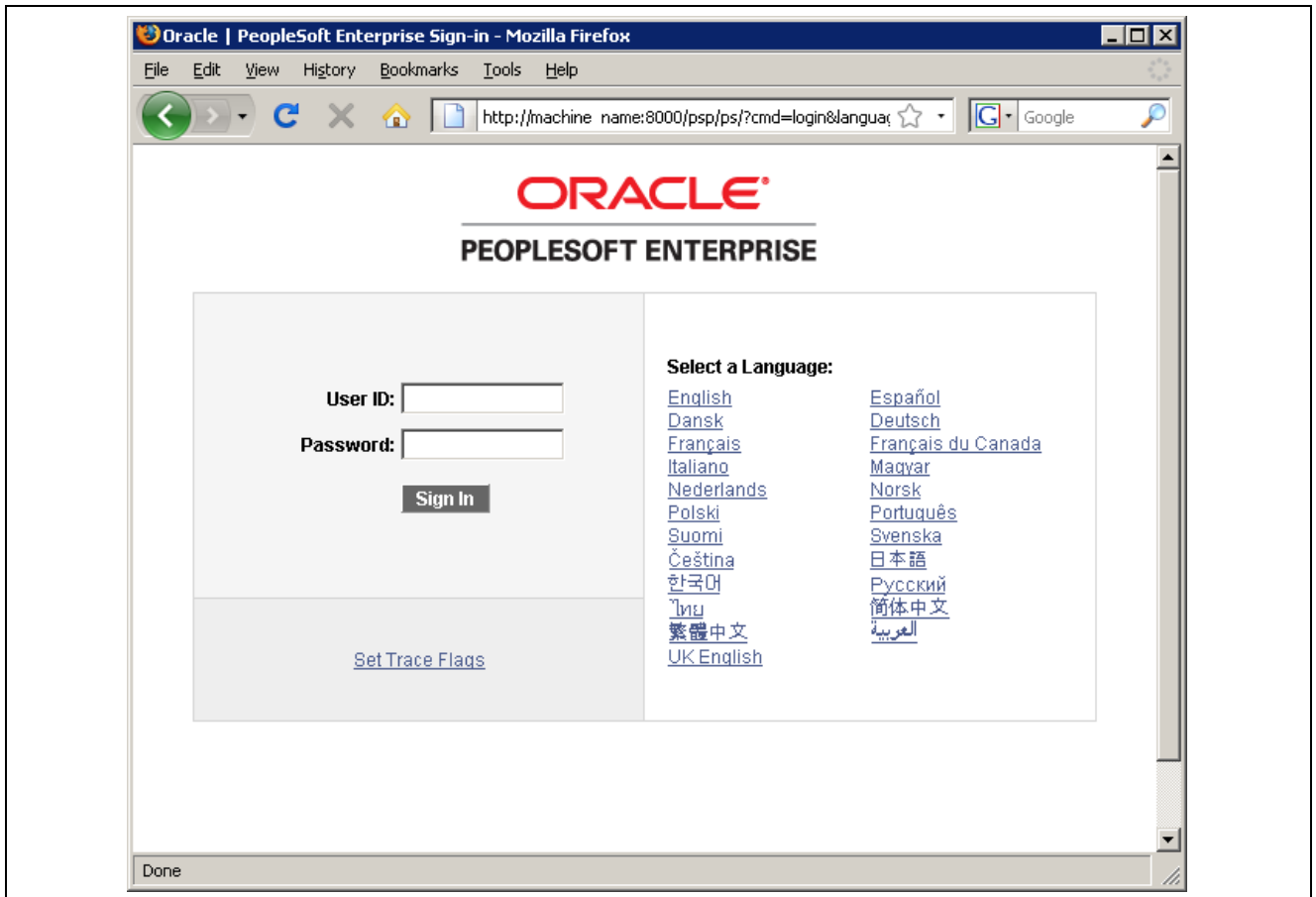
To access the PeopleSoft signon:

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 are case sensitive. You need to enter the user ID and password using UPPERCASE characters.

Different applications use different default user IDs and passwords. For instance, for HRMS applications you enter PS for the user ID and the password. For Financials applications, you enter VP1 for the user ID and the password. Your application-specific install instructions contain any custom, delivered user IDs that you should use for the demonstration environment.

Task 9B-4: Completing Post-Installation Steps

This section discusses:

- Updating the Installation Table
- Updating PeopleTools Options

- Updating Database Information

Task 9B-4-1: 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-4-2: 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 Enterprise PeopleTools 8.51 PeopleBook: Global Technology, "Controlling Currency Display Format."
- Base Time Zone — Enter a value for the base time zone for your PeopleTools database.
See Enterprise PeopleTools 8.51 PeopleBook: Global Technology "Setting and Maintaining Time Zones."
- Data Field Length — 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 Enterprise PeopleTools 8.51 PeopleBook: Global Technology, "Selecting and Configuring Character Sets and Language Input and Output."
- 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 Enterprise PeopleTools 8.51 PeopleBook: Global Technology, "Sorting in PeopleTools."

Task 9B-4-3: 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 10A

Setting Up Process Scheduler on Windows

This chapter discusses:

- Prerequisites
- 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 Server Domain Configurations.

See *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*, "Working with Server Domain Configurations."

See Also

Enterprise PeopleTools 8.51 Hardware and Software Requirements

Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Process Scheduler

My Oracle Support, Certifications

Task 10A-1: Setting Up Process Scheduler Security

This section discusses:

- Understanding Process Scheduler Security
- Changing User Account to Start ORACLE ProcMGR V10gR3 with VS2008
- 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.

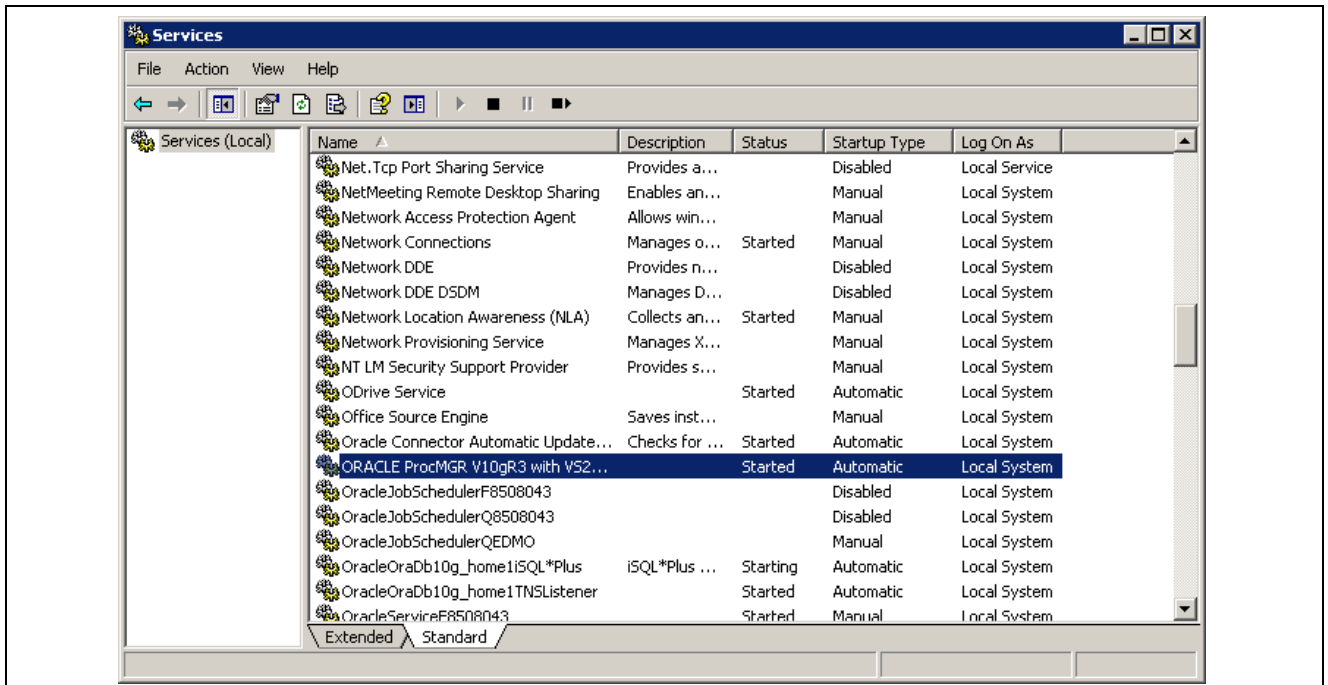
In the next section you set up ORACLE ProcMGR V10gR3 with VS2008 with a network user ID. When you install Oracle Tuxedo, the ORACLE ProcMGR V10gR3 with VS2008 service is set up by default to be started by local system account—a user account that does not have access to the Windows network. If the Process 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 V10gR3 with VS2008 with a network user account.

Task 10A-1-1: Changing User Account to Start ORACLE ProcMGR V10gR3 with VS2008

To change User Account to start ORACLE ProcMGR V10gR3 with VS2008:

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 V10gR3 with VS2008*. This service is installed automatically when you install Tuxedo.

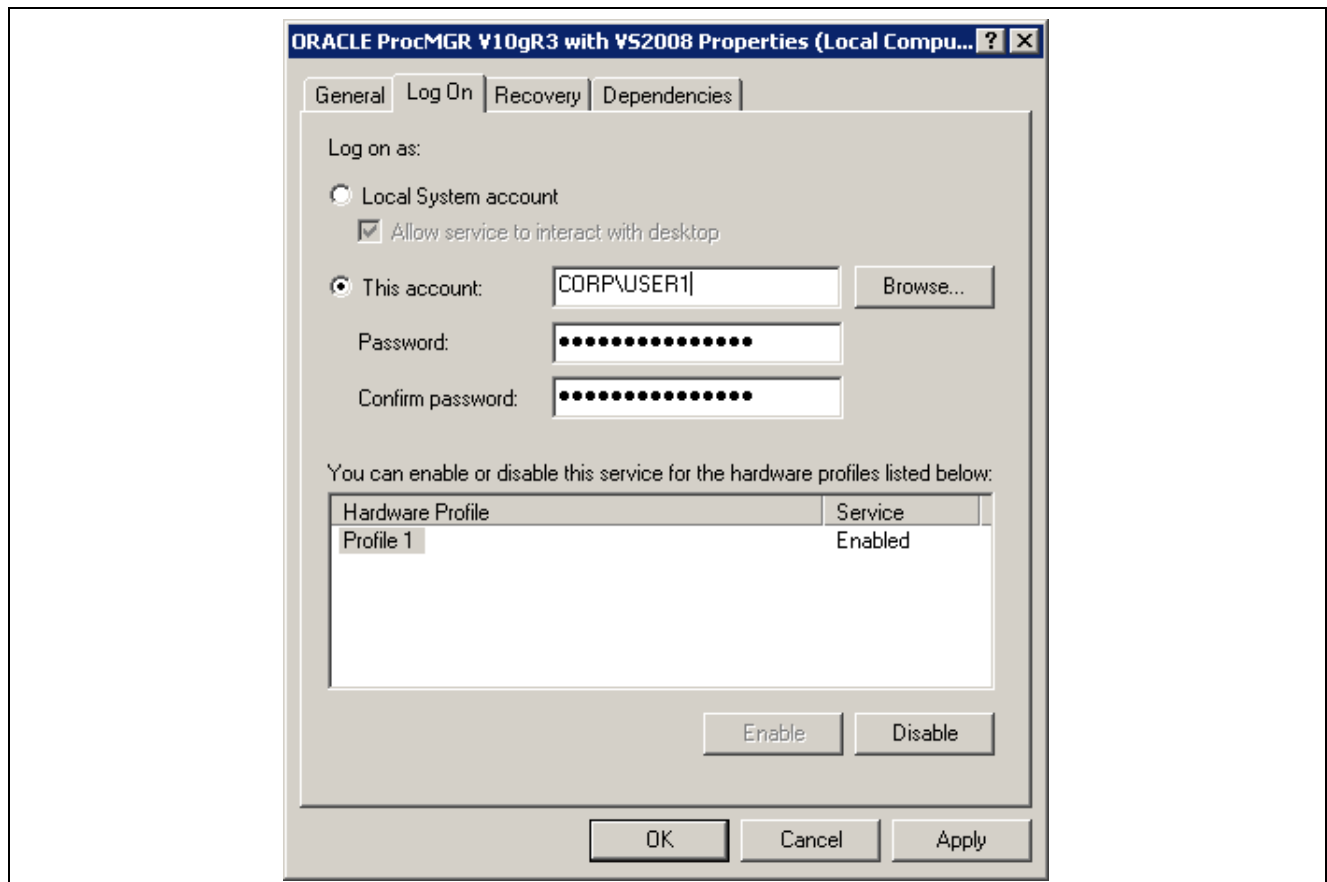


Windows Services dialog box

2. If the Stop button is enabled, click on it to stop the current ORACLE ProcMGR V10gR3 with VS2008 process.
 - a. Click Yes when a message informs you of the status change.
 - b. Double-click ORACLE ProcMGR V10gR3 with VS2008.

The Properties dialog box appears.

3. Select the option This account on the Log On tab.
Enter an account name and password.

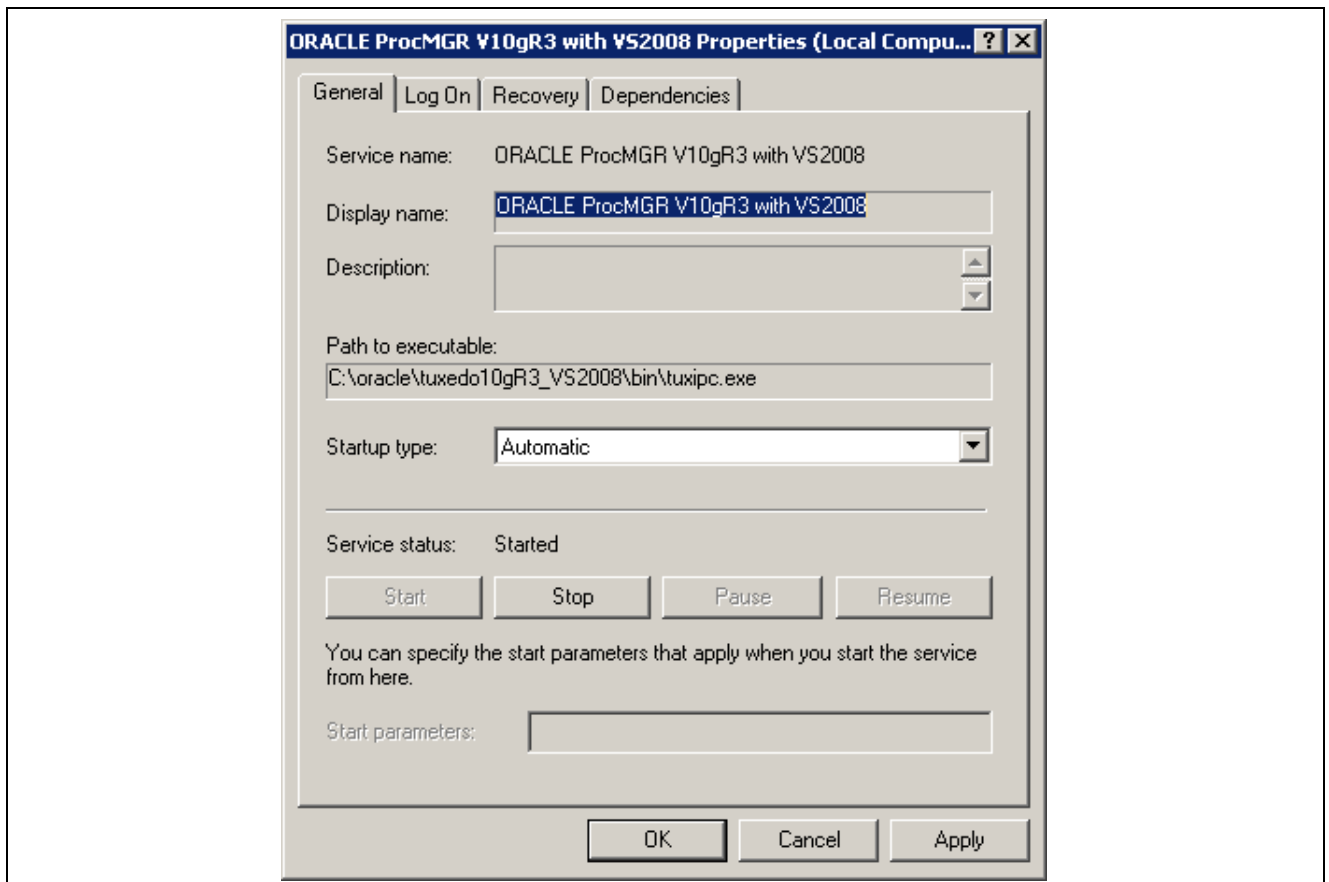


ORACLE ProcMGR V10gR3 with VS2008 Properties dialog box: Log On tab

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\tuxedo10gR3_vs2008.

4. Select the General tab.

Make sure that Startup Type is set to Automatic, and click OK.



ORACLE ProcMGR V10gR3 with VS2008 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 10A-1-2: 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.

General

ID

Roles

Workflow

Audit

Links

User ID Queries

User ID: VP1

Description: VP of Corporate Planning

Customize

Find

View All

First

1-10 of 10

Last

Role Name	Description	Dynamic		View Definition		
Coordinator	Coordinator	☐	Route Control	View Definition	+	-
PAPP_USER	Enterprise Portal User	☐	Route Control	View Definition	+	-
Packaging	Env. Mgmt. Packaging	☐	Route Control	View Definition	+	-
PeopleSoft Administra	PeopleSoft Admin Privileges	☐	Route Control	View Definition	+	-
PeopleSoft User	PeopleSoft User	☐	Route Control	View Definition	+	-
PeopleTools	PeopleTools	☐	Route Control	View Definition	+	-
ProcessSchedulerAdm	Process Scheduler Admin	☐	Route Control	View Definition	+	-
ReportDistAdmin	Report Distribution Admin	☐	Route Control	View Definition	+	-
UPG_ALLPANLS	ALLPANLS	☐	Route Control	View Definition	+	-
UPG_APPSRVR	Can start application server	☐	Route Control	View Definition	+	-

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 10A-2: 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.

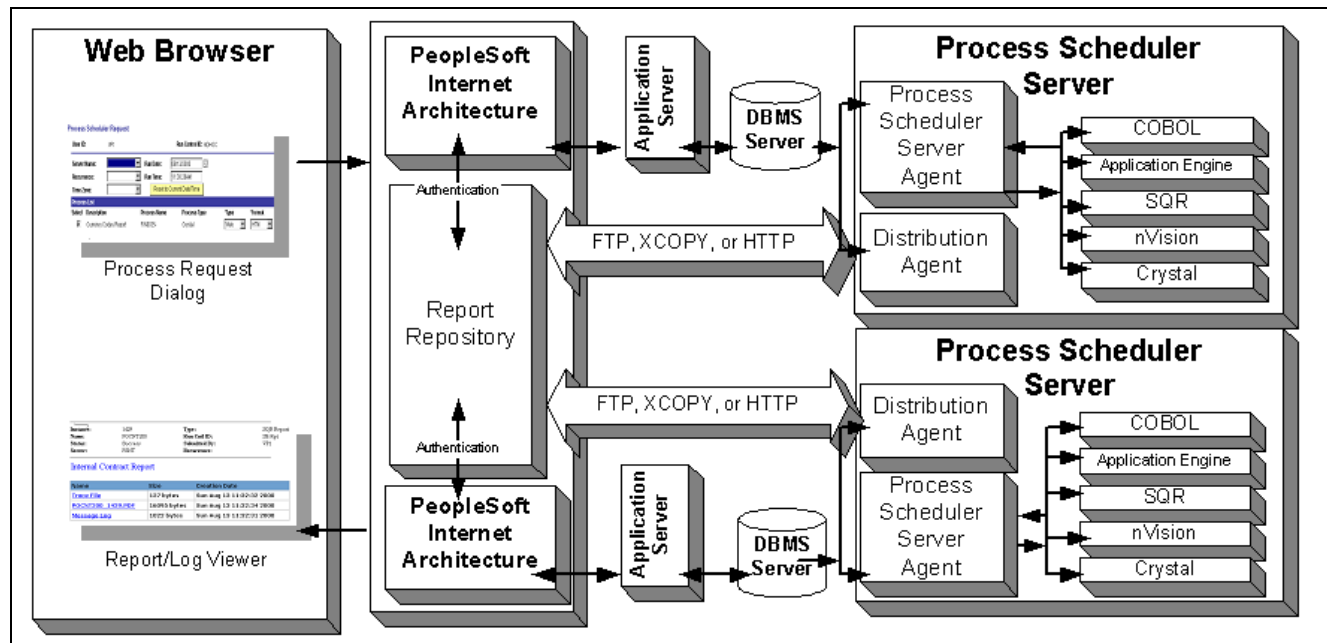
The Distribution Agent transfers files to the Report Repository when one of these criteria is true:

- 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 the Distribution Status 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 yyymmdd>\<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.



Process Scheduler and Report Repository Architecture

Note. The PeopleSoft Pure Internet Architecture must be installed for Process Scheduler to be able to transfer reports to the Repository.

Note. Before users can view a report, they are authenticated against the PeopleSoft database.

Note. 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 PeopleBook.

See *Enterprise PeopleTools 8.51 PeopleBook: Security Administration*.

Task 10A-2-1: 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 *Enterprise PeopleTools 8.51 PeopleBook: Security Administration*, "Implementing Single Signon."

- 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

Enterprise PeopleTools 8.51 PeopleBook: Security Administration

Task 10A-2-2: 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. If you have a Windows Process Scheduler and a Windows web server, you can use either an XCOPY, FTP, or HTTP/HTTPS. (If FTP information is not specified, Process Scheduler will perform an XCOPY.) If you have any other combination of servers (such as a Windows or z/OS Process Scheduler and a UNIX web server), you must use FTP or HTTP/HTTPS.

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 10A-2-3: 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 10A-2-4: 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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleTools Portal Technologies*, "Configuring the Portal Environment."

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.

Http Distribution Node | **FTP/XCopy Distribution Node**

Report Node Definition

Node Name: HTTP

☐ Ftp/XCopy ☒ **Http Information**

Distribution Node Details

URL: http://<machine_name>/psreports/<site_name>

Description:

Operating System: NT/Win2000

Connection Information

☒ **http** ☐ https

URI Host: <machine_name> **URI Port:** 80

URI Resource: SchedulerTransfer/<site_name>

Login ID:

Password: **Confirm Password:**

Save Notify +Add Update/Display

[Http Distribution Node](#) | [FTP/XCopy Distribution Node](#)

Report Node Definition page for HTTP

- 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.
- 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 basic authentication is optional, but is recommended for security of the Report Repository when using the HTTP to transfer files. For detailed instructions on setting up basic authentication on the web server where the Report Repository resides, refer to the appendix “Securing the Report Repository for HTTP.”

- *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). Both the Process Scheduler machine and the Report Repository machine must be Windows for XCOPY to be used.

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>/psreports/<site_name>

Home Directory:

Description:

Operating System: NT/Win2000

Connection Information

FTP Address: **Password:**

FTP ID: **Confirm Password:**

Network Path: \\<machine_name>\psreports

[Http Distribution Node](#) | [FTP/XCopy Distribution Node](#)

Report Node Definition page for XCOPY

- 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. <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.

- 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.

- Select NT/Win2000 as the operating system.
- Select Save to save your entries.
- 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.

The screenshot shows the 'Report Node Definition' page for the 'FTP/XCopy Distribution Node'. The 'Node Name' is set to 'FTP'. Under 'Distribution Node Details', the 'URL' is 'http://<machine_name>/psreports/<site_name>', 'Home Directory' is '\\<machine_name>\psreports', 'Description' is 'FTP sample', and 'Operating System' is 'NTWin2000'. Under 'Connection Information', 'FTP Address' is '<machine_name>', 'Password' is masked with '...', 'FTP ID' is '<user_id>', 'Confirm Password' is masked with '...', and 'Network Path' is empty. At the bottom, there are buttons for 'Save', 'Notify', 'Add', and 'Update/Display'. A link at the bottom left reads 'Http Distribution Node | FTP/XCopy Distribution Node'.

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 10A-2-5: 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 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 10A-2-6: 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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Integration Broker*.

See *Enterprise PeopleTools 8.51 PeopleBook: Integration Broker Service Operations Monitor*.

Task 10A-3: 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 10A-4: 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 Process Scheduler PeopleBook.

See *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Process Scheduler*

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 10A-4-1: Creating and Configuring a Process Scheduler Server

This section describes how to create and configure a Process Scheduler server.

Note. 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 Manager users, if Essbase Server is installed on a different machine than the Process Scheduler, you must install Essbase Client 11.1.2 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
-----
1) Application Server
2) Process Scheduler
3) Search Server
4) Service Setup
q) Quit
```

Command to execute (1-4 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 -- Scheduler for Database: HRDMO

Features =====	Settings =====
1) Master Schdlr : Yes	5) DBNAME : [HRDMO]
2) App Eng Server : Yes	6) DBTYPE : [SYBASE]
	7) PrcsServer : [PSNT]
	8) UserId : [PS]
	9) UserPswd : [PS]
	10) ConnectID : [people]
	11) ConnectPswd: [peop1e]
	12) ServerName : [AZSUN15J]
Actions =====	13) Log/Output Dir: [%PS_SERVDIR%\log_output]
3) Load config as shown	14) SQRBIN : [%PS_HOME%\bin\sqr\SYB\binw]
4) Custom configuration	15) AddToPATH : [%WINDIR%;%WINDIR%\SYSTEM32]
h) Help for this menu	16) DBBIN : [C:\<connectivity directory>]
q) Return to previous menu	17) Crystal Path: []

HINT: Enter 5 to edit DBNAME, then 3 to load

Enter selection (1-16, h, or q):

Note. Cognos/Cube Manager Installs: Make sure to specify the proper path for Cognos in the *Add to Path* parameter. By default, that path is C:\Program Files\Cognos\cer2\bin;C:\ODI\OStore\bin. The Cognos and ODI are the important top level directories, and could change depending on the install.

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 Schdlr	Flag to enable the Master Scheduler Server (PSMSTPRC). Default is to enable the server. See Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Process Scheduler.
App Eng Server	Flag to initiate Application Engine programs through the AE Tuxedo Server (PSAESRV). Default is set to run AE using PSAESRV. See Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Process Scheduler.
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.
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: SYBASE.
PrcsServer	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 user password. For Enterprise Resource Planning, this is typically <i>VPI</i> , and for Human Resources it's <i>PS</i> .
ConnectID	Enter the connect ID. This value is required.
ConnectPswd	Enter the connect password. This value is required.
ServerName	This value is required for Sybase 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.
AddToPATH	(Optional for Tuxedo) Specify an additional directory that is appended to the PATH environment variable.

Parameter	Description
DBBIN	Enter the path to the database drivers; that is, your connectivity software.
Crystal Path	Enter the path to the Crystal executables (for example, C:\Program Files\Business Objects\BusinessObjects Enterprise 12.0\win32_x86)

For descriptions of the PSADMIN options that do not appear in the Quick-configure menu, consult the following. For a basic install, in most cases you can accept the defaults.

See *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Process Scheduler*.

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 Crystal 2008 .NET Runtime to be installed on the machine. You can download the Runtime redistributable from Oracle E-Delivery. 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*, 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 10A-4-2: 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.

6. 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 *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*.

- If you do not want to change any values, specify *n* and you are prompted for the next configuration section.

7. 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, consult the following. In most cases you can accept the defaults.

See *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Process Scheduler*.

## Task 10A-4-3: 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:

1. 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 )  |            |
| PSPRCRV.exe    | SCHEDQ      | BASE      | 101       | 0       |       | 0 (      | IDLE )  |            |
| PSMSTPRC.exe   | MSTRSCHQ    | BASE      | 102       | 0       |       | 0 (      | IDLE )  |            |
| PSDSTSRV.exe   | DSTQ        | BASE      | 103       | 0       |       | 0 (      | IDLE )  |            |
| > Prog Name    | Queue Name  | # Serve   | Wk Queued | #Queued |       | Ave. Len |         | Machine    |
| -----          | -----       | -----     | -----     | -----   |       | -----    |         | -----      |
| PSDSTSRV.exe   | DSTC        | 1         | -         | 0       |       | -        |         | PSSERVER1+ |
| >              |             |           |           |         |       |          |         |            |

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="#">QE_PNT2</a>  | PTLAB95  | 10/28/2003 9:53:45AM  | https     | N      | 1       | 29         | 0      | Down    | <a href="#">Details</a> |
| <a href="#">QE_HP_X1</a> | pt-hp07  | 10/28/2003 10:05:47AM | https     | Y      | 21      | 34         | 1      | Running | <a href="#">Details</a> |

Process Monitor page: Server List tab

## Task 10A-5: Starting Process Scheduler as a Windows Service (Optional)

You can start the Process Scheduler Server as a Windows service. This means that administrators do not need to manually boot each Process Scheduler Server that runs on a Windows machine. Instead, each time you boot the Microsoft Windows server where the Process Scheduler Server resides, the Process Scheduler Server will boot automatically. You can also still manually boot Process Scheduler Servers on your Microsoft Windows server.

**Note.** If you have set up TUXDIR and TEMP as new SYSTEM variables, you need to reboot your machine before any Windows services will pick up the value of these environment variables.

**Note.** You can also set up application servers and search servers as a Windows service using the instructions provided here.

The following directions assume that the Process Scheduler is already configured on the Microsoft Windows server.

To set up the Windows Service for a Process Scheduler Server:

1. Open the System utility within the Control Panel, and set the variables, listed with a brief explanation in the following table, in the System Variables section of the Environment tab.

**Note.** Even if the following variables are in the User Variables section, they must also be in the System Variables section because the Windows service will be started under the System Account.

| Variable | Value                                                                                |
|----------|--------------------------------------------------------------------------------------|
| TEMP     | Specify the location of the TEMP directory on the Windows server, as in C:\TEMP.     |
| TUXDIR   | Specify the location of the Tuxedo directory on the Windows server, as in C:\tuxedo. |

2. Reboot the Windows computer if any changes or additions were made for the system variables.
3. Run the PeopleSoft PSADMIN utility (psadmin.exe in the *PS\_HOME*\appserv directory).
4. Select 4 from the PeopleSoft Server Administration menu.

```

PeopleSoft Server Administration

 1) Application Server
 2) Process Scheduler
 3) Search Server
 4) Service Setup
 q) Quit

```

Command to execute (1-4, q): 4

5. Select 1 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>

---

**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 10A-6: 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”.

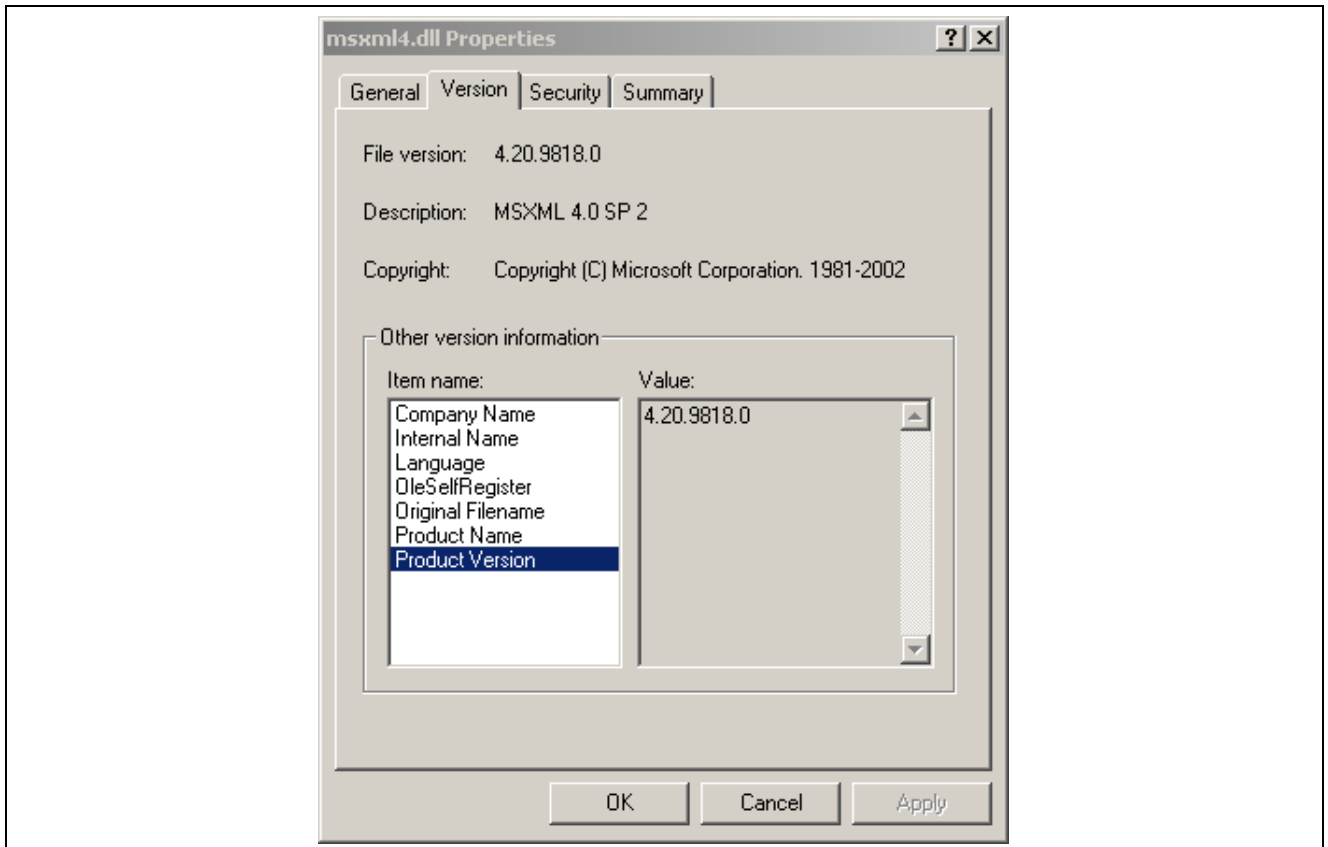
3. If spaces exist in the WINWORD path in the Process Scheduler configuration file (psprcs.cfg), Word for Windows reports will fail. You will need to modify the Process Type Definition and add quotes around the entry in the Command Line field, for example " %%WINWORD%%\winword.exe".
4. Change the Microsoft 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 10A-7: 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, Versions, Product Version. The version number must be 4.20 or above.



msxml4.dll Properties dialog box

### See Also

*Enterprise PeopleTools 8.51 PeopleBook: Setup Manager*

Microsoft support, [support.microsoft.com](http://support.microsoft.com)

## Task 10A-8: Installing Products for PS/nVision

This section discusses:

- Understanding the PS/nVision Setup
- Installing Microsoft .NET Framework 3.5 SP1
- Verifying the Microsoft .NET Framework 3.5 SP1 Installation on Windows 2008 R2
- Installing Open XML SDK 2.0

### Understanding the PS/nVision Setup

PS/nVision requires Microsoft Open XML SDK 2.0 to generate reports on PeopleSoft Process Scheduler. Microsoft .NET Framework 3.5 SP1 is required for Microsoft Open XML SDK 2.0. Use the information in this section to install Microsoft Open XML SDK, and to install Microsoft .NET Framework 3.5 SP1, if it is not already installed on the computer.

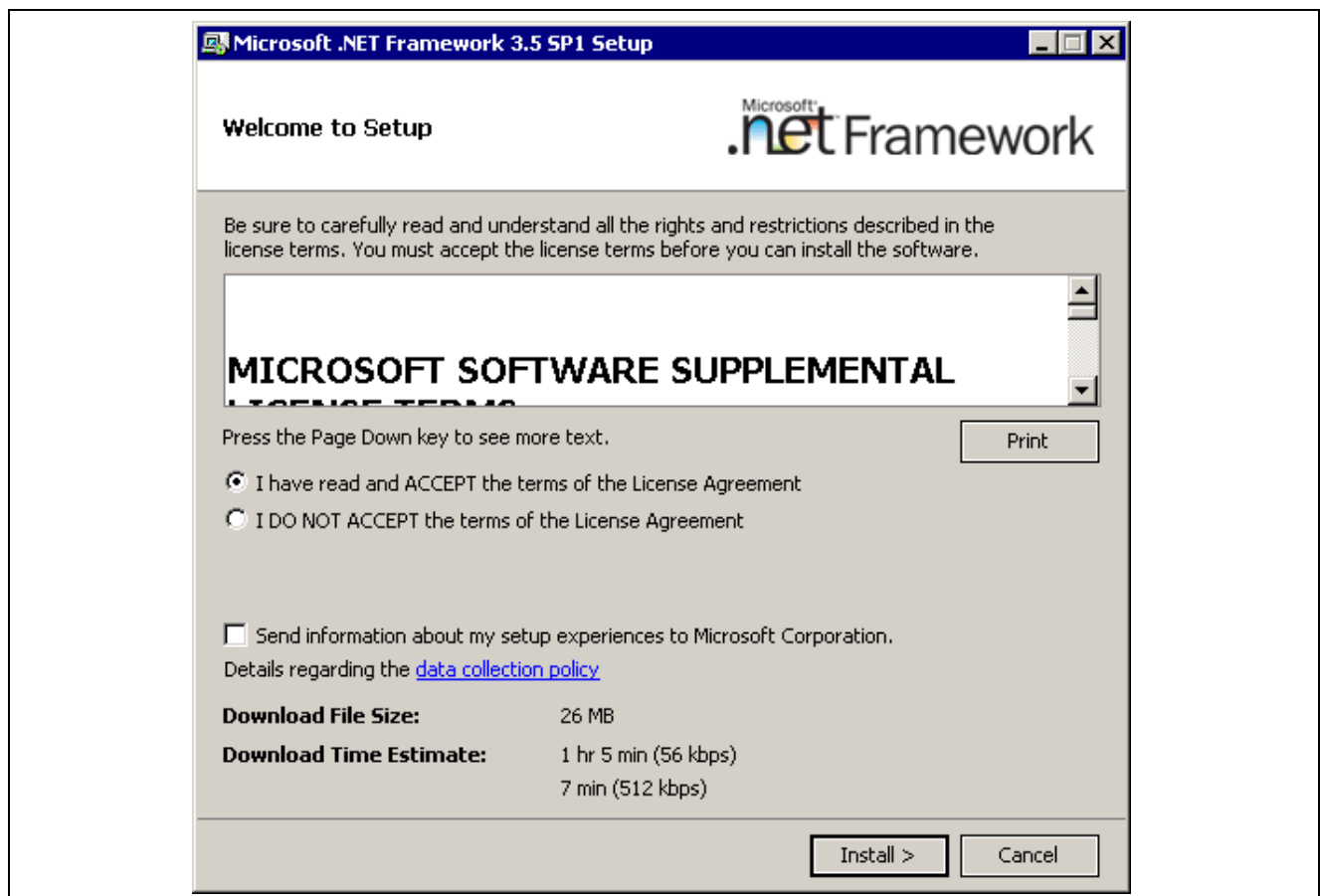
## Task 10A-8-1: Installing Microsoft .NET Framework 3.5 SP1

Use the following steps to install Microsoft .NET Framework 3.5 SP1.

**Note.** If your operating system is Microsoft Windows 2008 R2, see the following section.

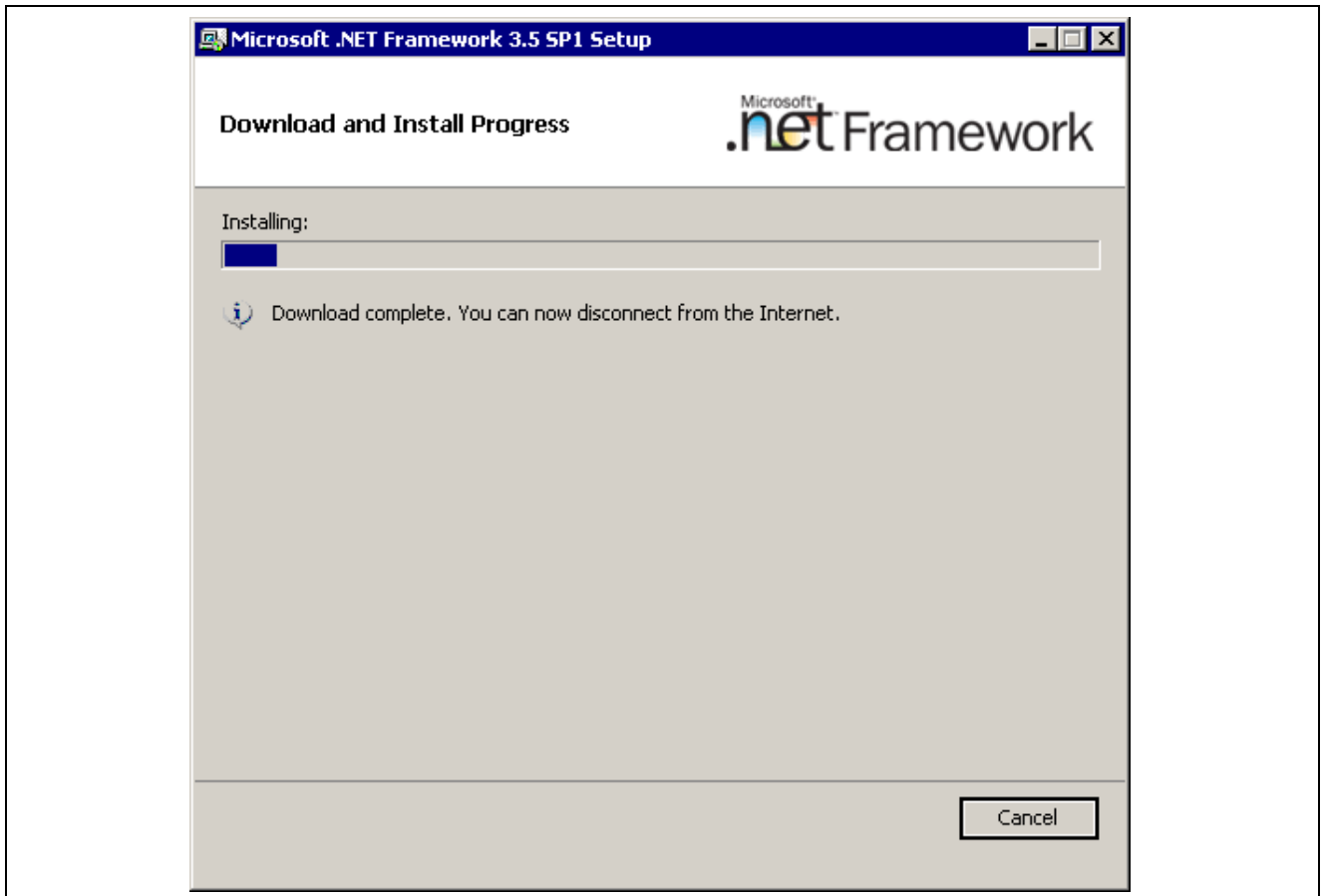
See Verifying the Microsoft .NET Framework 3.5 SP1 Installation on Windows 2008 R2.

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\dotnet35redist*.
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.



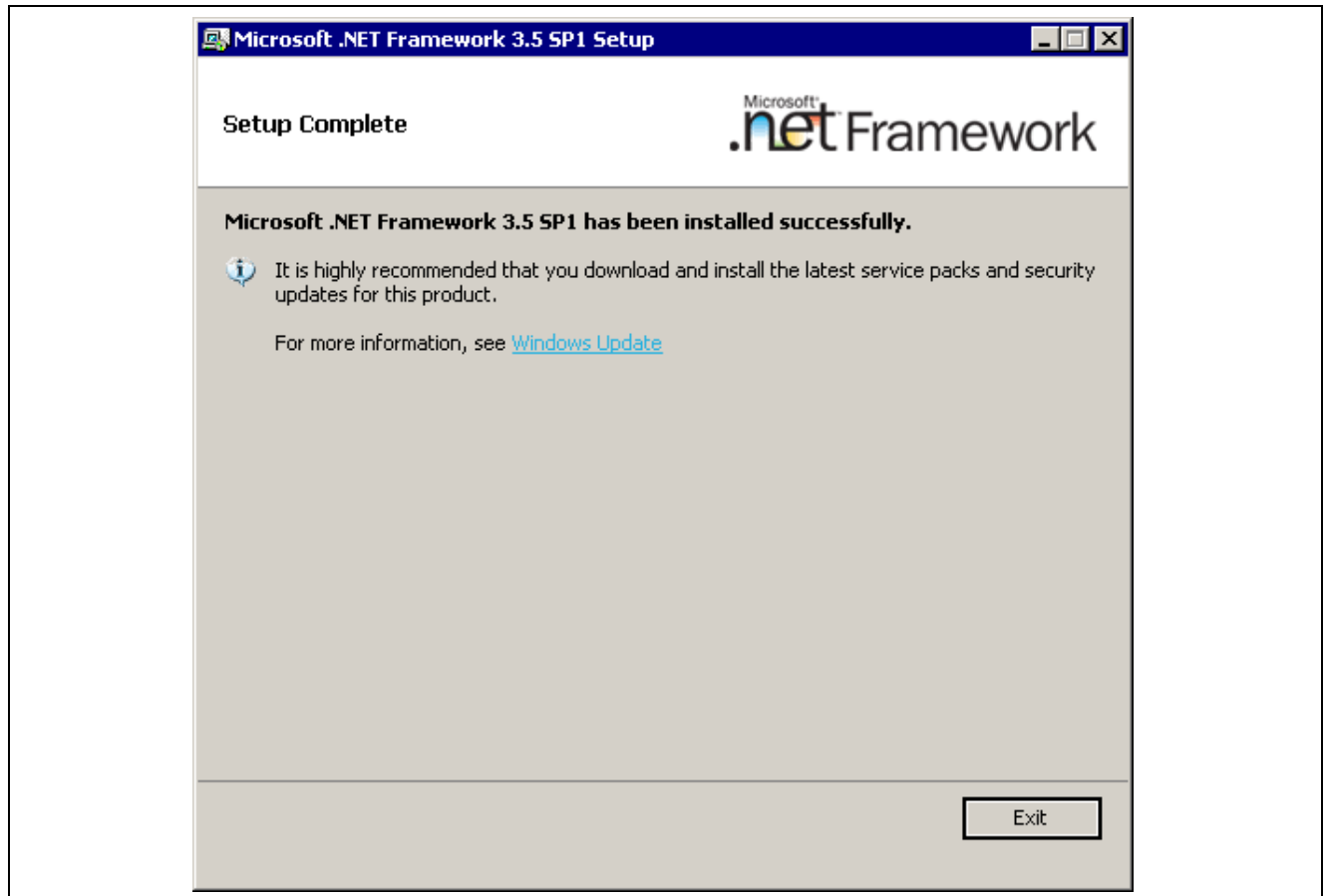
Microsoft .NET Framework 3.5 SP1 Setup Welcome to Setup window

You see a progress window. Do *not* close the installer window when you see the message indicating that you can disconnect from the Internet when the download is complete, 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.



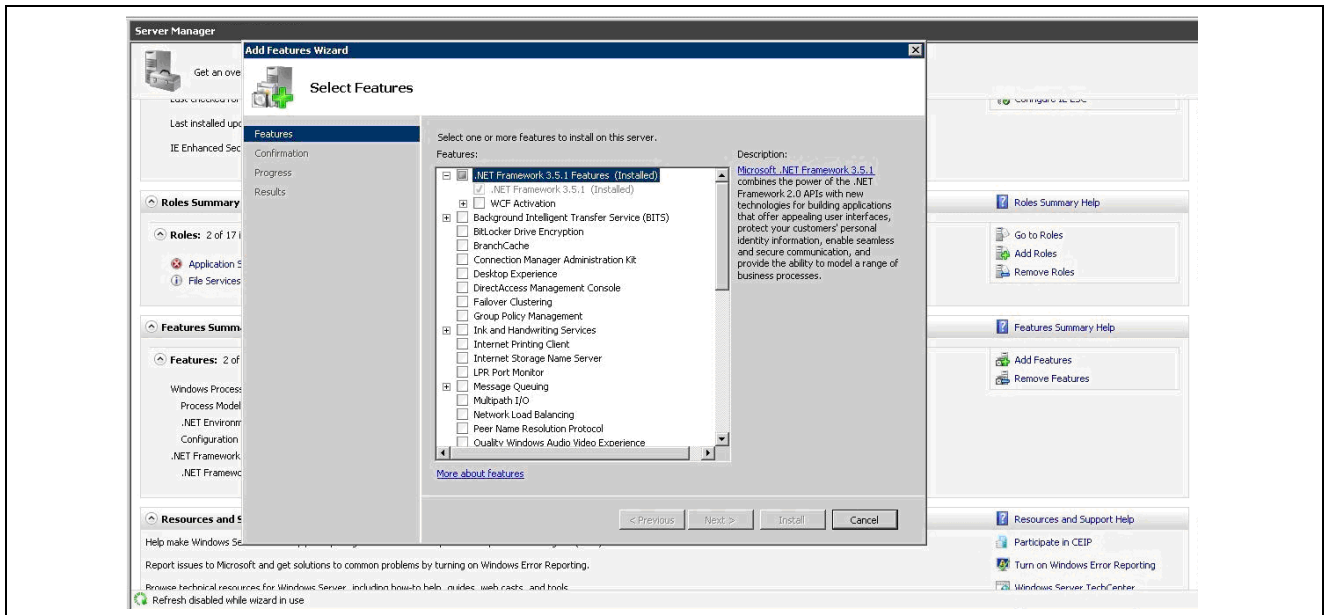
Microsoft .NET Framework 3.5 SP1 Setup Complete window

## Task 10A-8-2: Verifying the Microsoft .NET Framework 3.5 SP1 Installation on 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.
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 Feature Wizard dialog box

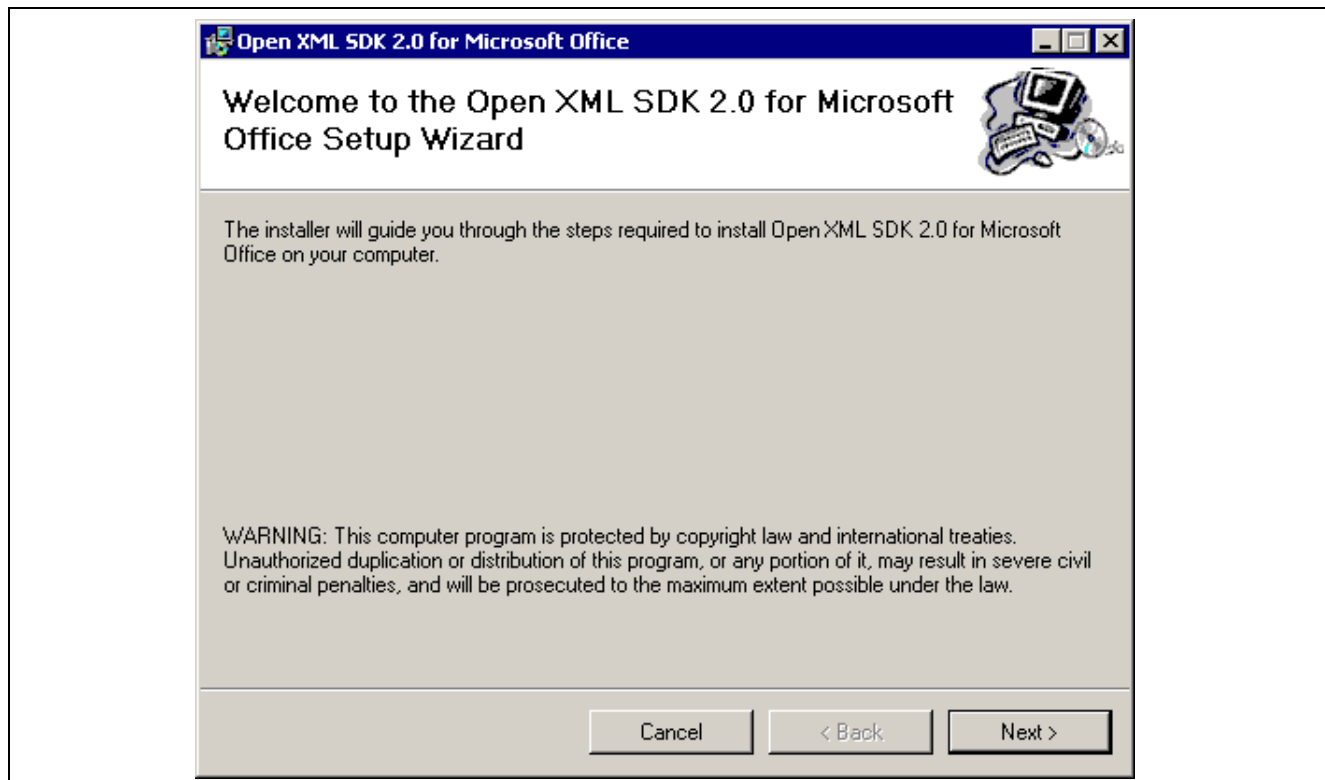
4. If Microsoft .NET Framework 3.5 SP1 is listed in the list of features, it means it is installed on this computer, but not enabled.  
To enable this feature, select the check box for Microsoft .NET Framework 3.5 SP1 and complete the Add Feature process. Consult the Microsoft Windows documentation for 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.

## Task 10A-8-3: Installing Open XML SDK 2.0

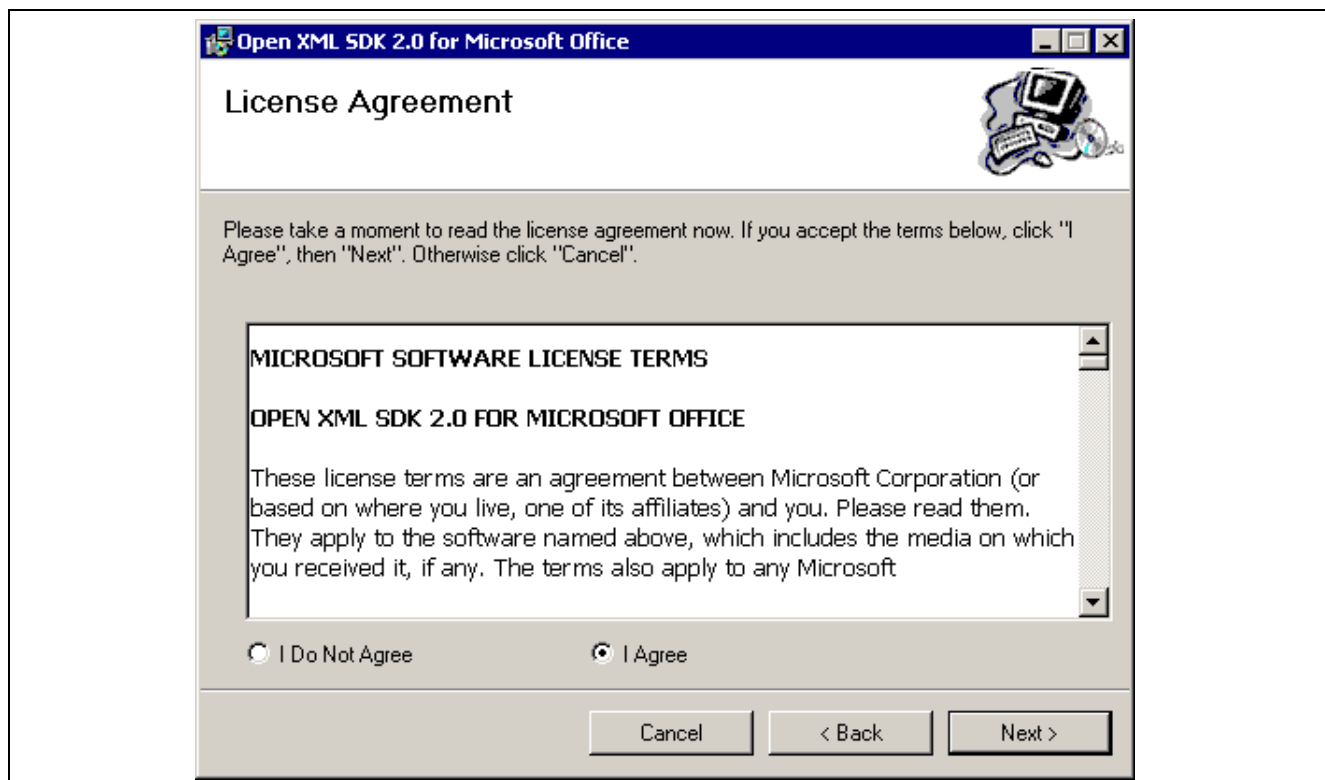
To install Microsoft Open XML SDK V2.0:

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

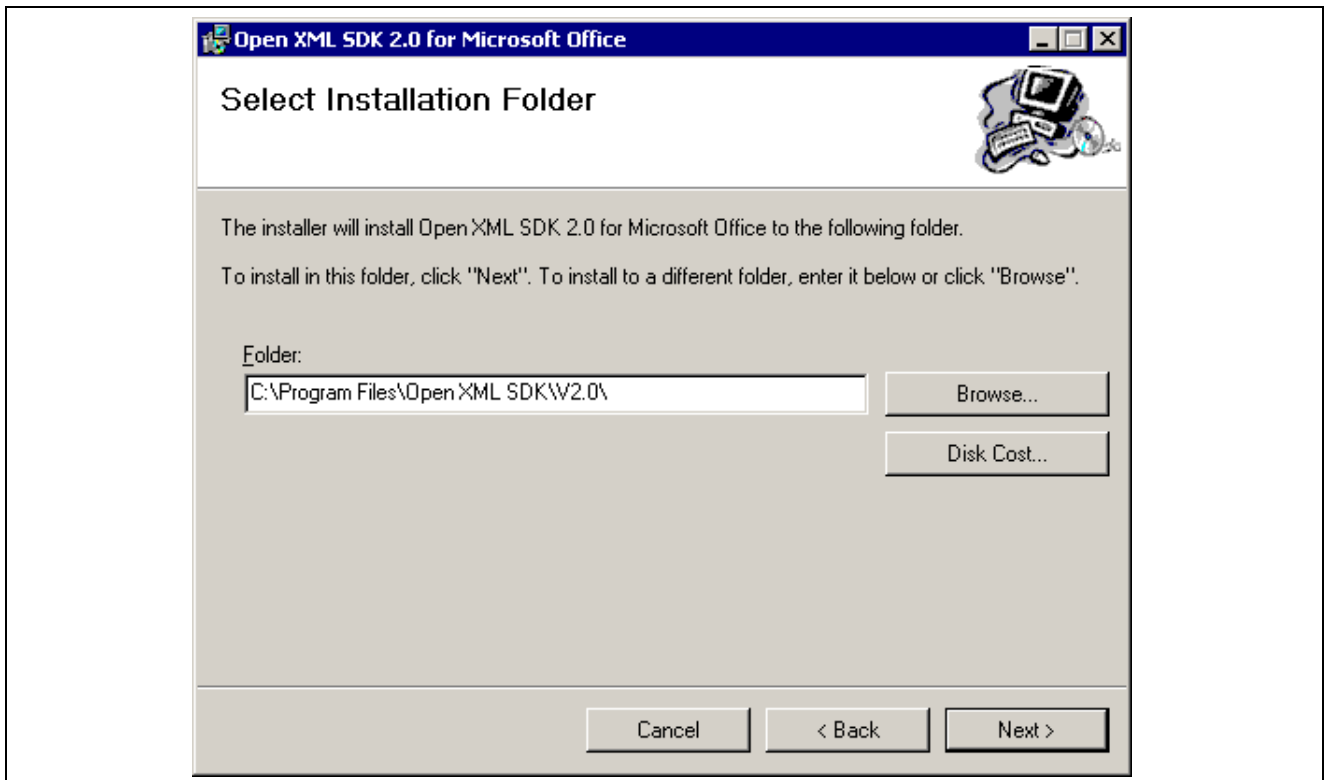
4. Review the license agreement, select the option I agree, and then click Next.



Microsoft Open XML SDK 2.0 License Agreement window

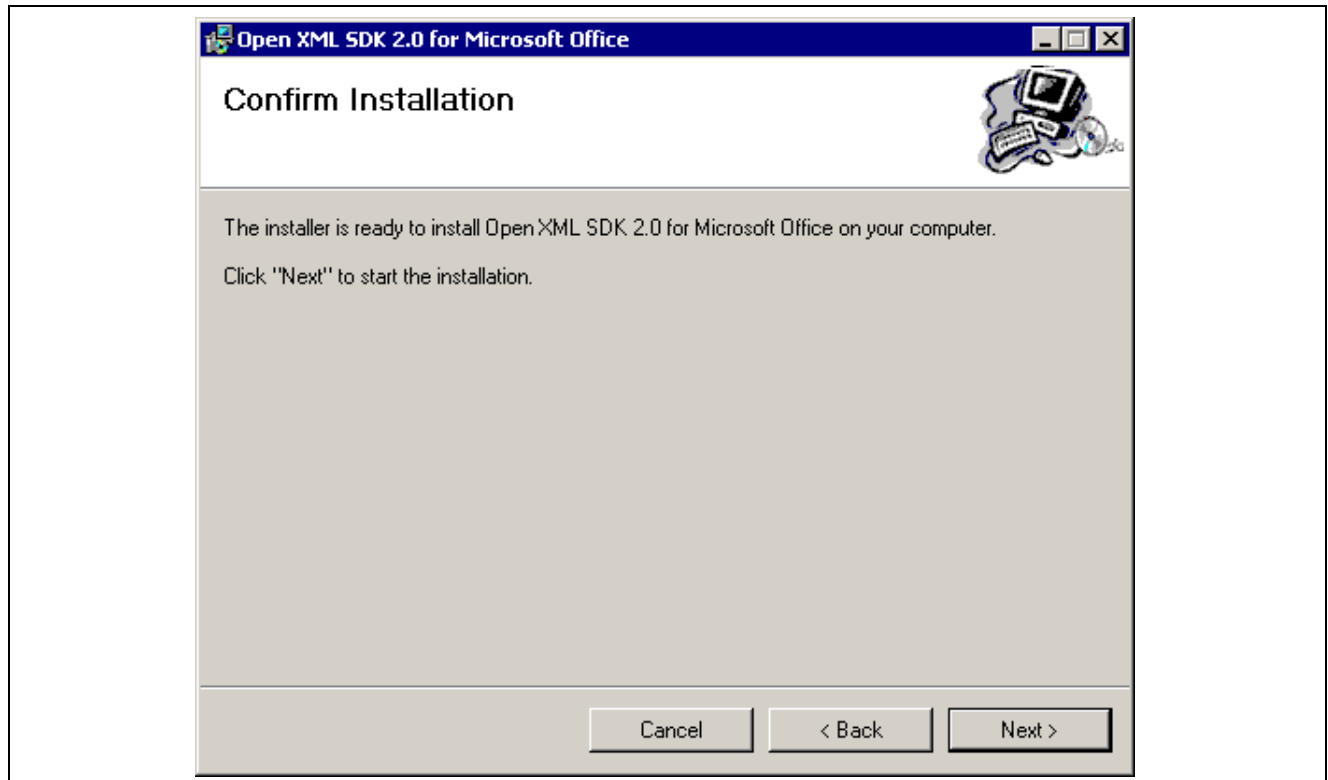


5. Accept the default location for the installation, C:\Program Files\Open XML SDK\V2.0, and then click Next.



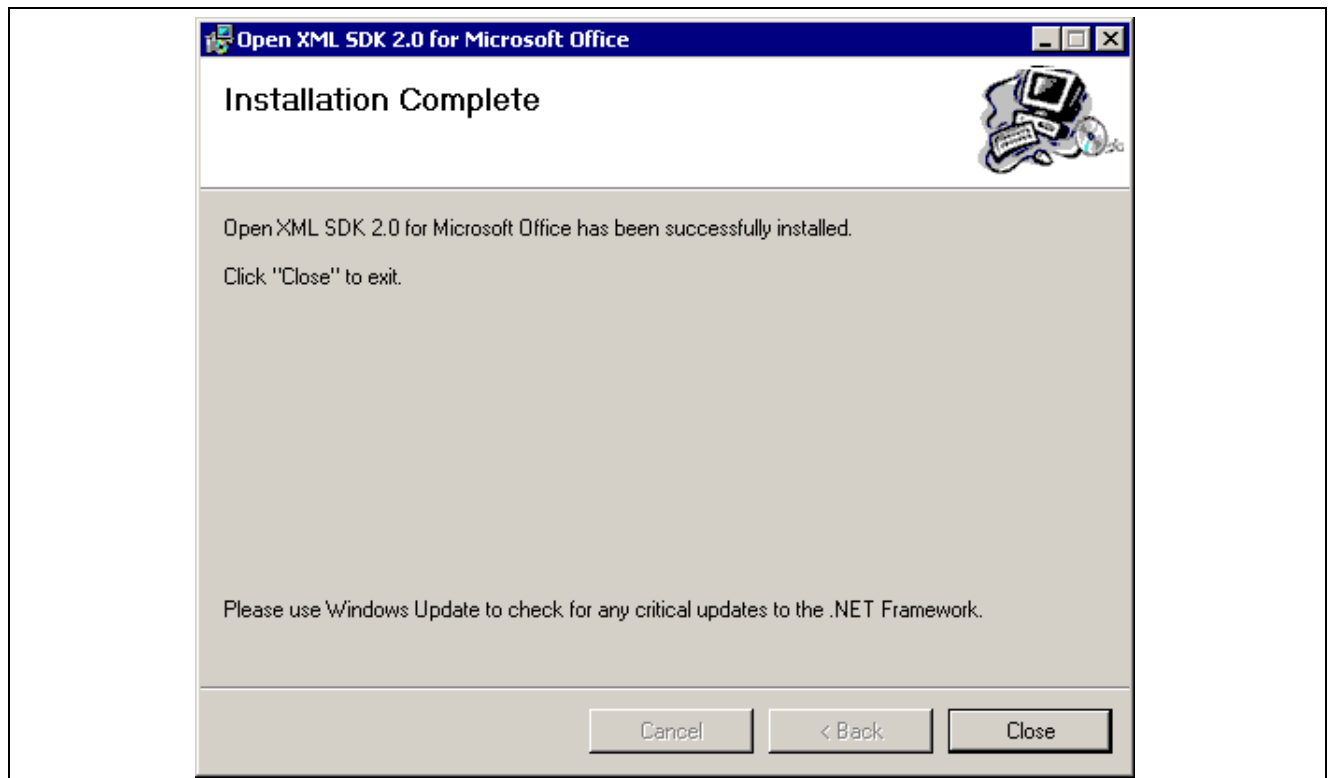
Microsoft Open XML SDK 2.0 Select Installation Folder window

6. Click Next 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

## CHAPTER 10B

# Setting Up Process Scheduler on UNIX

This chapter discusses:

- Prerequisites
- Setting Up Process Scheduler Security
- Setting Up Process Scheduler to Transfer Reports and Logs to the Report Repository
- Setting Up Process Scheduler Server Agent

---

## Prerequisites

If your database runs on UNIX, you need to set up a Microsoft Windows batch environment on a Microsoft Windows application server or on a dedicated Microsoft Windows workstation for Microsoft Windows-specific batch processes, such as Crystal Reports, nVision reports, Microsoft Word, or Cube Manager. These processes are Microsoft Windows-specific applications that cannot be executed by the Process Scheduler on UNIX.

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.
- 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:

```
$HOME/psft/pt/<peopletools_version>
```

See "Preparing for Installation," Defining Server Domain Configurations.

See *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*, "Working with Server Domain Configurations."

### See Also

*Enterprise PeopleTools 8.51 Hardware and Software Requirements*

*Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Process Scheduler*

My Oracle Support, Certifications

---

## Task 10B-1: Setting Up Process Scheduler Security

This section discusses:

- Understanding Process Scheduler Security
- 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 within your PeopleSoft database.

You must carry out this task to start Process Scheduler successfully.

### Task 10B-1-1: 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.

General

ID

Roles

Workflow

Audit

Links

User ID Queries

User ID: VP1

Description: VP of Corporate Planning

Customize

Find

View All

First

1-10 of 10

Last

| Role Name             | Description                  | Dynamic                  |                               | View Definition                 |   |   |
|-----------------------|------------------------------|--------------------------|-------------------------------|---------------------------------|---|---|
| Coordinator           | Coordinator                  | <input type="checkbox"/> | <a href="#">Route Control</a> | <a href="#">View Definition</a> | + | - |
| PAPP_USER             | Enterprise Portal User       | <input type="checkbox"/> | <a href="#">Route Control</a> | <a href="#">View Definition</a> | + | - |
| Packaging             | Env. Mgmt. Packaging         | <input type="checkbox"/> | <a href="#">Route Control</a> | <a href="#">View Definition</a> | + | - |
| PeopleSoft Administra | PeopleSoft Admin Privileges  | <input type="checkbox"/> | <a href="#">Route Control</a> | <a href="#">View Definition</a> | + | - |
| PeopleSoft User       | PeopleSoft User              | <input type="checkbox"/> | <a href="#">Route Control</a> | <a href="#">View Definition</a> | + | - |
| PeopleTools           | PeopleTools                  | <input type="checkbox"/> | <a href="#">Route Control</a> | <a href="#">View Definition</a> | + | - |
| ProcessSchedulerAdm   | Process Scheduler Admin      | <input type="checkbox"/> | <a href="#">Route Control</a> | <a href="#">View Definition</a> | + | - |
| ReportDistAdmin       | Report Distribution Admin    | <input type="checkbox"/> | <a href="#">Route Control</a> | <a href="#">View Definition</a> | + | - |
| UPG_ALLPANLS          | ALLPANLS                     | <input type="checkbox"/> | <a href="#">Route Control</a> | <a href="#">View Definition</a> | + | - |
| UPG_APPSRVR           | Can start application server | <input type="checkbox"/> | <a href="#">Route Control</a> | <a href="#">View Definition</a> | + | - |

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 10B-2: 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.

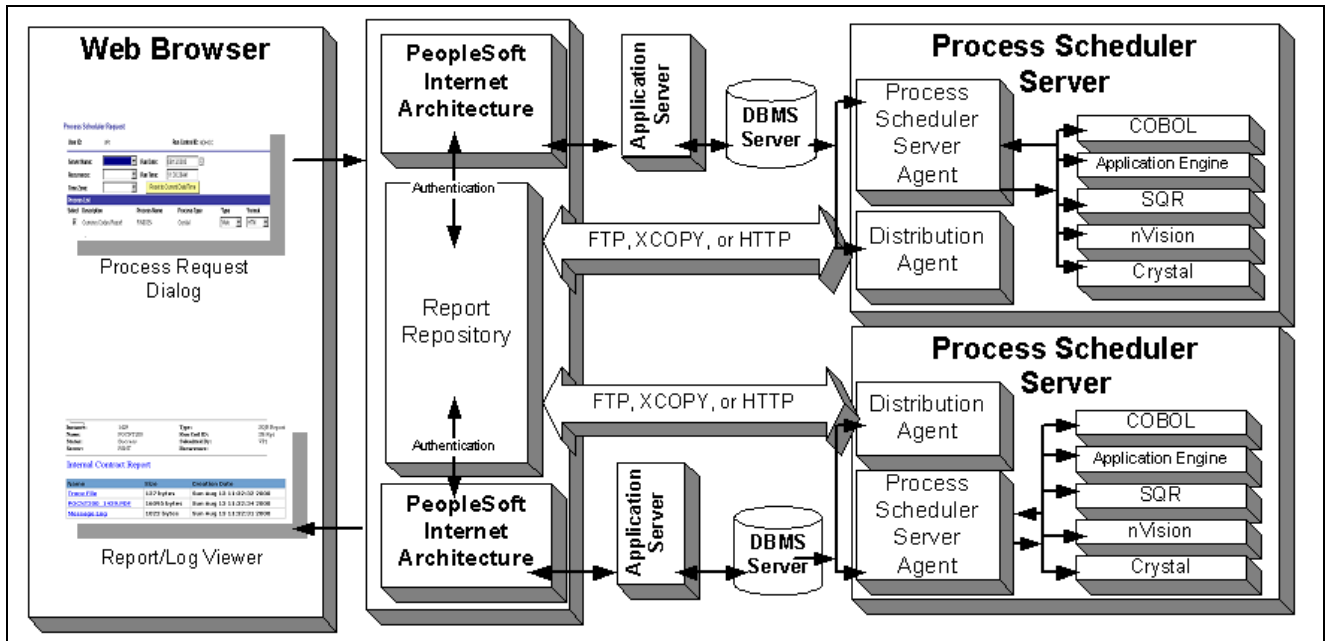
The Distribution Agent transfers files to the Report Repository when one of these criteria is true:

- 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 the Distribution Status 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 yyymmdd>\<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.



Process Scheduler and Report Repository Architecture

**Note.** The PeopleSoft Pure Internet Architecture must be installed for Process Scheduler to be able to transfer reports to the Repository.

**Note.** Before users can view a report, they are authenticated against the PeopleSoft database.

**Note.** 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 PeopleBook.

See *Enterprise PeopleTools 8.51 PeopleBook: Security Administration*.

## Task 10B-2-1: 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 *Enterprise PeopleTools 8.51 PeopleBook: Security Administration*, "Implementing Single Signon."

- 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

*Enterprise PeopleTools 8.51 PeopleBook: Security Administration*

## Task 10B-2-2: 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. If you have a Windows Process Scheduler and a Windows web server, you can use either an XCOPY, FTP, or HTTP/HTTPS. (If FTP information is not specified, Process Scheduler will perform an XCOPY.) If you have any other combination of servers (such as a Windows or z/OS Process Scheduler and a UNIX web server), you must use FTP or HTTP/HTTPS.

---

**Note.** If you are using FTP, the FTP daemon must be set up in your web server.

---

---

**Note.** JRE is installed automatically on your Process Scheduler server.

---

## Task 10B-2-3: 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 10B-2-4: Setting Up the Report Repository

This section discusses:

- Defining ReportRepositoryPath
- Defining the Report Node to Use HTTP/HTTPS



- Defining the Report Node to Use 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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleTools Portal Technologies*, "Configuring the Portal Environment."

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.

**Http Distribution Node** | **FTP/XCopy Distribution Node**

### Report Node Definition

**Node Name:** HTTP

☐ Ftp/XCopy ☒ **Http Information**

**Distribution Node Details**

**URL:**

**Description:**

**Operating System:**

**Connection Information**

☒ **http** ☐ https

**URI Host:**  **URI Port:**

**URI Resource:**

**Login ID:**

**Password:**  **Confirm Password:**

Save Notify Add Update/Display

[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 basic authentication is optional, but is recommended for security of the Report Repository when using the HTTP to transfer files. For detailed instructions on setting up basic authentication on the web server where the Report Repository resides, refer to the appendix “Securing the Report Repository for HTTP.”

---

- *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 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 UNIX, the default directory is <user\_home>/PeopleSoft Internet Architecture/psreports/.

- *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 10B-2-5: 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 PSUNIX). The Server Definition page appears.
3. Select the Distribution tab.

The screenshot shows the 'Distribution' tab of the 'Server Definition' page. The 'Server Name' is 'PSUNIX'. The 'Server Distribution Details' section contains the following fields:

- Distribution Node Name:** A text input field with a search icon.
- Maximum Transfer Retries:** A text input field.
- Interval for Transfer Attempt:** A text input field followed by the word 'seconds'.
- Transfer System Files to Report Repository:** A checkbox.

At the bottom, there are buttons for 'Save', 'Return to Search', 'Notify', 'Add', and 'Update/Display'. Below the buttons are links for 'Server Definition', 'Distribution', 'Operation', 'Notification', and 'Daemon'.

Server Definition page: Distribution tab

4. Click the lookup button 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 10B-2-6: 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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Integration Broker*.

See *Enterprise PeopleTools 8.51 PeopleBook: Integration Broker Service Operations Monitor*.

---

## Task 10B-3: Setting Up Process Scheduler Server Agent

This section discusses:

- Understanding Process Scheduler Server Agent
- Changing the Default Operating System
- Setting Up Your Environment
- 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 |
|-------------|------------------|
| PSUNIX      | UNIX             |

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 Process Scheduler PeopleBook.

See *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Process Scheduler*

---

**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 10B-3-1: Changing the Default Operating System

By default, Process Scheduler is set up to run a process request from a Process Scheduler Server Agent started in a Microsoft Windows server when the value of the *ServerName* field in the Process Request Dialog page is left blank. If you plan to run all processes other than Microsoft Windows-based programs (that is, nVision or Crystal Reports) from UNIX, you must change the default operating system.

---

**Note.** If you do not change the default operating system from Windows to UNIX and you do not plan to set up a Process Scheduler Server Agent in Microsoft Windows, process requests that are created will be directed to a Microsoft Windows-based operating system and will remain in the "Queued" status.

---

To change the default operating system for process requests that were not assigned a Process Scheduler Server Name:

1. Select PeopleTools, Process Scheduler, System Settings.
2. Under *Primary Operating System*, choose *UNIX* from the drop-down list.
3. Click on the *System Purge Options* tab. Enter the date for the next purge of process requests in the *Next Purge Date* field.

4. Enter the time for the next purge of process requests in the *Next Purge Time* field. The default time is 12:00:00AM.
5. Enter a *Recurrence* if you want to set a regular purging basis.
6. Choose *Save*.

## Task 10B-3-2: Setting Up Your Environment

Telnet to your UNIX system. Log in and ensure the following environment variables are set appropriately:

---

**Note.** The environment variables for Tuxedo must be set explicitly; they are not set by running `psconfig.sh`. These can be also set using the `.profile` file in the user's home directory.

---

- \$TUXDIR must be set to the correct Oracle Tuxedo installation directory; for example:  
`TUXDIR=/home/user/Oracle/tuxedo10gR3; export TUXDIR`
- \$TUXDIR/lib must be prepended to LD\_LIBRARY\_PATH, LIBPATH, or SHLIB\_PATH, whichever is appropriate for your platform; for example:  
`LD_LIBRARY_PATH=$TUXDIR/lib:$LD_LIBRARY_PATH; export LD_LIBRARY_PATH`
- \$TUXDIR/bin must be prepended to PATH; for example:  
`PATH=$TUXDIR/bin:$PATH; export PATH`

Alternatively, make sure the following environment variables are set in the profile file in the user's home directory:

Remember, you only need COBOL if your application requires COBOL.

See *Enterprise PeopleTools 8.51 Hardware and Software Requirements*.

- \$SYBASE, \$SYBASE\_ASE, and \$SYBASE\_OCS must point to the correct Sybase installation; for example:  
`$SYBASE=/products/sybase/15.0.1;export SYBASE`  
`$SYBASE_ASE=ASE-15_0; export SYBASE_ASE`  
`$SYBASE_OCS=OCS-15_0; export SYBASE_OCS`
- \$SYBASE/\$SYBASE\_ASE/bin and \$SYBASE/\$SYBASE\_OCS/bin must be added to PATH.
- \$SYBASE/\$SYBASE\_ASE/lib and \$SYBASE/\$SYBASE\_OCS/lib must be appended to LD\_LIBRARY\_PATH, LIBPATH, or SHLIB\_PATH, whichever is appropriate for your platform.
- \$DSQUERY must be set to the correct instance.
- \$COBDIR must be set to the Micro Focus Server Express installation; for example:  
`COBDIR=/cobol/prod/svrexpress-5.1_wp4;export COBDIR`
- \$COBDIR/lib must be appended to LD\_LIBRARY\_PATH, LIBPATH, or SHLIB\_PATH, whichever is appropriate for your platform.  
`LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$COBDIR/lib;export LD_LIBRARY_PATH`  
`LIBPATH=$LIBPATH:$COBDIR/lib;export LIBPATH`  
`SHLIB_PATH=$SHLIB_PATH:$COBDIR/lib;export SHLIB_PATH`
- \$COBDIR/bin must be appended to the PATH; for example:



```
PATH=$PATH:$COBDIR/bin;export PATH
```

To set the required PeopleSoft environment variables, run `psconfig.sh`. Go to the `PS_HOME` directory and enter the following command:

```
. ./psconfig.sh
```

## Task 10B-3-3: Creating and Configuring a Process Scheduler Server

This section describes how to create and configure a Process Scheduler server.

---

**Note.** 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.** 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

1) Application Server
2) Process Scheduler
3) Search Server
q) Quit
```

Command to execute (1-3 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

- 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 :

- 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 -- Scheduler for Database: HRDMO

 Features Settings
 ===== =====
1) Master Schdlr : Yes 5) DBNAME : [HRDMO]
2) App Eng Server : Yes 6) DBTYPE : [SYBASE]
 7) PrcsServer : [PSUNIX]
 8) UserId : [QEDMO]
 9) UserPswd : [QEDMO]
 10) ConnectID : [people]
 11) ConnectPswd : [peop1e]
 12) ServerName : [AZSUN15J]
 Actions 13) Log/Output Dir : [%PS_SERVDIR%/log_output]
 ===== 14) SQRBIN : [%PS_HOME%/bin/sqr/SYB/bin]
3) Load config as shown 15) AddToPATH : [%PS_HOME%/cblbin]
4) Custom configuration
h) Help for this menu
q) Return to previous menu
```

HINT: Enter 5 to edit DBNAME, then 3 to load

Enter selection (1-15, h, or q):

- 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 Schdlr        | Flag to enable the Master Scheduler Server (PSMSTPRC). Default is to enable the server.<br><br>See Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Process Scheduler.                                      |
| App Eng Server       | Flag to initiate Application Engine programs through the AE Tuxedo Server (PSAESRV). Default is set to run AE using PSAESRV.<br><br>See Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Process Scheduler. |
| Load config as shown | Load the selections you made in the Quick Configure menu.                                                                                                                                                     |

| Parameter            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Custom configuration | Make custom selections in PSADMIN, using options that are not available in the Quick Configure menu.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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: SYBASE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PrsServer            | Specify the process server name. This must match the name defined in the Server Definition table, such as <i>PSNT</i> or <i>PSUNIX</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 user password. For Enterprise Resource Planning, this is typically <i>VPI</i> , and for Human Resources it's <i>PS</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ConnectID            | Enter the connect ID. This value is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ConnectPswd          | Enter the connect password. This value is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ServerName           | This value is required for Sybase 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| AddToPATH            | (Optional for Tuxedo) Specify an additional directory that is appended to the PATH environment variable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| DBBIN                | Enter the path to the database drivers; that is, your connectivity software.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

For descriptions of the PSADMIN options that do not appear in the Quick-configure menu, consult the following. For a basic install, in most cases you can accept the defaults.

See *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Process Scheduler*.

- 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*.
- To start Process Scheduler, choose *1*, for Administer Domain.
- 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*, 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 10B-3-4: 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.

6. 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 *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*.

- If you do not want to change any values, specify *n* and you are prompted for the next configuration section.

7. 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, consult the following. In most cases you can accept the defaults.

See *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Process Scheduler*.

## Task 10B-3-5: 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:

1. 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 |
|--------------|-------------|----------|-----|--------|-----------|-----------------|
| DDL          | 46845       | pt-ibm20 | 0   | 9      | 450 (     | IDLE )          |
| PSMONITORSRV | MONITOR     | MONITOR  | 1   | 0      | 0 (       | IDLE )          |
| PSAESRV      | 00101.00001 | AESRV    | 1   | 0      | 0 (       | IDLE )          |
| PSAESRV      | 00101.00002 | AESRV    | 2   | 0      | 0 (       | IDLE )          |
| PSAESRV      | 00101.00003 | AESRV    | 3   | 0      | 0 (       | IDLE )          |
| PSPRCRV      | SCHEDQ      | BASE     | 101 | 0      | 0 (       | IDLE )          |
| PSMSTPRC     | MSTRSCHQ    | BASE     | 102 | 0      | 0 (       | IDLE )          |
| PSDSTSRV     | DSTQ        | BASE     | 103 | 0      | 0 (       | IDLE )          |

| > Prog Name | Queue Name | # Serve | Wk Queued | #Queued | Ave. Len | Machine  |
|-------------|------------|---------|-----------|---------|----------|----------|
| PSDSTSRV    | DSTC       | 1       | -         | 0       | -        | pt-ibm20 |

>

---

**Note.** You can also do this using the following command line argument:

**psadmin -p status -d <DBNAME>**

---

---

**Note.** 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*.

---

This example of the Server List page shows two Process Scheduler servers with status Down, and one with status Running.





## CHAPTER 11

# 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 Files from Oracle E-Delivery
- Installing Crystal Reports 2008
- 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 your Crystal Reports environment. Depending on the type of installation that you have, some parts of this chapter may not be relevant to you.

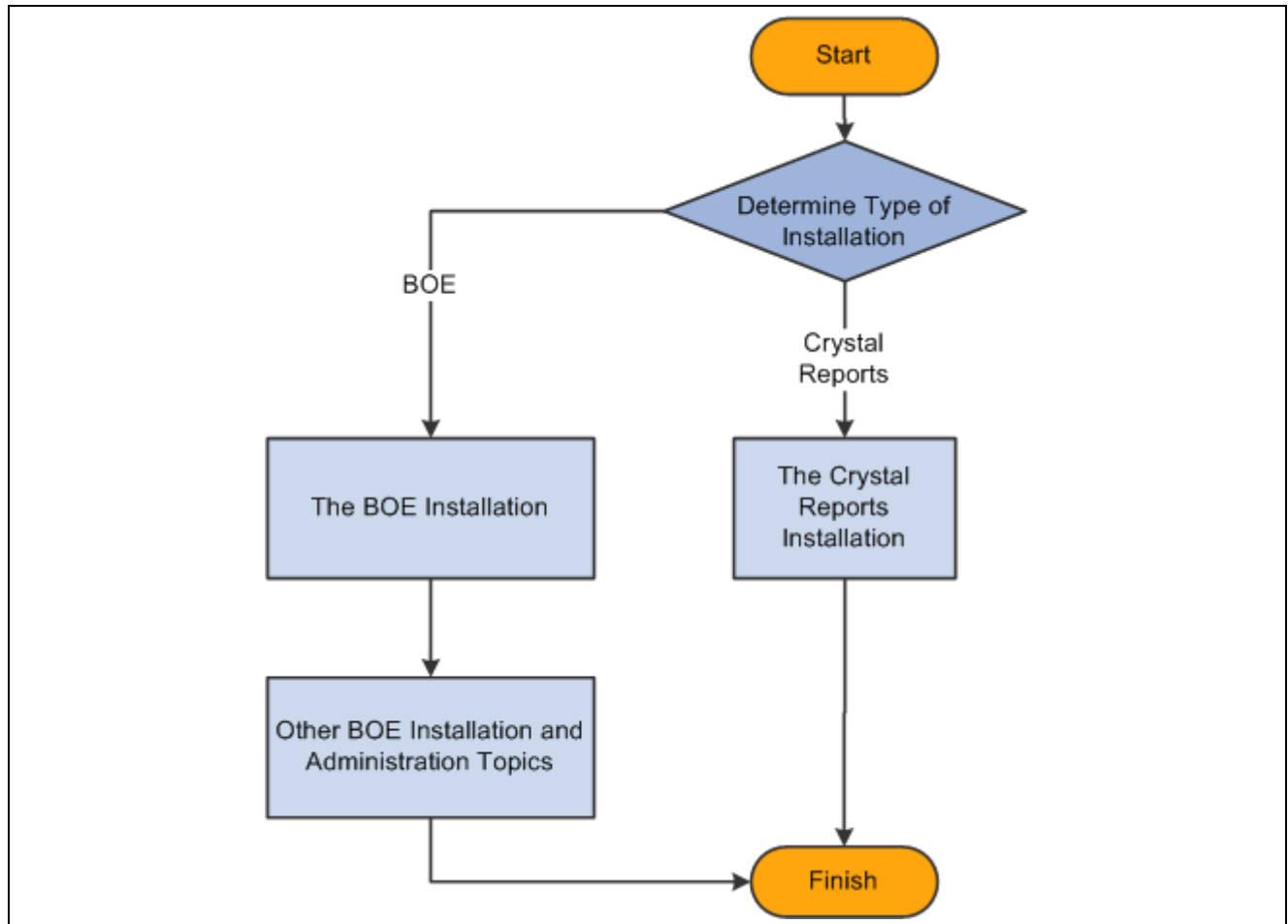
The chapter is divided into sections. Within each section are parts that provide informative background information or describe installation and administration tasks.

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 Crystal Reports 2008.

---



Using this chapter to install the software for Crystal Reports

### See Also

*Enterprise PeopleTools 8.51 PeopleBook: Crystal Reports for PeopleSoft*

My Oracle Support, Certifications

## Task 11-1: Determining the Crystal Reports Runtime Environment

PeopleSoft applications are delivered to work with the Crystal Reports 2008 runtime environment. Process Scheduler report definitions are configured to use the Crystal Reports 2008 print engine, and the Crystal Report definition files delivered with the PeopleSoft installation are in the Crystal Reports 2008 format. You use the Crystal Reports 2008 product to create and edit report definitions.

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 Crystal Reports 2008 product to create and edit report definitions.

---

**Note.** For the exact version of Crystal Reports 2008 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 must use either Crystal Reports 2008 or SAP BusinessObjects Enterprise XI 3.1—you cannot run a “mixed” environment where some reports are run using Crystal 2008 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 Crystal Reports 2008 format.

The advantages of SAP BusinessObjects Enterprise XI 3.1 (compared to Crystal Reports 2008) are:

- Runs on other operating systems (AIX, HP-UX, Linux, 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.

The advantages of using the Crystal Reports 2008 runtime are:

- Works the same as previous releases of PeopleSoft PeopleTools
- Requires little configuration and administration
- Run to Crystal Reports 2008 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 Crystal Reports 2008 is that it runs only on Microsoft Windows.

---

## Task 11-2: Obtaining SAP BusinessObjects Enterprise and Crystal Reports Files from Oracle E-Delivery

You can obtain the SAP BusinessObjects Enterprise XI 3.1, Crystal Reports 2008, and Crystal Reports 2008 .NET Runtime redistributable installation software from the Oracle E-Delivery site. At this point you may have already downloaded the necessary files. If you did not, this section includes additional information on finding and using the files for SAP BusinessObjects Enterprise XI 3.1 and Crystal Reports 2008.

See "Preparing for Installation," Using Oracle E-Delivery to Obtain Installation Files.

To obtain the installation software for SAP BusinessObjects Enterprise XI 3.1 or Crystal Reports 2008:

1. After logging in to Oracle E-Delivery, 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.

Note that you must extract (unzip) the file on the platform for which it is intended. For example, if you download the zip file for Solaris, you must unzip it on Solaris to avoid problems. If you unzip the file to a staging directory on a Microsoft Windows computer and copy the staging directory to a Solaris, the stage area files may be corrupt.

2. Select the radio button for Third Party – Crystal Reports & BusinessObjects Enterprise XI with Translations Release 3.1 for PeopleSoft Media Pack and click Continue.
3. Determine the necessary files, and click Download. 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 *BOE\_INSTALL*.

Be sure to obtain all the necessary files for your installation. The available installation software includes the following:

- Crystal Reports 2008
  - Crystal Reports 2008 .NET Runtime redistributable
  - SAP BusinessObjects Enterprise XI 3.1
  - SAP BusinessObjects Enterprise integration kit for PeopleSoft
  - SAP BusinessObjects Enterprise XI 3.1 report migration files
  - Service packs or fix packs for SAP BusinessObjects Enterprise XI 3.1 and Crystal Reports 2008
4. Extract the files into *BOE\_INSTALL*.
  5. After you download the installation files from Oracle E-Delivery, 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.

---

## Task 11-3: Installing Crystal Reports 2008

This section discusses:

- Understanding the Crystal Reports 2008 Installation
- Installing Crystal Reports 2008 SP1

- Installing Crystal Reports 2008 SP2 Service Pack
- Installing Crystal Reports 2008 SP2 .NET Runtime

## Understanding the Crystal Reports 2008 Installation

The Crystal Reports 2008 Application installation is required for Windows-based workstations (also referred to as the PeopleTools Development Environment) where reports will be designed. Process Scheduler servers that will be used to run Crystal Reports do not require the Crystal Reports 2008 Application to be installed, but do require that the Crystal Reports 2008 .NET Runtime be installed. 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 Crystal Reports 2008.

---

You can install Crystal Reports 2008 locally on a workstation where reports will be designed. You can also install Crystal Reports to a network file server; typically it would be installed to a subdirectory of the *PS\_HOME* directory. If you install Crystal Reports to a network file server, you need to run a Crystal Reports setup on each Windows-based workstation or batch server where Crystal Reports will be designed. To do so, make sure to select the Complete installation when running the setup program.

---

**Note.** For additional instructions on installing Crystal Reports 2008, see the Crystal installation documentation. You can find this in the *BOE\_INSTALL\docs* directory as *install.pdf*.

---

---

**Note.** To install Crystal Reports on a local machine but run it from the network, consult the Crystal Reports documentation.

---

### See Also

*Enterprise PeopleTools 8.51 PeopleBook: Crystal Reports for PeopleSoft, "Using Crystal Reports 2008"*

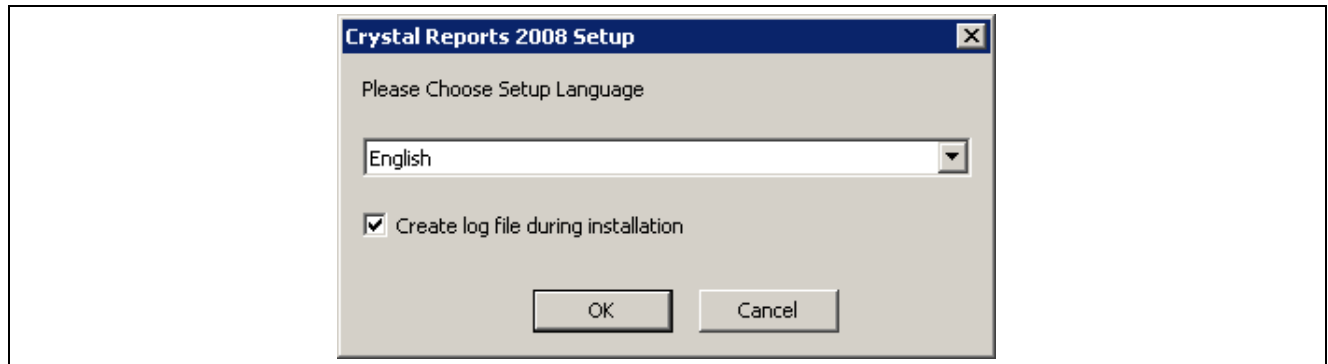
## Task 11-3-1: Installing Crystal Reports 2008 SP1

To install Crystal Reports 2008 SP2, first install Crystal Reports 2008 SP1, and then the Crystal Reports 2008 SP2 service pack. The installation files for Crystal Reports 2008 SP1 are included on Oracle E-Delivery in the PeopleSoft PeopleTools 8.51 media pack, as previously discussed.

See Obtaining SAP BusinessObjects Enterprise and Crystal Reports Files from Oracle E-Delivery.

To install Crystal Reports 2008 SP1:

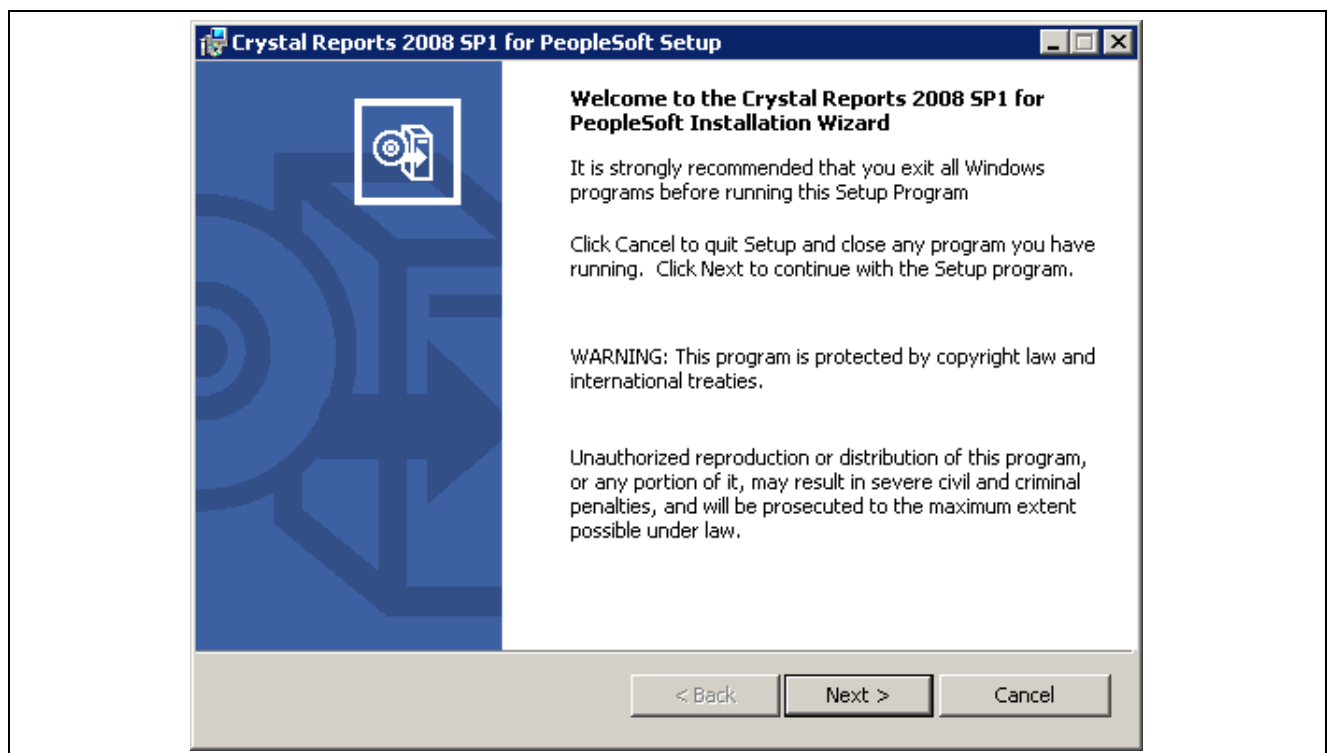
1. Change directory to *BOE\_INSTALL* and run *setup.exe*.
2. Select the setup language.  
Select the option to Create a log file during installation if desired.



Crystal Reports 2008 Setup dialog box

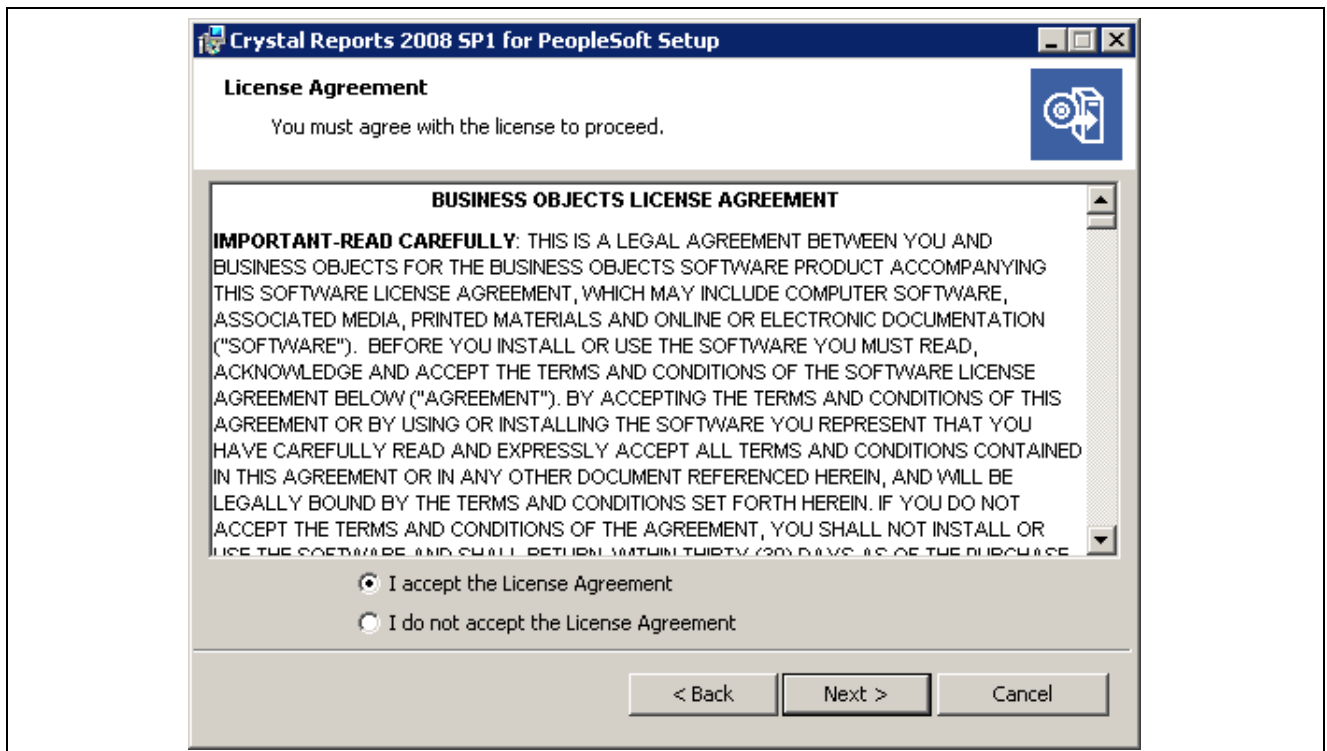
The Welcome window appears.

3. Click Next.



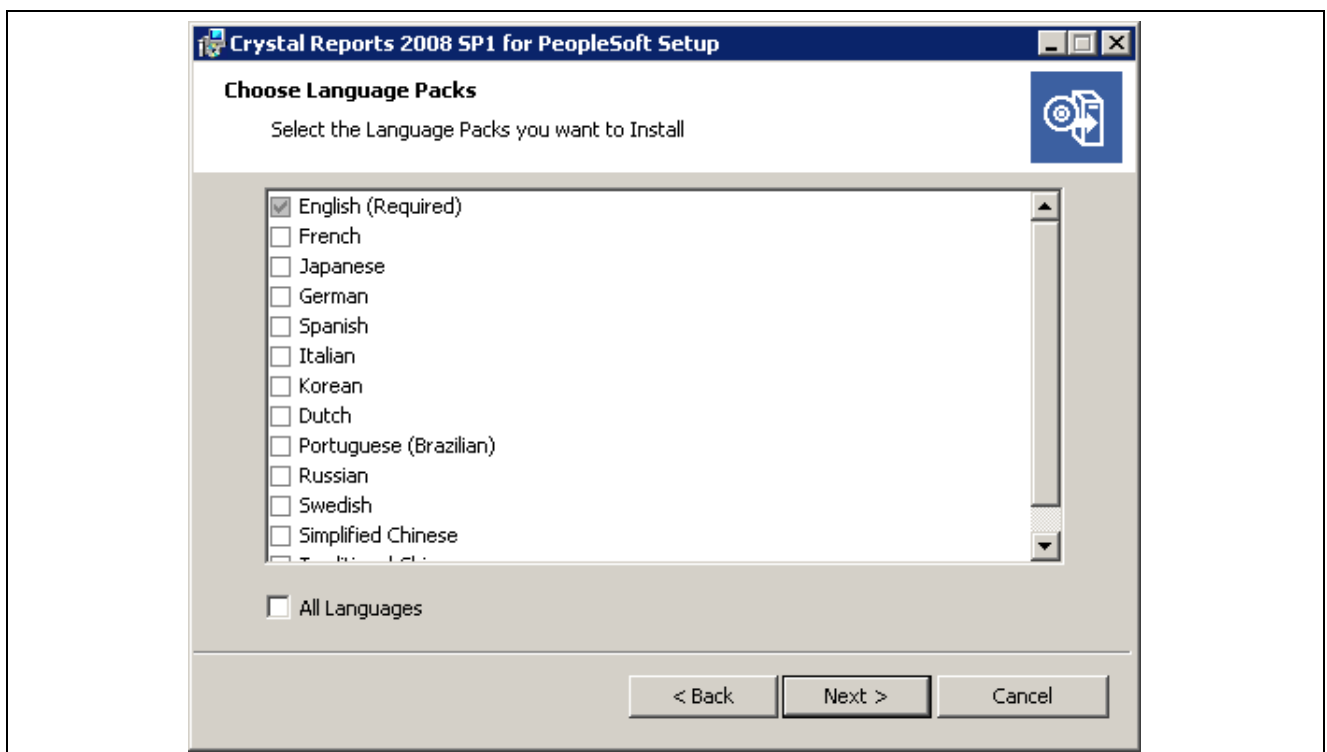
Crystal Reports 2008 SP1 Welcome window

4. Select the I accept the License Agreement radio button and click Next.



Crystal Reports 2008 SP1 License Agreement window

5. Select the languages that you want to install and click Next.

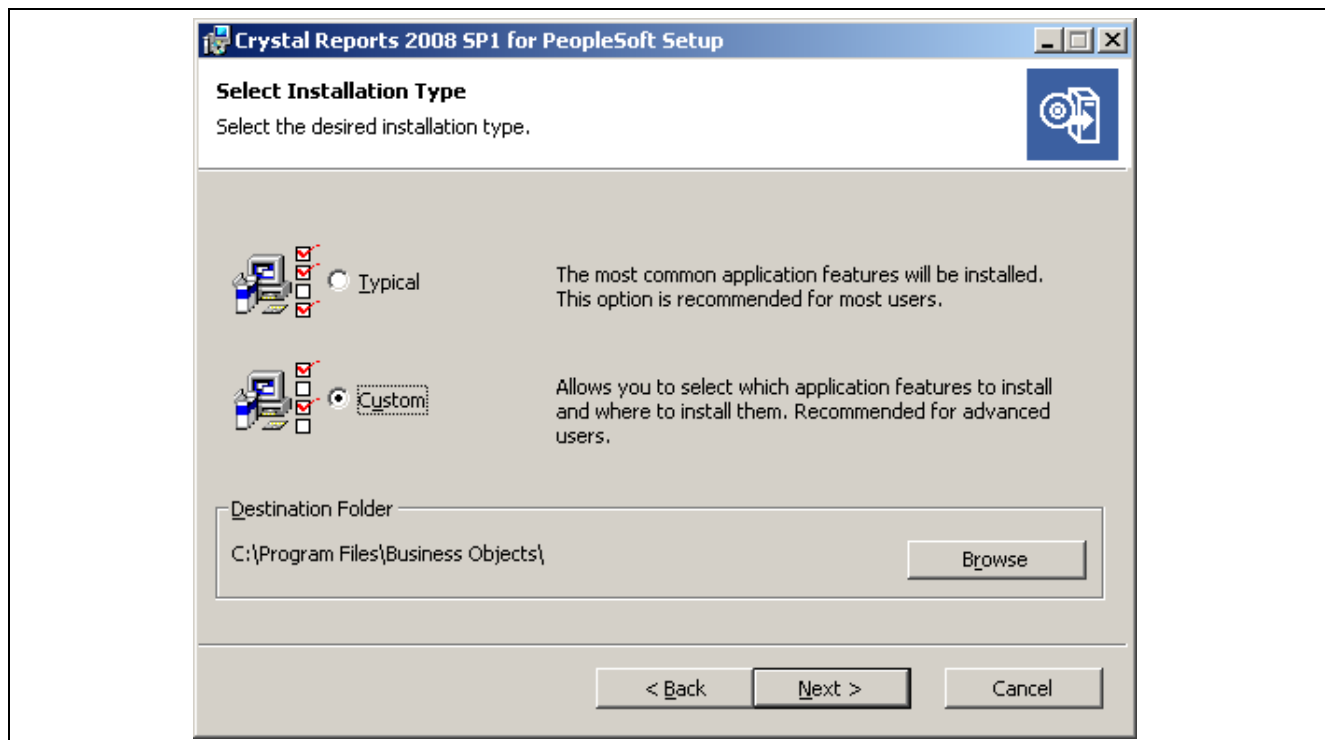


Crystal Reports 2008 SP1 Choose Language Packs window

6. Select the Custom option and click Next.

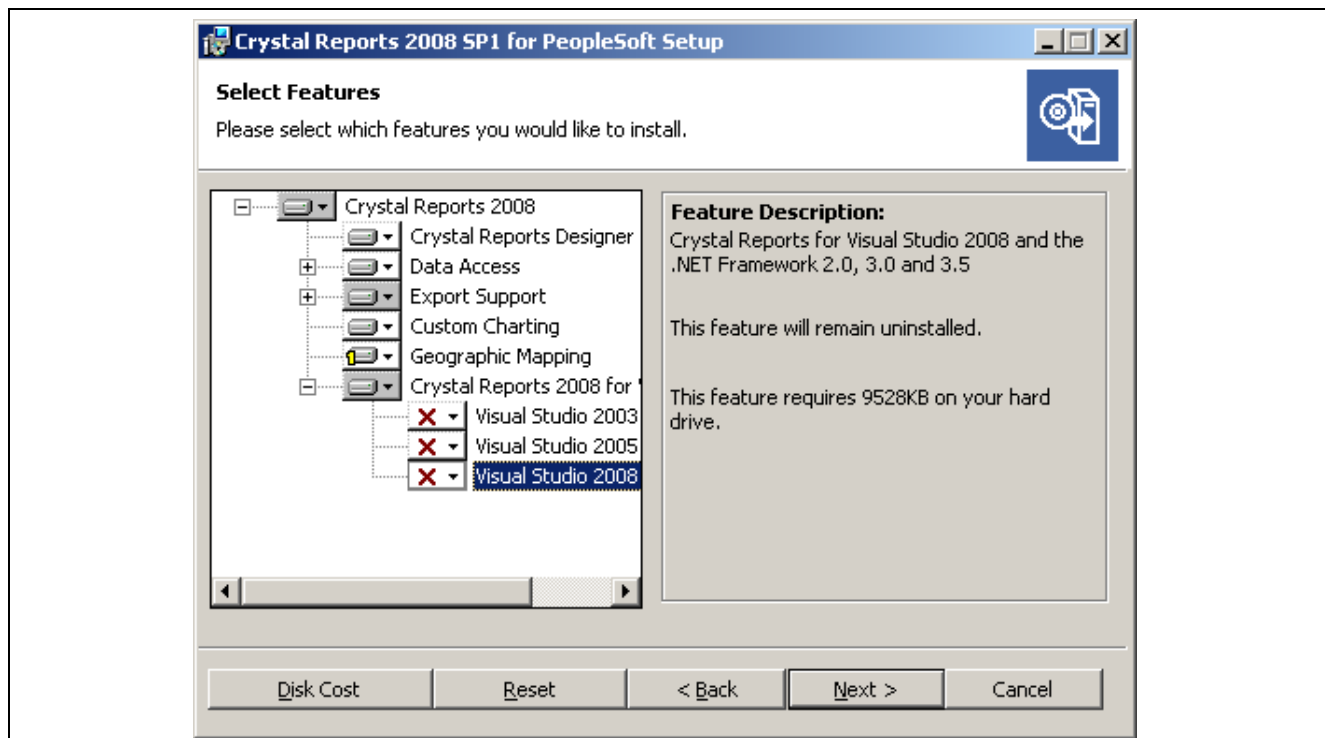
If necessary, use the Browse button to set your destination folder.

**Note.** If a Business Objects product is already installed, the destination folder will point to that and cannot be changed.



Crystal Reports 2008 SP1 for PeopleSoft Setup Select Installation Type window

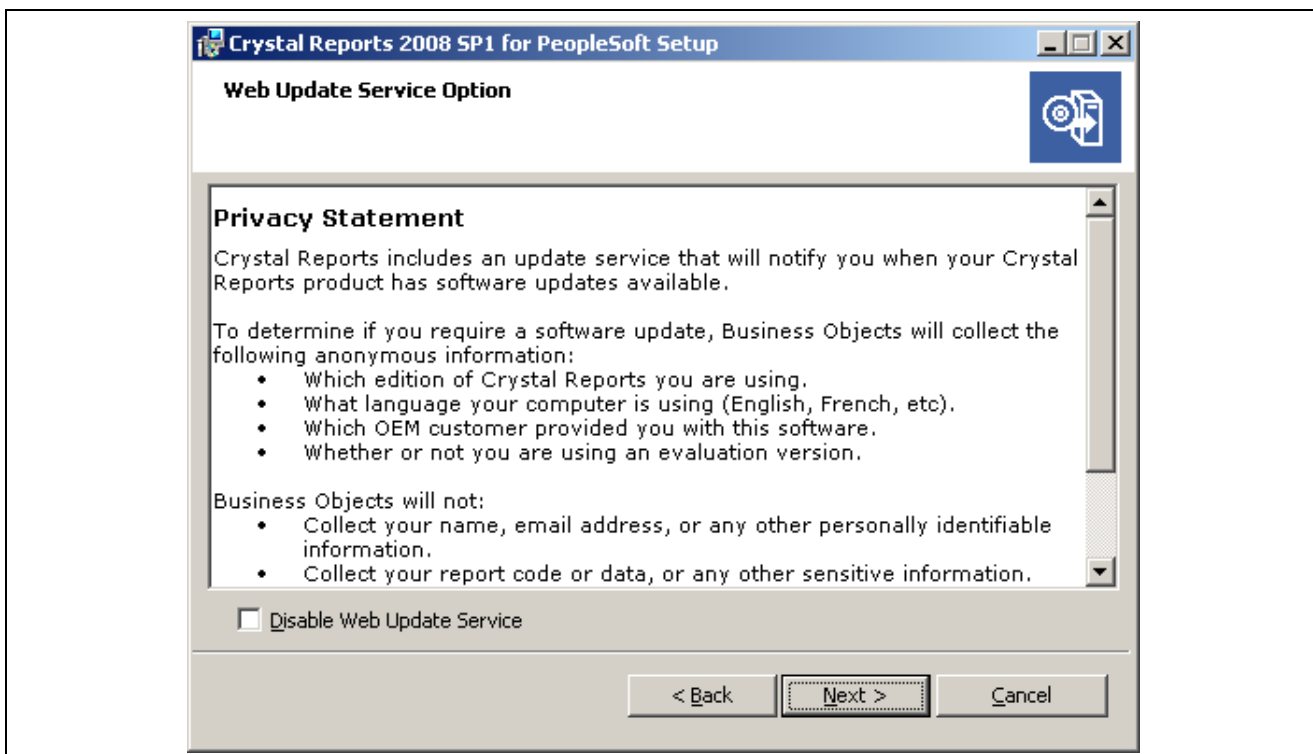
7. Under Crystal Reports 2008 for Visual Studio, clear all three options.



Crystal Reports 2008 SP1 for PeopleSoft Setup Select Features window



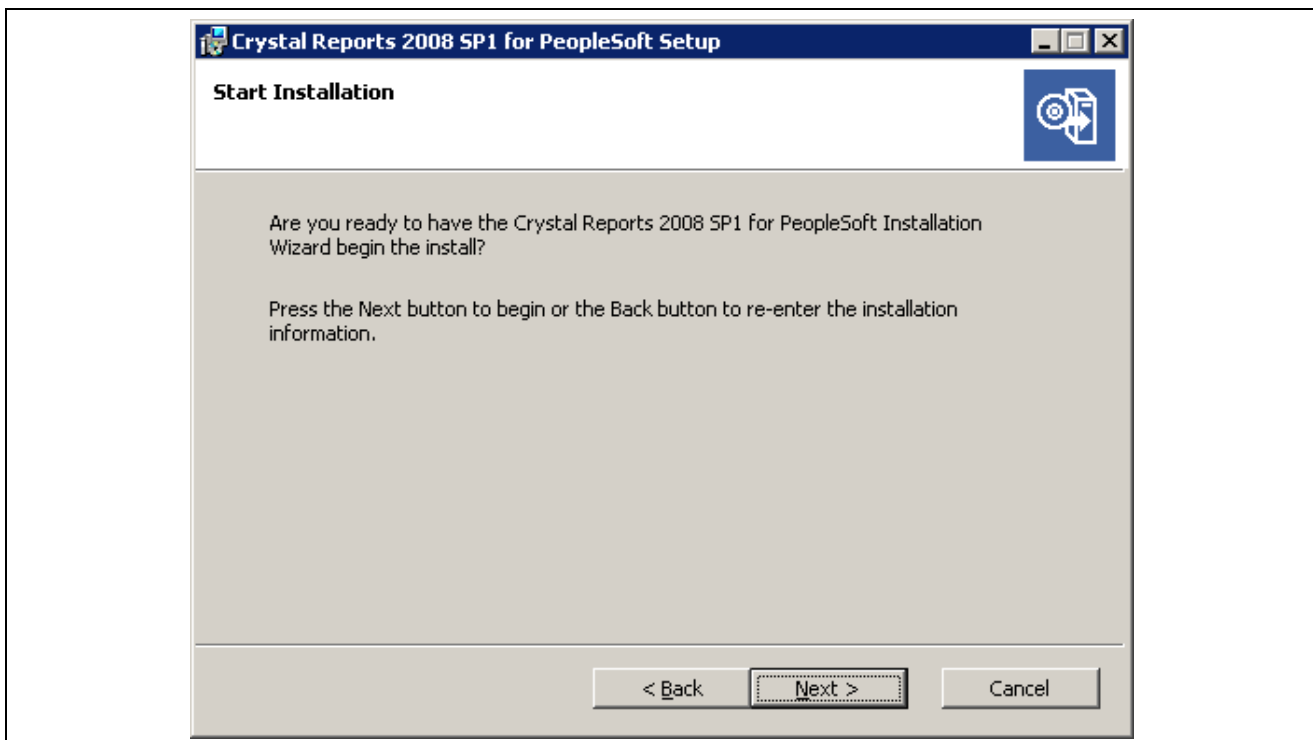
8. Select the option to disable the Web Update Service if desired.



Crystal Reports 2008 SP1 for PeopleSoft 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.

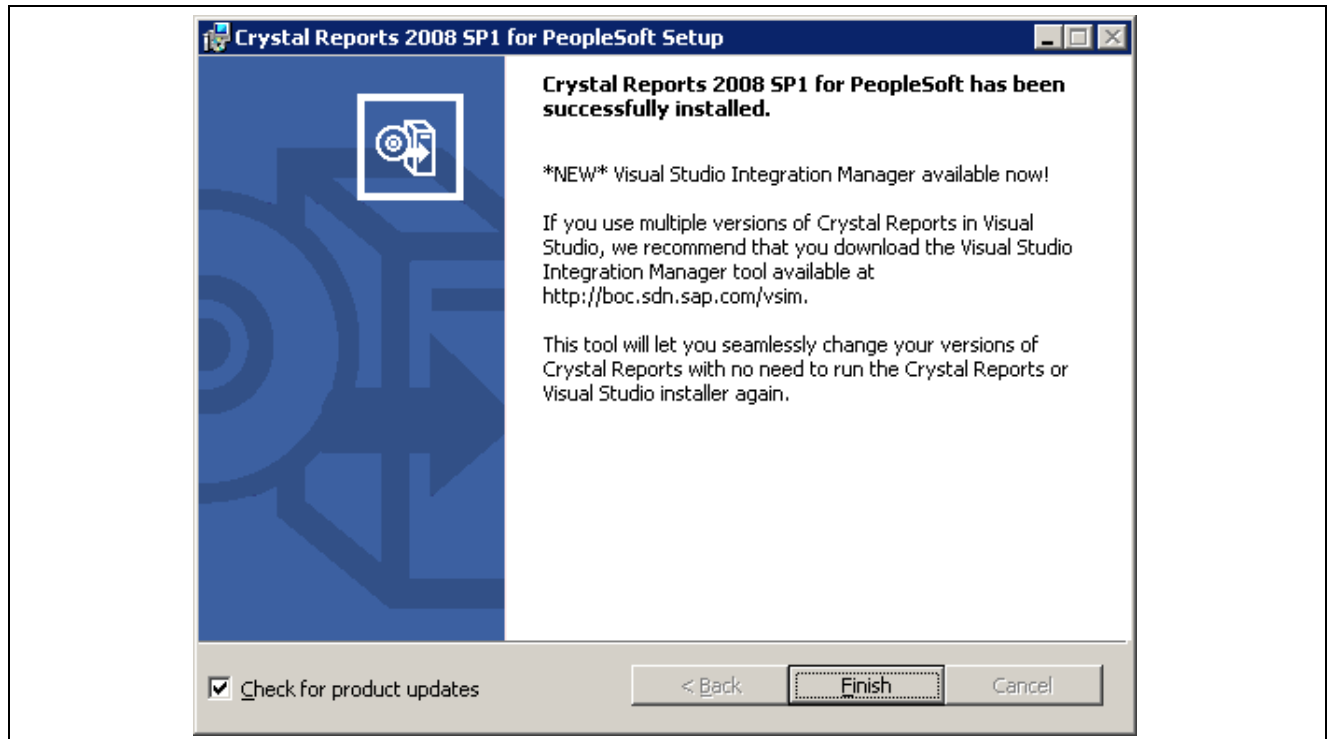


Crystal Reports 2008 SP1 Start Installation window

10. Click Finish to exit the installation window.

Select or clear the option to Check for product updates.

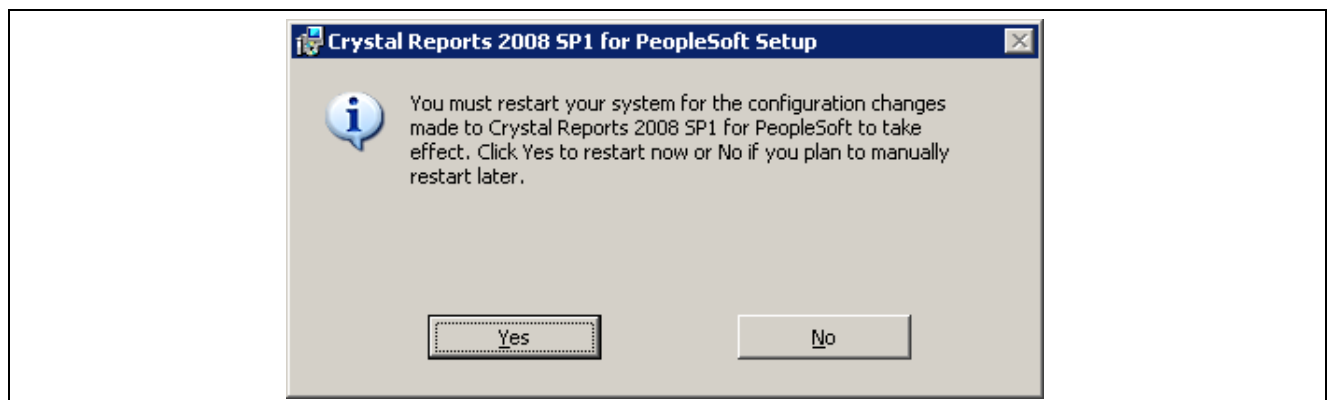
You must reboot your machine to complete the installation.



Crystal Reports 2008 SP1 for PeopleSoft has been successfully installed

11. Click Yes or No when asked whether to restart your machine.

The dialog box includes the message: “You must restart your system for the configuration changes made to Crystal Reports 2008 SP1 for PeopleSoft to take effect. Click Yes to restart now or No if you plan to manually restart later.”



Crystal Reports 2008 SP1 restart message

## Task 11-3-2: Installing Crystal Reports 2008 SP2 Service Pack

The installation files for Crystal Reports 2008 SP2 are included on Oracle E-Delivery in the PeopleSoft PeopleTools 8.51 media pack, as previously discussed.

See Obtaining SAP BusinessObjects Enterprise and Crystal Reports Files from Oracle E-Delivery.

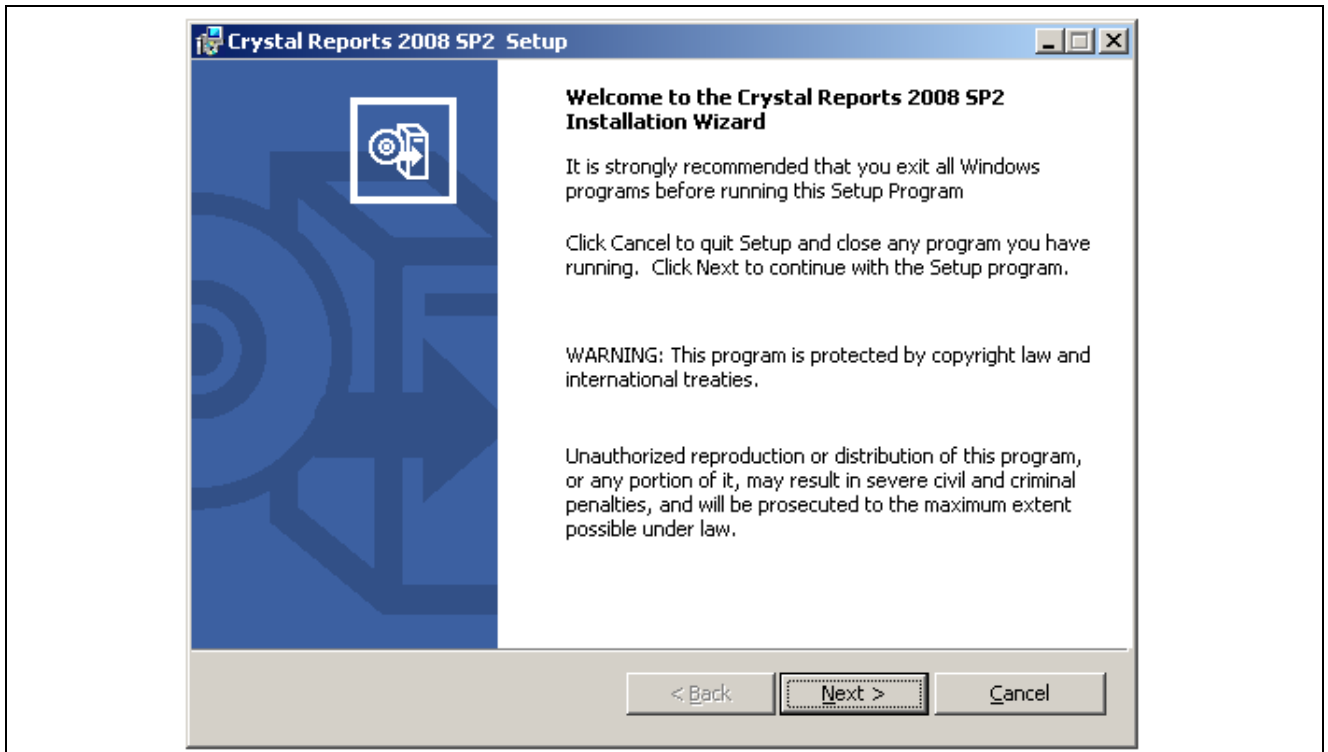
To install Crystal Reports 2008 SP2:

1. Change directory to *BOE\_INSTALL* and extract the contents of CRYSTALREPORTS02\_0-10007442.exe to this directory.
2. Run *setup.exe*.

The Welcome window appears.

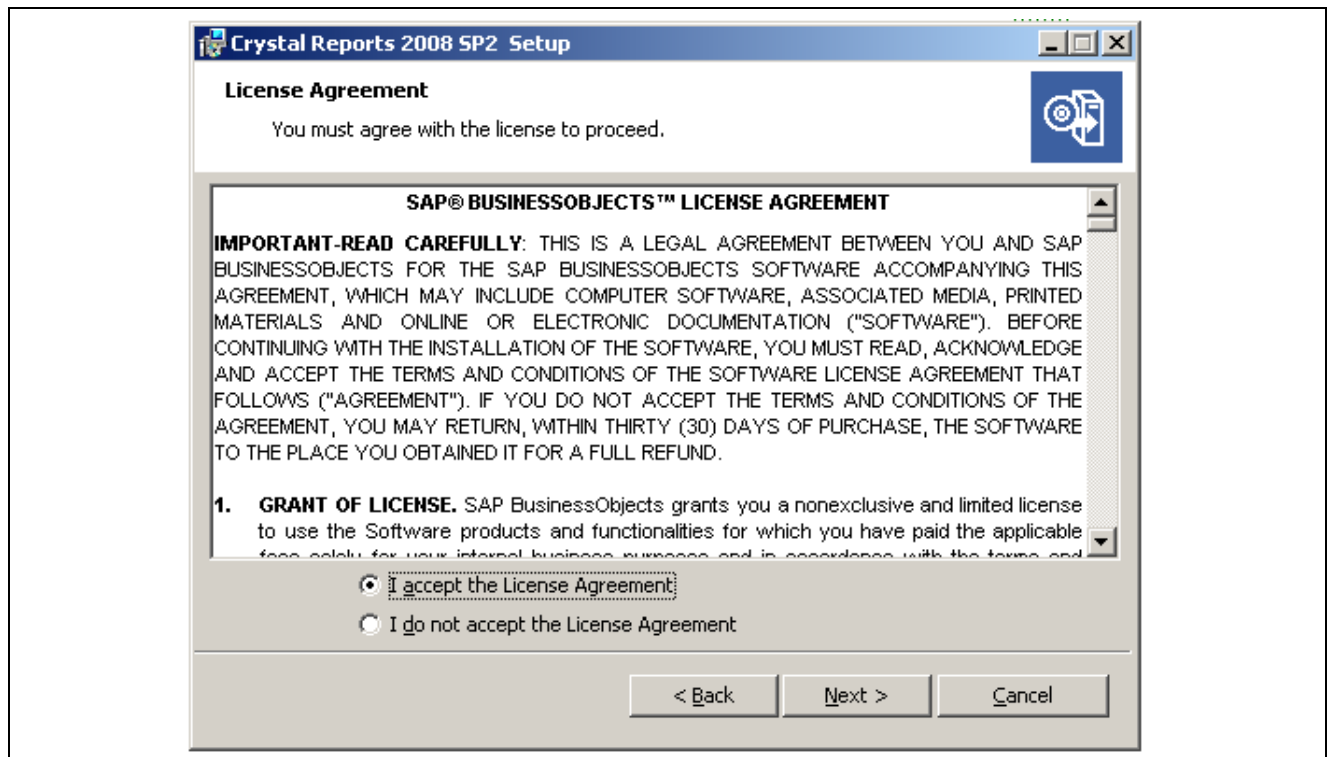
3. Click Next.

The window includes the message: “It is strongly recommended that you exit all Windows programs before running this Setup Program. Click Cancel to quit Setup and close any program you have running. Click Next to continue with the Setup Program.”



Crystal Reports 2008 SP2 Setup welcome window

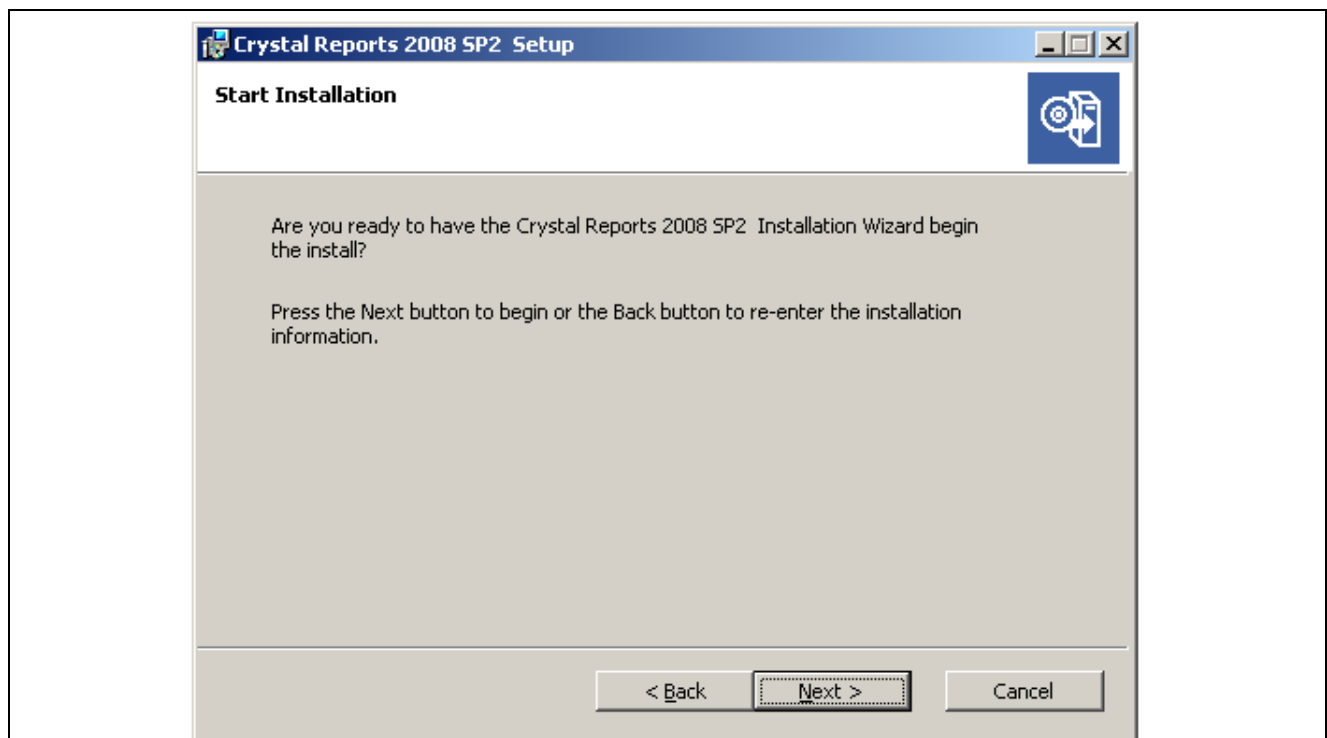
4. Select the I accept the License Agreement option and click Next.



Crystal Reports 2008 SP2 Setup License Agreement window

5. Click Next to begin the installation.

Click Back to go to a previous window to change the installation information.



Crystal Reports 2008 SP2 Setup Start Installation window

6. Click Finish to exit the installation window.



Crystal Reports 2008 SP2 Setup successful installation window

### Task 11-3-3: Installing Crystal Reports 2008 SP2 .NET Runtime

The installation files for Crystal Reports 2008 SP2 .NET Runtime are included on Oracle E-Delivery in the PeopleSoft PeopleTools 8.51 media pack, as previously discussed.

See Obtaining SAP BusinessObjects Enterprise and Crystal Reports Files from Oracle E-Delivery.

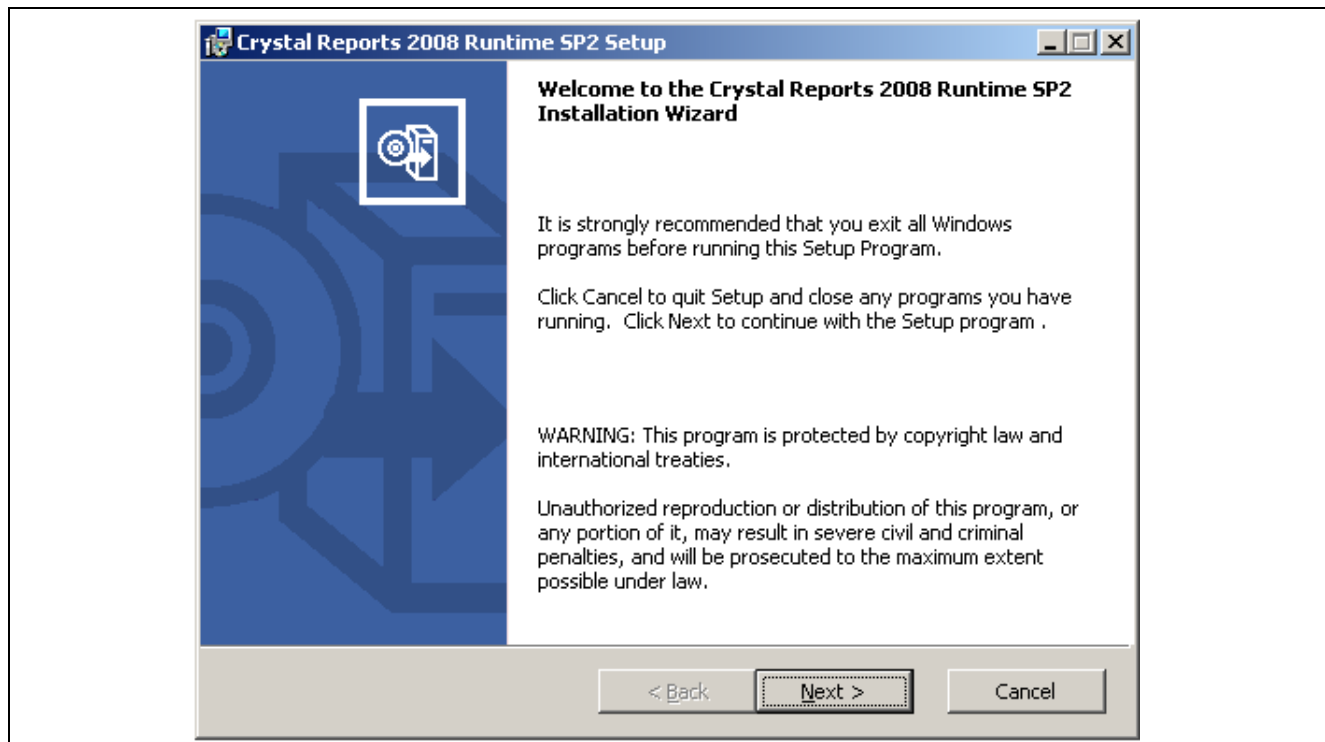
Before installing Crystal 2008 SP2 .NET Runtime, read this prerequisite information. Crystal 2008 SP2 .NET Runtime requires Microsoft .NET Framework 2.0. Follow the instructions in the task "Installing Products for PS/nVision" to install the Microsoft .NET Framework version 3.5 if not already installed on the machine, as this version includes the .NET 2.0 Framework.

See "Setting Up Process Scheduler for Windows," Installing Products for PS/nVision.

To install Crystal Reports 2008 SP2 .NET Runtime:

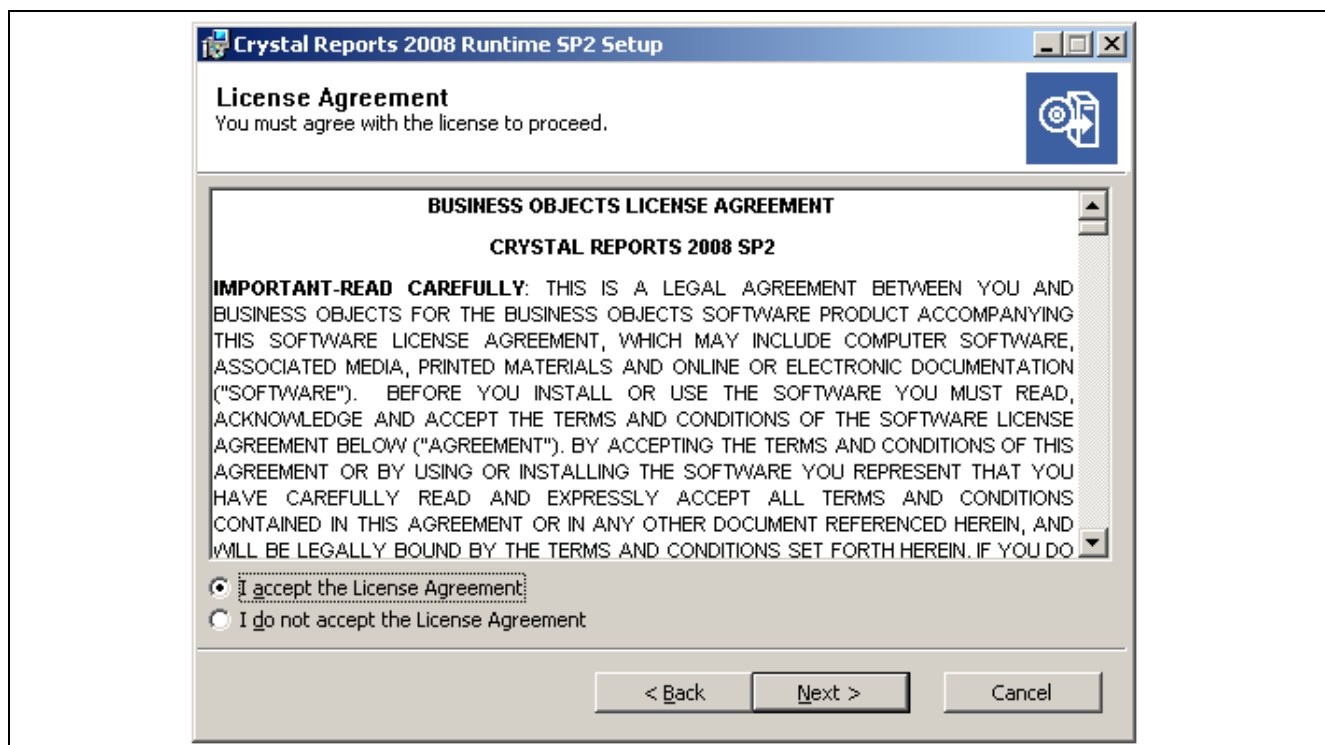
1. Change directory to *BOE\_INSTALL* and extract the contents of *cr2008\_fp22\_redist\_2-10007442.zip* to this directory.
2. Run *CRRuntime\_12\_2\_mlb.exe*.  
The Welcome window appears.
3. Click Next.

The window includes the message: "It is strongly recommended that you exit all Windows programs before running this Setup Program. Click Cancel to quit Setup and close any program you have running. Click Next to continue with the Setup Program."



Crystal Reports 2008 Runtime SP2 Setup welcome window

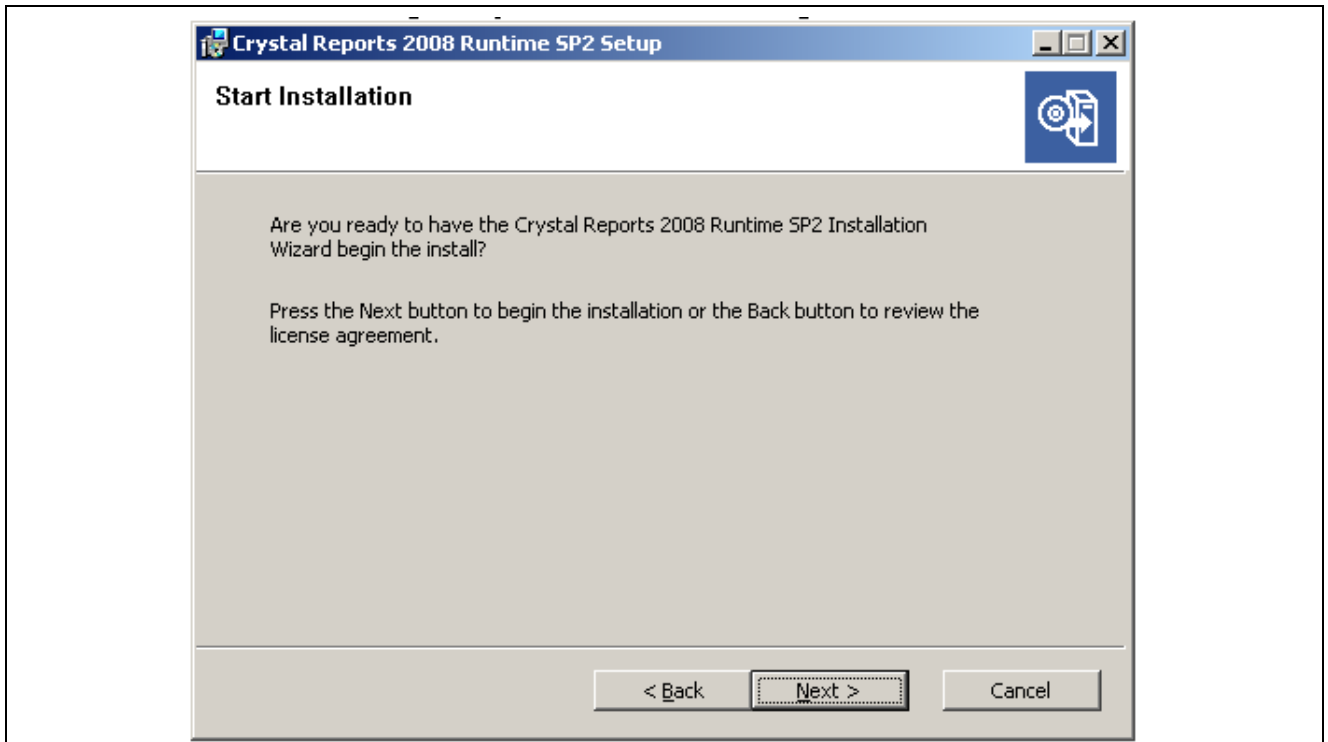
4. Select the I accept the License Agreement option and click Next.



Crystal Reports 2008 Runtime SP2 Setup License Agreement window

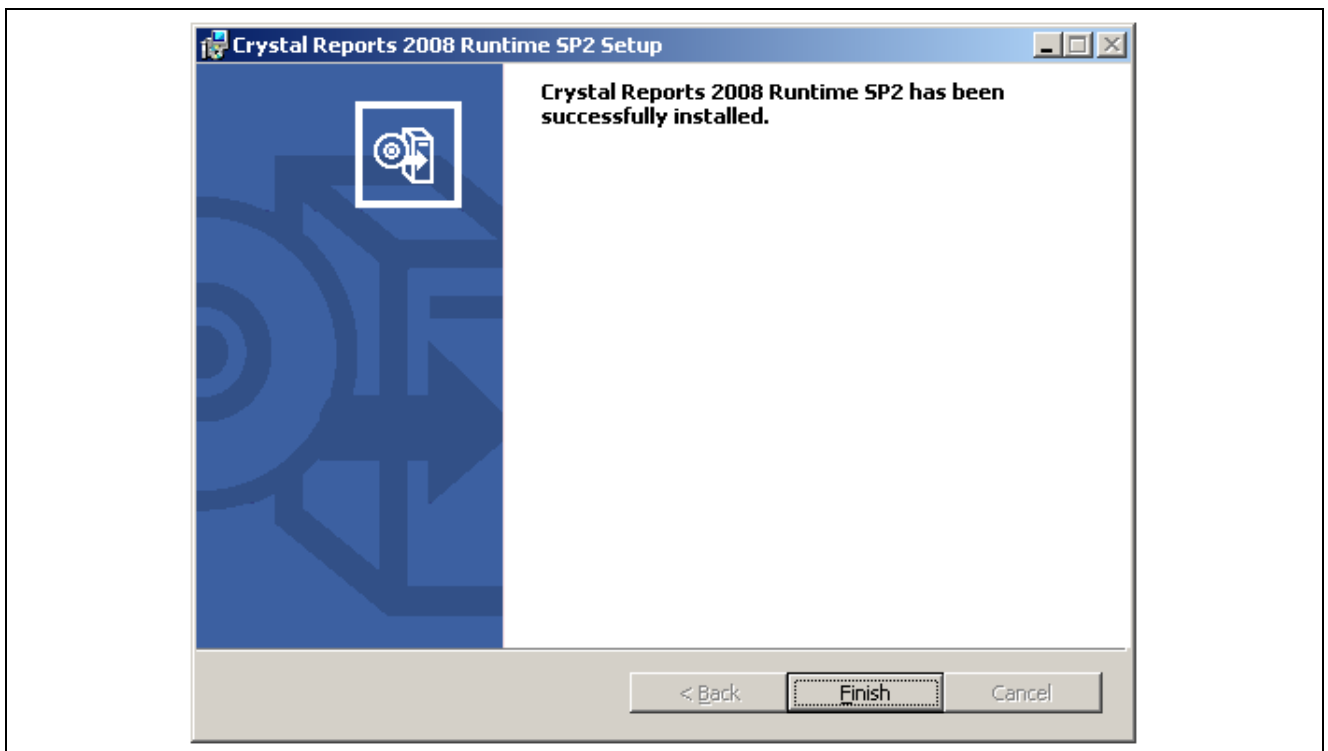
5. Click Next to begin the installation.

Click Back to go to a previous window to change the installation information.



Crystal Reports 2008 Runtime SP2 Setup Start Installation window

6. Click Finish to exit the installation window.



Crystal Reports 2008 Runtime SP2 Setup successful installation window

**Note.** You will need to convert all your existing custom Crystal Reports to Crystal Reports 2008. See the section *Converting Crystal Reports* in this chapter for additional information and tasks.

**See Also**

Configuring Crystal Reports 2008 SP1 for SAP BusinessObjects Enterprise XI 3.1

---

## **Task 11-4: 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
- Installing Required at Installation Patches
- 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 Crystal Reports 2008 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

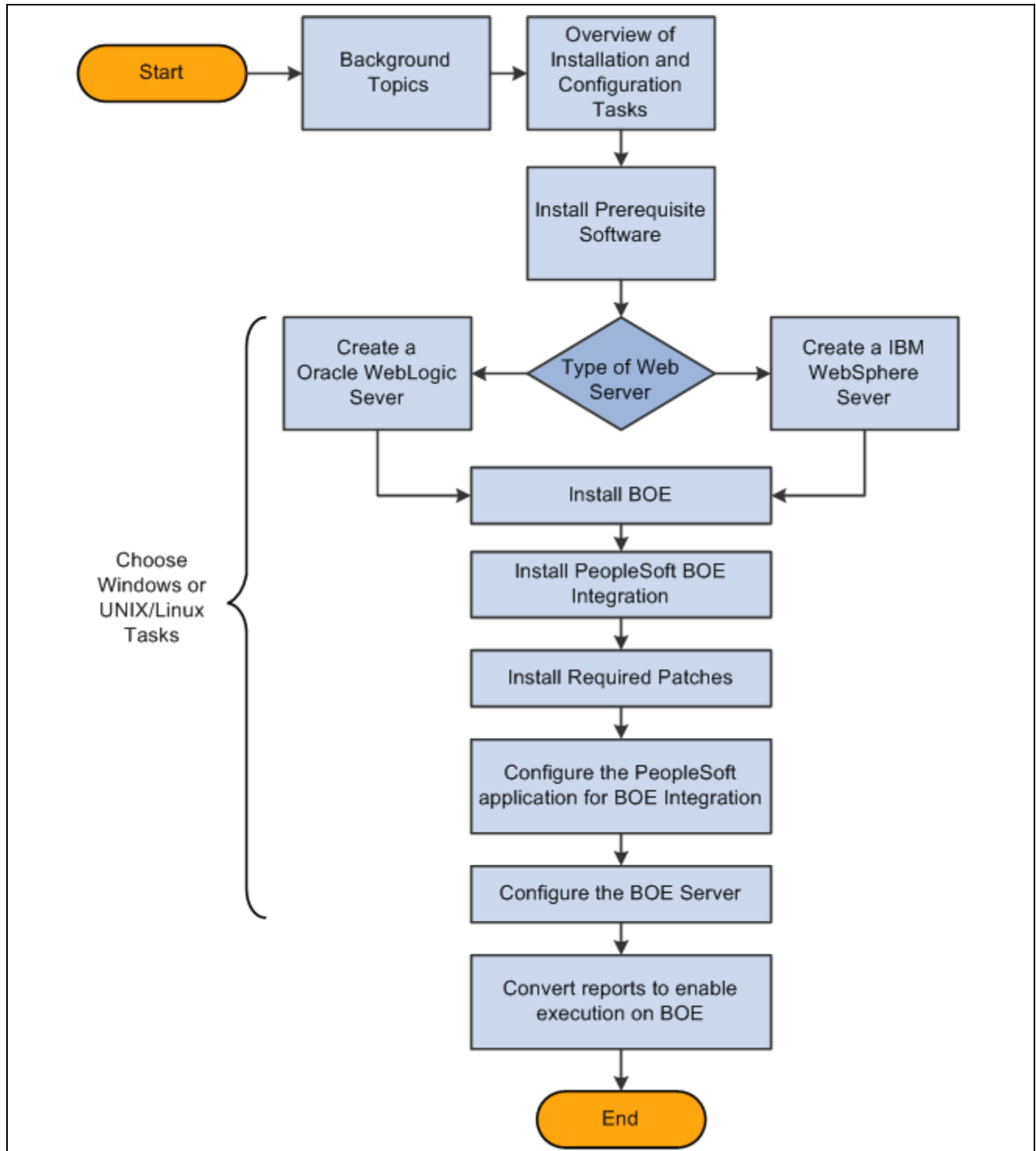
## Understanding the SAP BusinessObjects Enterprise XI 3.1 Installation

Use the following three flowcharts to understand which parts of this section are relevant to your particular circumstances. The first flowchart is an overview of the entire process. After the step to install the prerequisite software, there is a decision point, and the process continues on the second and third flowcharts, and then returns to conclude on the first flowchart. The second flowchart displays the steps for the installation on Windows, and the third flowchart illustrates the steps for the installation 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 or the hardware and software requirements guide.

## See Also

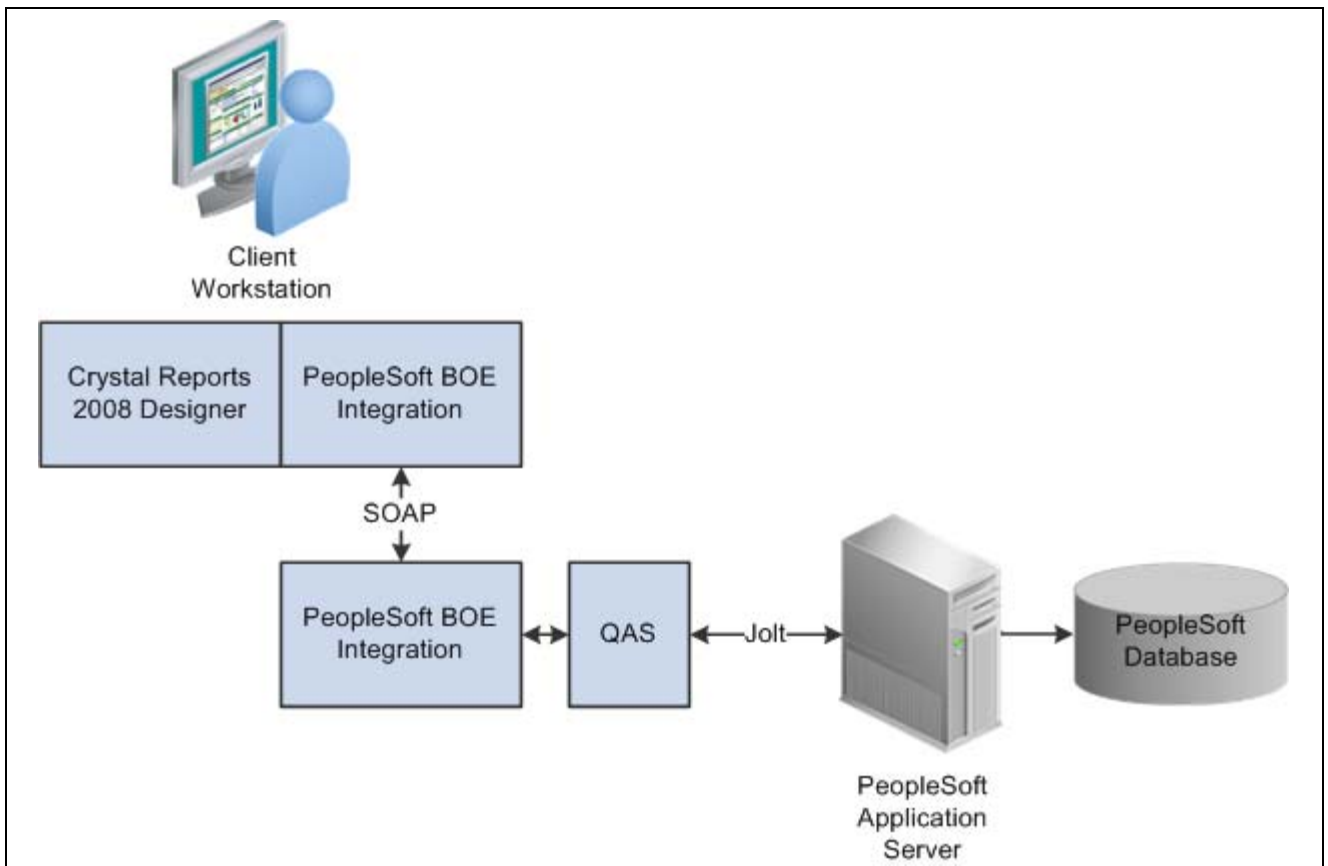
My Oracle Support, Certifications

*Enterprise PeopleTools 8.51 Hardware and Software Requirements Guide*

## Understanding Integration Between SAP BusinessObjects Enterprise XI 3.1 and PeopleSoft Enterprise

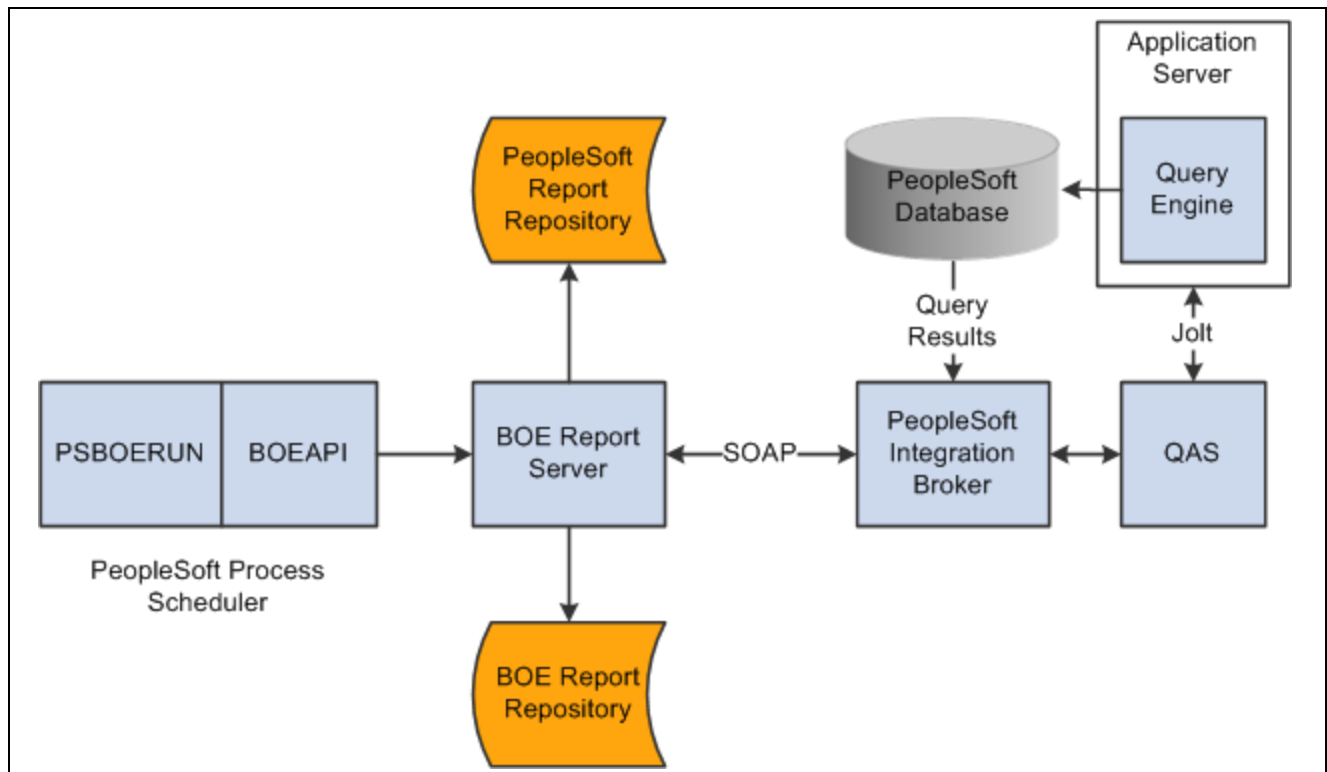
PeopleSoft Enterprise, together with Business Objects, provides a robust suite of reporting tools to be used with PeopleSoft products. The diagrams in this section illustrate how SAP BusinessObjects Enterprise XI 3.1 integrates with PeopleSoft Enterprise.

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.



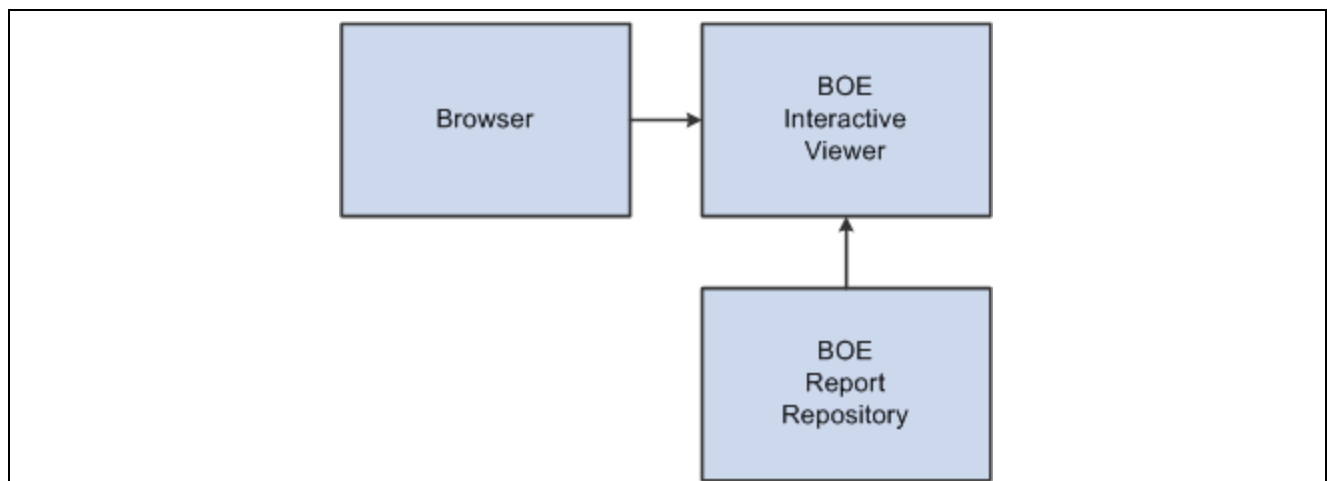
Design a report with the PeopleSoft BusinessObjects Enterprise XI 3.1 integration

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.

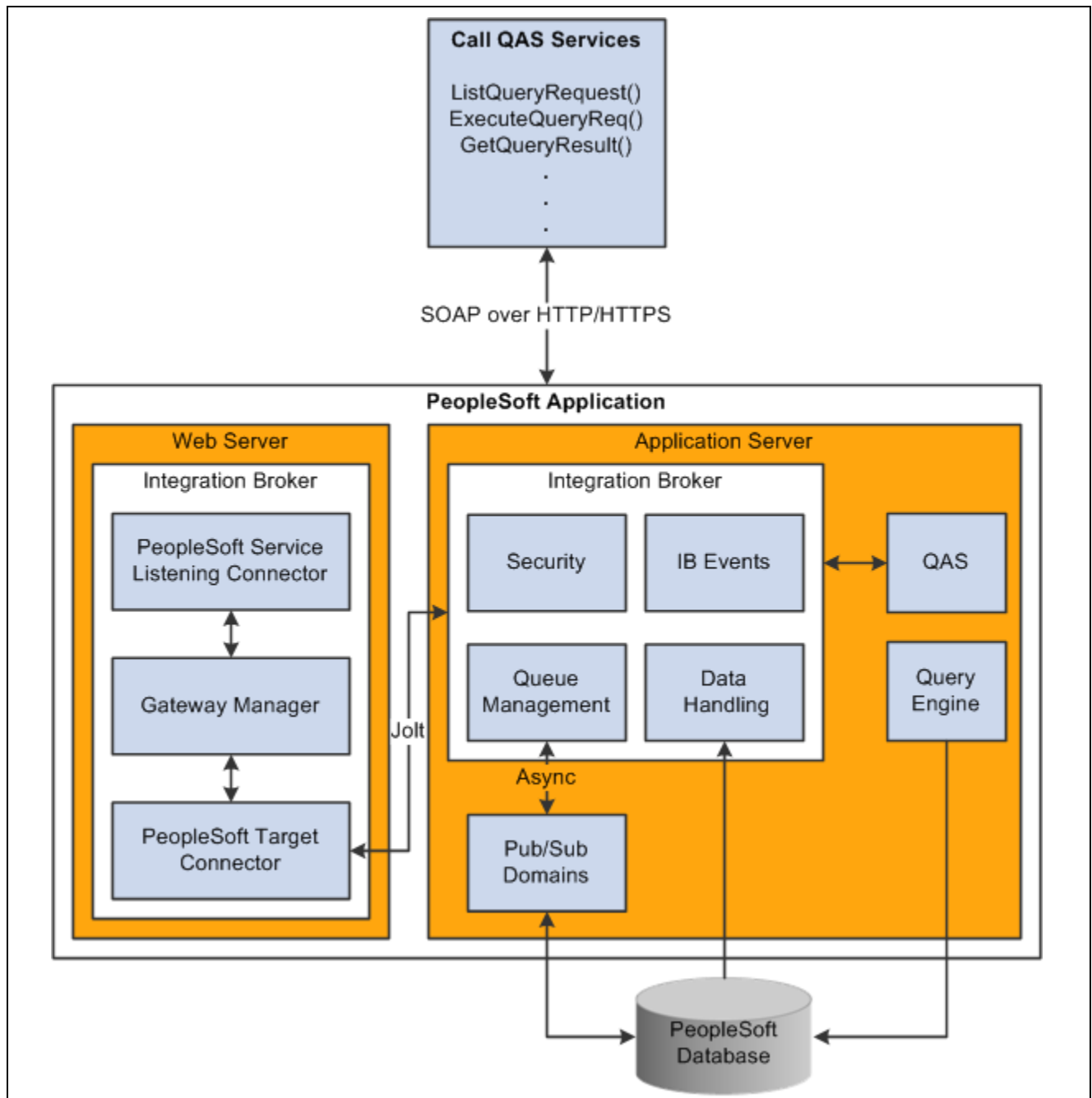
## Understanding Query Access Services

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 11-4-1: 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. These alternatives are listed in the PeopleSoft PeopleTools hardware and software guide. Additional 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 *Enterprise PeopleTools 8.51 Hardware and Software Requirements*.

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.

---

**Note.** If you plan to use Sybase as the database for the BusinessObjects Enterprise Report Repository, contact your Sybase Database Administrator to create another user for Sybase adaptive server and have that default to the BusinessObjects Enterprise database.

---

---

**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 *Enterprise PeopleTools 8.51 PeopleBook: Security Administration*.

See *Enterprise PeopleTools 8.51 PeopleBook: 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.

The OEM license keys delivered by Oracle for the integration between PeopleSoft and BusinessObjects Enterprise allow for:

- 1 Named User license
- 5 Concurrent Access licenses

In the context of PeopleSoft applications integrated with SAP BusinessObjects Enterprise XI 3.1, the 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 Interactive Viewer
- 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 Interactive Viewer 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.

It is likely that you will want to purchase additional Concurrent Access licenses to provide greater access for more users. You can do so by contacting your Oracle sales representative.

When you purchase more Concurrent Access licenses, 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.

---

This example checks required environment variables, and shows sample output values:

1. Echo the following environment variables and ensure that their values correspond to your database client software installation:

```
$ echo $SYBASE
/opt/sybase/15.0
$ echo $SYBASE_OCS
OCS-15_0
$ echo $LD_LIBRARY_PATH
/export/home/sybase/15.0/OCS-15_0/lib
$ echo $PATH
/usr/bin:/usr/ucb:/etc:/usr/lib:/usr/X11R6/bin:/export/home/sybase/15.0/OCS-15_0/bin
```

2. Issue the following command to run the Sybase SQL tool and connect to the database server:

```
isql -U user -P password -S servername
```

Replace user, password, and servername with the appropriate values. If the shell environment has been configured correctly, you are connected to Sybase.

3. Issue the following command to ensure that the account has permission to create tables:

```
use aps
go
create table sampletable (def_field char(10))
go
sp_help sampletable
go
```

4. Issue the following command to ensure that the account has permission to delete tables:

```
drop table sampletable
go
sp_help sampletable
go
```

5. Issue the following commands to set the default database and verify the login to the database *DBNAME*:

```
sp_modifylogin people, defdb, DBNAME
```

To confirm:

```
sp_displaylogin people
```

6. Type quit.

## Task 11-4-2: 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 Crystal 2008. 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 11-4-3: Installing Required at Installation Patches

There may be patches for SAP BusinessObjects Enterprise XI 3.1 as well as the PeopleSoft Integration for SAP BusinessObjects Enterprise XI 3.1 that must be installed at installation.

Log onto My Oracle Support, Patches & Updates, PeopleSoft. Select the Required for Install or Upgrade link, and search for required patches for your release. Read any documentation included with the patches. You can search using the following criteria:

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| <b>Product Line</b> | PeopleTools                                              |
| <b>Product</b>      | PeopleTools                                              |
| <b>Release</b>      | the release of PeopleSoft PeopleTools that you are using |

## Task 11-4-4: Creating a Web Server for SAP BusinessObjects Enterprise XI 3.1 on Windows

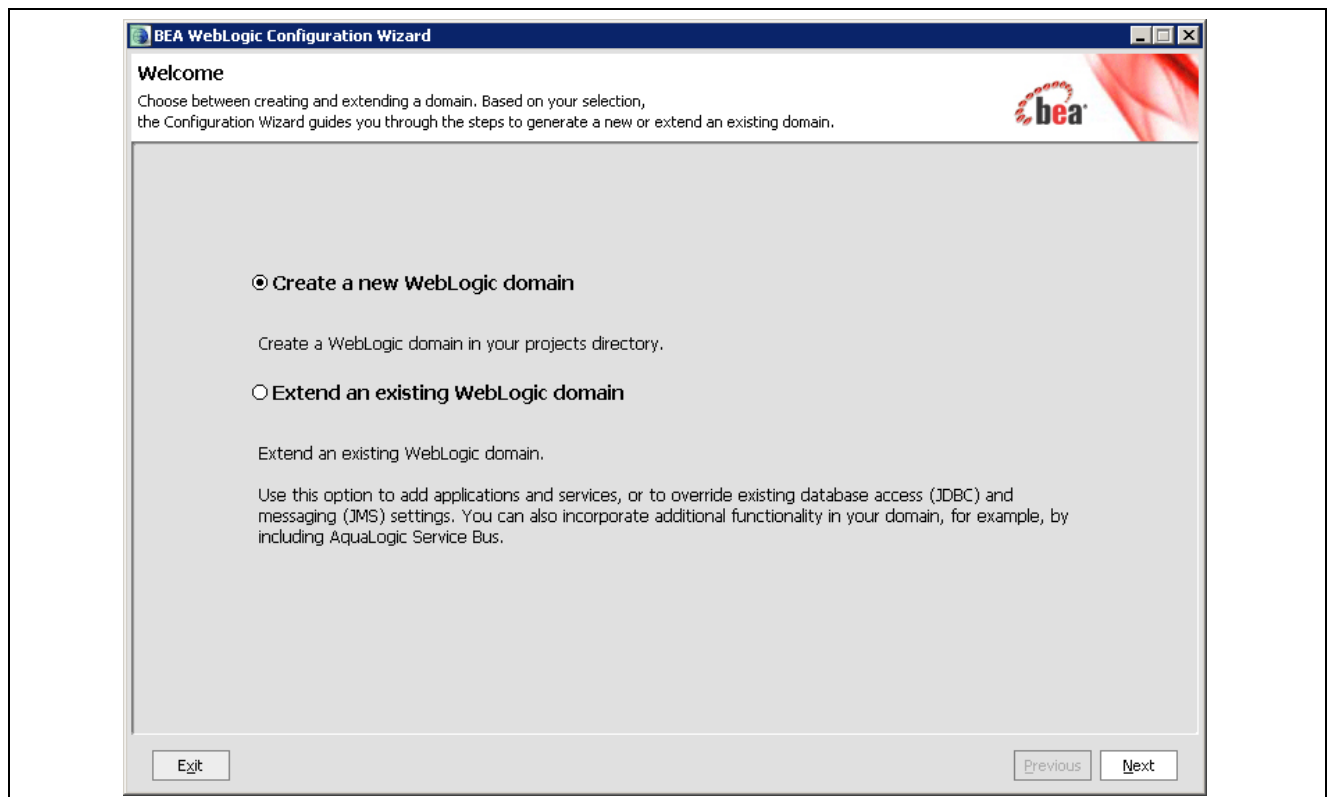
This section discusses:

- 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.

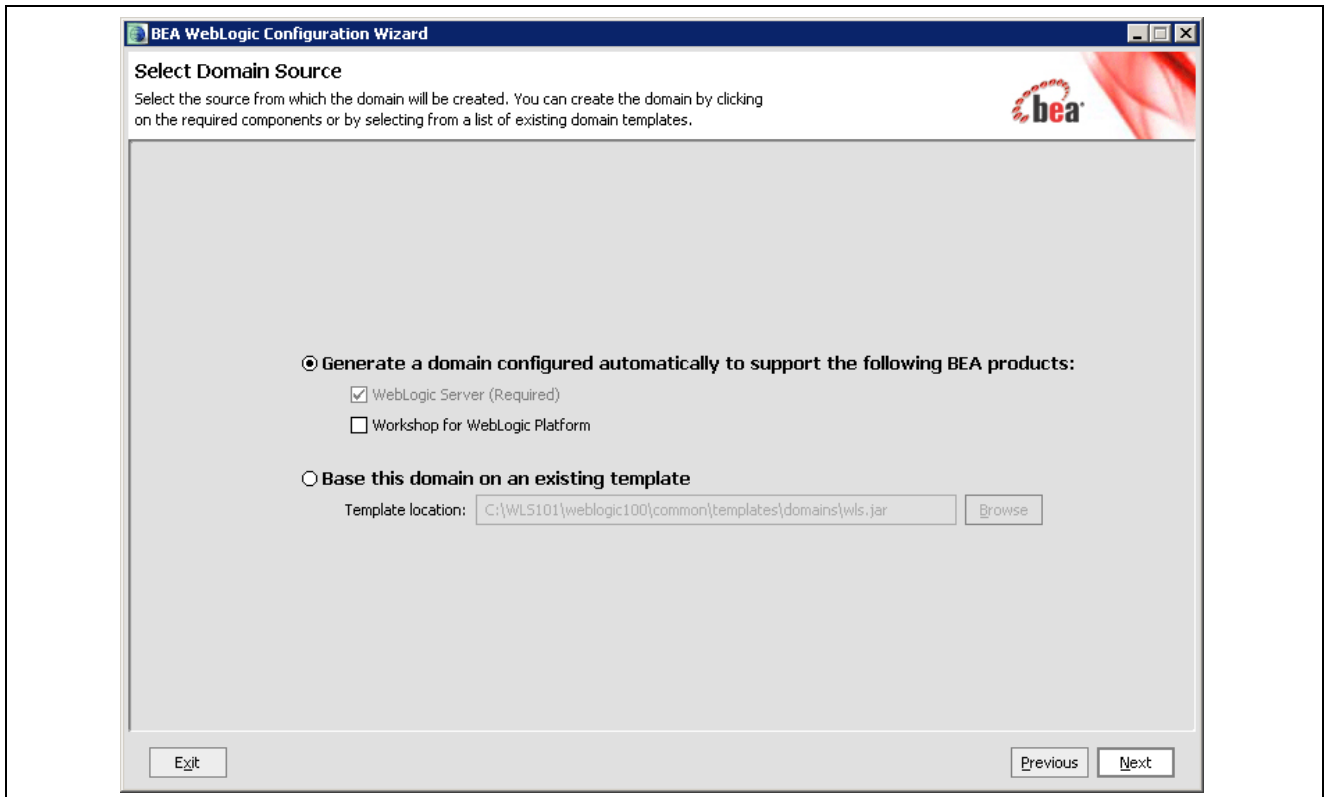
1. Select Start, Programs, BEA Products, Tools, Configuration Wizard to launch the Configuration Wizard.
2. Verify that Create a new WebLogic domain is selected and click Next.



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.



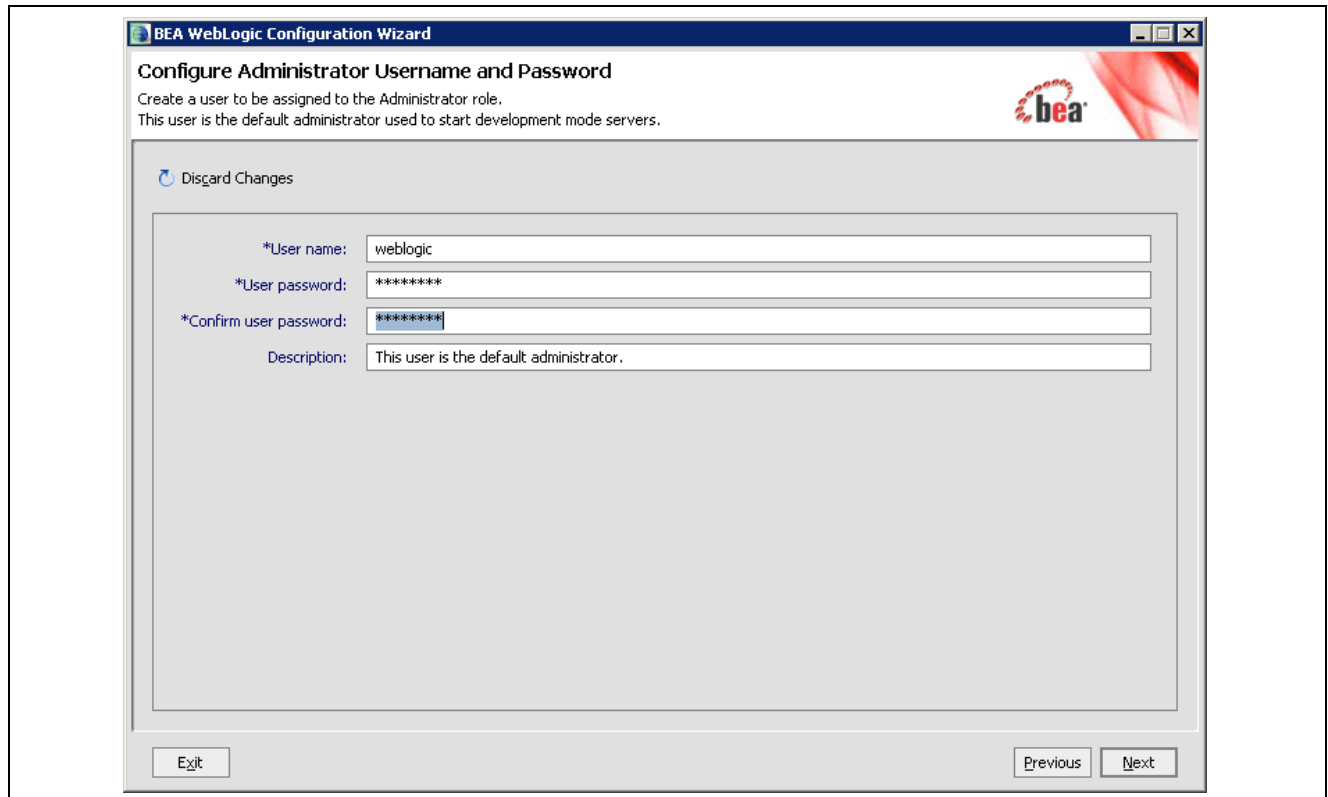
Select Domain Source window

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.

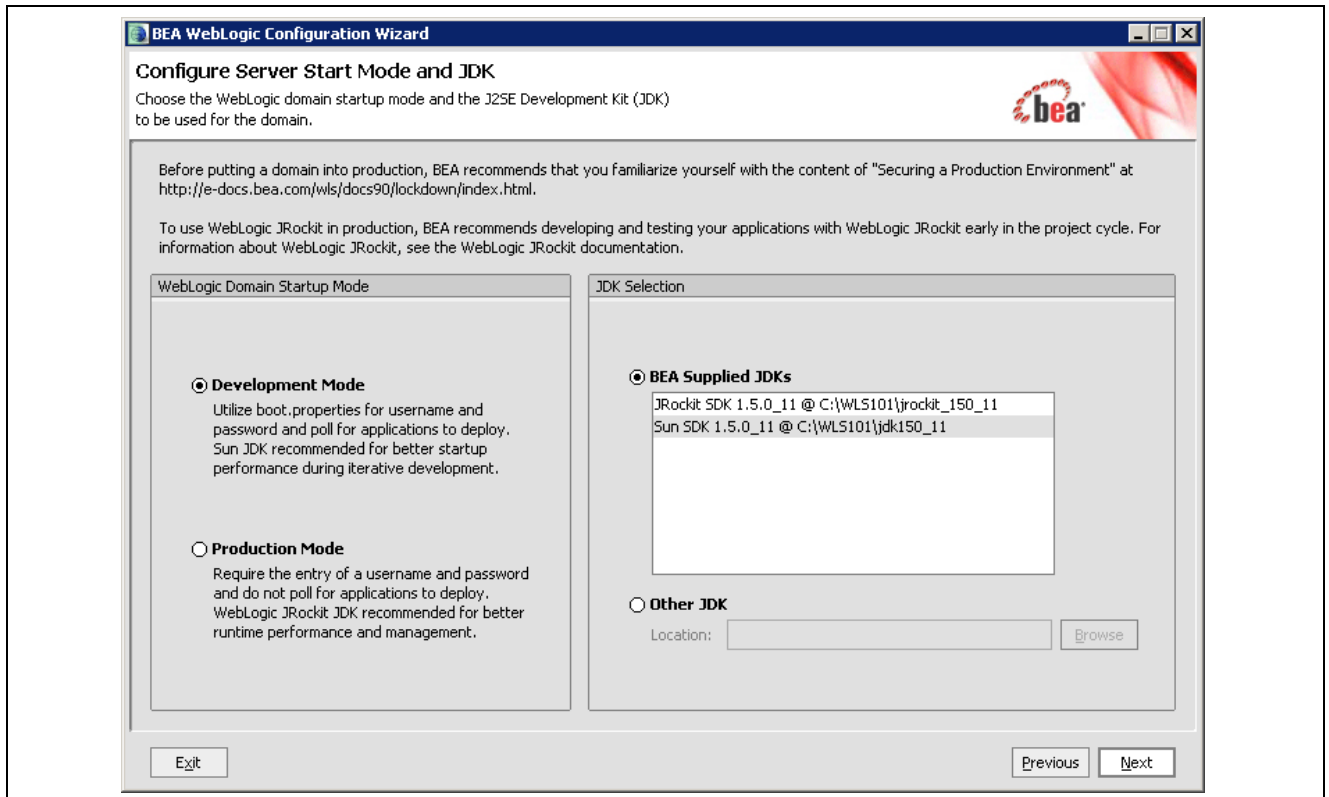
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Configure Administrator Username and Password window

The Configure Server Start Mode and JDK window appears.

5. Select the Development Mode option and any supported JDK you installed, and click Next.



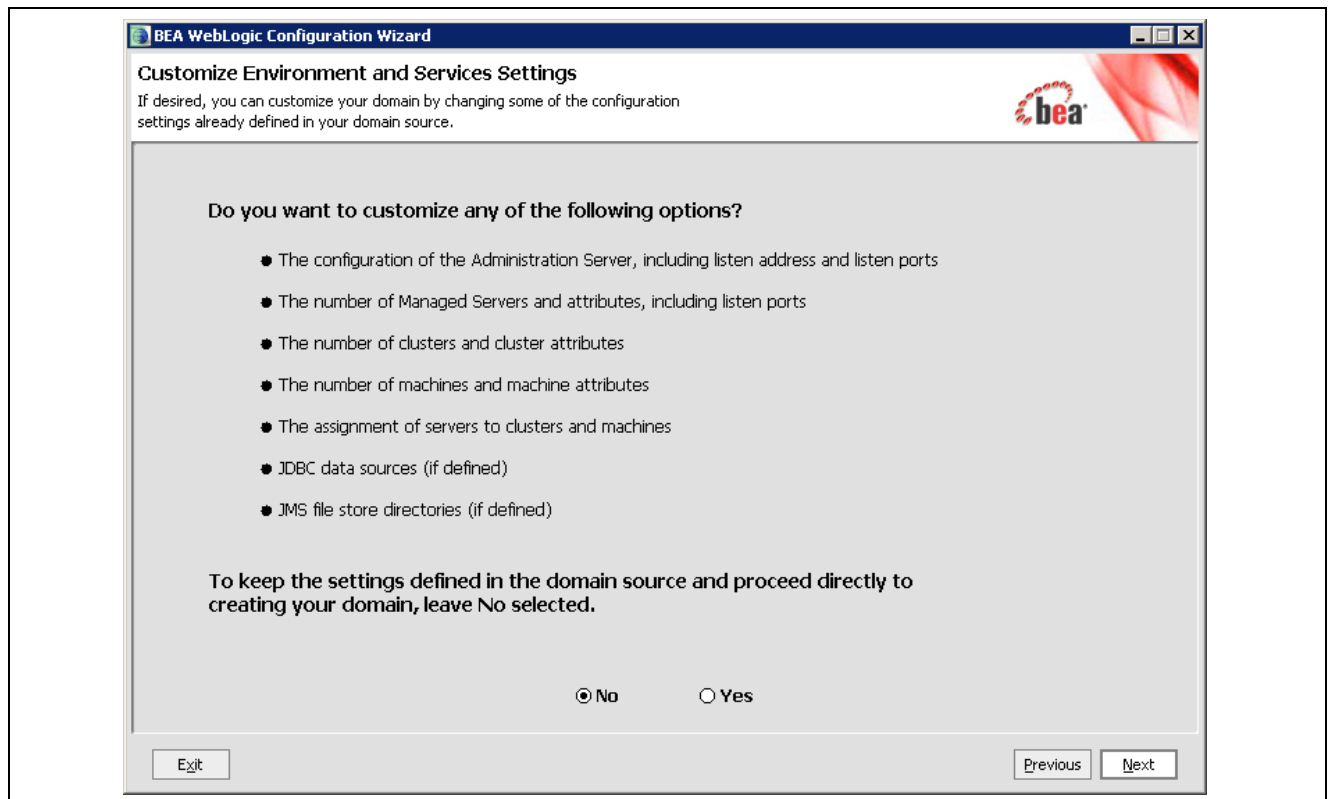
Configuring the Server Start Mode and JDK window

6. 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.

---

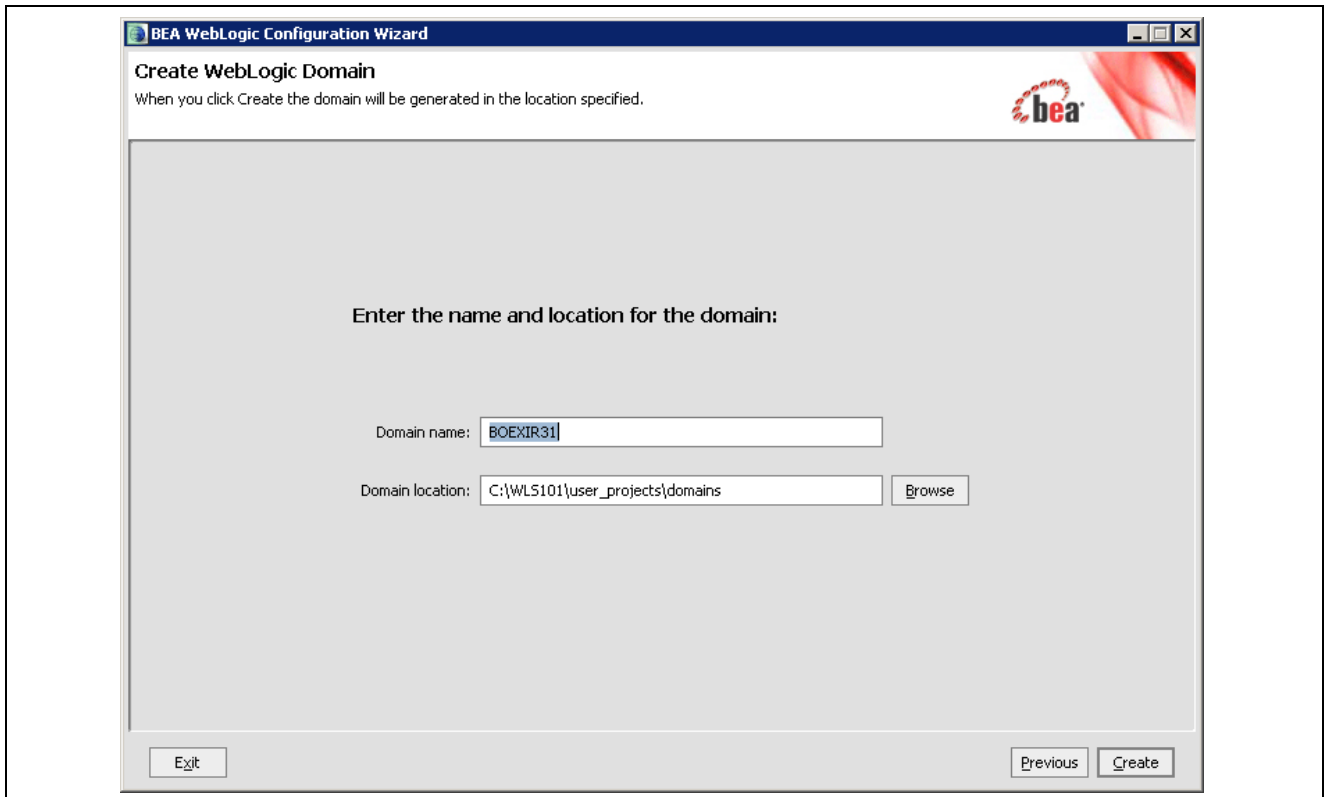


Customize Environment and Service Settings window

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*.

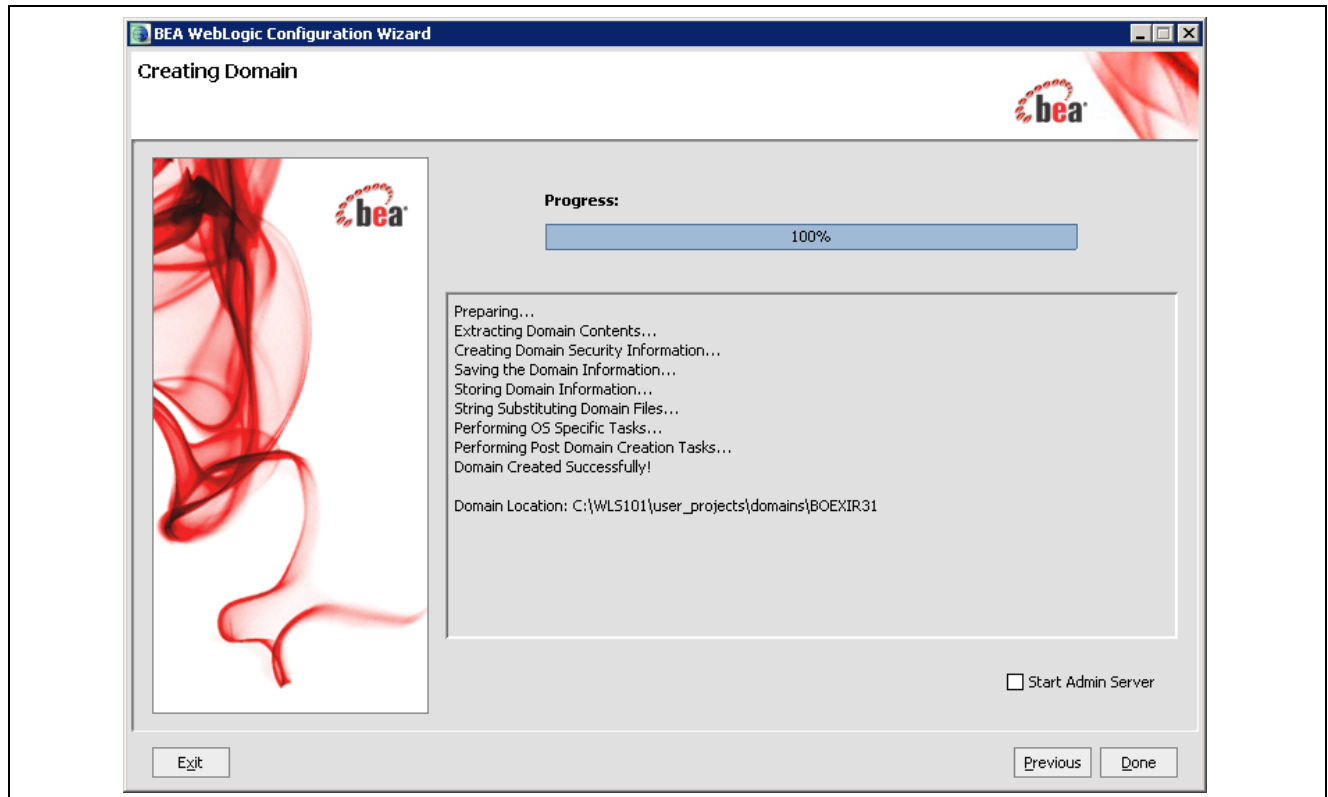




Create WebLogic Domain window

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.

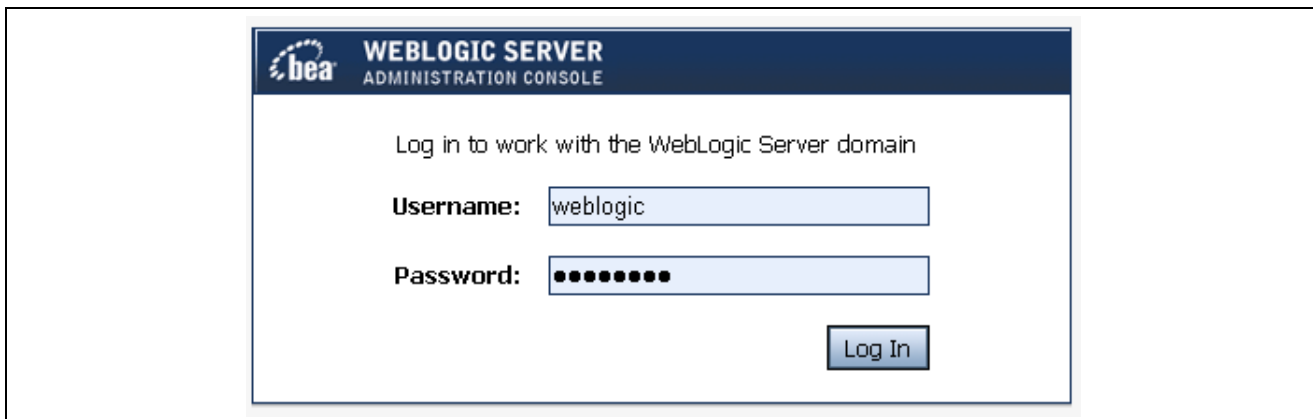
An MS-DOS window opens. Wait until a message containing the phrase “Server started in RUNNING mode” appears, indicating that the web server is active.

---

**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

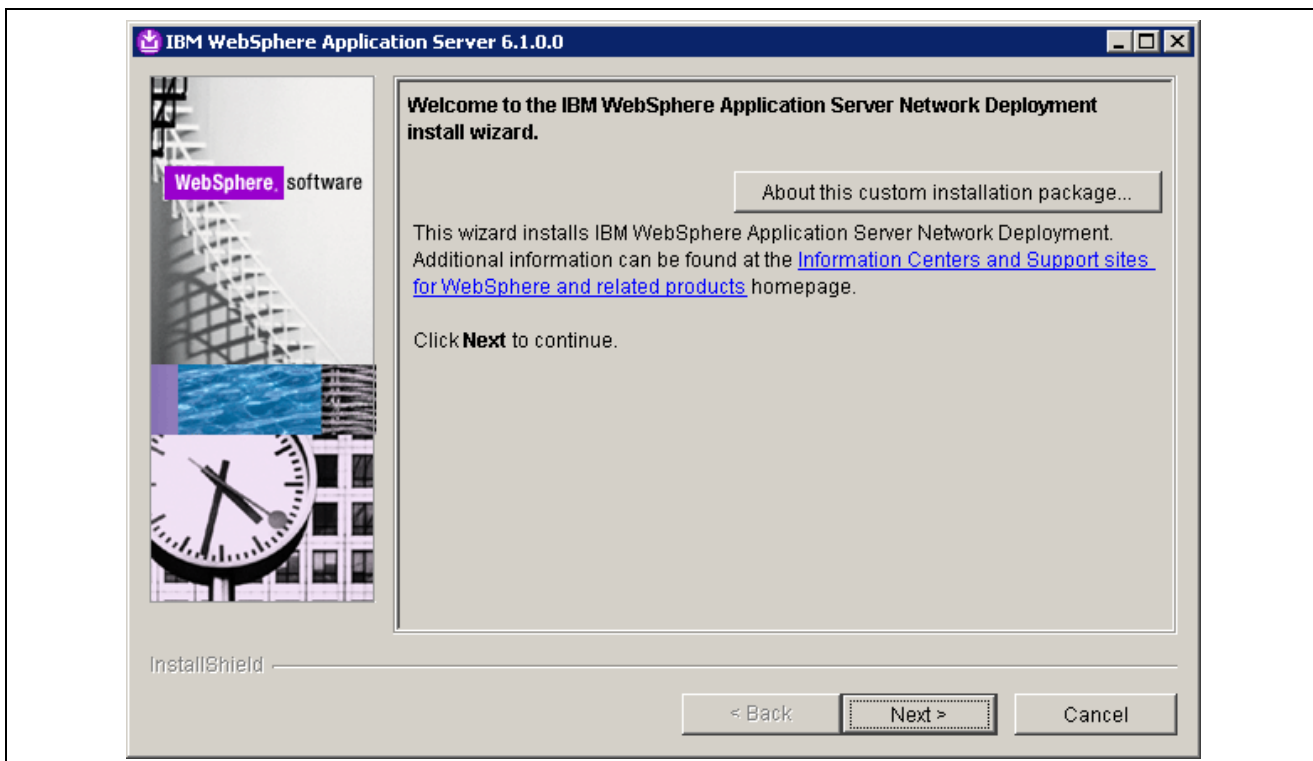
12. If you are logged in, this verifies that your Oracle WebLogic server setup was successful.

## 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.

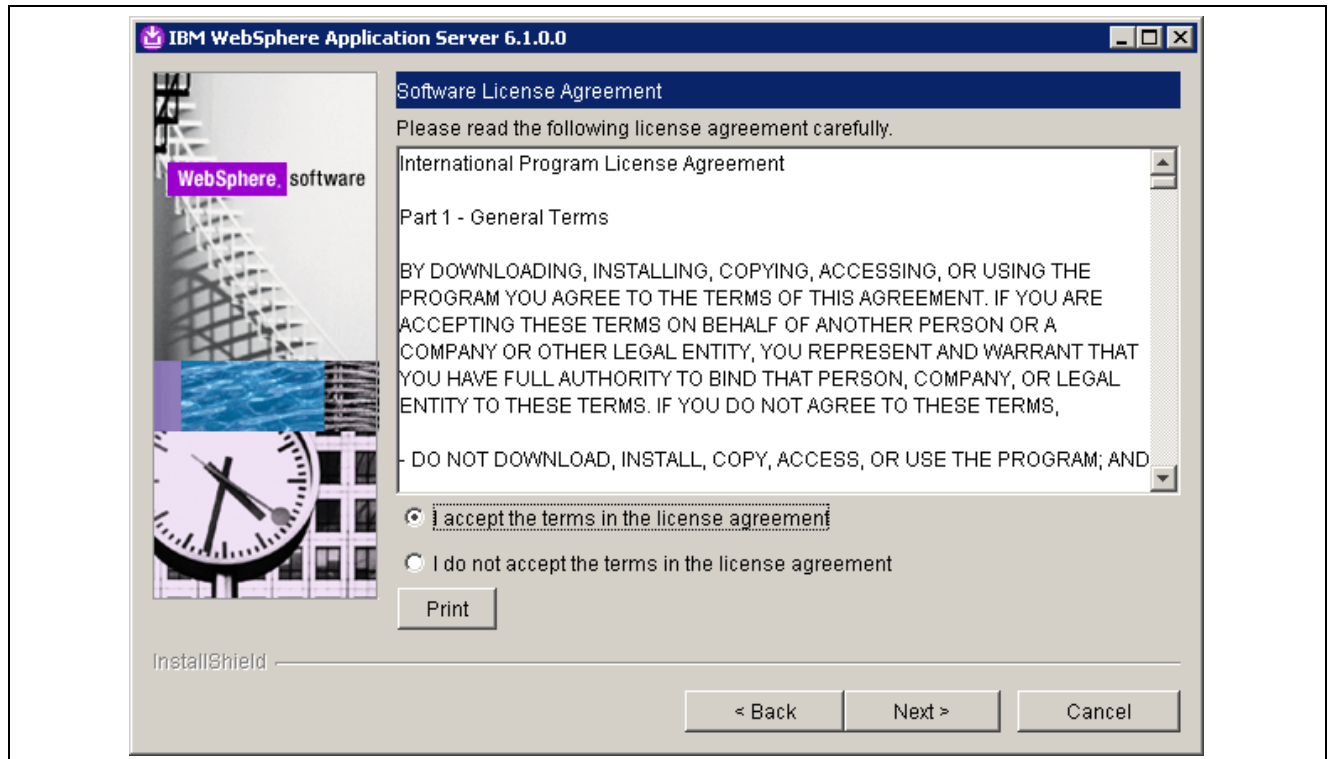
1. Run installWAS.bat from the WebSphere installation.

A welcome window appears.



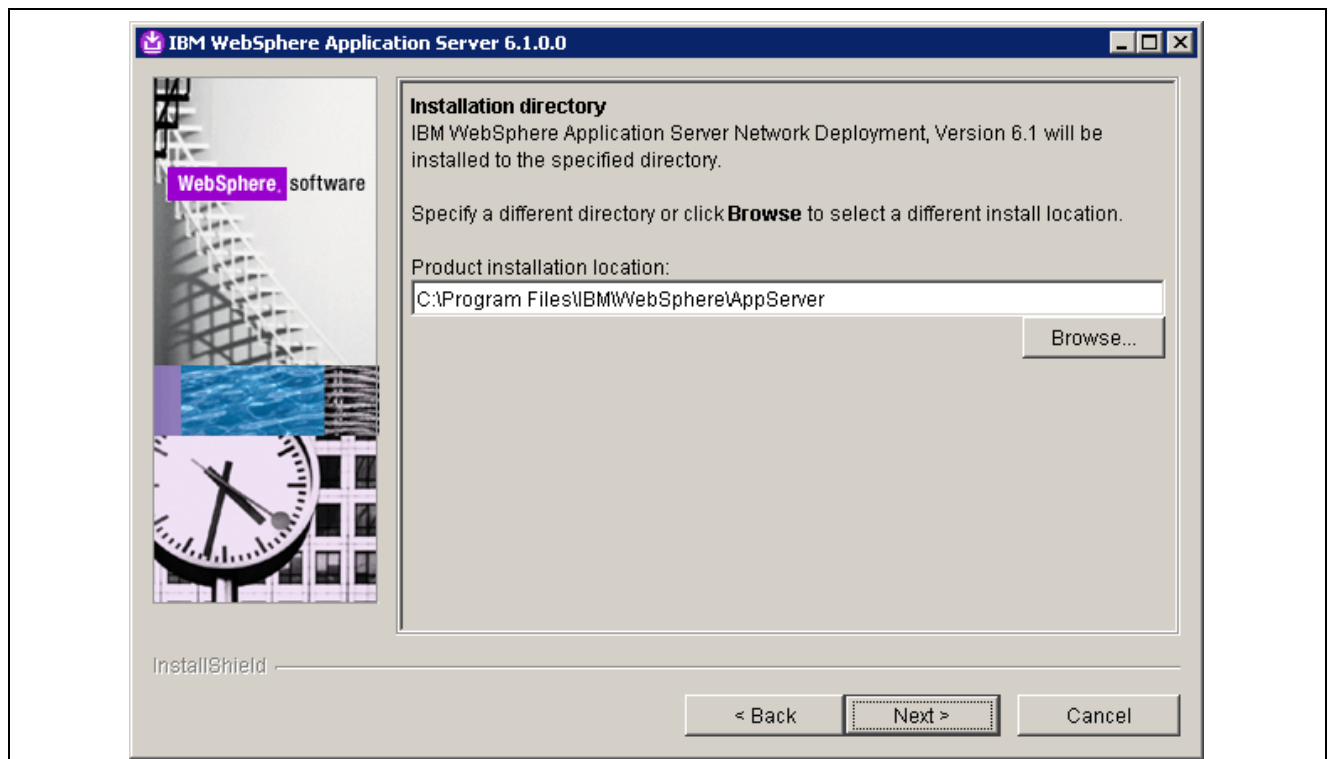
IBM WebSphere Application Server welcome window

2. Click Next.
3. Accept the license agreement and click Next.



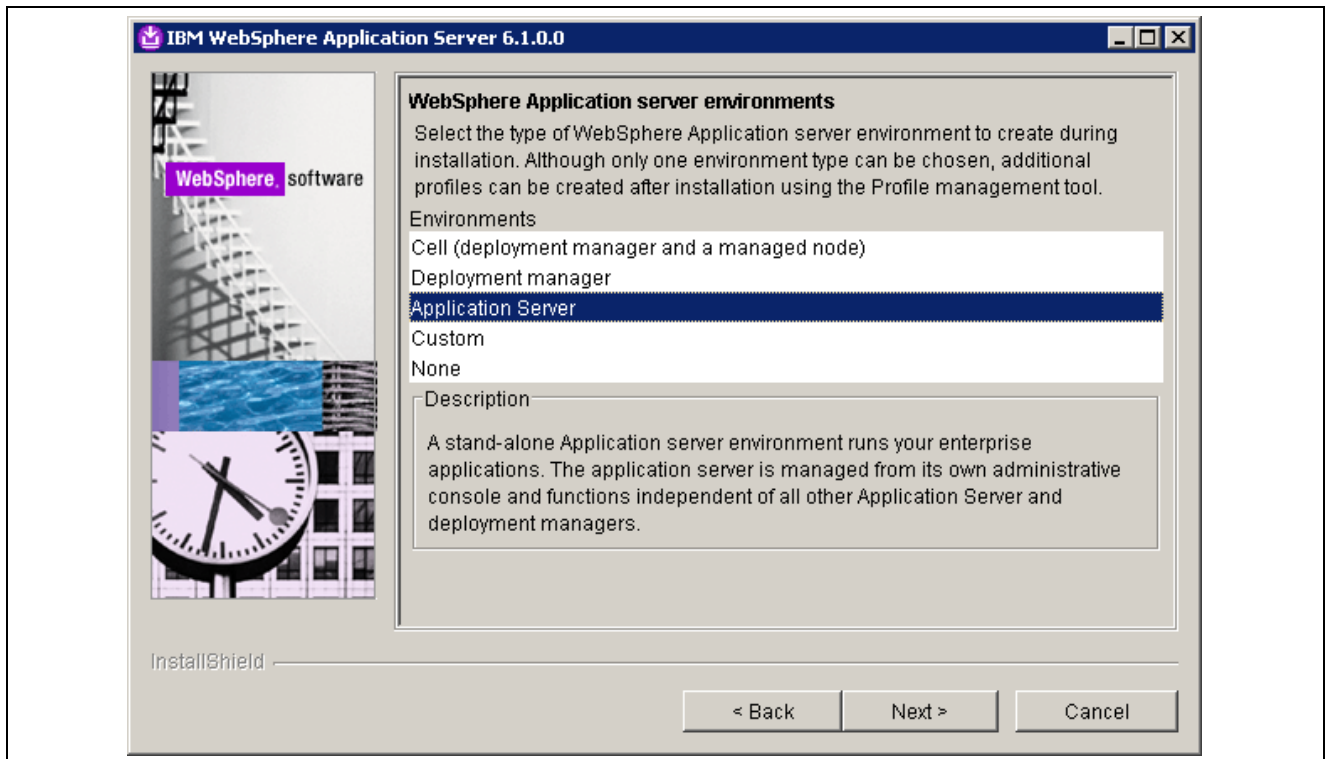
IBM WebSphere Application Server License Agreement window

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.



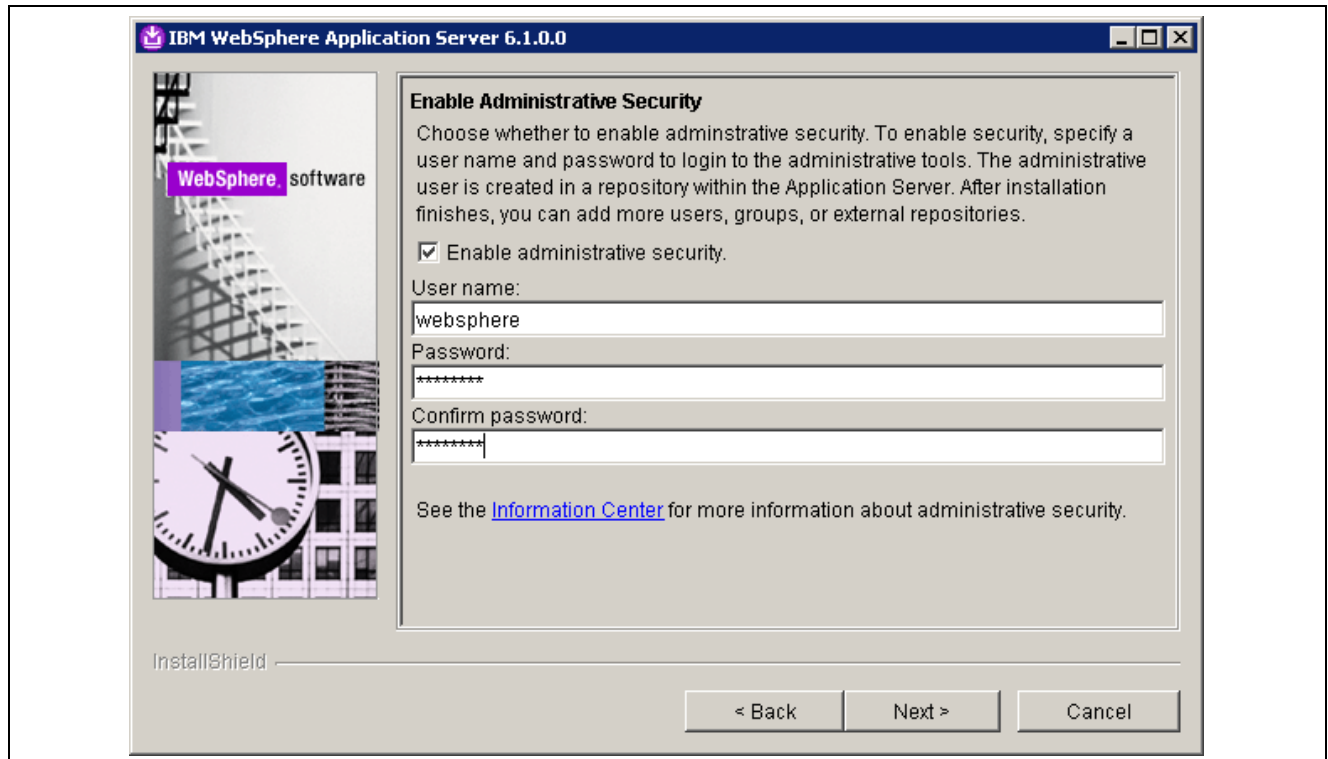
IBM WebSphere Application Server Installation directory window

- On the WebSphere Application server environment window, select *Application Server* from the list of environments.



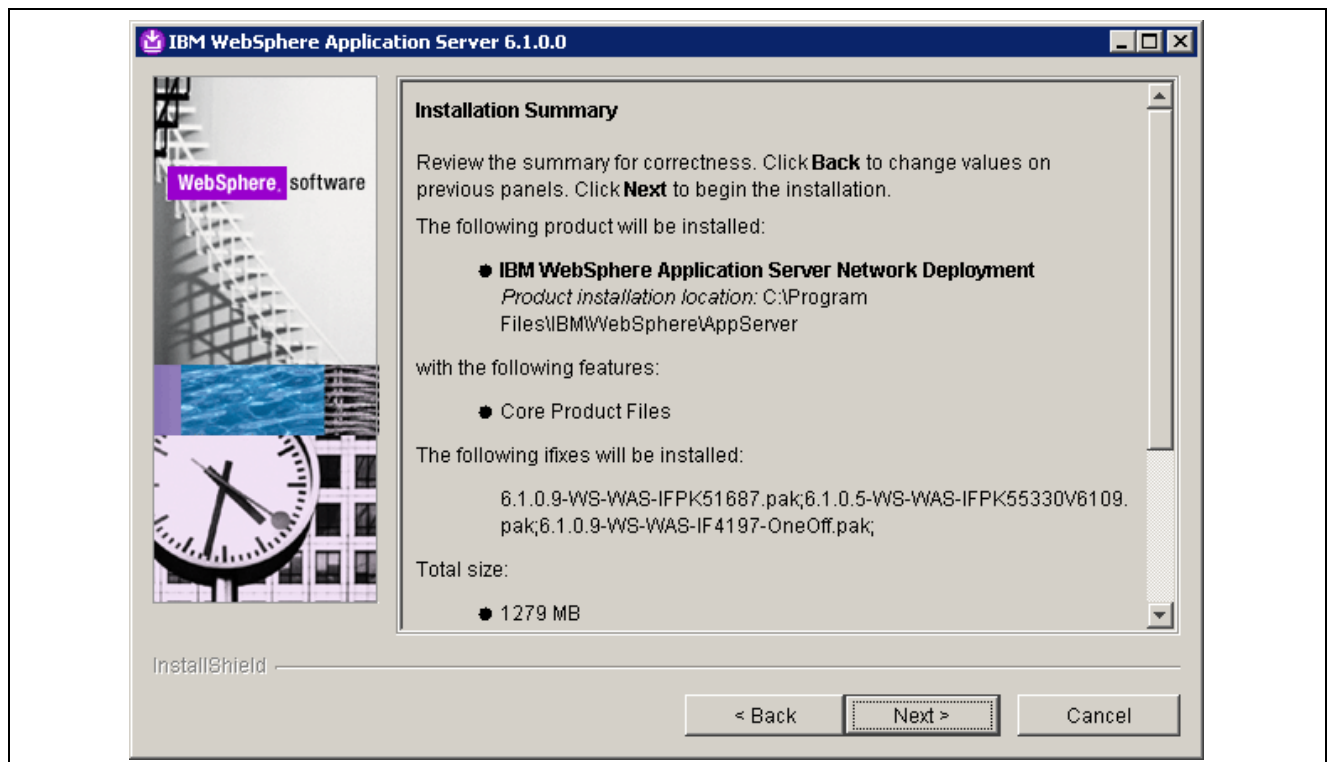
IBM WebSphere Application Server environments window

- Select the default profile and click Next.
- 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

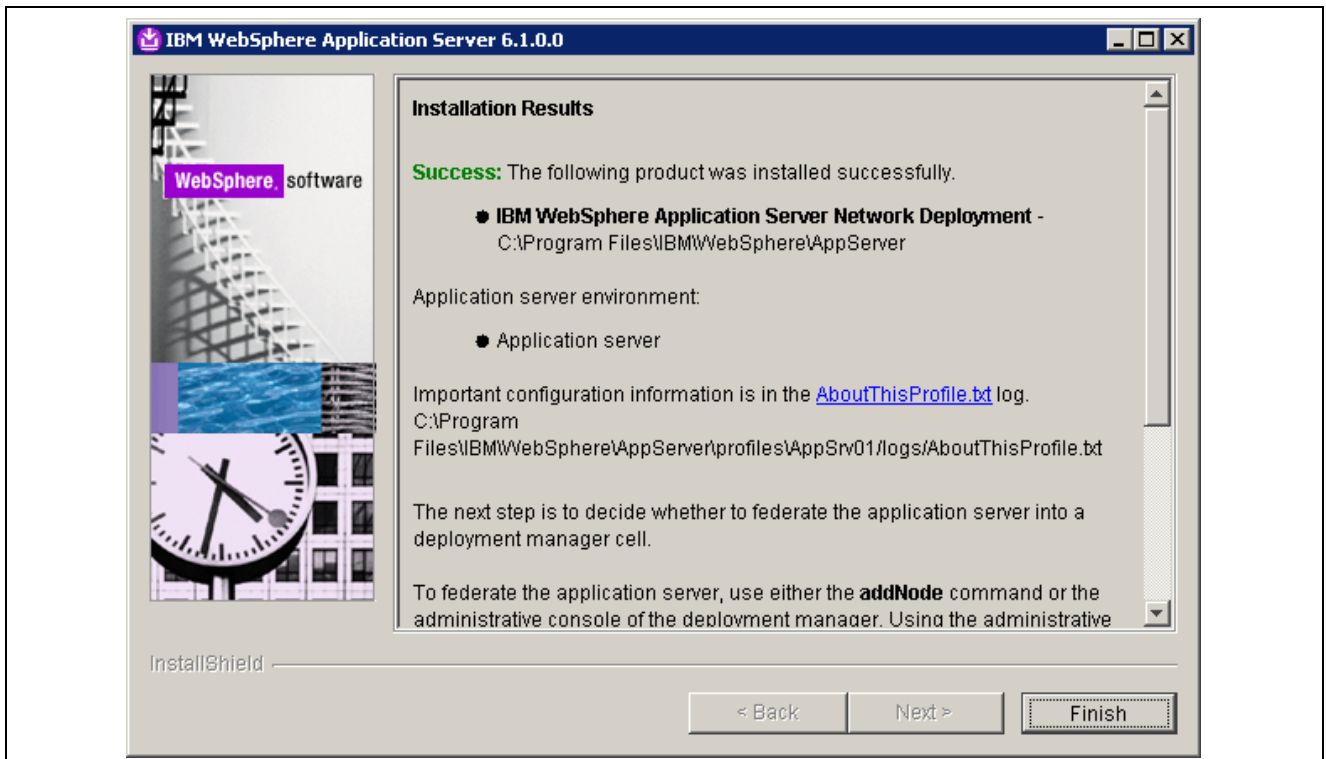
9. Review the installation summary and click Next to begin the installation.



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 11-4-5: Installing SAP BusinessObjects Enterprise XI 3.1 on Windows

The installation files for SAP BusinessObjects Enterprise XI 3.1 are included on Oracle E-Delivery. Download the files as described earlier and save them in a convenient directory, referred to here as *BOE\_INSTALL*.

See Obtaining SAP BusinessObjects Enterprise and Crystal Reports Files from Oracle E-Delivery.

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.

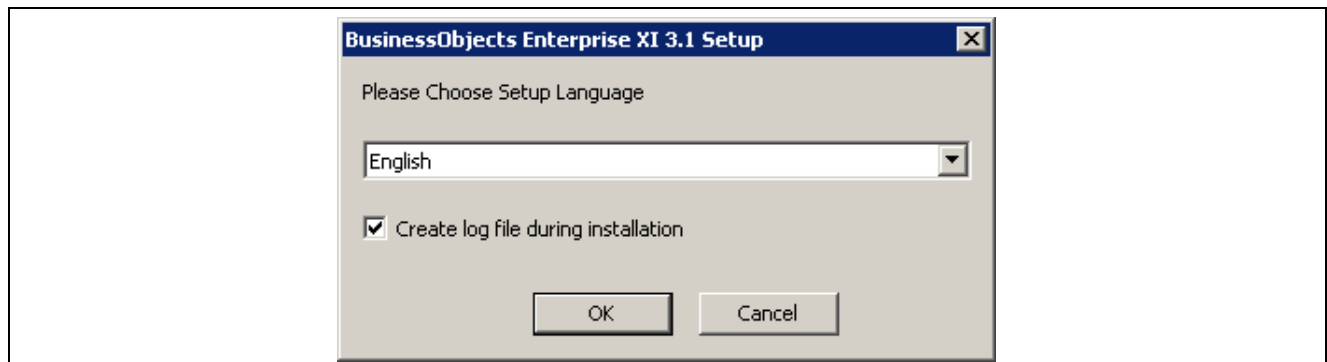
---

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 setup language

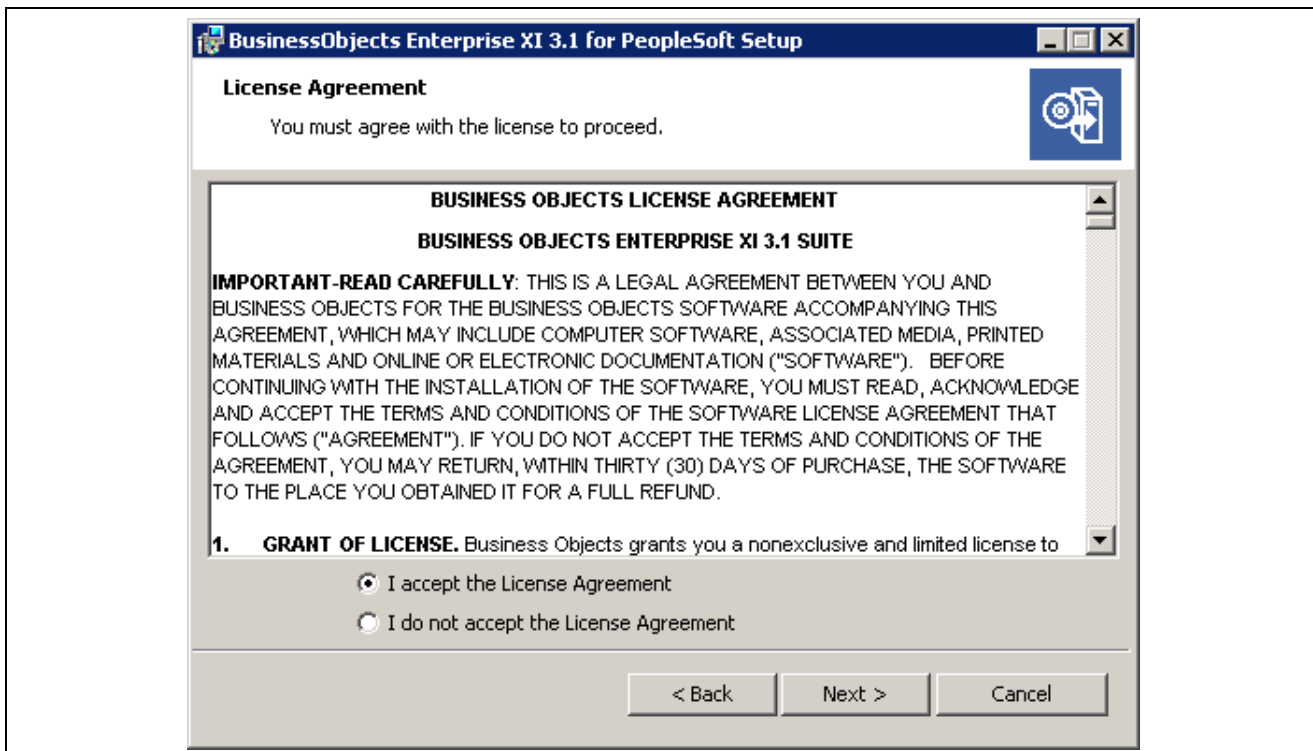
3. Click Next on the welcome window.



BusinessObjects Enterprise XI 3.1 for PeopleSoft Setup welcome window

4. Read the license agreement and select I accept the License Agreement.





License Agreement window

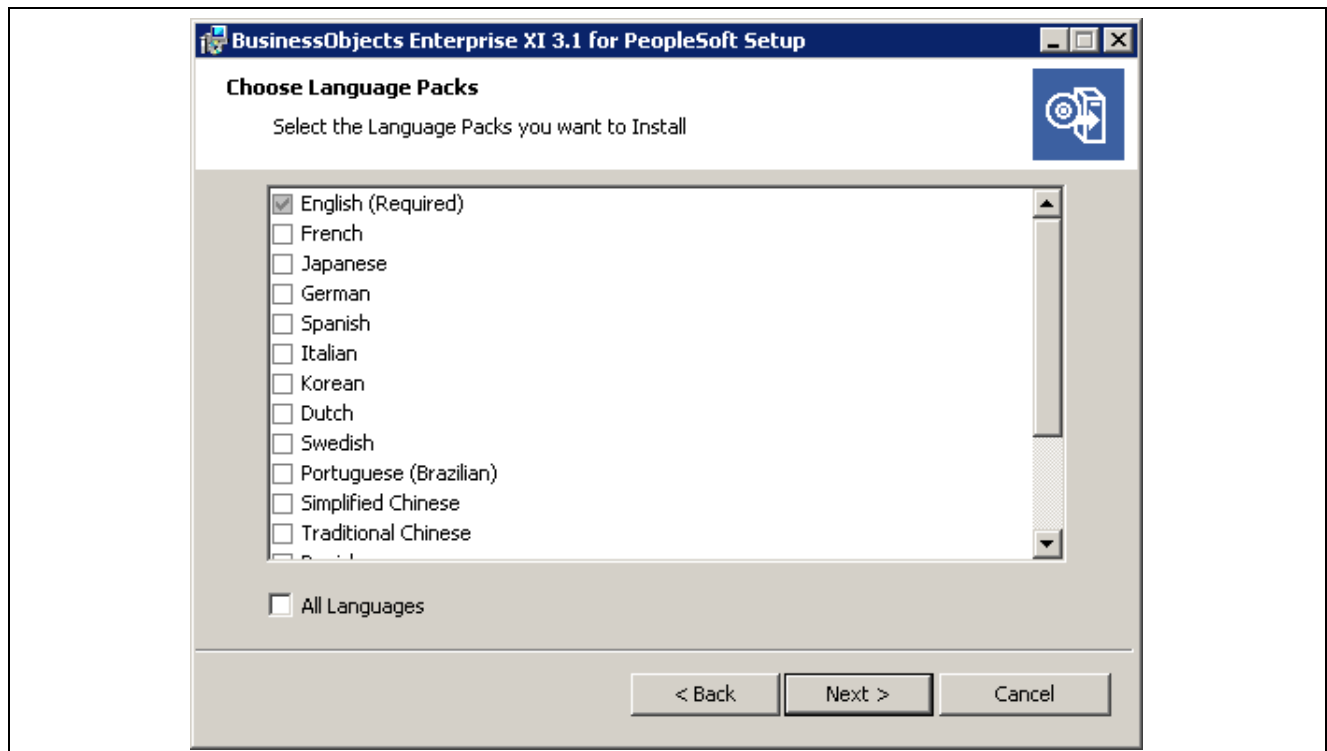
Click Next. The User Information window appears.

5. 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.

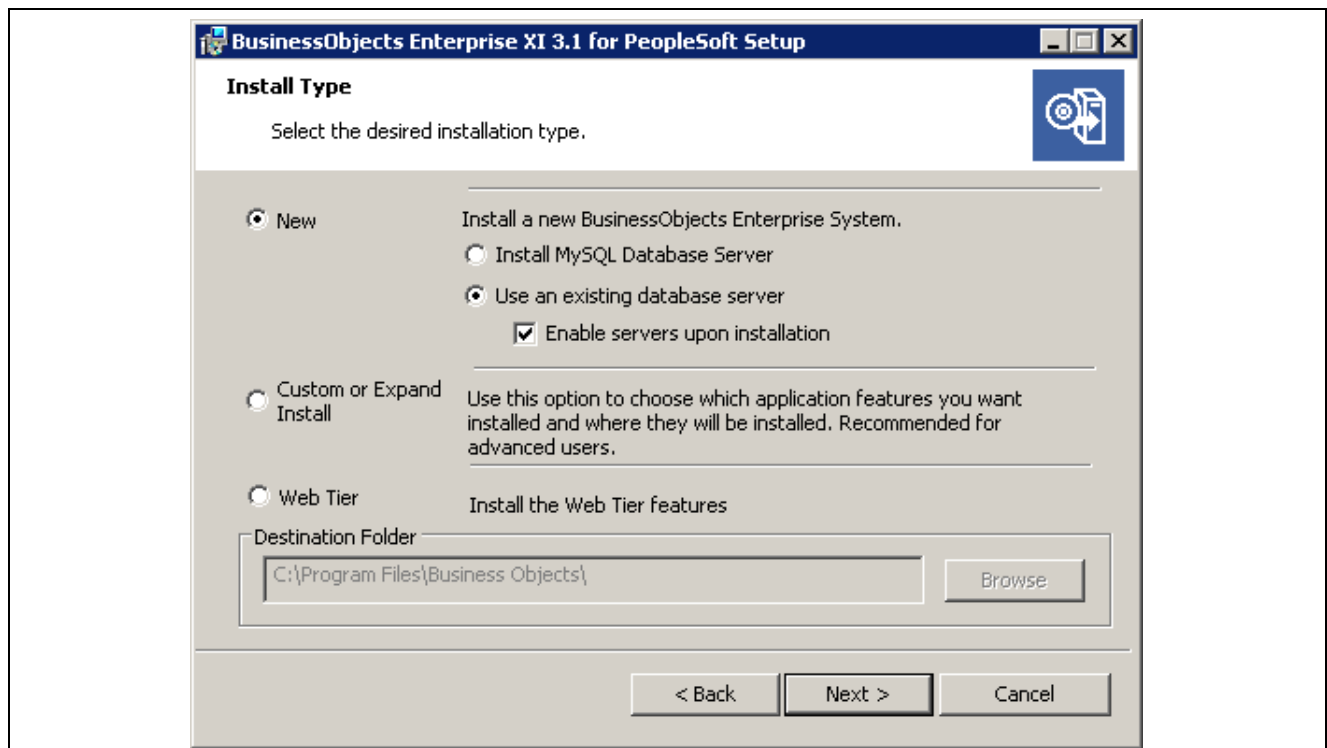
---



Choose Language Packs window

The Install Type window appears.

6. Select New as the installation type.



Install Type window

Select one of the following options:

- Select Use an existing database server if you want to use an existing database server.
- 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 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\Business Objects.

7. Click Next.

The Server Components Configuration window appears.

8. Specify the following information:

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

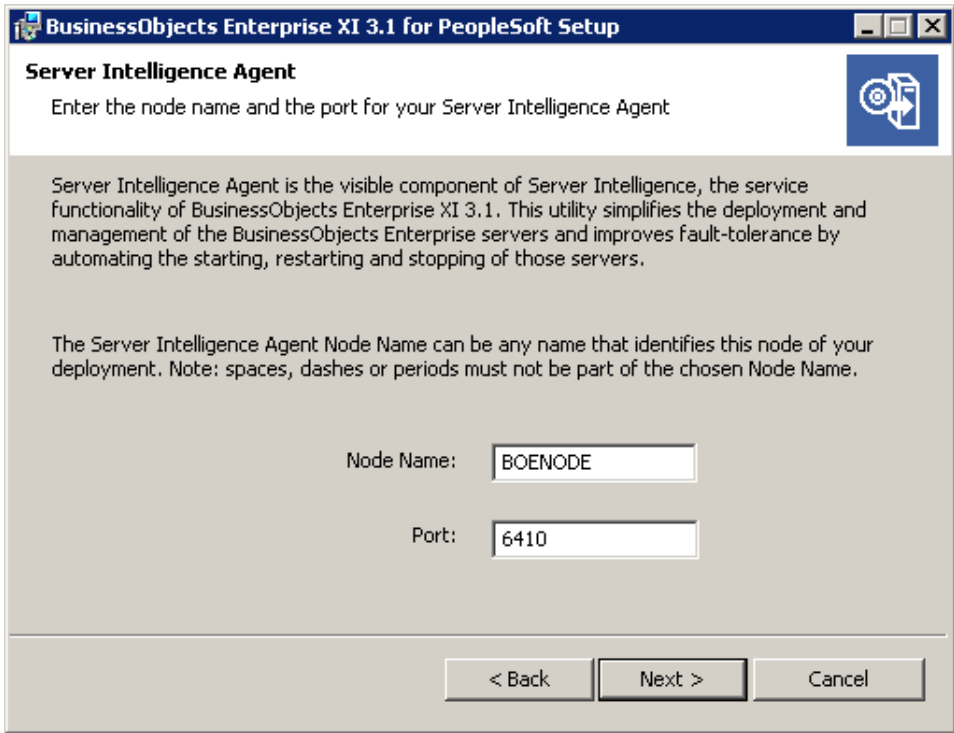
Specify a secure password for the CMS administrator account in the Password and Confirm password fields.

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.

## 9. Click Next.

The Server Intelligence Agent (SIA) window appears.

## 10. Specify the following information:



Server Intelligence Agent window

- *Node Name*

Provide a unique name to identify the SIA node.

---

**Note.** Do not use spaces or non-alphanumeric characters in a SIA node name.

---

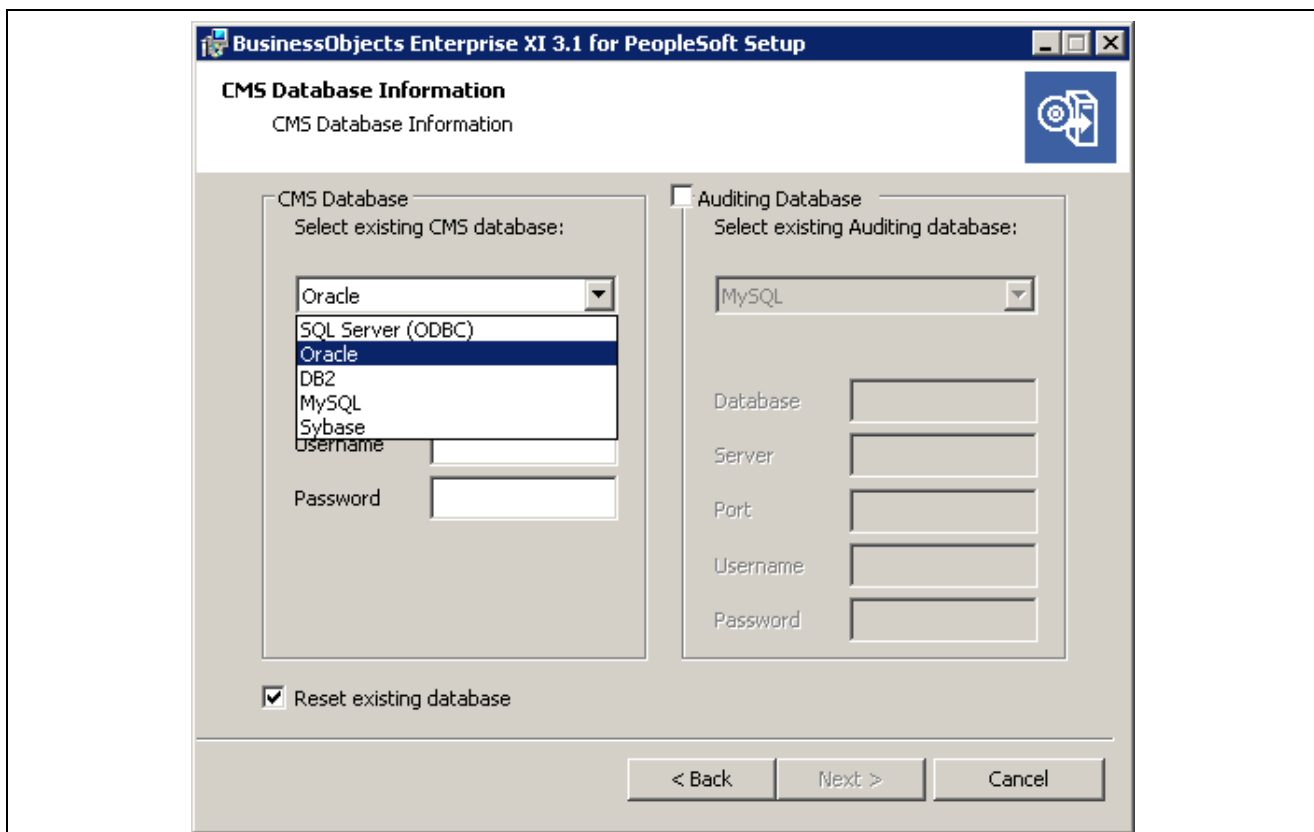
- *Port*

Specify a port number for the SIA. The default is 6410. 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.

## 11. Click Next.

The CMS Database Information window appears.



CMS Database Information window

12. If you chose the option to use an existing database server, enter connection and authentication details for the database as follows:

**BusinessObjects Enterprise XI 3.1 for PeopleSoft Setup**

**CMS Database Information**  
CMS Database Information

**CMS Database**  
Select existing CMS database:  
Oracle

Server: BOEDB850  
Username: sysadm  
Password: .....

**Auditing Database**  
Select existing Auditing database:  
Oracle

Server:   
Username:   
Password:

☒ Reset existing database

< Back   Next >   Cancel

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.

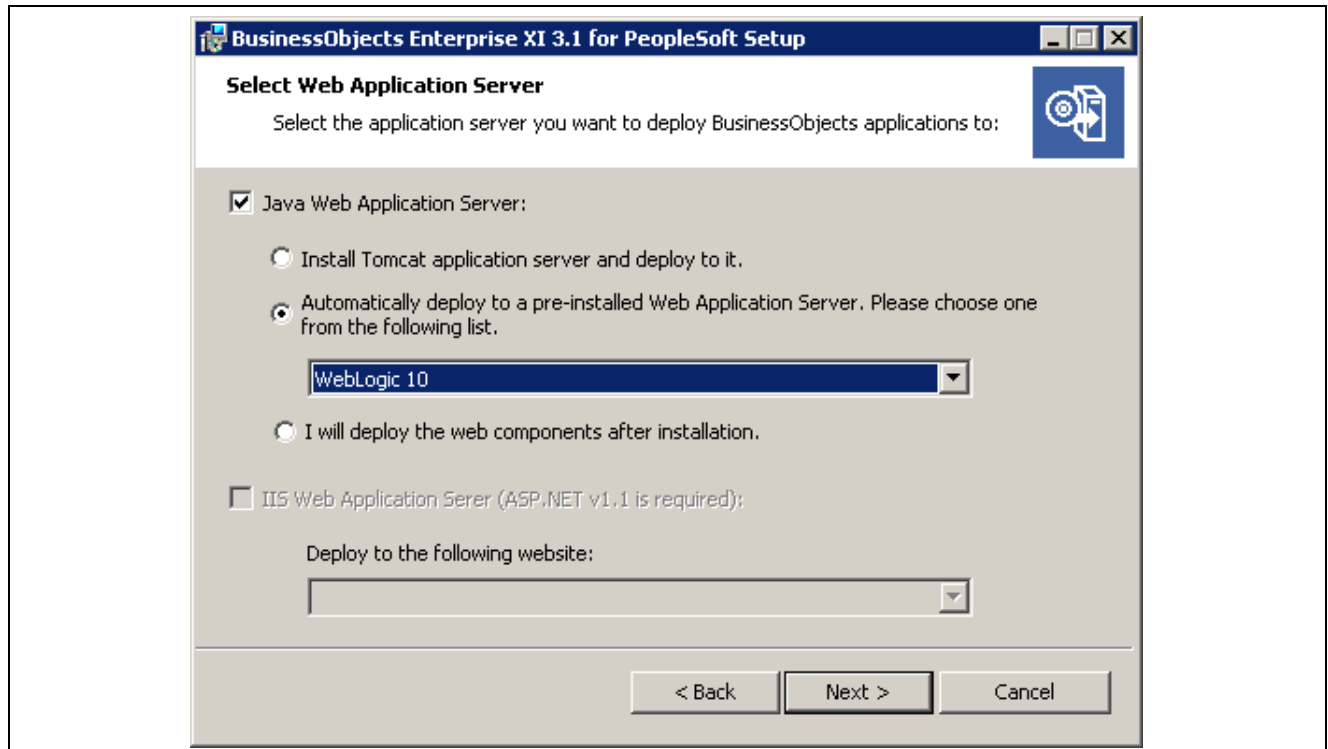
- Provide all the required information for the database in the fields provided in the CMS Database pane. The table below summarizes all the information required for each database type:

| 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.

13. 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.



Select Web Application Server window with Oracle WebLogic selected

14. 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.

---

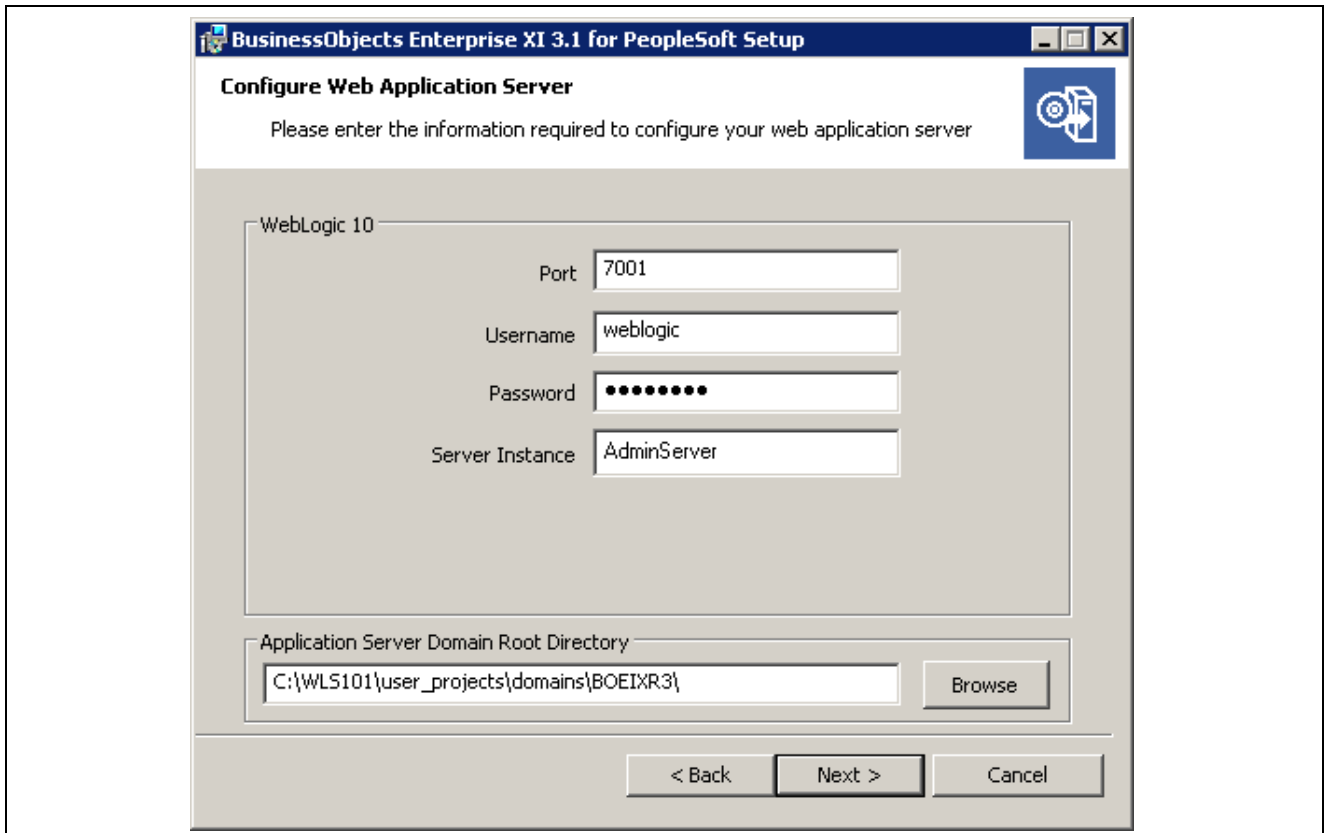
- Oracle WebLogic (The example above shows WebLogic 10.)
- IBM WebSphere

15. Click Next.

The options on the screen that appears next depend upon which web application server you select.

16. If you selected the option for Oracle WebLogic, the following Configure Web Application server window appears:





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 *7001*.

- *Username*

Enter the name for the user with administration rights to the web application server; in this example, the user name is *weblogic*.

- *Password*

Enter the password for the administrator user account.

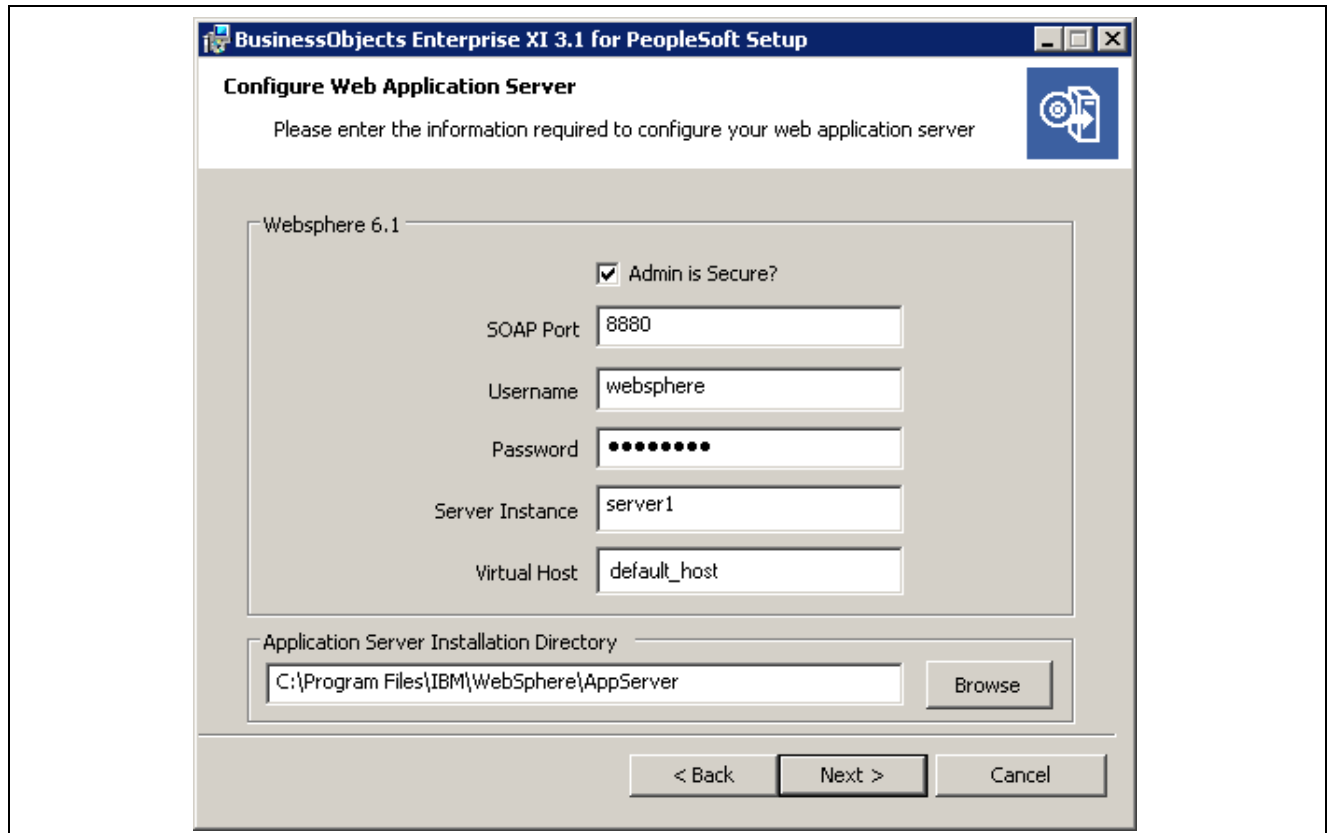
- *Server Instance*

Enter the name for the current web application server instance. The default is *AdminServer*.

- *Application Server Domain Root Directory*

The root directory for the web server domain; in this example, the directory is *C:\WLS101\user\_domains\BOEIXR3*.

17. If you selected the option for IBM WebSphere, the following Configure Web Application server window appears:



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 8880).
- *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; for example, password.
- *Server Instance*  
Name of the current web application server instance. The default is server1.
- *Virtual Host*  
The virtual host to which the application must be bound. The default is default\_host.
- *Admin is secure?*  
Select this option to enable security requiring administrative access credentials to the application.

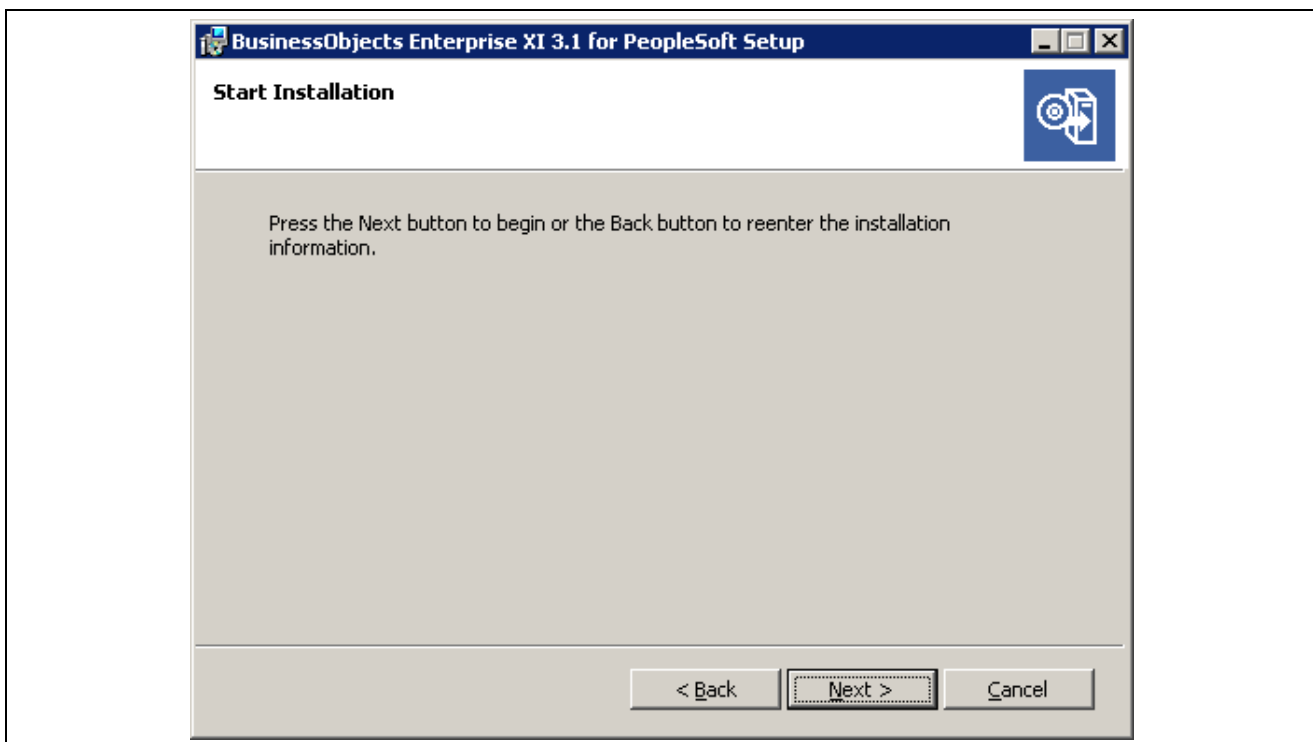
---

**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).

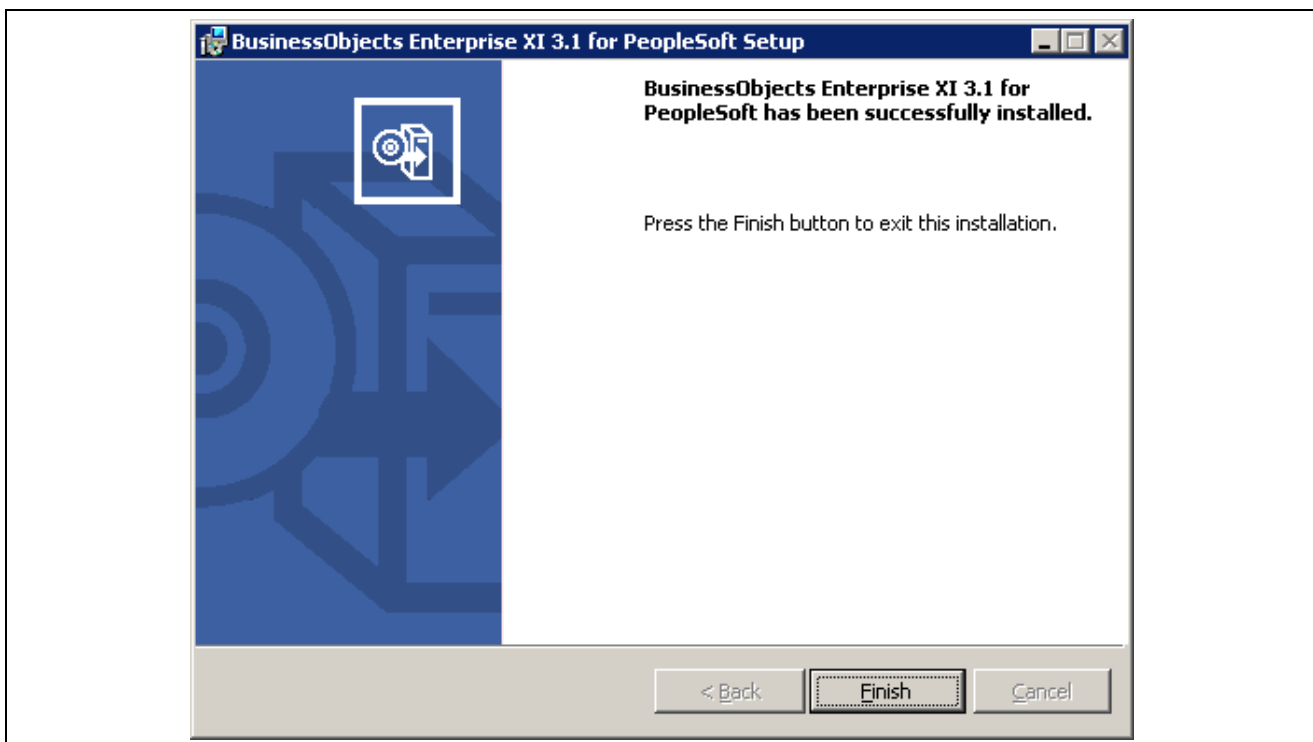
18. Click Next to start the installation process.



Start Installation window

19. Click Finish when the installation is complete.

Reboot your machine.

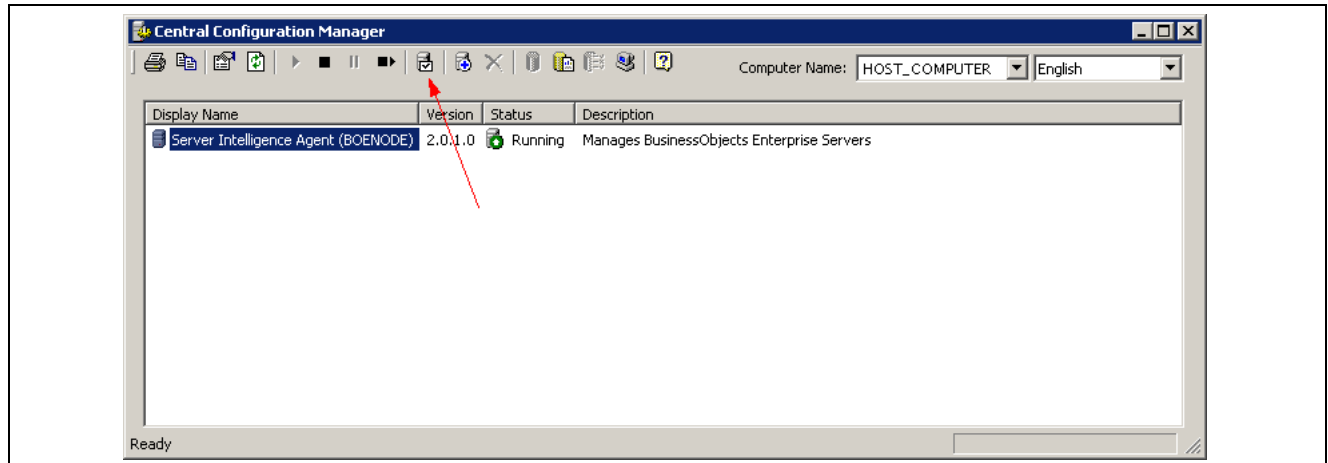


Successful installation window

20. Select Start, Programs, BusinessObjects XI 3.1, BusinessObjects Enterprise, Central Configuration Manager.

The Central Configuration Manager appears.

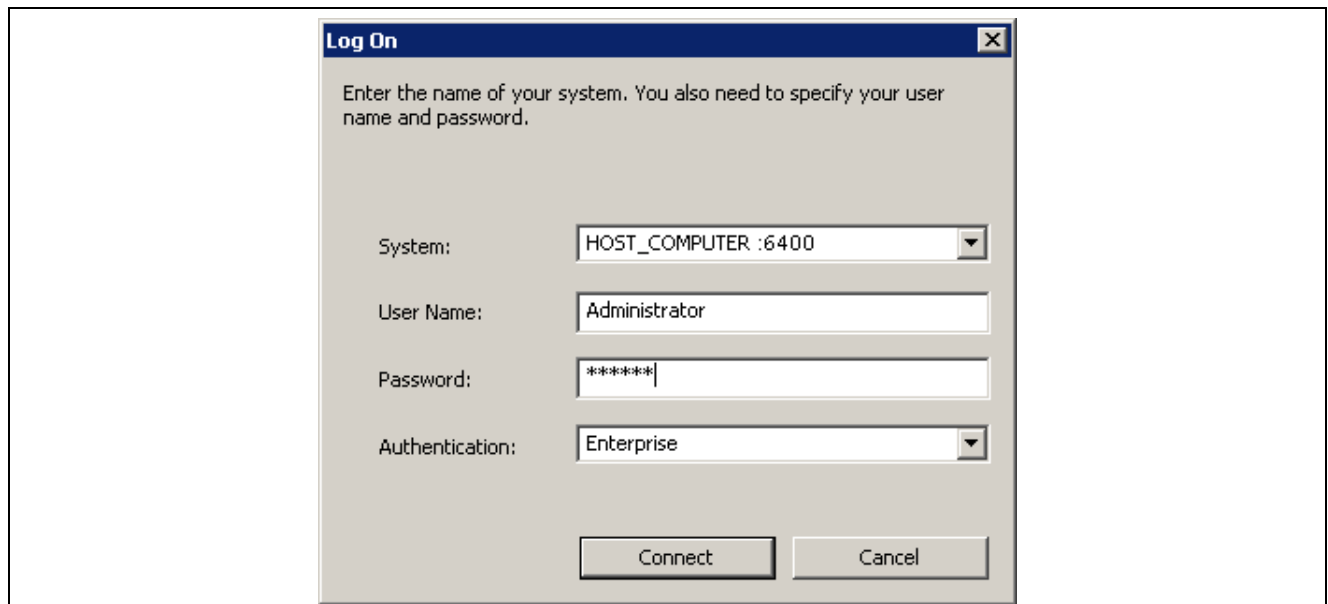
21. Click the Manage Servers icon, indicated by the red arrow in the example below.



Central Configuration Manager dialog box

The Log On dialog box appears.

22. 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*

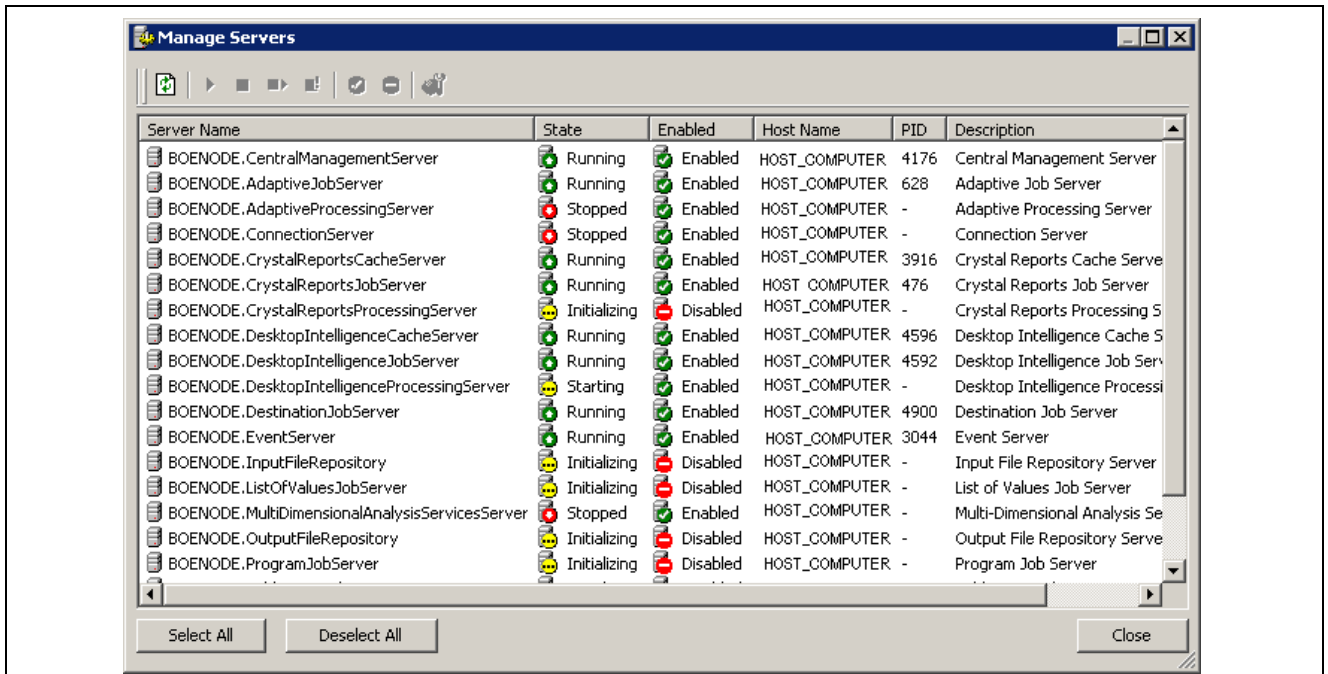
Enter the CMS administrator password, as you specified on the Server Components Configuration window above.

- *Authentication*

Select *Enterprise* from the drop-down list.

23. Click Connect.

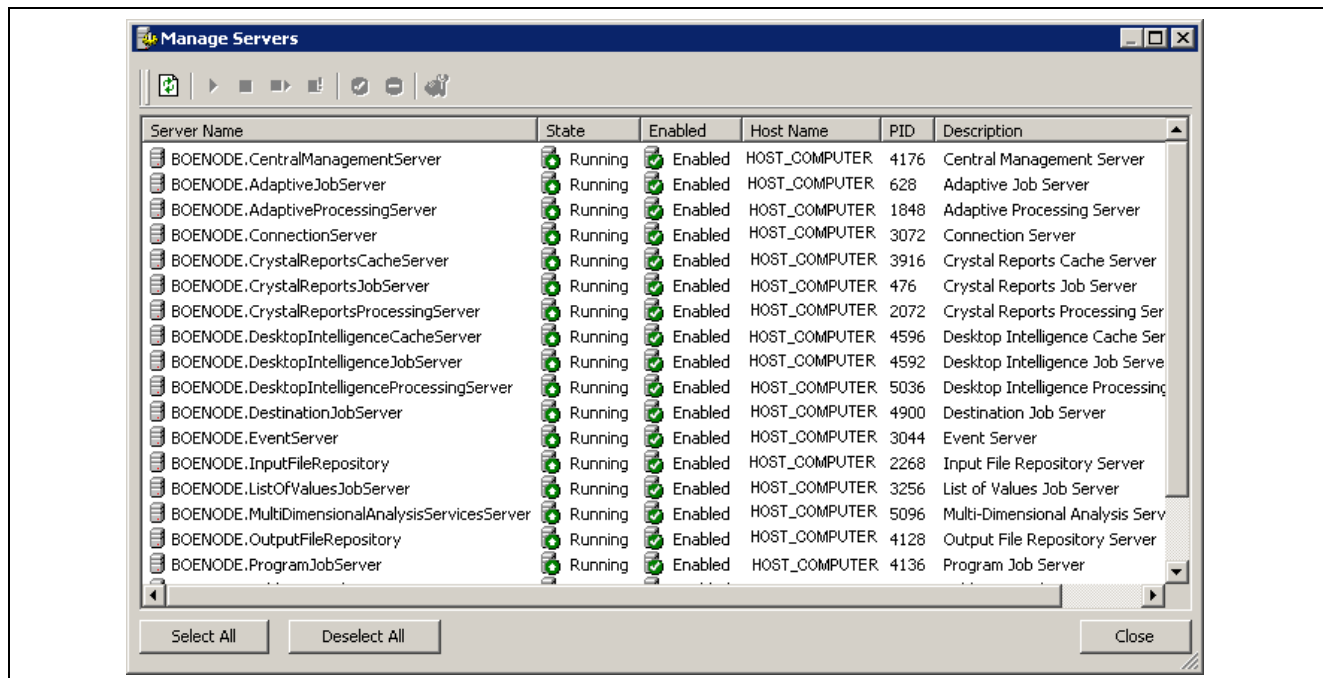
The Manage Servers dialog box appears with all servers and their state. The servers take a couple of minutes to start up. The listing is not refreshed unless the refresh button is clicked.



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

24. 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\BusinessObjects\). Substitute your path in the following.

The PATH environment system variable should include:

*BOE\_HOME*\BusinessObjects Enterprise 12.0\win32\_x86

25. Reboot your machine.

## Task 11-4-6: 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 E-Delivery 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.

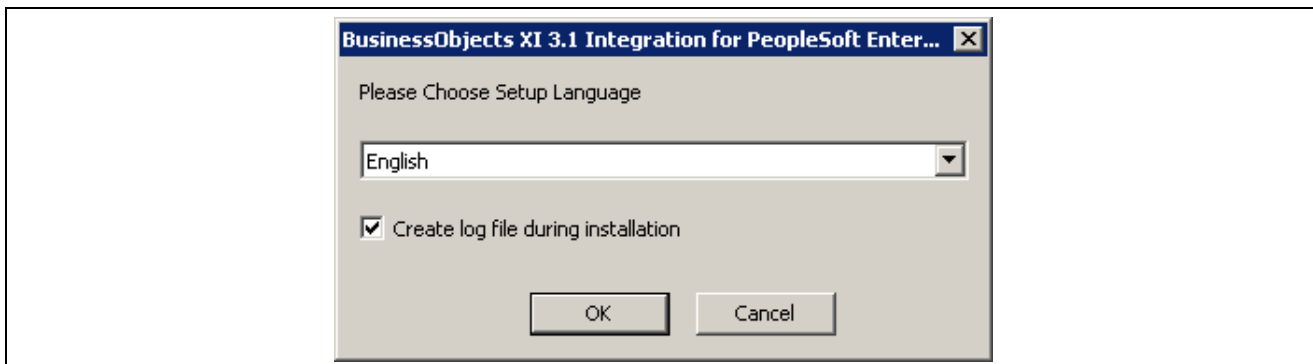
To install the integration kit:

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.

---



Choosing the setup language for BusinessObjects XI Integration

The Welcome window appears.

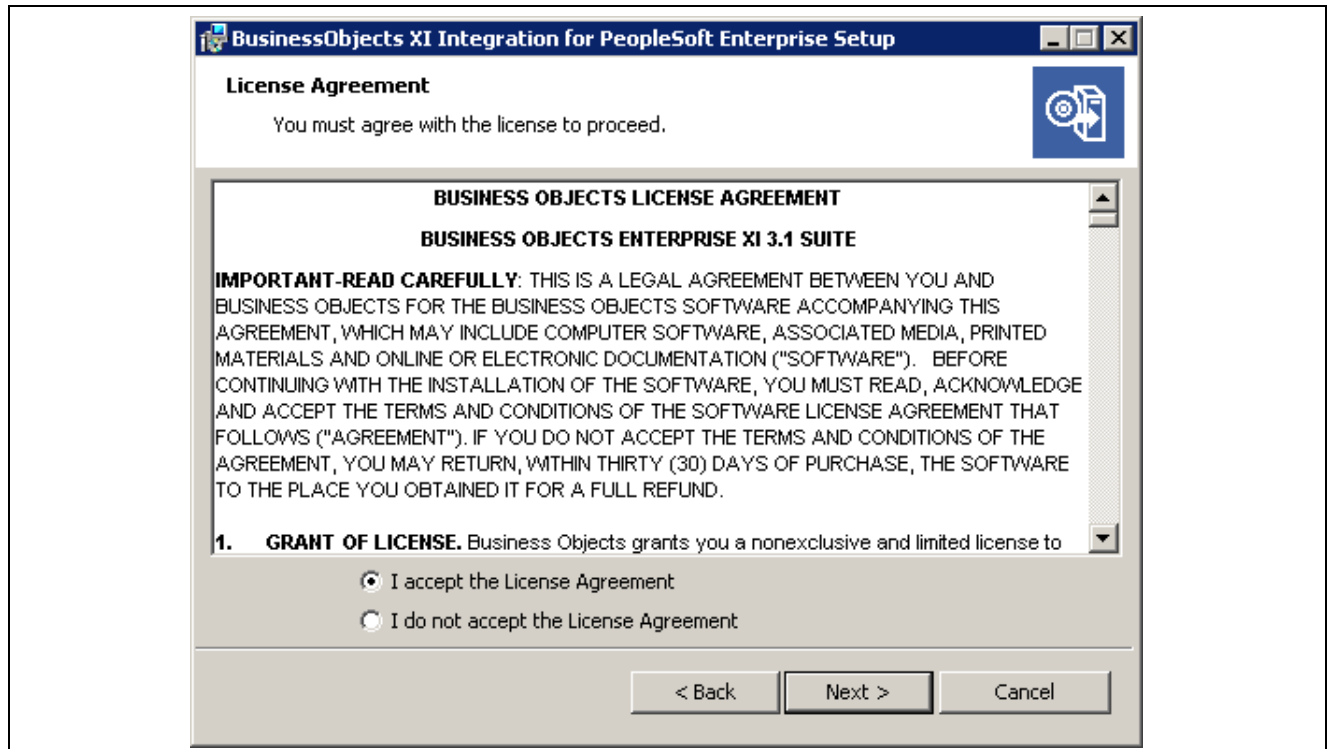
3. Read the recommendation message and click next



BusinessObjects XI Integration for PeopleSoft Enterprise Setup Welcome window

The License Agreement dialog box appears.

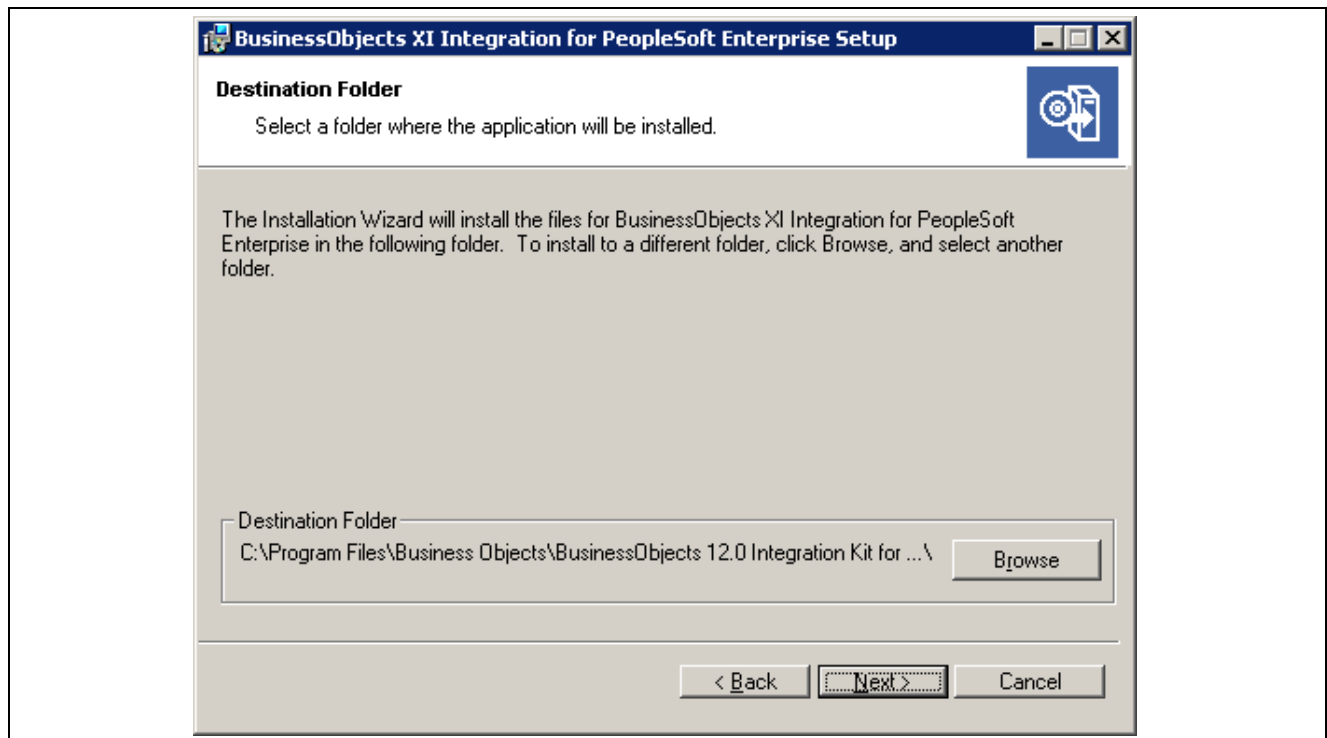
4. To continue the installation, you must accept the license agreement and click Next.



Business Objects License Agreement

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.

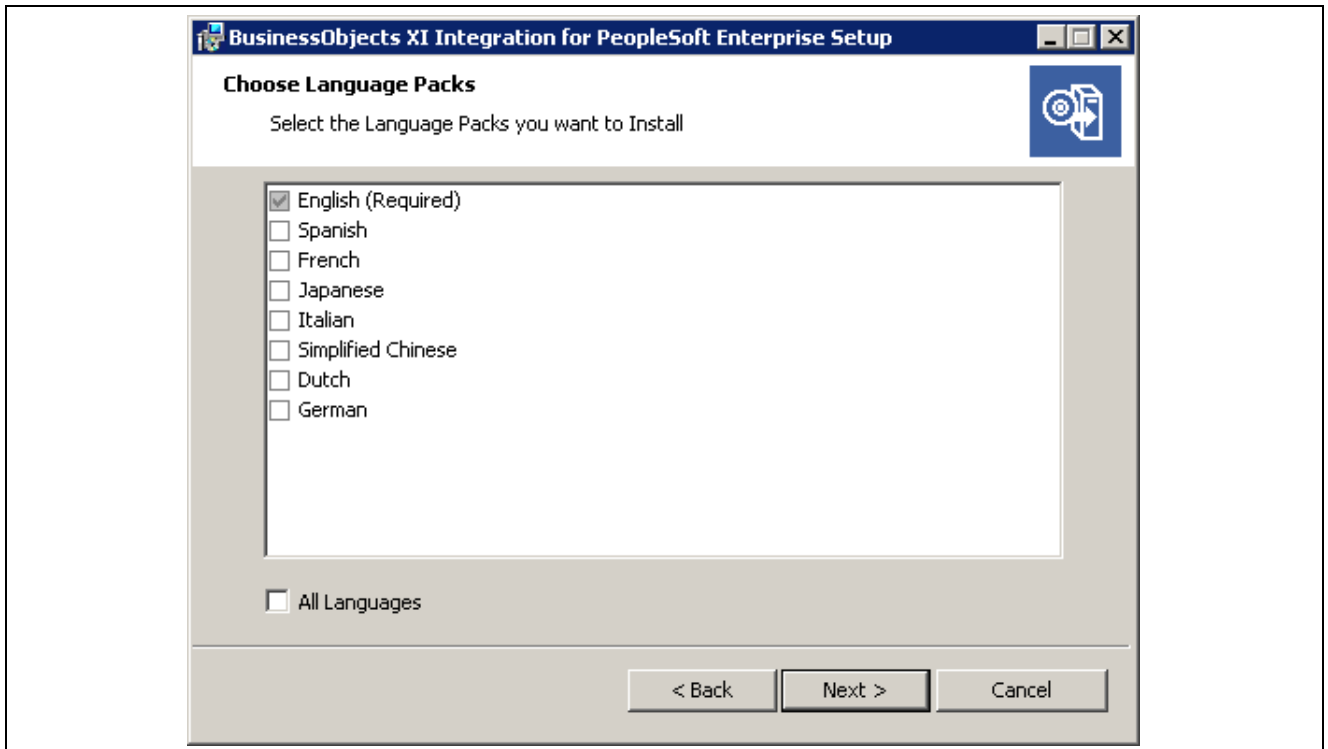


Destination Folder window



The Choose Language Pack window appears.

6. Choose the language pack you want to install and click Next.



Choosing Language Packs

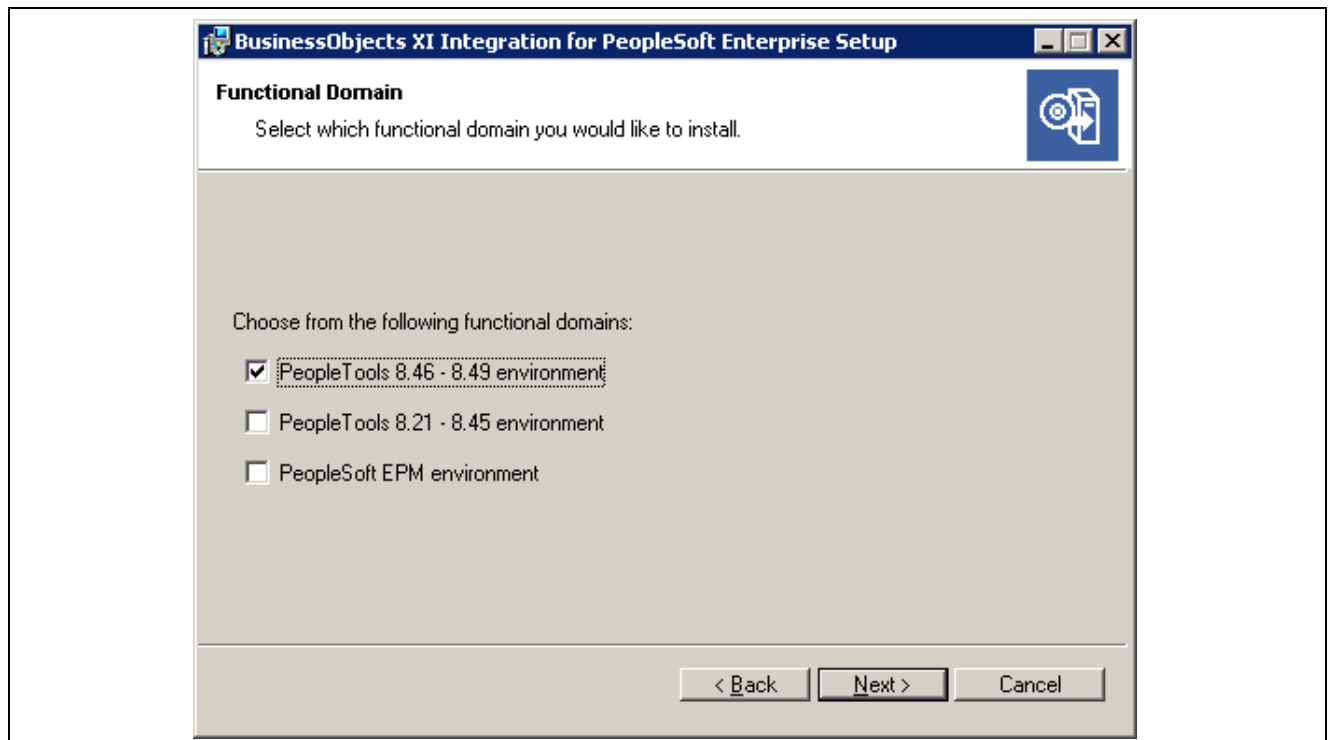
The Functional Domain window appears.

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.

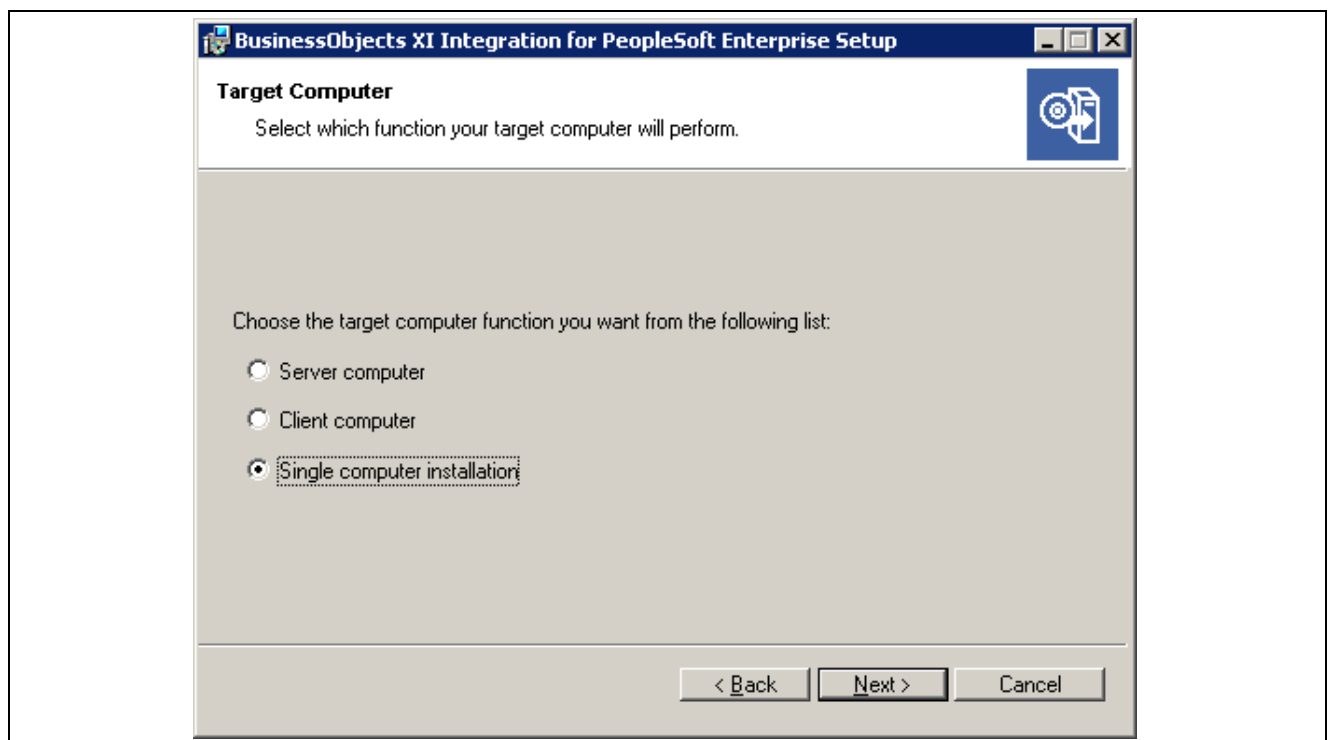
---



Functional Domain window

The Target Computer window appears.

8. Choose Server computer, Client computer, or Single Computer, as follows:



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.

BusinessObjects 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.

- *Port*

Enter the CMS port number 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*

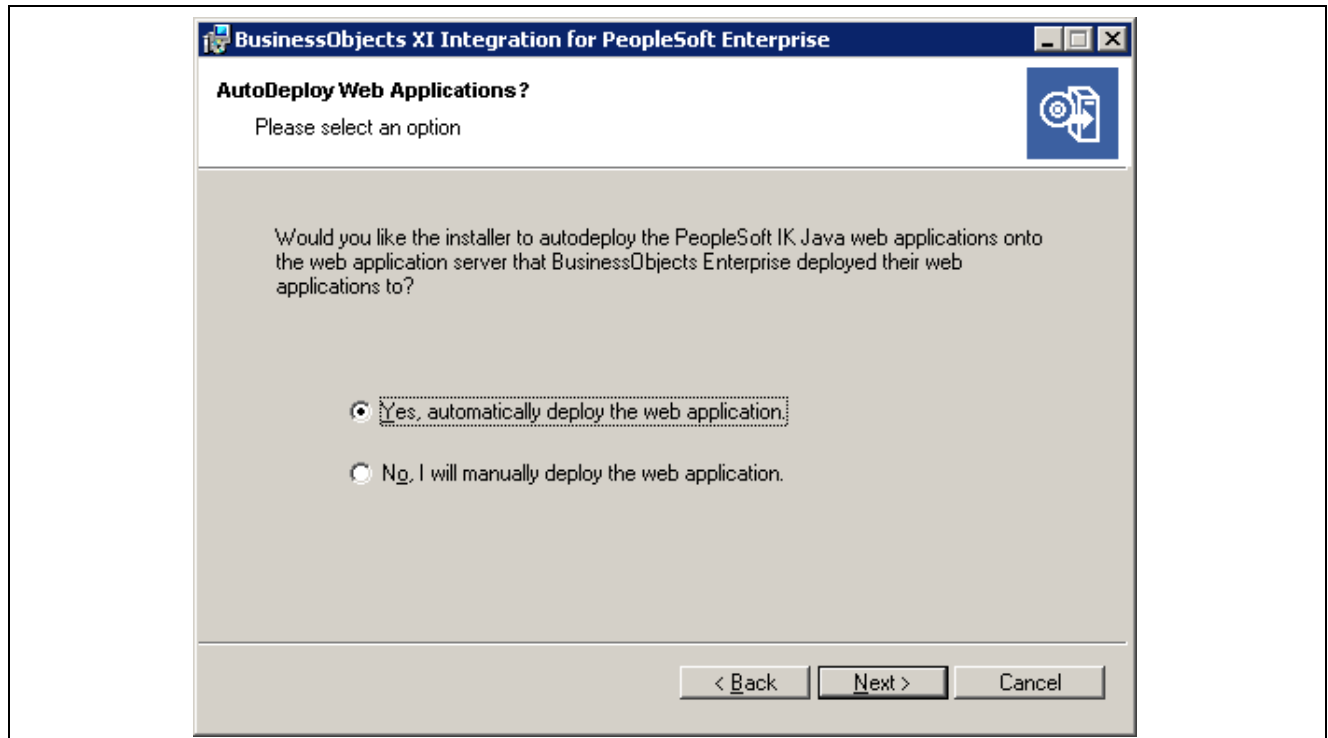
Enter the password for the CMS Administrator account that you entered on the Server Components Configuration window.

- *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.



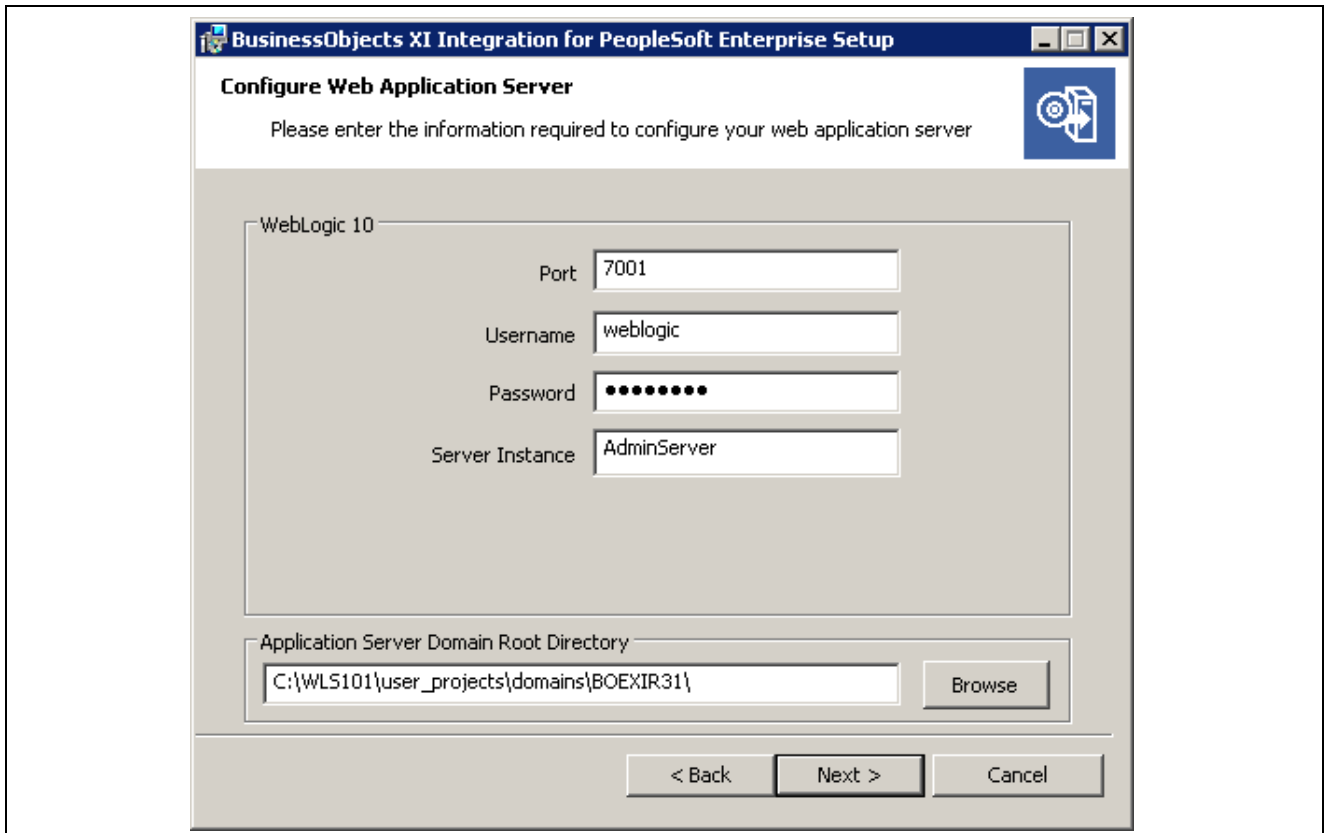
AutoDeploy Web Applications window

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:



Configure Web Application Server window with Oracle WebLogic

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 7001.

- *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*

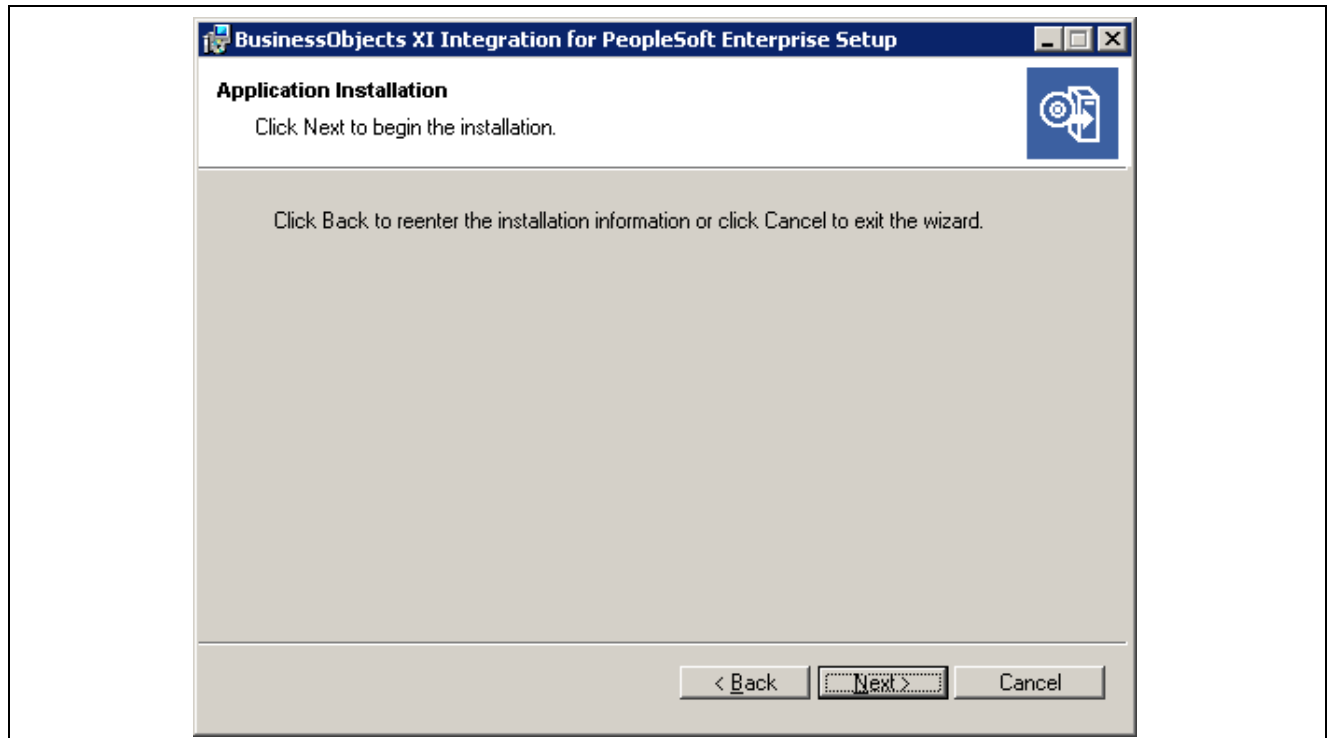
Enter the server instance. For Oracle WebLogic, this is AdminServer.

- *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:\WLS101\user\_projects\domains\BOEXIR31.

14. Click Next.

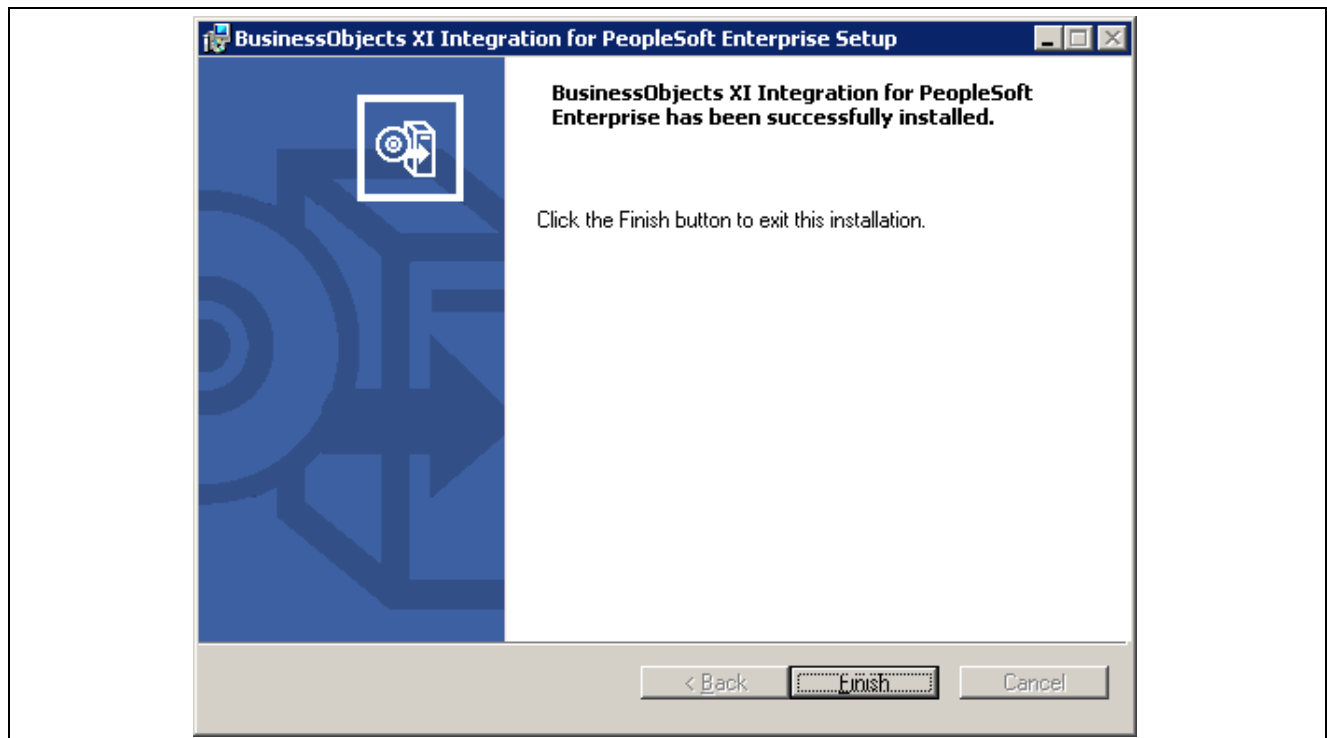
The Application Installation dialog box appears.



Application Installation window

15. Click Next to begin the installation.

When the installation is complete, click Finish.



Successful installation window

## Task 11-4-7: Installing Fix Packs or Service Packs on Windows

After completing the basic installation of SAP BusinessObjects Enterprise XI 3.1 and the BusinessObjects Integration Kit for PeopleSoft, you must install the appropriate 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 8.51," 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 kbbase 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=B0E_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=B0E_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 11-4-8: Creating the BusinessObjects Enterprise Archive and Installing Files on Windows

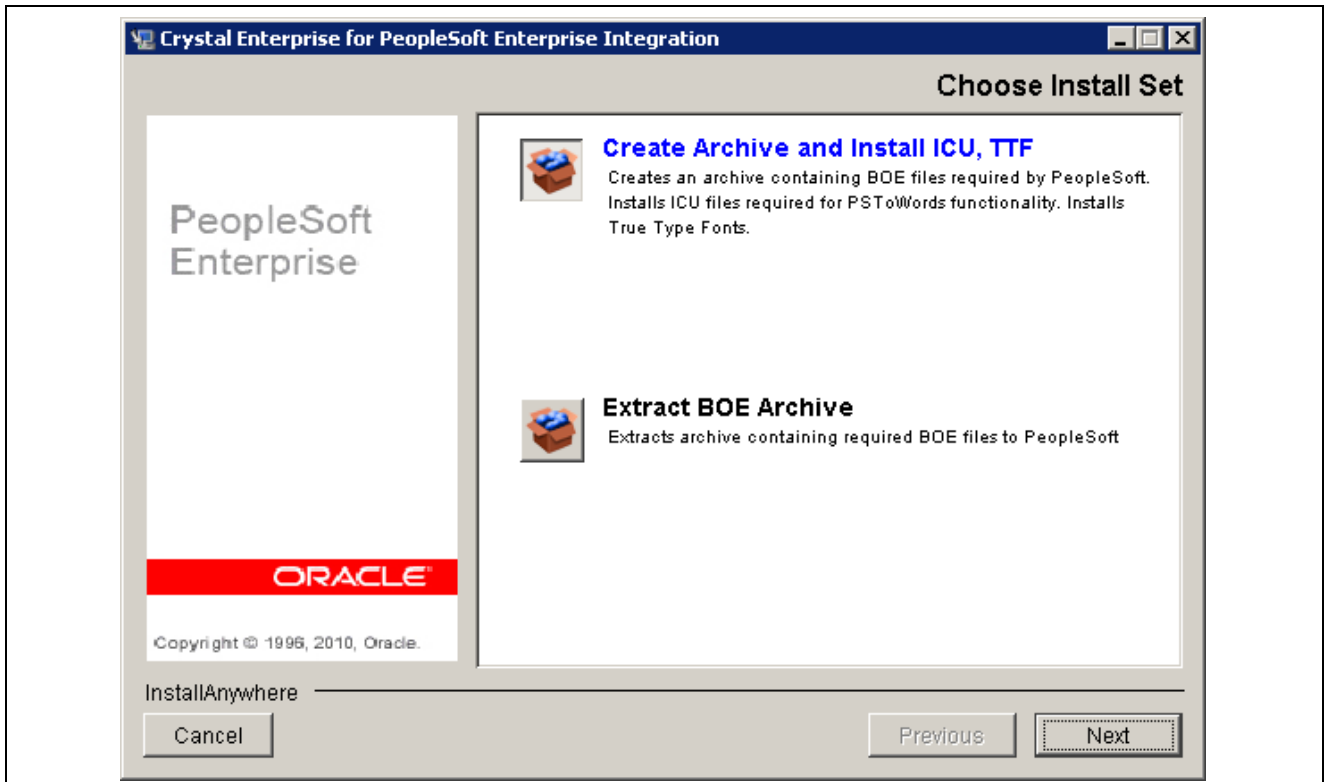
In this section you consolidate the files that are needed for the PeopleSoft to BusinessObjects Enterprise integration in an archive. Also, this procedure installs International Components for Unicode (ICU) files that are required for the PSToWords functionality that is used with Crystal reports.

See *Enterprise PeopleTools 8.51 PeopleBook: Crystal Reports for PeopleSoft*, "Working with Multiple Languages."

1. Go to `PS_HOME\setup\PsMpCrystalInstall\Disk1` and run `setup.bat`.

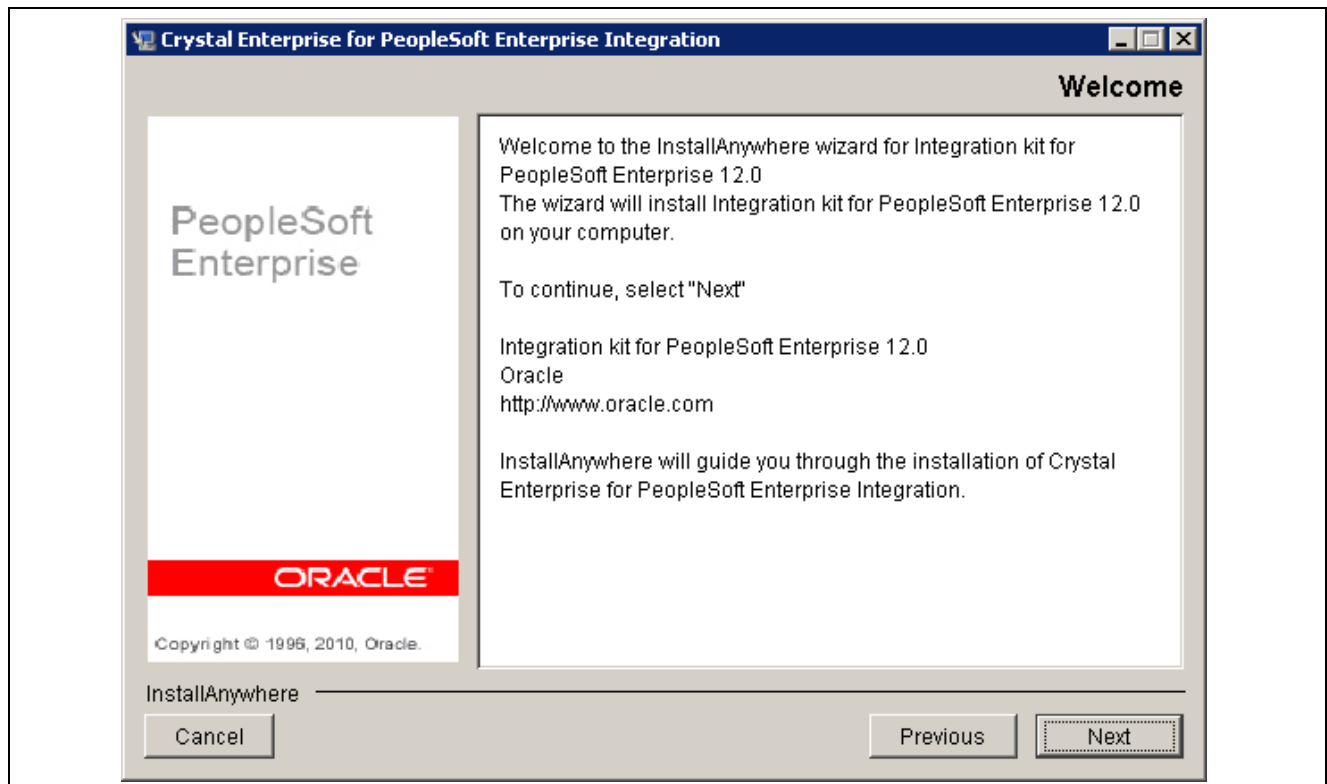


2. Select the option Create Archive and Install ICU, TTF, and then click Next.



Crystal Enterprise for PeopleSoft Enterprise Integration Choose Install Set window

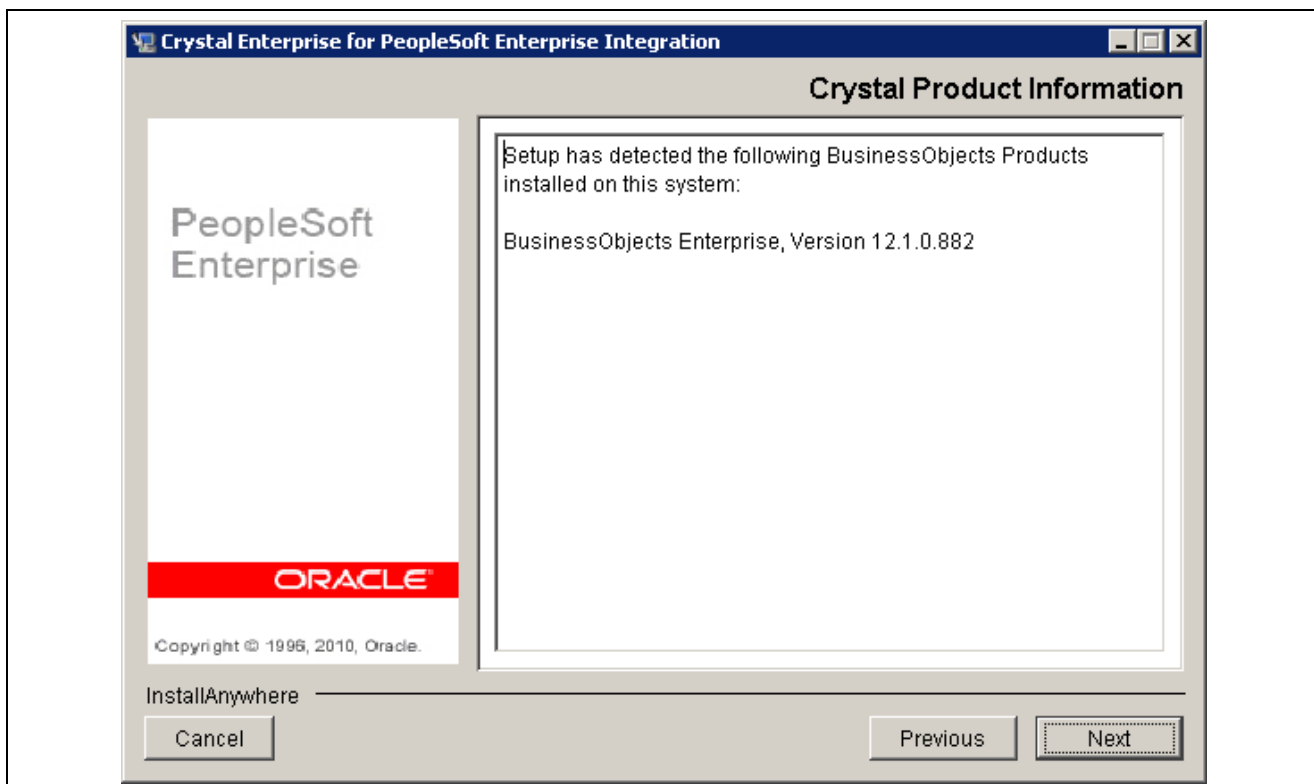
3. Click Next on the Welcome window.



Crystal Enterprise for PeopleSoft Enterprise Integration Welcome window

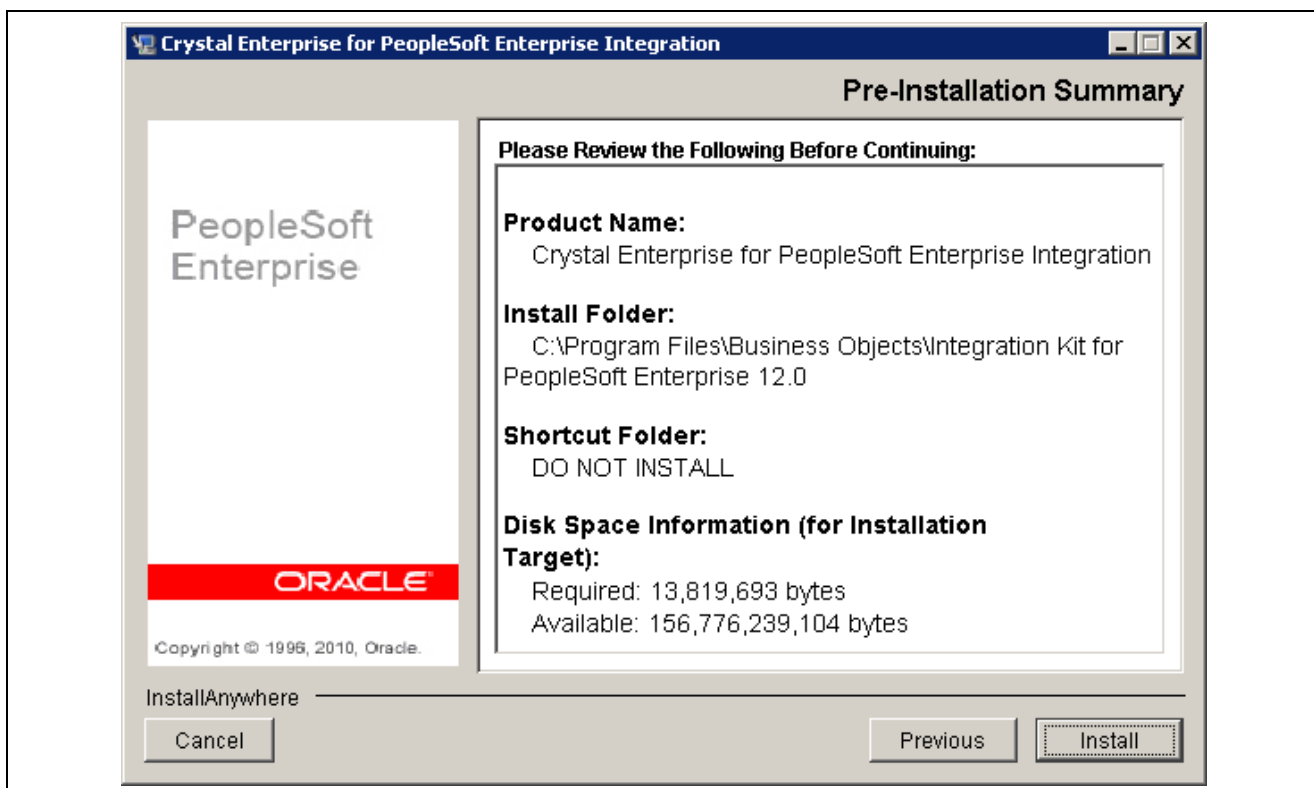
4. Click Next on the Crystal Product window.

The installer checks your system for the correct version of BusinessObjects Enterprise and display the version details.



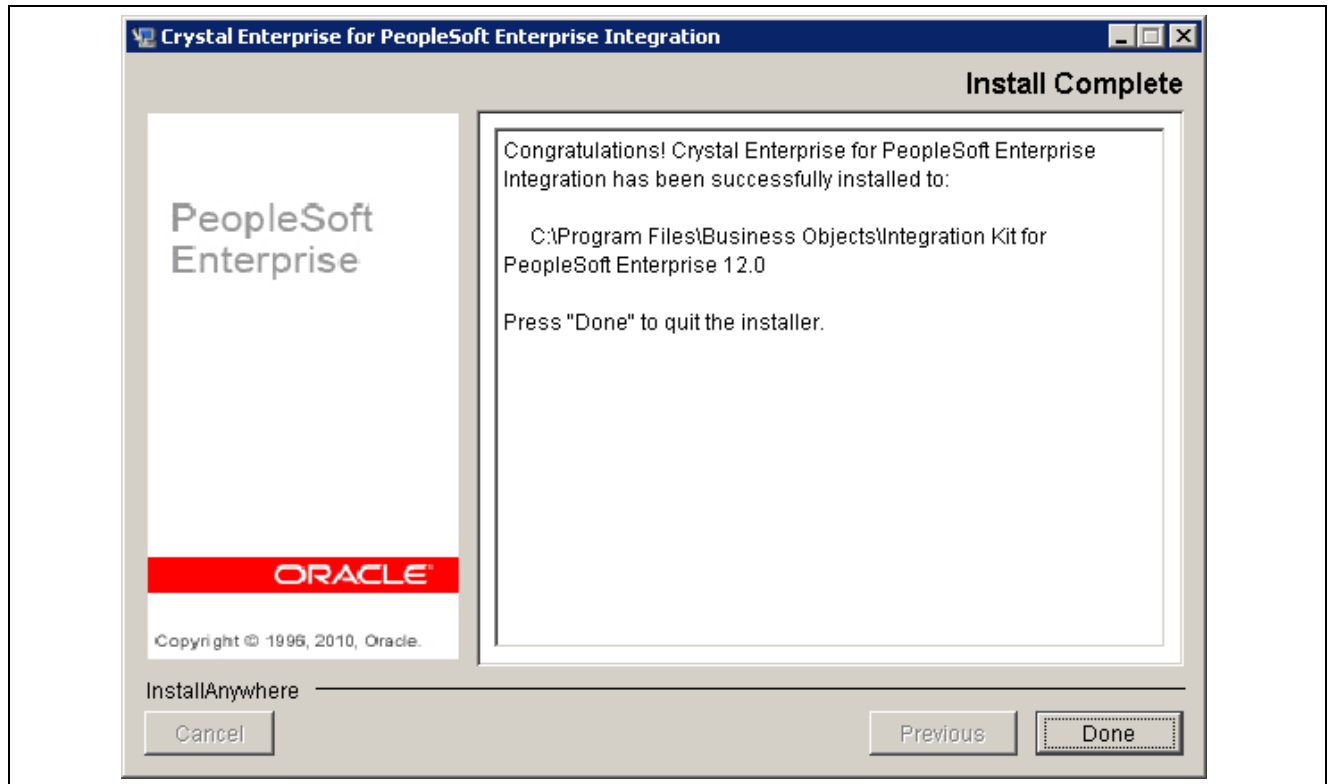
Crystal Enterprise for PeopleSoft Enterprise Integration Crystal Product Information window

5. Review the installation summary and then click Install to begin the installation.



Crystal Enterprise for PeopleSoft Enterprise Integration Pre-Installation Summary window

- Click Done to finish the installation.



Crystal Enterprise for PeopleSoft Enterprise Integration Install Complete window

- Restart all BusinessObjects Enterprise servers.

The archive is saved as boearchive.zip in PS\_HOME\PsmcCrystalInstall\Disk1\InstData.

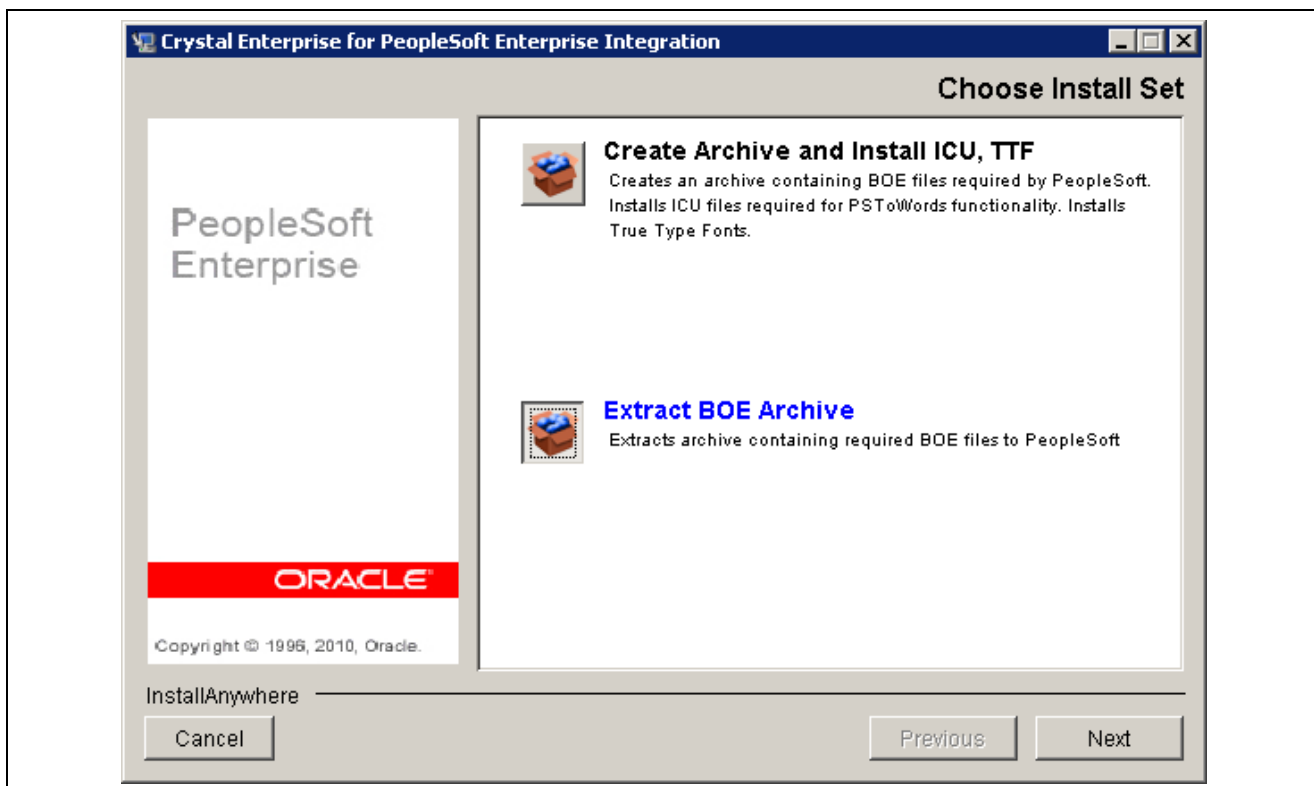
## Task 11-4-9: Extracting the Archive on Windows

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:

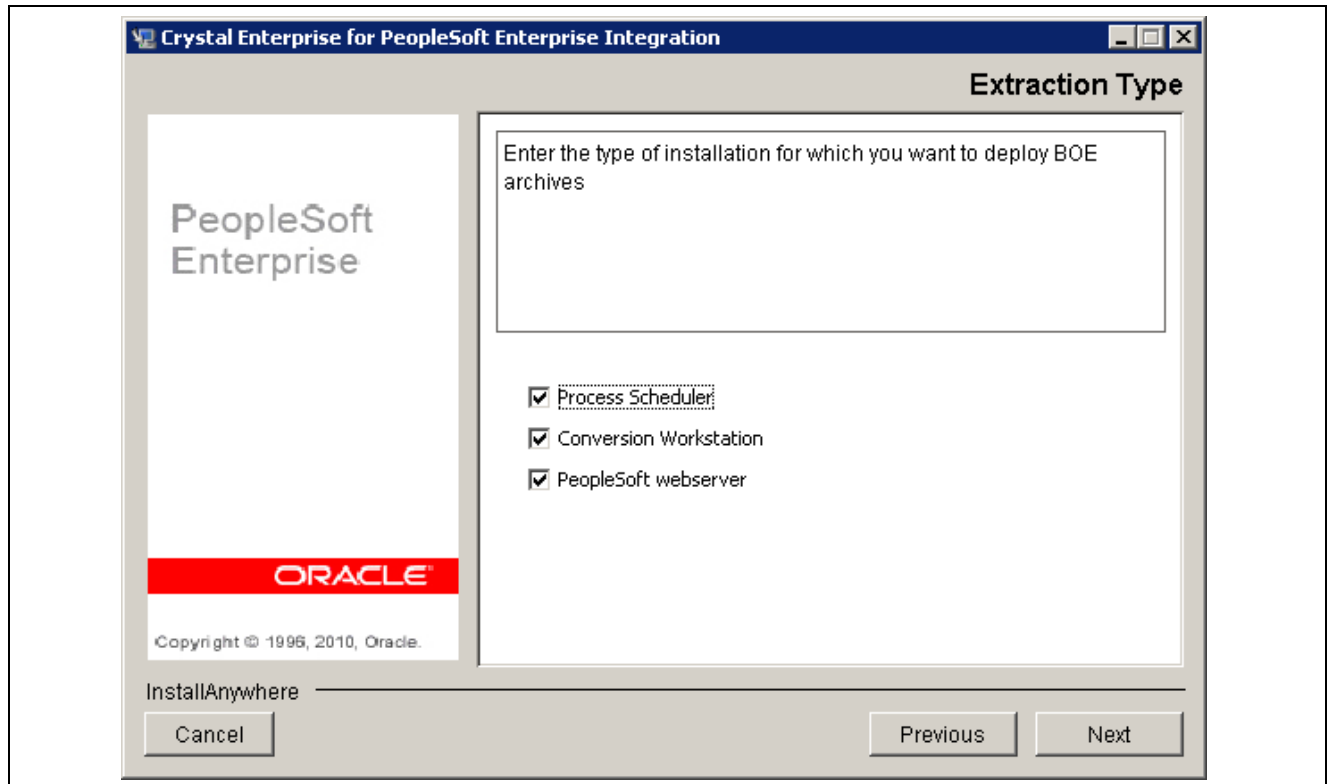
- Copy boearchive.zip to PsMpCrystalInstall\Disk1\InstData under PS\_HOME or PIA\_HOME.
- Go to PS\_HOME\PsmcCrystalInstall\Disk1 or PIA\_HOME\PsmcCrystalInstall\Disk1 and run setup.bat.
- Select the option Extract BOE archive and then click Next.



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.

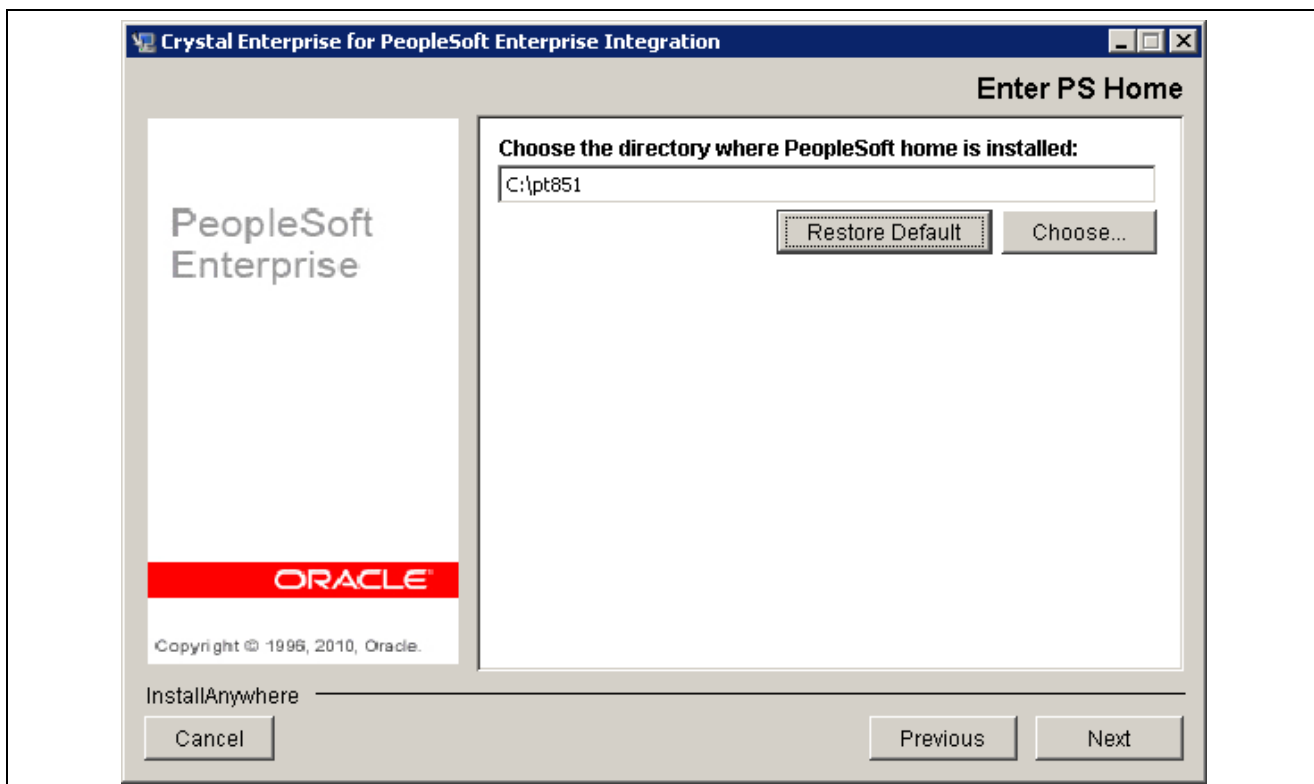
The options you choose depend upon your setup. You can select all three options, Process Scheduler, Conversion Workstation, and PeopleSoft webserver, if you have the Process Scheduler and web server set up on the same system, and also plan to use this system for the report conversion. If not, select only the options that you need and continue.



Crystal Enterprise for PeopleSoft Enterprise Integration Extraction Type window

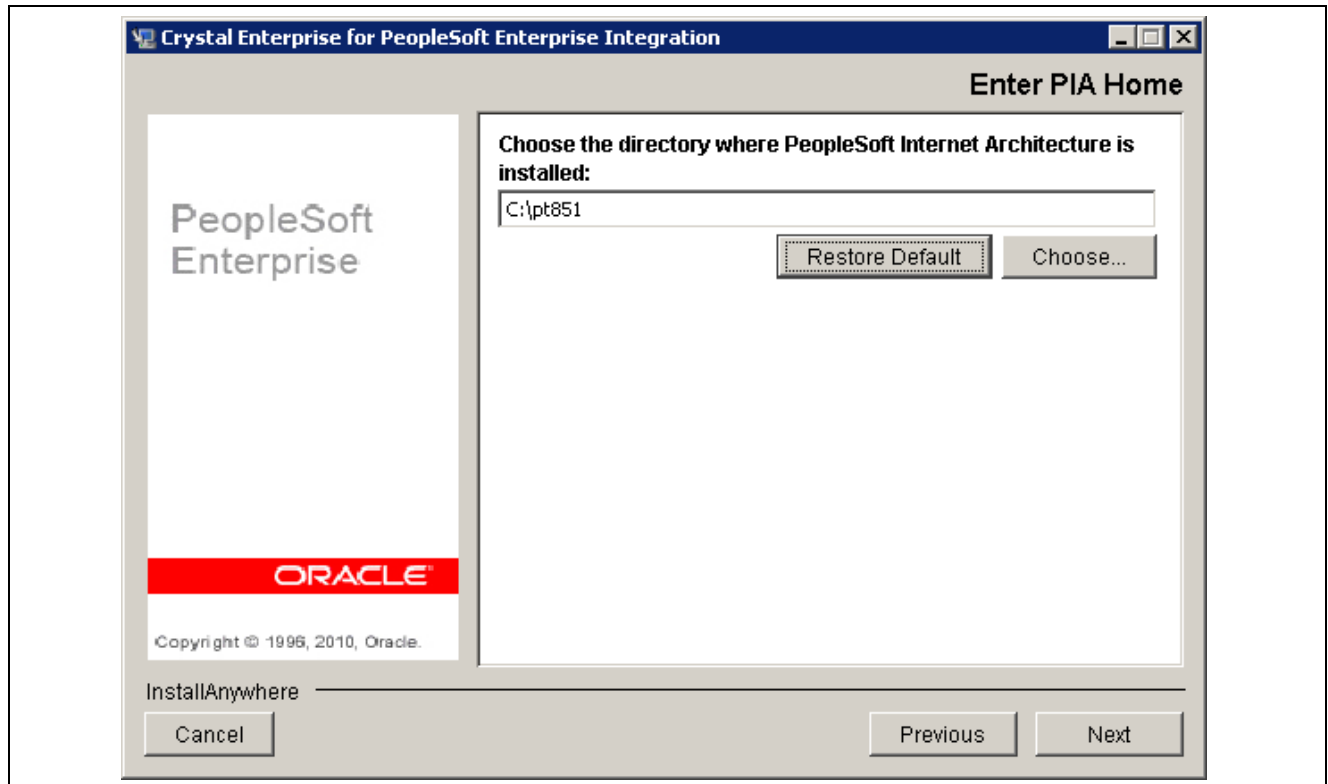
5. If you selected Process Scheduler or Conversion Workstation, specify the location of *PS\_HOME*, and then click Next.

This example uses C:\pt851 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:\pt851 for *PIA\_HOME*.

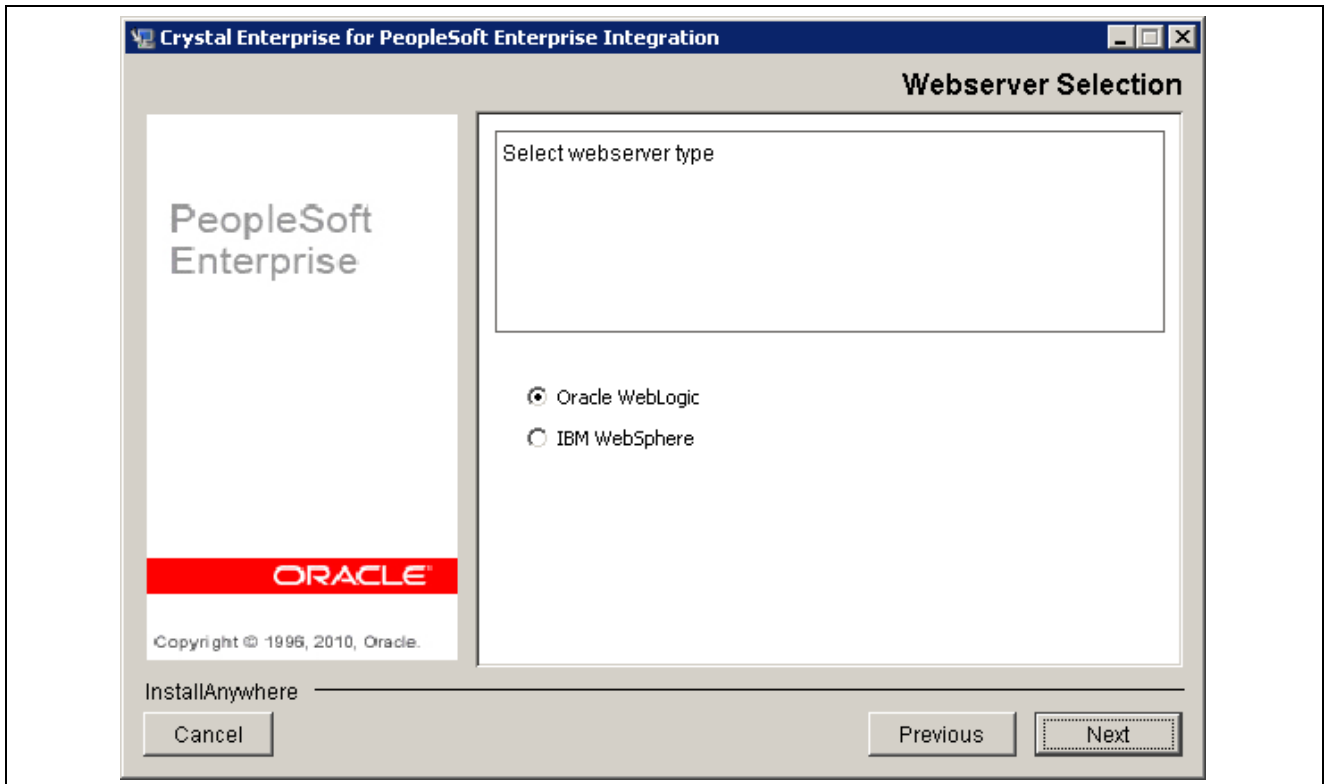


Crystal Enterprise for PeopleSoft Enterprise Integration Enter PIA Home window

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:

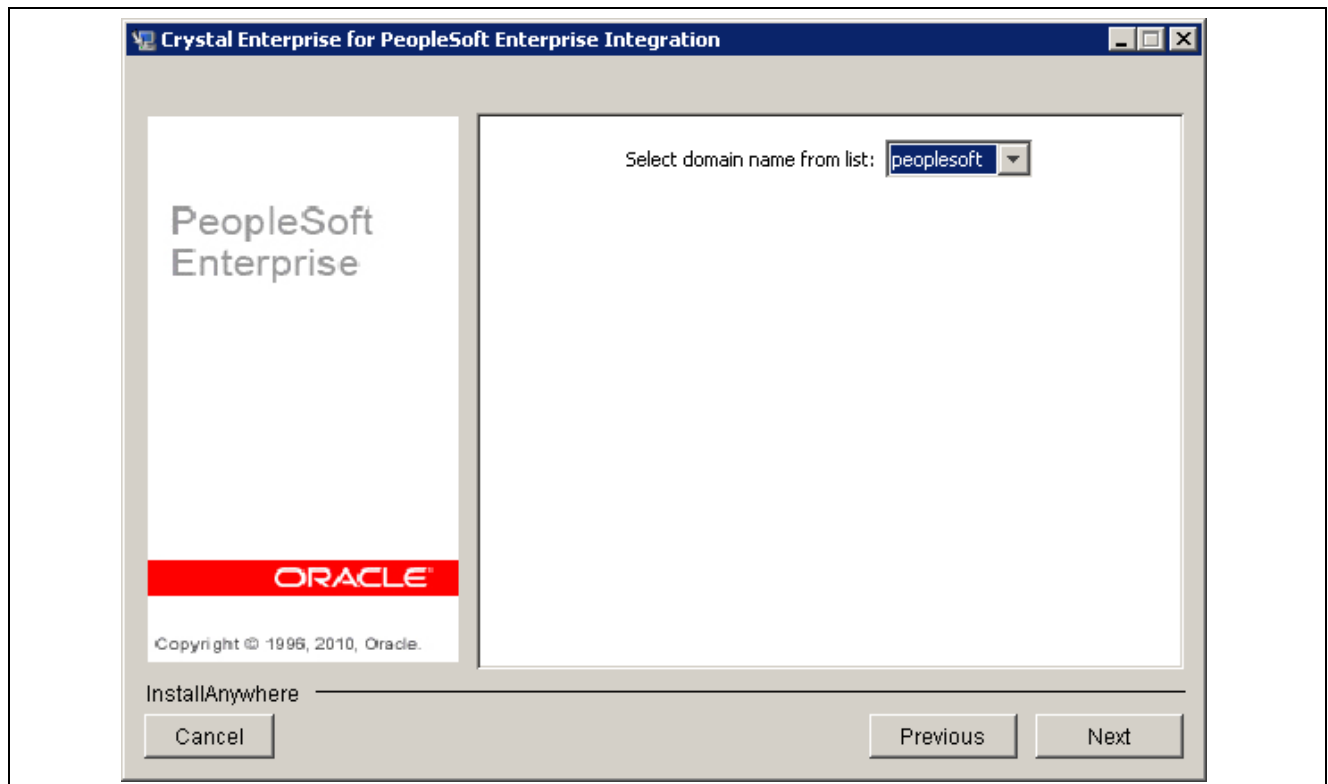




Crystal Enterprise for PeopleSoft Enterprise Integration Webserver Selection window

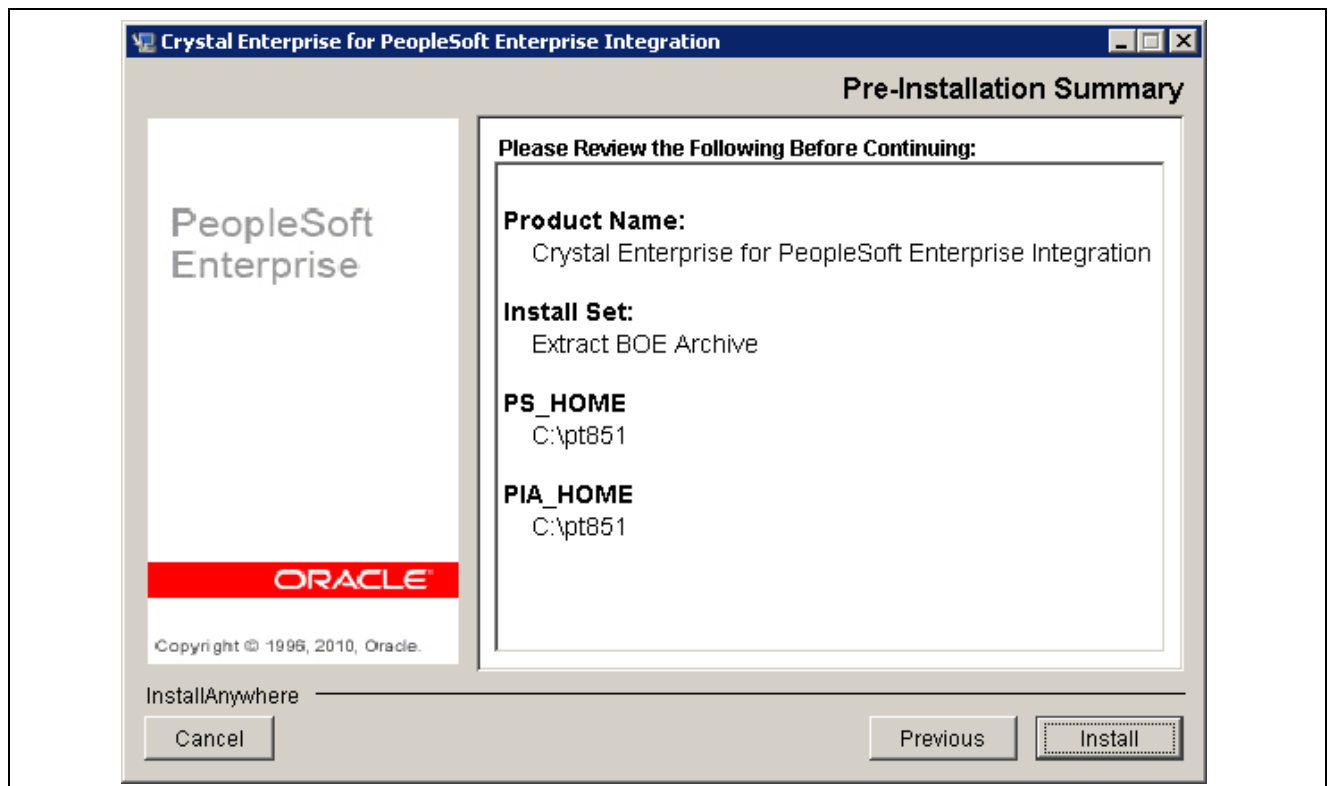
8. Select the domain name (for Oracle WebLogic) or application name (for IBM WebSphere) from the drop-down list and then click Next.

The default is peoplesoft for both web servers, as shown in this example.



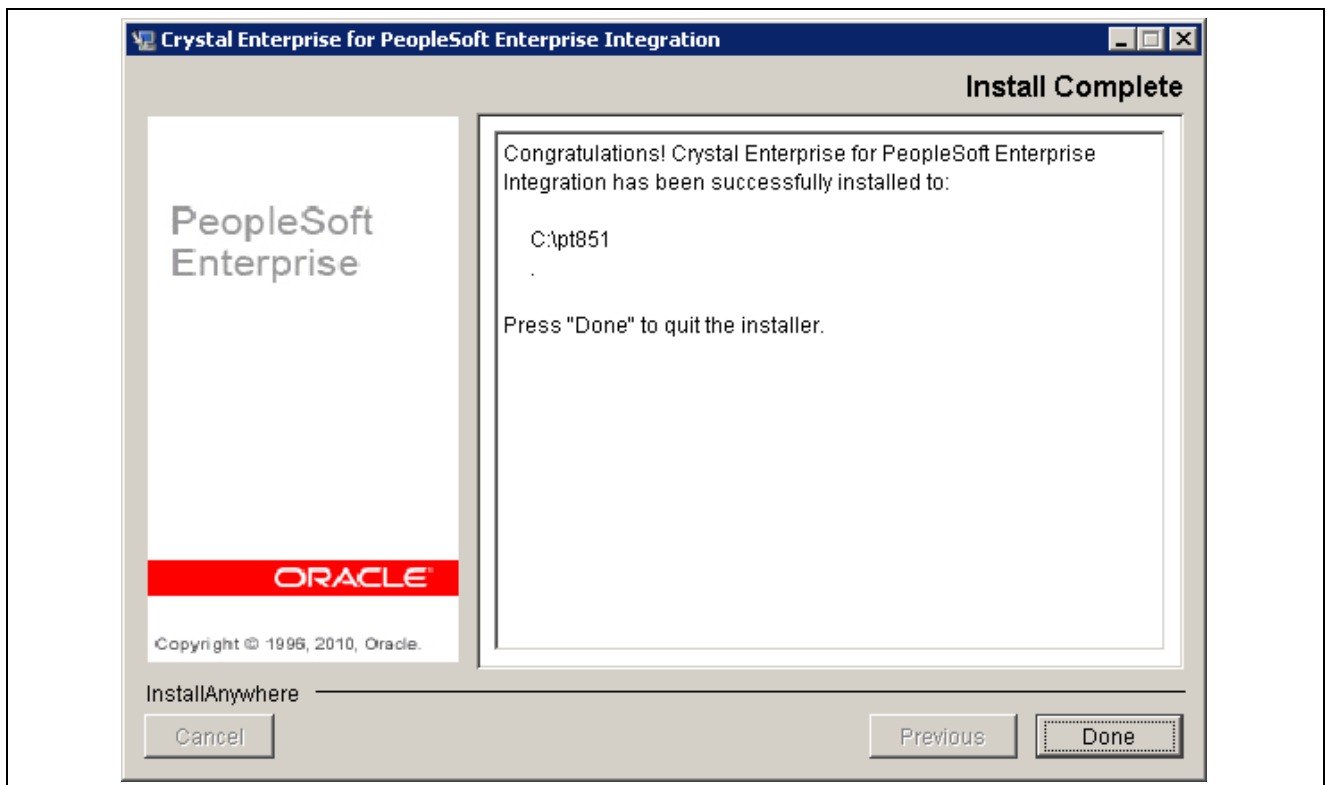
Crystal Enterprise for PeopleSoft Enterprise Integration Selecting the domain name

9. Review the summary information 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 11-4-10: 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 11-4-11: 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 *I*, Create a new WebLogic configuration and press Enter.
3. Select *I*, 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.

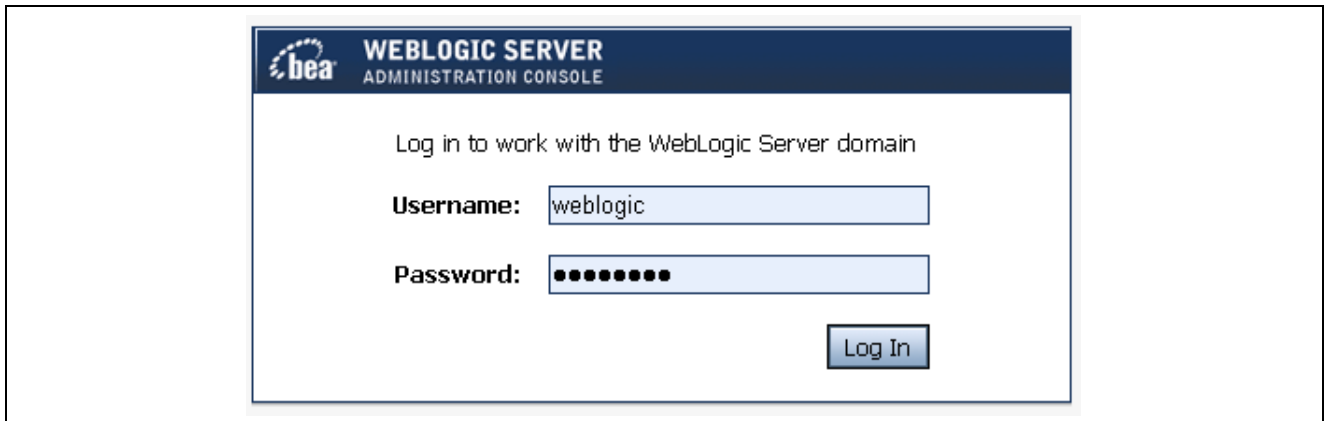
10. If you want to use a port other than the default port of 7001, follow the steps below.

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.



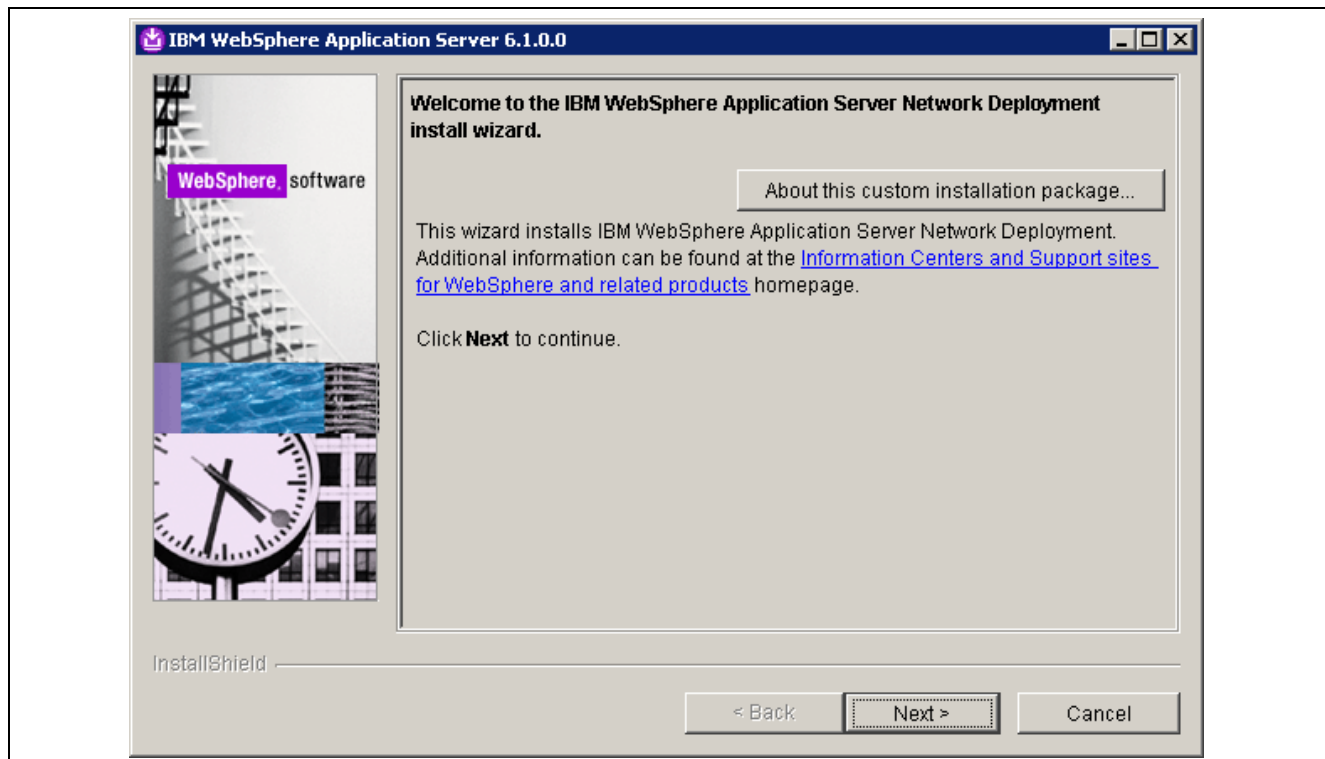
Oracle WebLogic Server Administration Console Log In window

## 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.

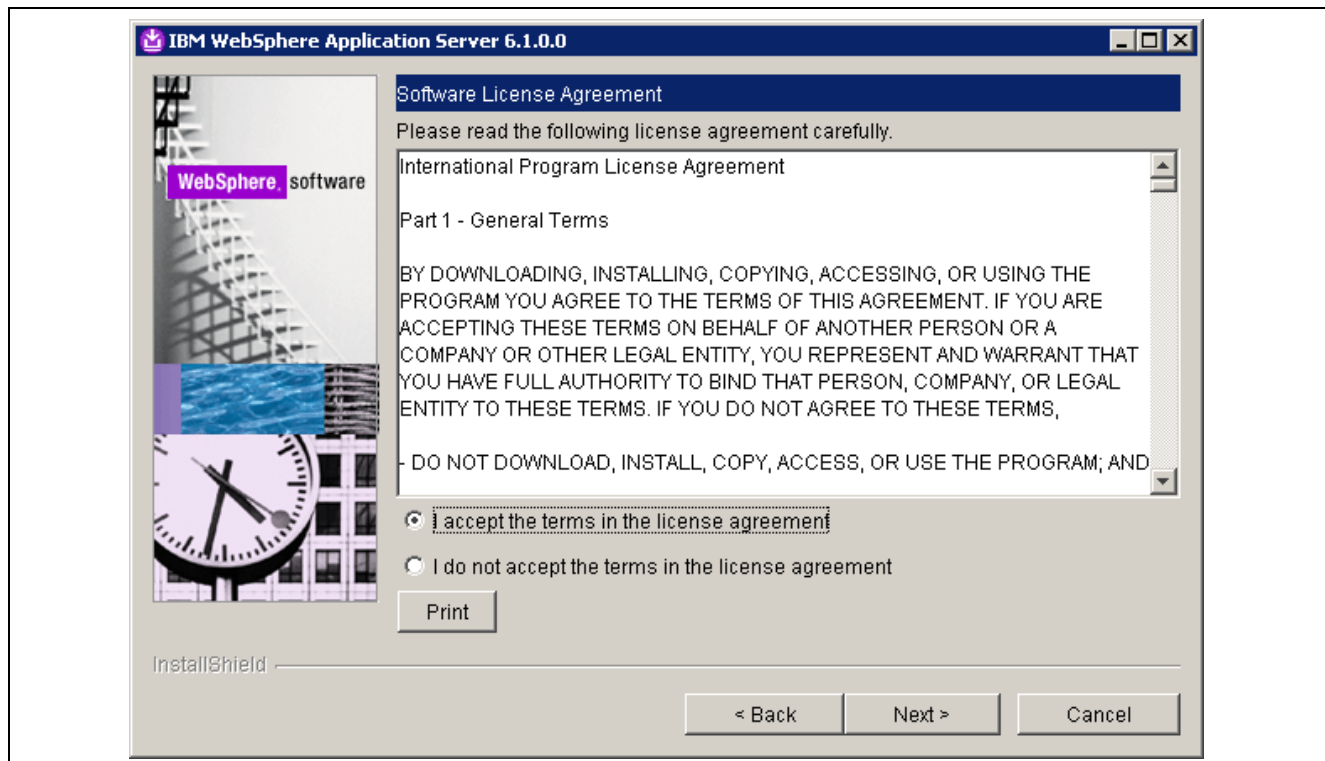
To install on UNIX or Linux you must have a X-Windows terminal emulation program such as Xmanager, Cygwin and so on.

1. Run `installWAS.sh` from the WebSphere installation.  
A welcome window appears.



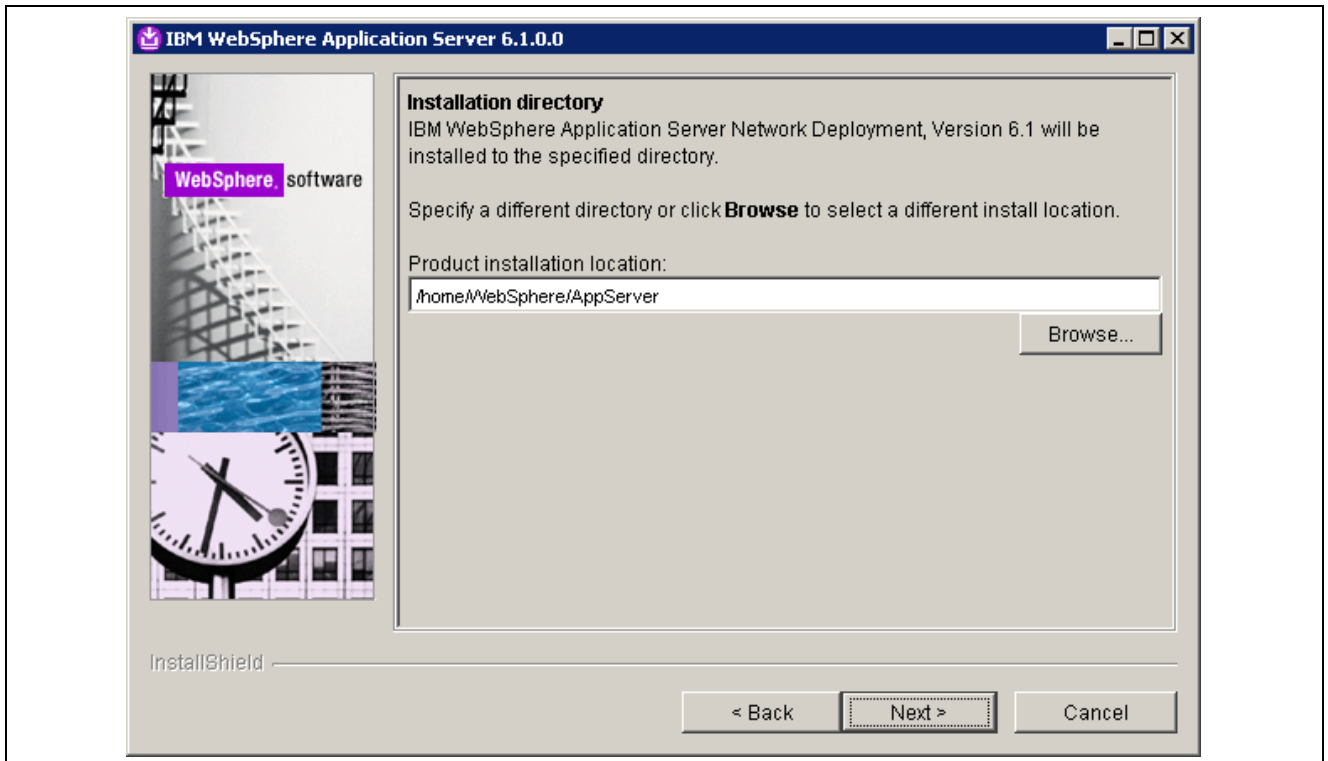
IBM WebSphere Application Server welcome window

2. Click Next.
3. Accept the license agreement and click Next.



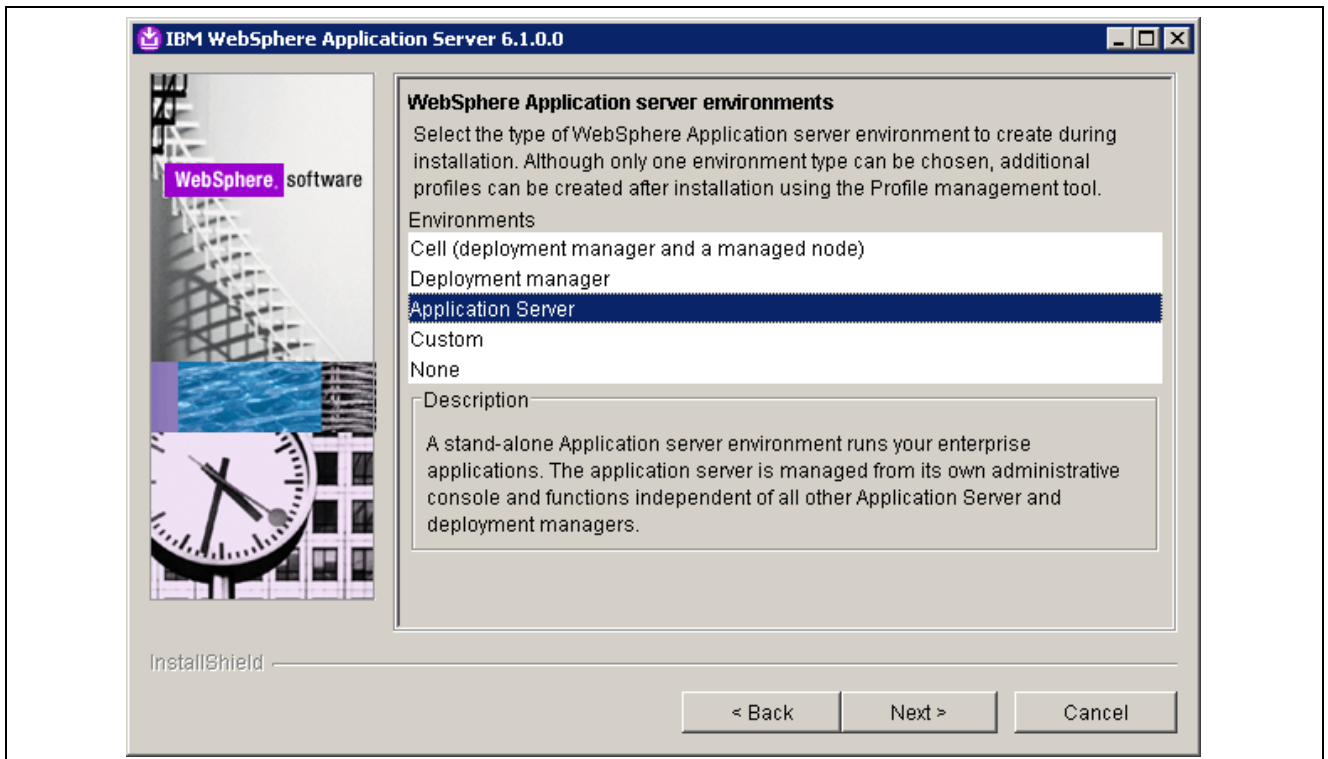
IBM WebSphere Application Server License Agreement window

4. Select an installation location, referred to as *WAS\_HOME* in this documentation, and click Next.



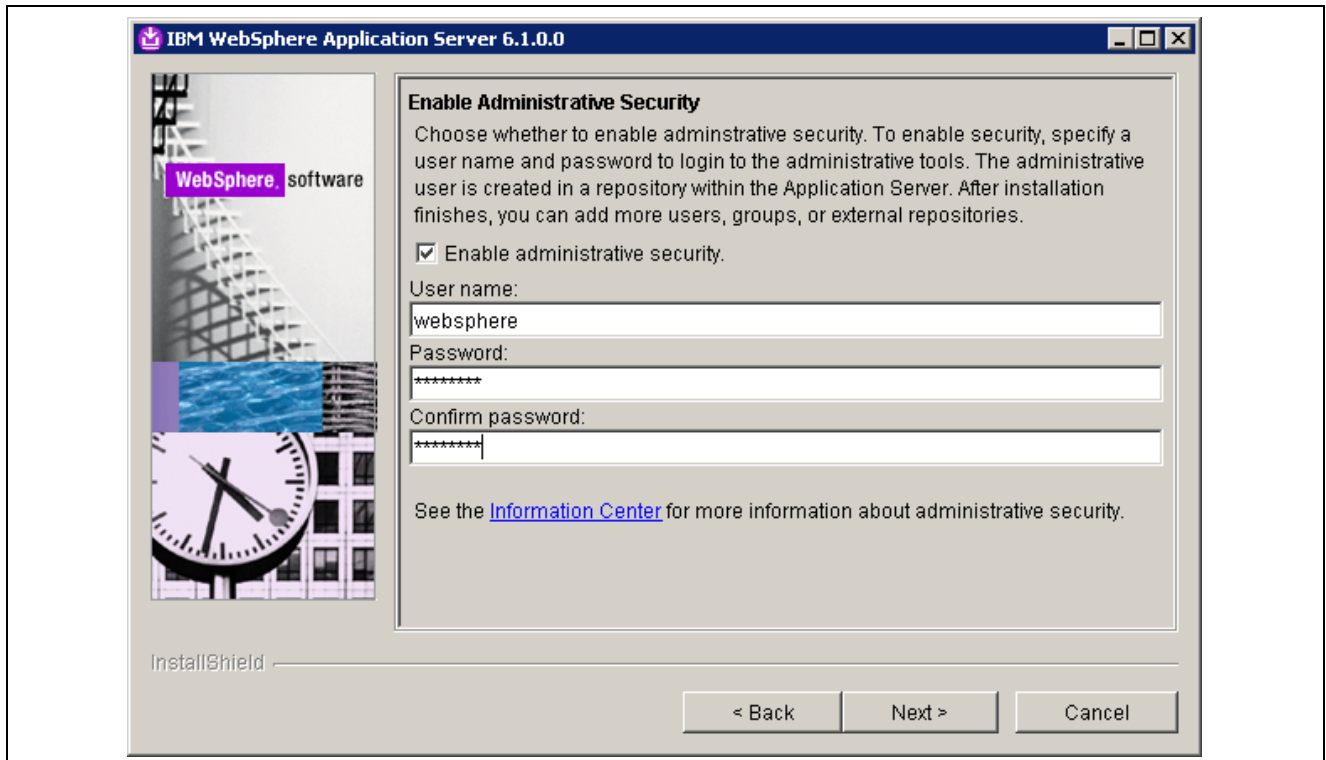
IBM WebSphere Application Server Installation directory window

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 11-4-12: Installing SAP BusinessObjects Enterprise XI 3.1 on UNIX or Linux

The installation files for SAP BusinessObjects Enterprise XI 3.1 are included on Oracle E-Delivery. Download the files as described earlier and save them in a convenient directory, referred to here as *BOE\_INSTALL*.

See Obtaining SAP BusinessObjects Enterprise and Crystal Reports Files from Oracle E-Delivery.

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. If you are running on HP-UX PA-RISC, you must edit three environment variables before beginning the installation.

Determine the directory where you will install SAP BusinessObjects Enterprise XI 3.1, referred to in this documentation as *BOE\_HOME*, and add the following to the beginning of the *SHLIB\_PATH*, *LIBPATH* and *LD\_LIBRARY\_PATH* environment variables:

*BOE\_HOME*/bobje/enterprise120/hpux\_pa-risc

2. 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`

---

3. Select a language in which to carry out the installation and press Enter.
4. Read the Business Objects License Agreement.  
Type *Y* to agree to the terms and continue with the setup program.
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. At the Enter the information for your new CMS prompt, type the CMS port number (default 6400).
10. Type the same password under Administrator Password and Confirm Password and press Enter.
11. Select Use an existing database and press Enter.
12. 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> |

13. At the prompt that asks for auditing database details, select the option Do not install auditing database.
14. 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.

15. Type a valid port number under Server Intelligence Agent Port (default 6410).
16. Select Use an existing Java application server, deploy web applications, and press Enter.
17. Select your web server, Oracle WebLogic or IBM WebSphere.
18. 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.

19. 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.

20. 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.

## Task 11-4-13: 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 E-Delivery 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 11-4-14: Installing Fix Packs or Service Packs on UNIX or Linux

After completing the basic installation of SAP BusinessObjects Enterprise XI 3.1 and the BusinessObjects Integration Kit for PeopleSoft, you must install the appropriate fix pack or service pack for each. Consult the certification information on My Oracle Support for the patch level required for your installation.

---

**Note.** If you are installing on AIX 6.1 SP2, you do *not* need to install fix packs, because only the full installations of SAP BusinessObjects Enterprise XI 3.1 SP2 and SAP BusinessObjects Enterprise XI 3.1 SP2 Integration Kit for PeopleSoft are available on E-Delivery.

---

See "Operating System, RDBMS & Additional Component Patches Required for Installation PeopleTools 8.51," 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 11-4-15: 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 *Enterprise PeopleTools 8.51 PeopleBooks: Crystal Reports for PeopleSoft*, "Working 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 11-4-16: 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.

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 11-4-17: 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)
- `hpux_pa-risc` (HP-UNIX)
- `linux_x86` (Linux)

Keep the following points in mind while working with special fonts in UNIX or Linux:

- The Japanese version of 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 11-4-18: 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.

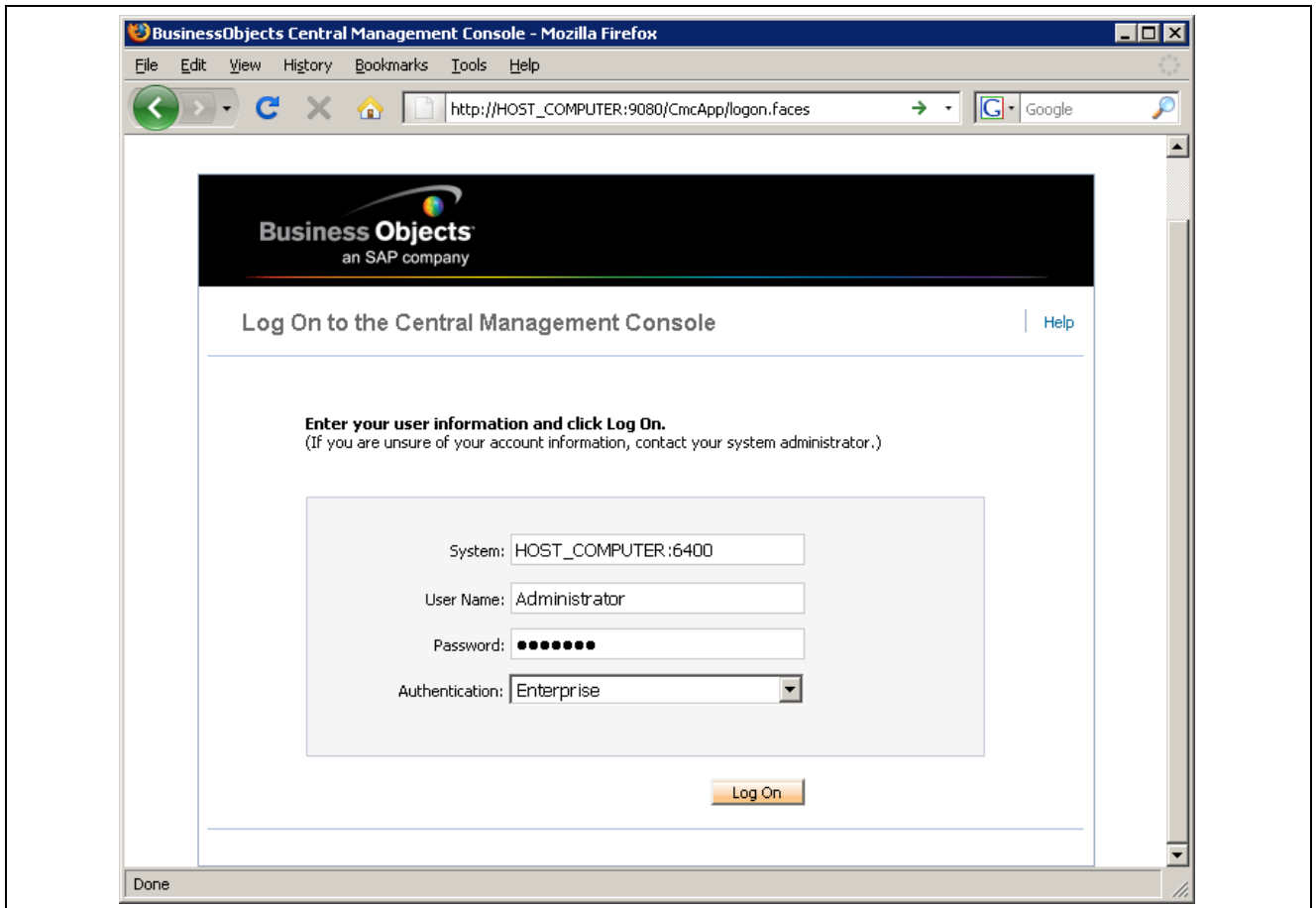
Before beginning this task, start the web server software under which you installed SAP BusinessObjects Enterprise XI 3.1.

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`

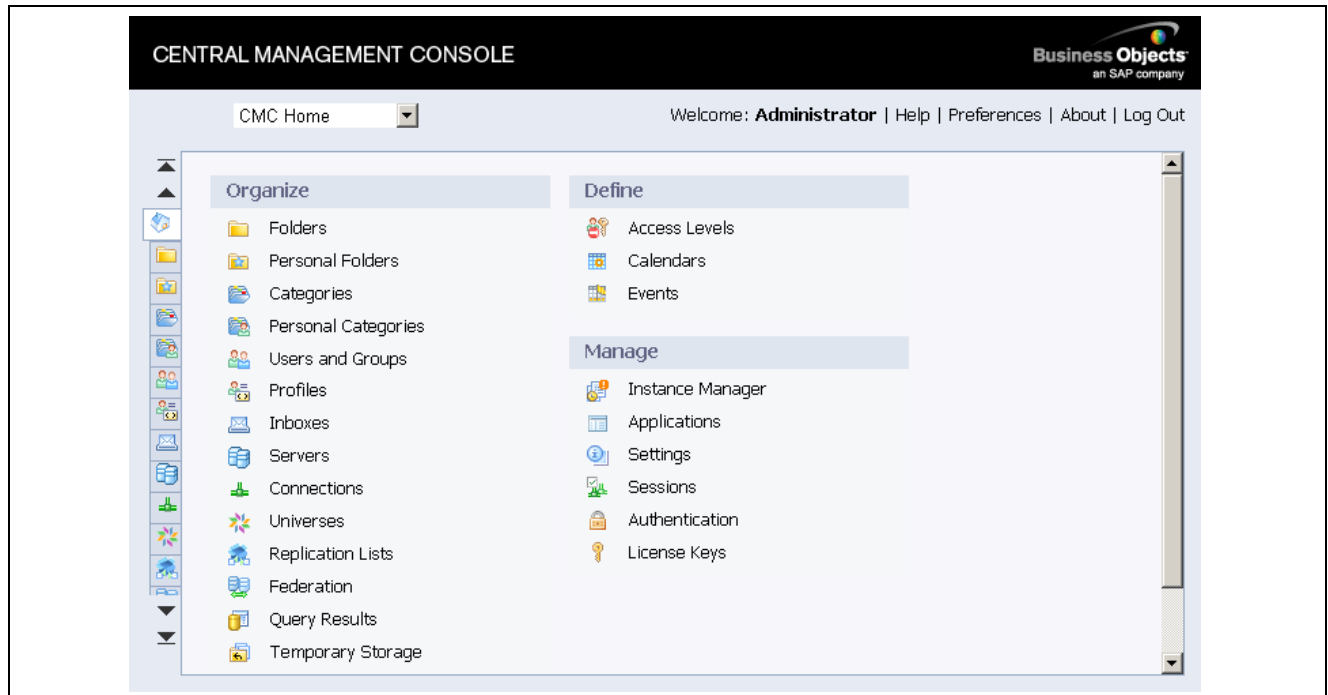
For Oracle WebLogic, the default port is 7001.

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 11-4-19: 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: HR851
-----
```

Features		Settings	
=====		=====	
1) Pub/Sub Servers	: Yes	15) DBNAME	: [HR851]
2) Quick Server	: No	16) DBTYPE	: [MICROSFT]
3) Query Servers	: No	17) UserId	: [HRDM0]
4) Jolt	: Yes	18) UserPswd	: [HRDM0]
5) Jolt Relay	: No	19) DomainId	: [TESTSERV]
6) WSL	: No	20) AddToPATH	: [c:\oracle\product\11.1.0\db_1⇒\BIN
7) PC Debugger	: No	21) ConnectID	: [people]
8) Event Notification	: No	22) ConnectPswd	: [people]
9) MCF Servers	: No	23) ServerName	: []
10) Perf Collator	: No	24) WSL Port	: [7000]
11) Analytic Servers	: No	25) JSL Port	: [9000]

12) Domains Gateway : No 26) JRAD Port :[9100]

Actions

=====

- 13) Load config as shown
- 14) Custom configuration
- h) Help for this menu
- q) Return to previous menu

Enter selection (1-26, 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.

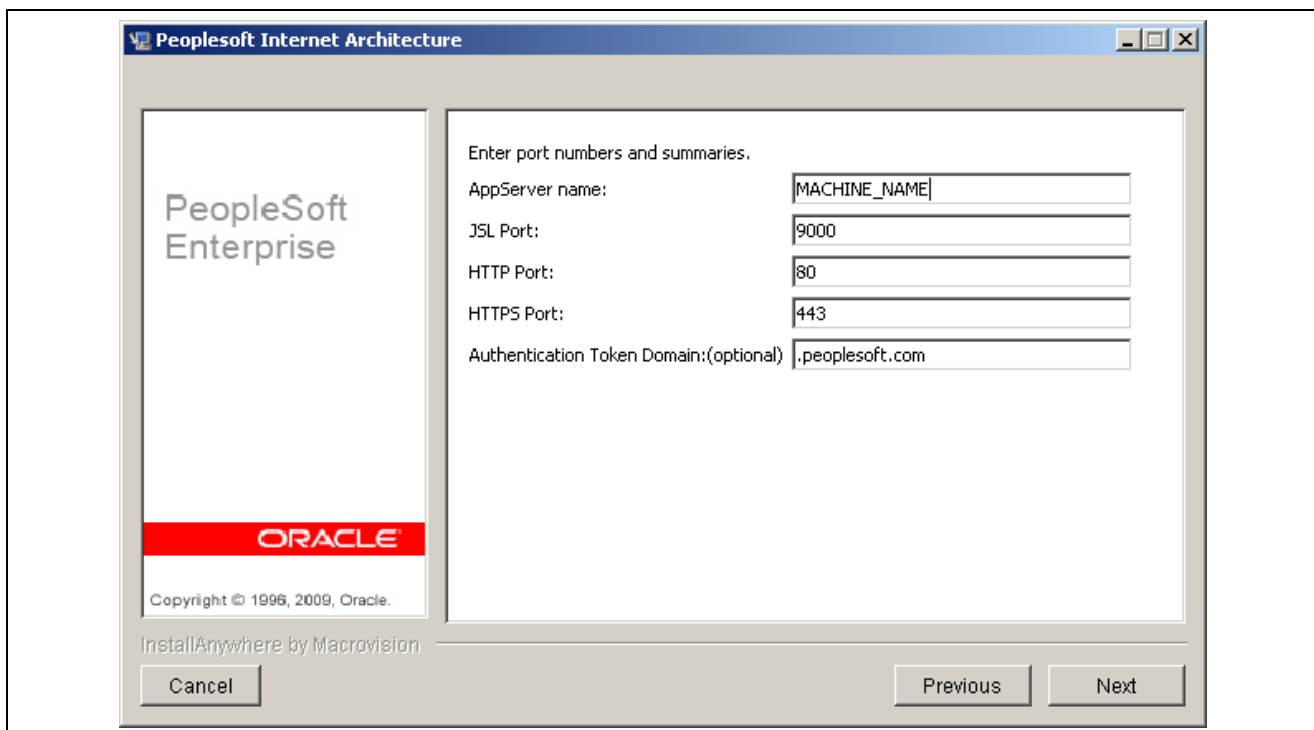
Configuring the PeopleSoft Pure Internet Architecture

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 (Indicated in red in the following example.)

Node Name	Description	Value 1	Value 2	Value 3
PSFT_EM_INBOUND	eSettlements 3rd Party Inbound	0	N	External
PSFT_EP	PS FDM - Local Node	0	N	PIA
PSFT_FO	PS FO - Front Office Node	0	N	PIA
PSFT_GF	PS BP - Local Node	0	N	PIA
PSFT_HR	PS HRMS - Local Node	1	Y	PIA
PSFT_IM	PS EIM - Local Node	0	N	PIA
PSFT_LM	PS ELM - Local Node	0	N	PIA
PSFT_LS	PS LS - Local Node	0	N	PIA
PSFT_OWS	Oracle Workforce Scheduling	0	N	External
PSFT_PA	PS PA - Local Node	0	N	PIA
PSFT_PE	PS EPM - Local Node	0	N	PIA
PSFT_TAX	3rd Party Tax Integration Node	0	N	External
PSFT_XINBND	InBound Node	0	N	External
PSFT_XOUTBND	Outbound Node	0	N	External
PT_CDB_UPDATE	Dashboard Data Updates	0	N	External
PT_CDB_WEB_SERVICE	Dashboard Web Service	0	N	External
PT EMC_GETMAIL	Get Mail Node	0	N	External
PT_LDAP	message node	0	N	PIA
PT_LOCAL	PT_LOCAL	0	N	PIA
QAS_REMOTE	Remote Node Accessing QAS	0	N	External
SA	Portal Node - SA	0	N	PIA
SAHA	Portal node - SAHA HTMLAccess	0	N	External
SSR_CS_ASYNC	Class Scheduling Remote Node	0	N	PIA
SUPP	Portal Node - SUPP	0	N	PIA
VAN	Portal Node - VAN	0	N	External
WSDL_NODE	Used internally by IB system.	0	N	External

Nodes 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

The PeopleSoft application as delivered is configured to run reports using Crystal Reports. In order to use SAP BusinessObjects Enterprise XI 3.1 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.
- Select Find an Existing Value and search for *BOE_Admin*.

User Profiles

Enter any information you have and click Search. Leave fields blank for a list of all values.

[Find an Existing Value](#)
[Add a New Value](#)

Maximum number of rows to return (up to 300):

Search by:

[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

[Find an Existing Value](#) | [Add a New Value](#)

User Profiles search results showing BOE_Admin

- If the BOE_Admin user does not exist, select Add a New Value and create it.
- On the User ID page for BOE_Admin, on the General page, specify PTPT2200 for the Process Profile.

[New Window](#) | [Customize Page](#) |

[General](#) | [ID](#) | [Roles](#) | [Workflow](#) | [Audit](#) | [Links](#) | [User ID Queries](#)

User ID: BOE_Admin

Description: BOE administrative user ☐ Account Locked Out?

Logon Information
 Symbolic ID:
 Password:
 Confirm Password:
 User ID Alias:
[Edit Email Addresses](#) | [Instant Messaging Information](#)

☐ Password Expired?

General Attributes
 Language Code:
 Currency Code:
 Default Mobile Page:
☐ Enable Expert Entry

Permission Lists
 Navigator Homepage: Primary:
 Process Profile: Row Security:

[General](#) | [ID](#) | [Roles](#) | [Workflow](#) | [Audit](#) | [Links](#) | [User ID Queries](#)

BOE_Admin User ID General page

- Select the Roles tab.

General | ID | **Roles** | Workflow | Audit | Links | User ID Queries

User ID: BOE_Admin
Description: BOE administrative user

Dynamic Role Rule

Execute on Server:

[Process Monitor](#)
[Service Monitor](#)

Role Name	Description	Dynamic	Route Control	View Definition
BOE Admin	BOE admin role	☐	☐	View Definition
QAS Admin	QAS Administrators	☐	☐	View Definition

[General](#) | [ID](#) | [Roles](#) | [Workflow](#) | [Audit](#) | [Links](#) | [User ID Queries](#)

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 Find an Existing Value 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.

BOE Integration Administration page: BusinessObjects Enterprise portion

BOE Integration Administration page: BusinessObjects Web Server portion

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.

- 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. The default password is the same as the user name; that is, BOE_Viewing for the BOE_Viewing user.
- 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 example below shows 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

***Heartbeat:** 60 Seconds

Max API Aware: 5 Concurrent Tasks

***Operating System:** Windows

CPU Utilization Threshold: %

Memory Utilization Threshold: %

Server Load Balancing Option: Use for Load Balancing

Redistribute Workload Option: Redistribute to any O/S

Note: To disable a process category on this server, set the max. concurrent to 0.

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 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.

- 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:

- Log in to your PeopleSoft application.
- Select PeopleTools, Integration Broker, Configuration, Quick Configuration.
- 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-HOST1 and 8000, respectively.

http://<machine_name>:<port>/PSIGW/PeopleSoftListeningConnector

- Activate the domain by changing the status in the Domains list to Active.

Select Domain Status. On the page that appears, select Purge Domains, and then click Save.

ORACLE

Home | Worklist

Favorites | Main Menu > PeopleTools > Integration Broker > Configuration > Quick Configuration

Integration Broker Quick Configuration

Local Gateway

The integration gateway manages message transport through several communication protocols.

Gateway URL: [Ping Gateway](#)

[Advanced Gateway Setup](#) Use to access additional integration gateway features.

Integration Broker Domains

To process asynchronous messages, one application server domain must be active. If inactive, use the Domain Status drop-down list to activate the appropriate domain.

Machine Name	Application Server Path	Status
APPSRV123456789	D:\BLD\Q\IE910\ORA\IE910Q2BU\appserv\IE910Q2BU	Active

[Domain Status](#) Use to access additional domain features.

Other Quick Links

[Service Configuration](#) Use to define service and UDDI defaults.

[Save](#)

Integration Broker Quick Configuration page

5. Select PeopleTools, Integration Broker, Configuration, Service Configuration.

Service Configuration | UDDI Configuration | Restricted Services | Exclude PSFT Auth Token

*Service Namespace:

*Schema Namespace:

*Target Location:

Example:

Alternate Example:

Secure Target Location:

Example:

Alternate Example:

*Service System Status:

☐ Enable Multi-queue

*WSDL Generation Alias Check:

Last Updated: UPG Last Update Date/Time: 10/25/2005 4:25:11PM

[Save](#)

[Service Configuration](#) | [UDDI Configuration](#) | [Restricted Services](#) | [Exclude PSFT Auth Token](#)

Integration Broker Service Configuration 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_host1 and 9050, 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_host1 and 9051, respectively):

`https://<machine_name>:<https_port>/PSIGW/PeopleSoftServiceListeningConnector`

7. Select PeopleTools, Integration Broker, Configuration, Quick Configuration.

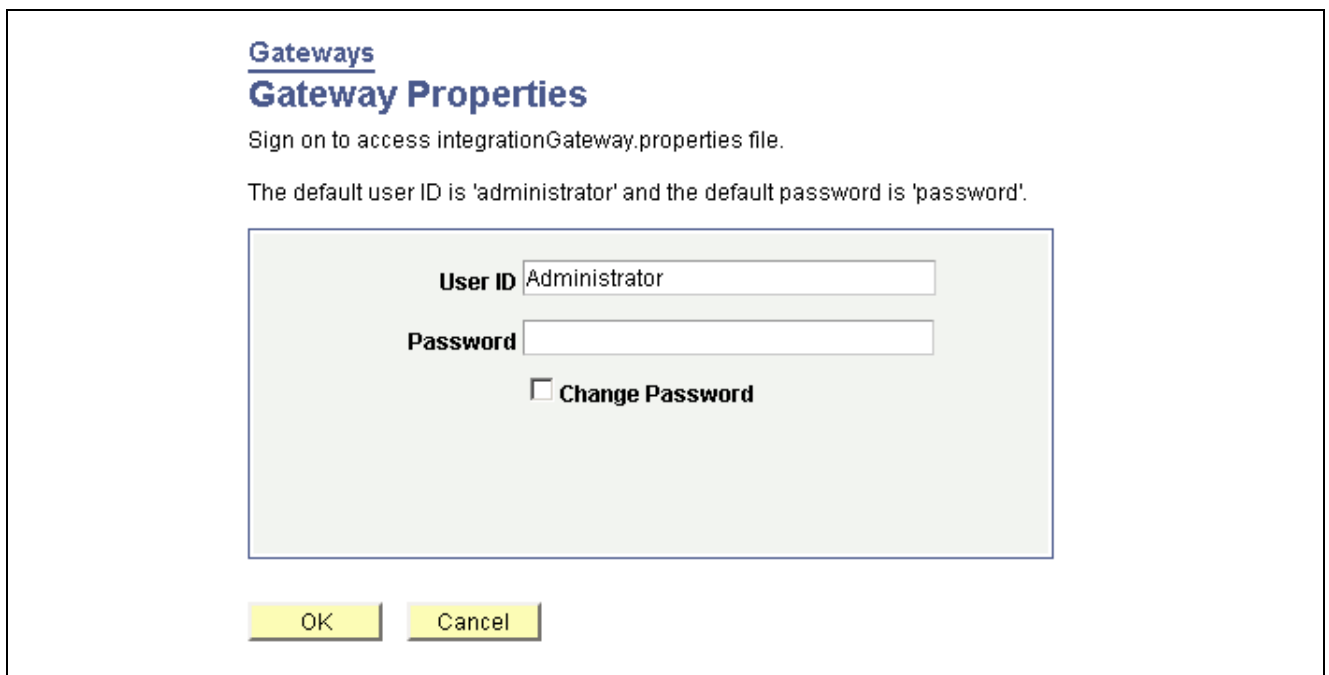
Select the link Advanced Gateway Setup.

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 values are administrator and password.



Gateways
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

Gateways Properties window

10. Add a new node in the PeopleSoft Node Configuration page and save.

PeopleSoft Node Configuration

URL:

Gateway Default App. Server

App Server URL	User ID	Password	Tools Release	Domain Password	Virtual Server Node
//ptools_host1:9050	BOE_Admin	...	8.51-10A		

PeopleSoft Nodes

Node Name	App Server URL	User ID	Password	Tools Release	Domain Password	Virtual Server Node
PSFT_HR	//ptools_host1:9050	BOE_Admin	...	8.51-10A		

[Advanced Properties Page](#)

PeopleSoft Node Configuration page

Enter the following values:

- Node Name: Enter the name of the active default node.

This example uses PSFT_HR 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*; the default password is *BOE_Admin*.
- Tools Release: Provide the exact PeopleSoft PeopleTools release that your application server is using; for example, 8.51-9.

11. Click Save.

12. Click Ping Node to be sure the node is accessible, and then exit.

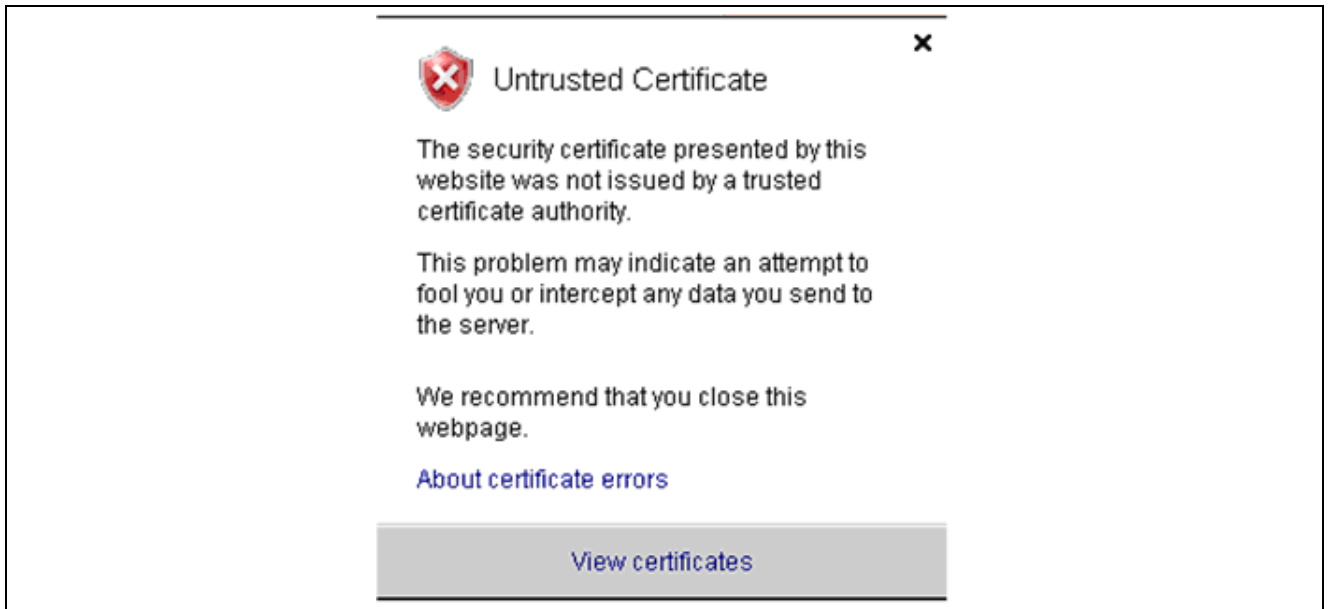
Task 11-4-20: Importing the Security Certificate to the Oracle WebLogic Server

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 *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*, "Working with Oracle WebLogic."

1. Sign in to the PeopleSoft application using the https port.
2. In the browser menu, select View, Security Report.

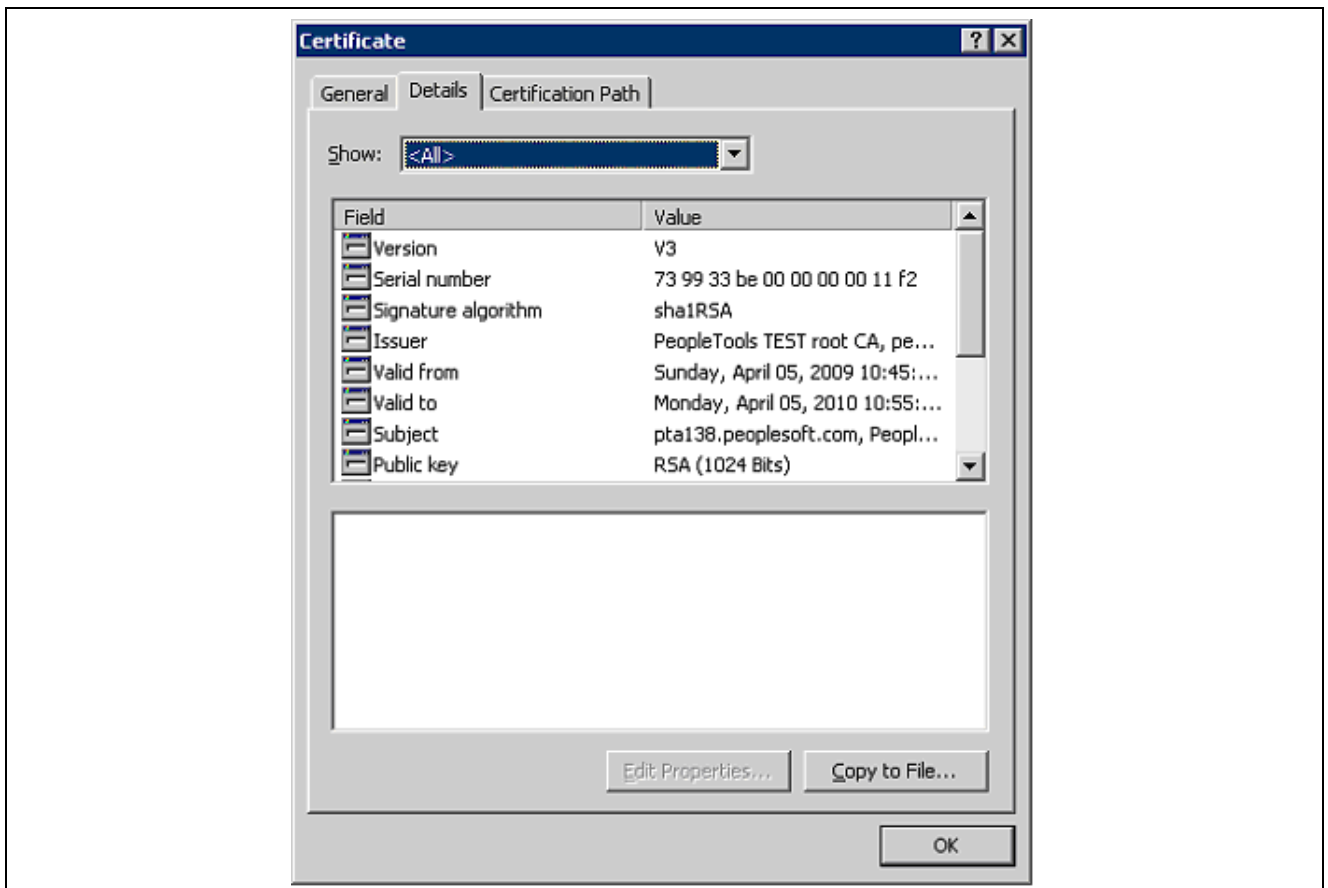
Note. Depending upon your browser version, you may need to use another command to view the certificates.



Untrusted Certificate message

3. Click the View certificates link.

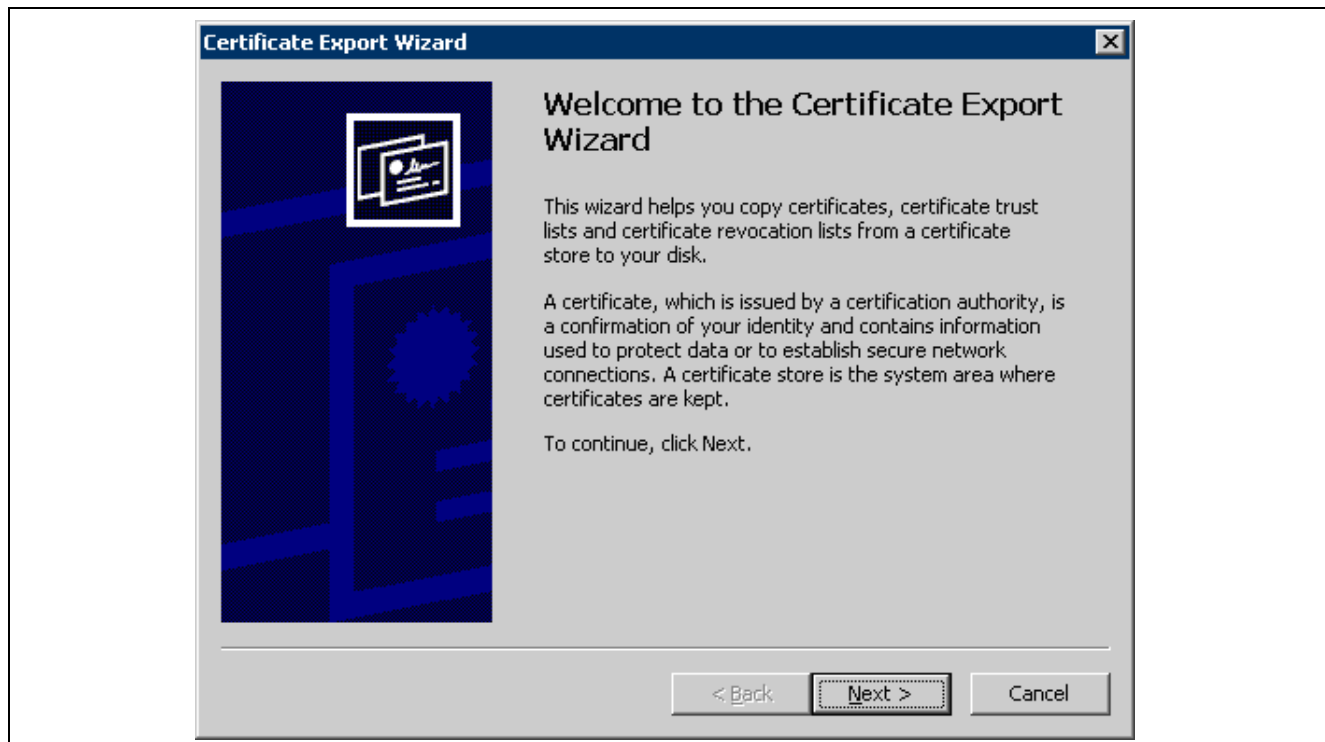
The Certificate dialog box appears.



Certificate dialog box

4. Click the Copy to File button.

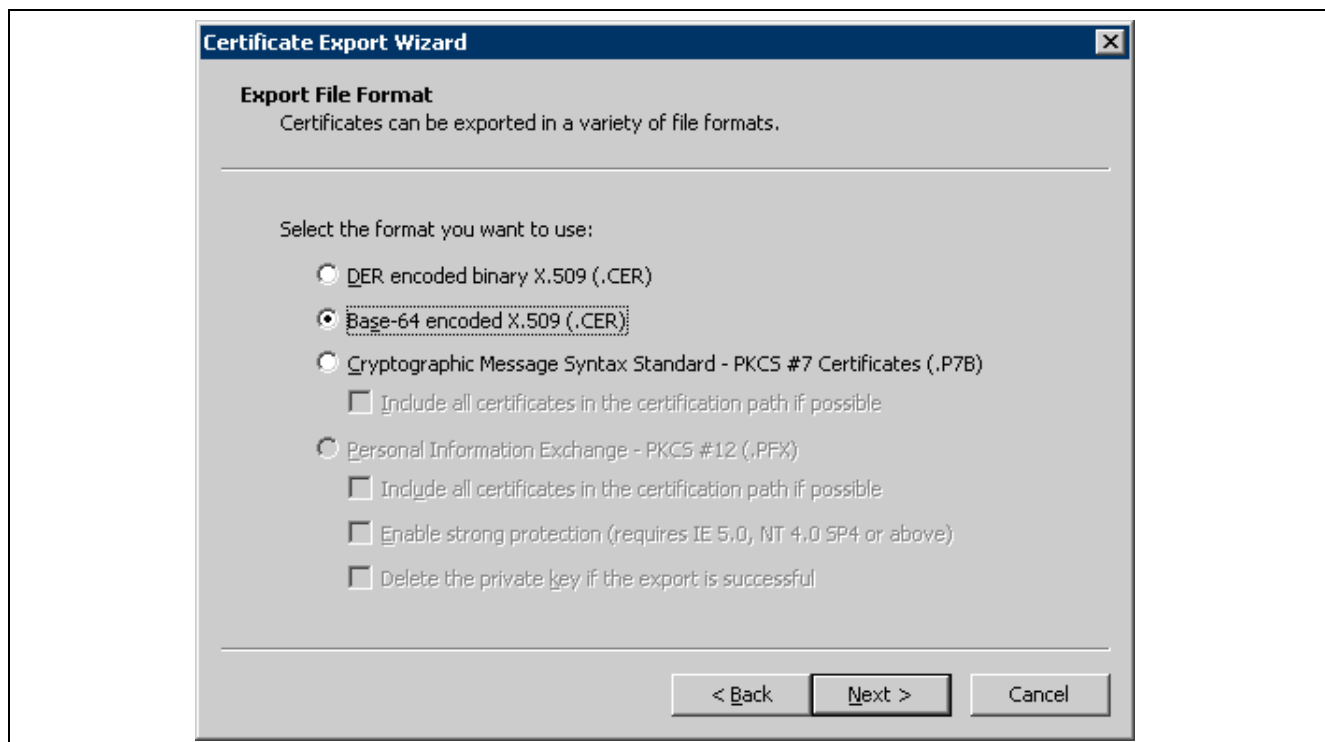
The Certificate Export Wizard dialog box appears.



Certificate Export Wizard dialog box

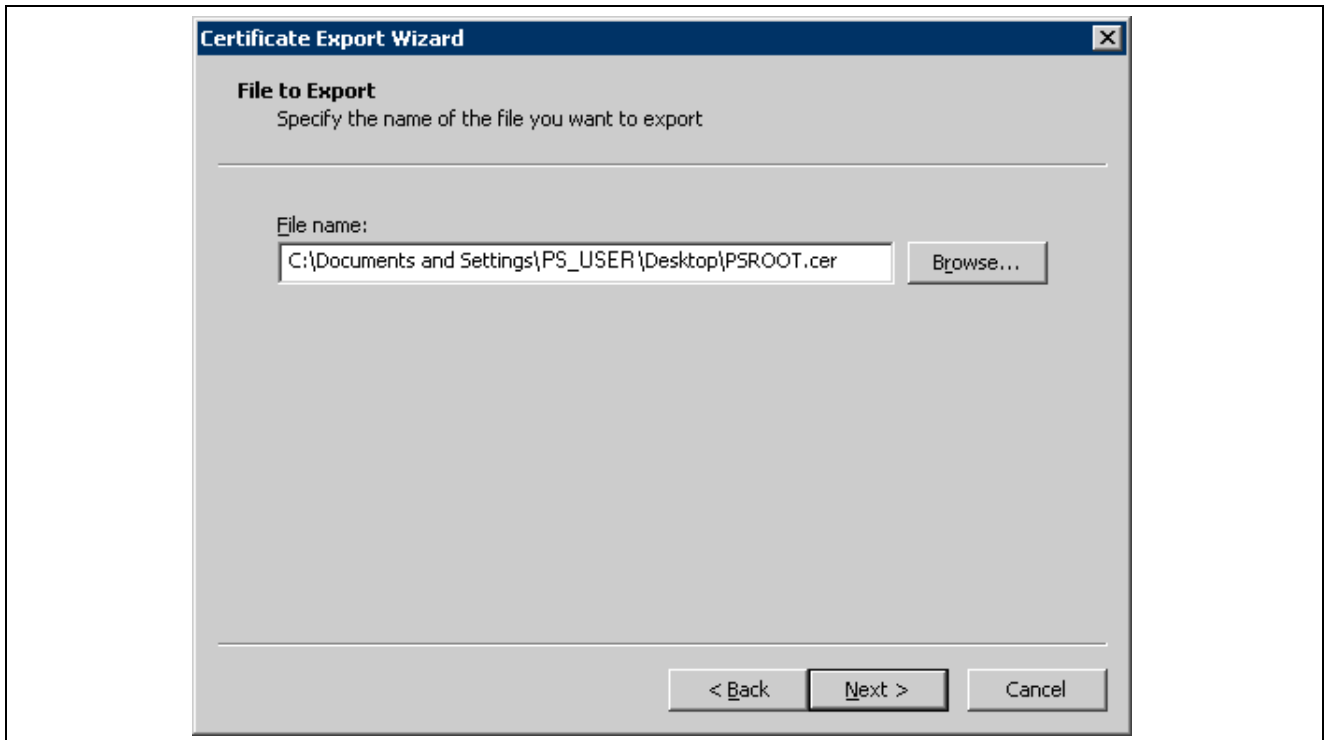
5. Click Next.

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.
Click Next.



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*.)

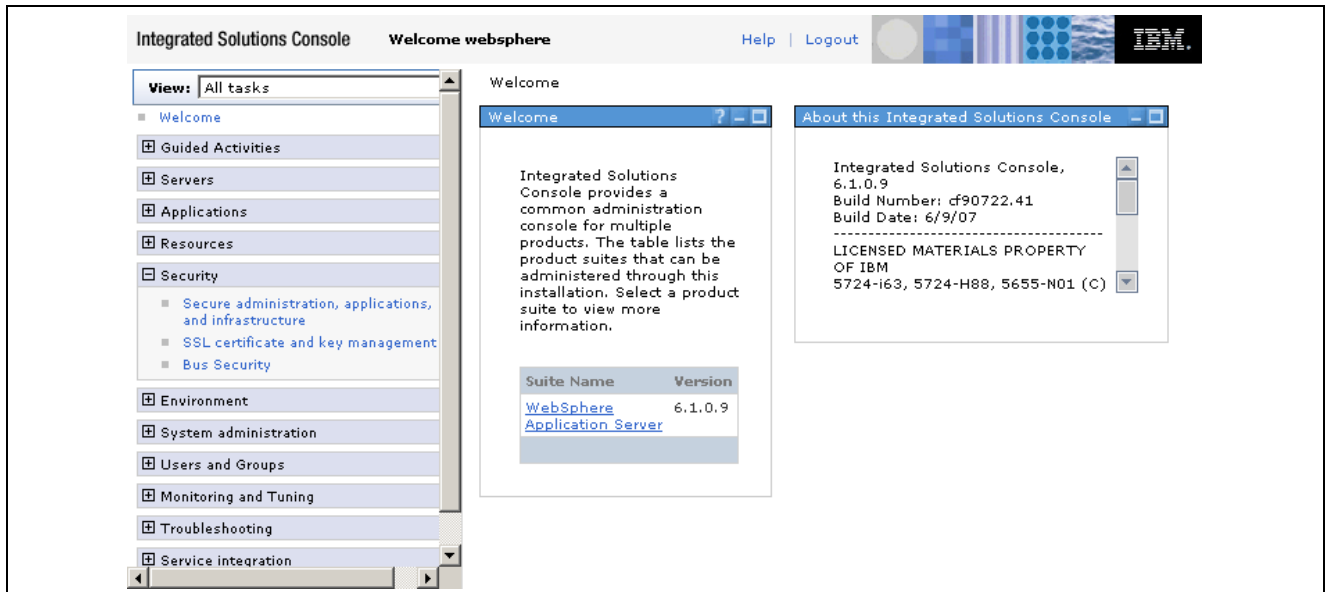
Enter *y* to import the certificate.

Task 11-4-21: 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.

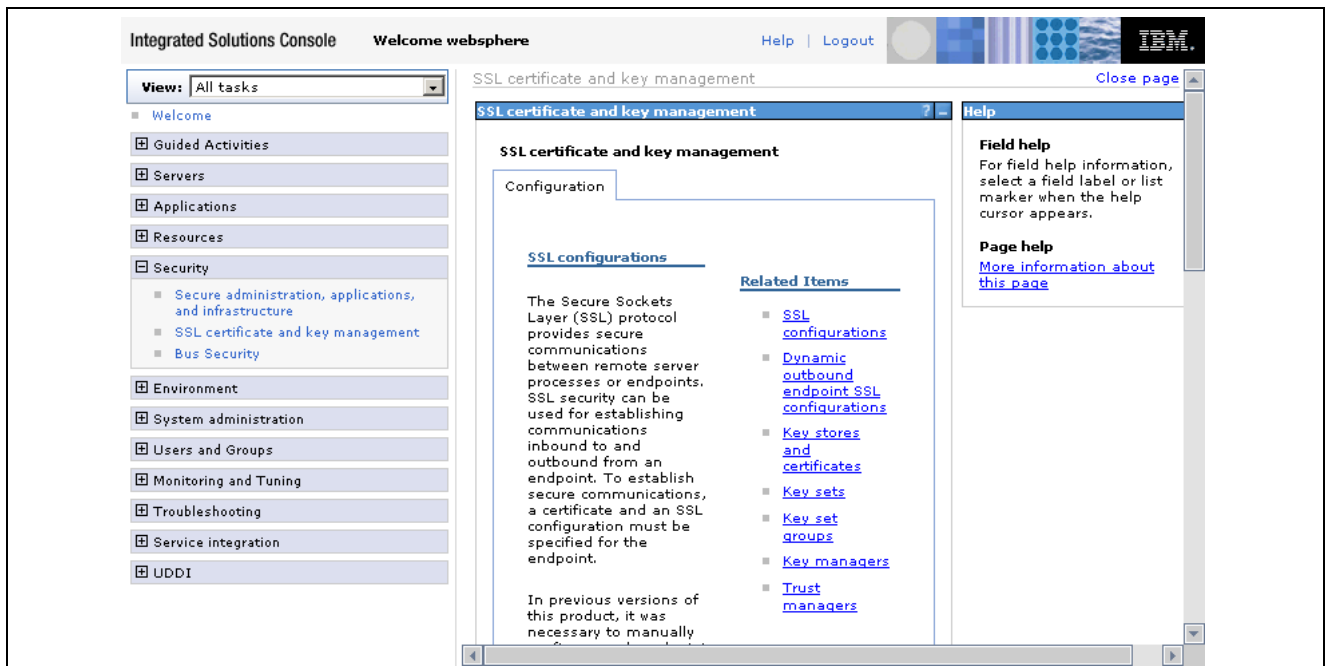
See *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*, "Working with IBM WebSphere."

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

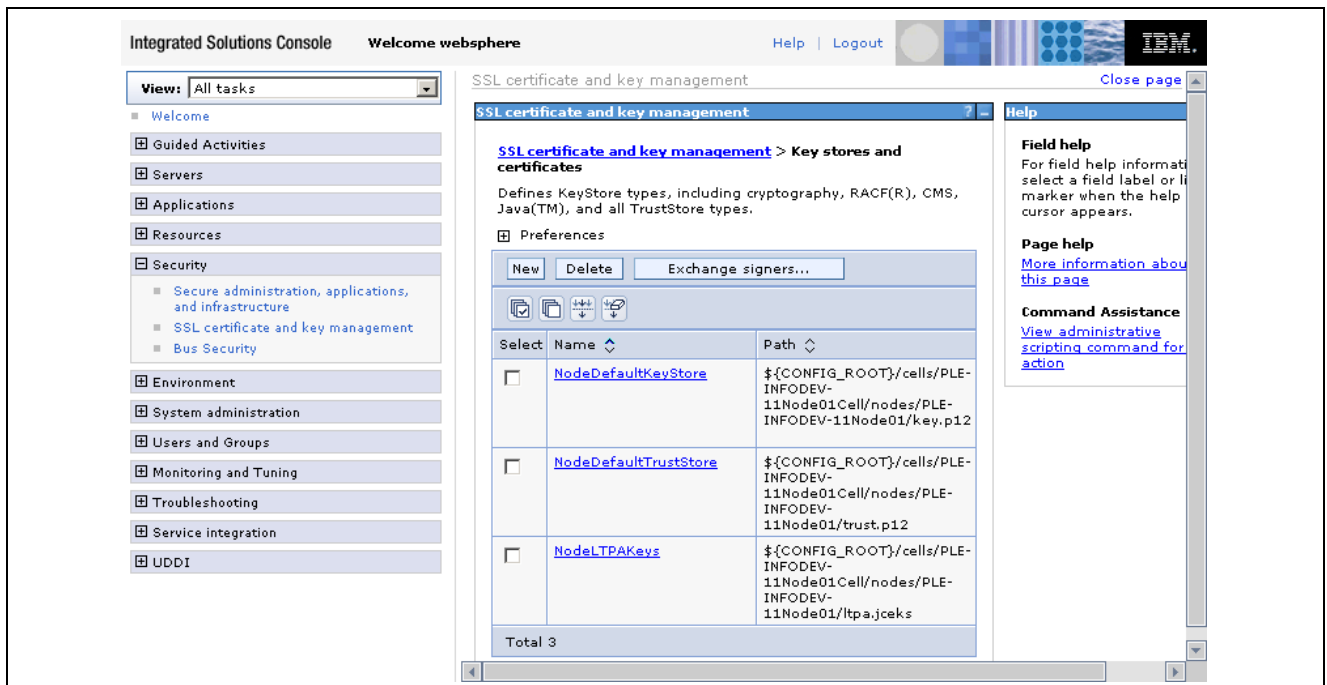
4. Select Key stores and certificates in the Related Items area.



SSL certificate and key management page

5. Select the link for NodeDefaultTrustStore.

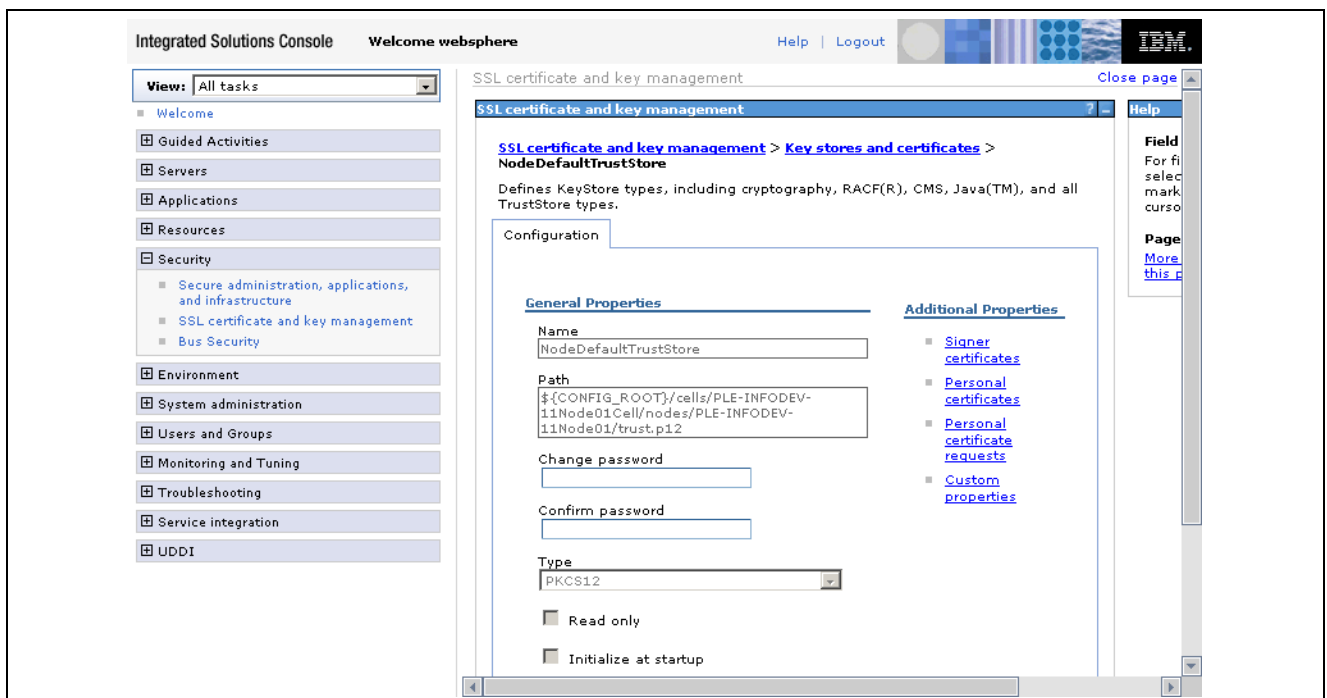
The trust store filename can be found on the Key stores and certificates page.



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:

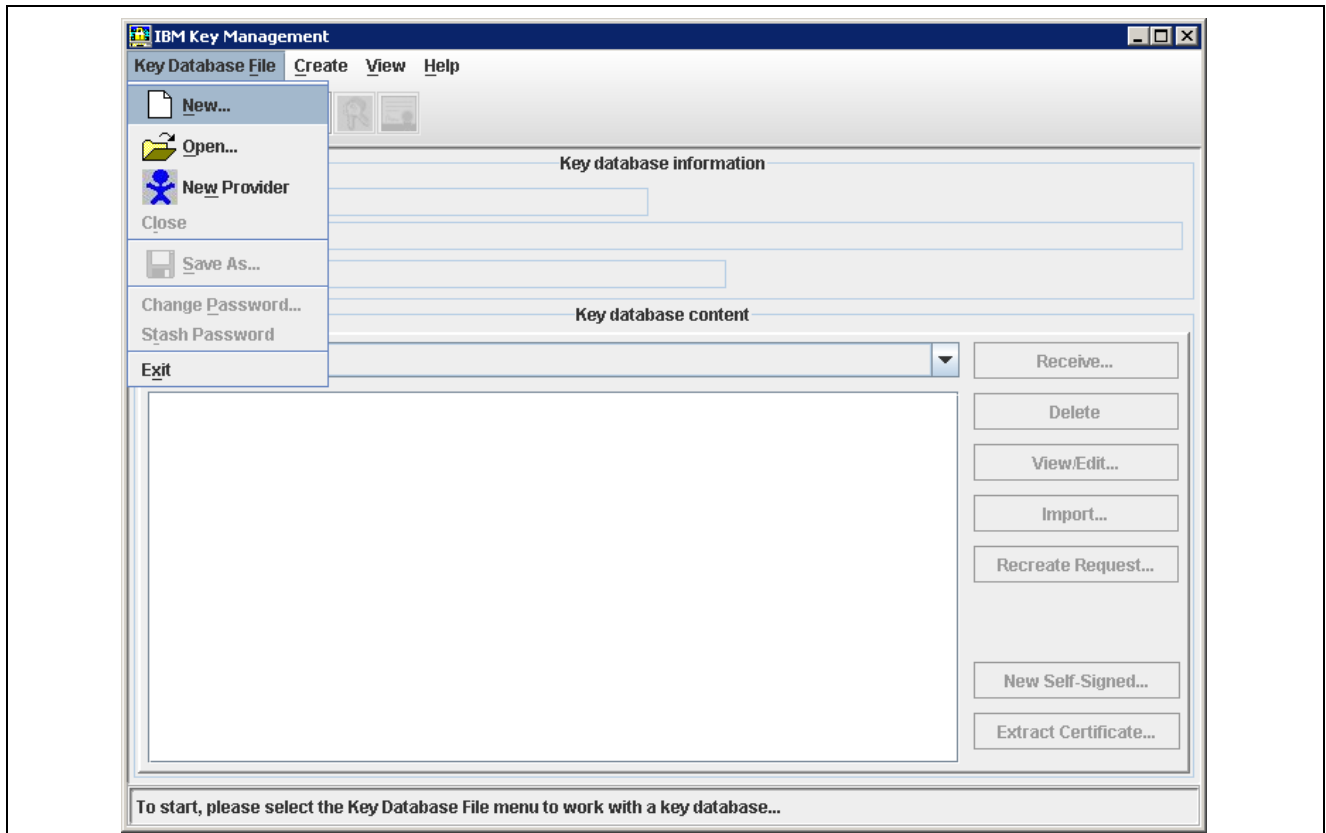
`WAS_HOME\AppServer\bin\ikeyman.bat`

On UNIX or Linux:

Note. Use Windows X reflection tool to invoke ikeyman in GUI mode

`WAS_HOME/AppServer/bin/ikeyman.sh`

8. Select Key Database File, Open.

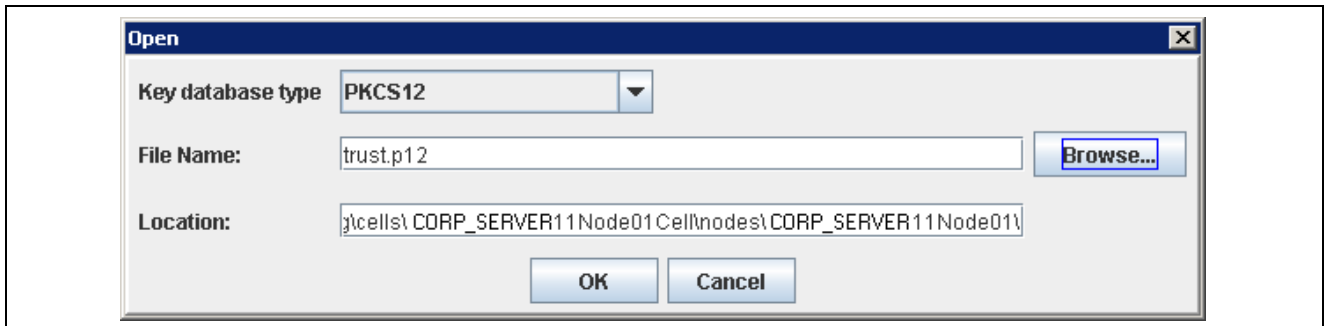


IBM Key Management dialog box

9. Browse to the trust.p12 file.

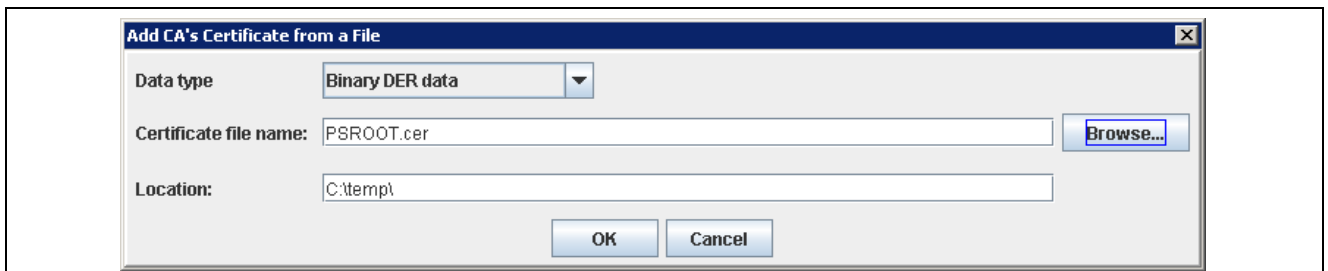
When you browse to and open the file, there will be a prompt to enter a password. Enter the password of the key database file.

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 11-4-22: 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.

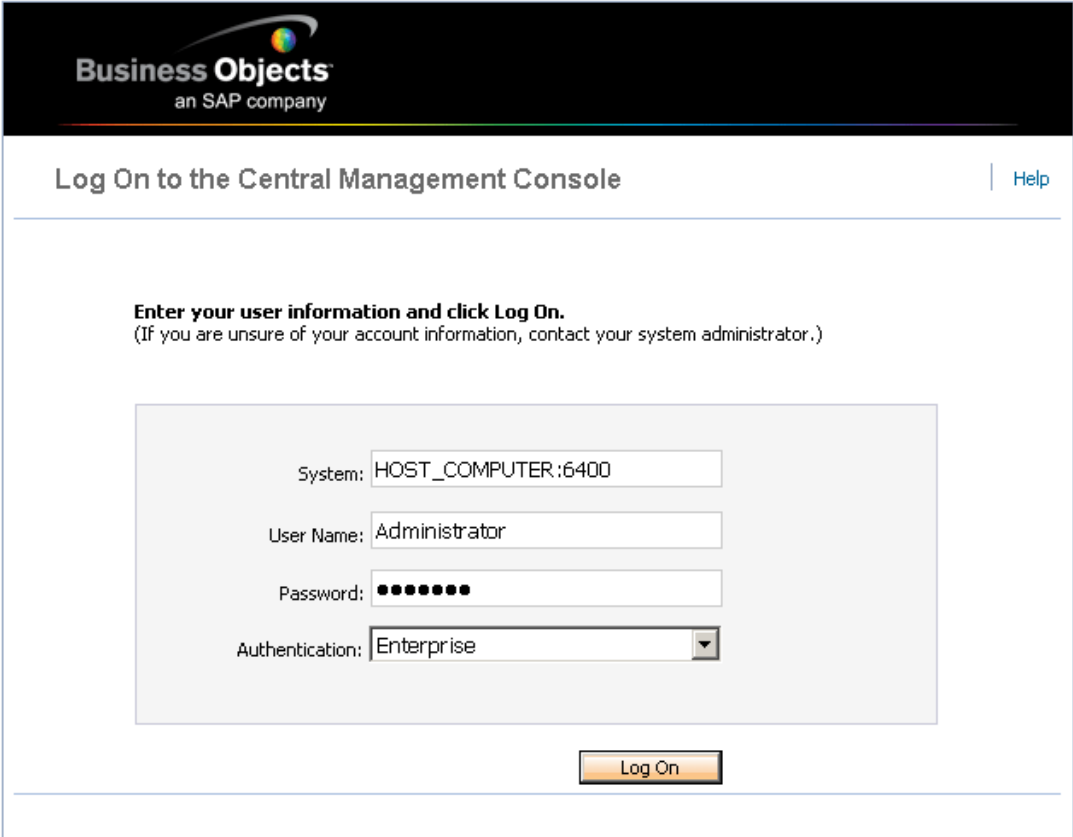
1. In a browser, enter the following URL, substituting the name of your SAP BusinessObjects Enterprise XI 3.1 server for <machine_name>, and the SAP BusinessObjects Enterprise XI 3.1 port number for <BOE_port>:

`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:

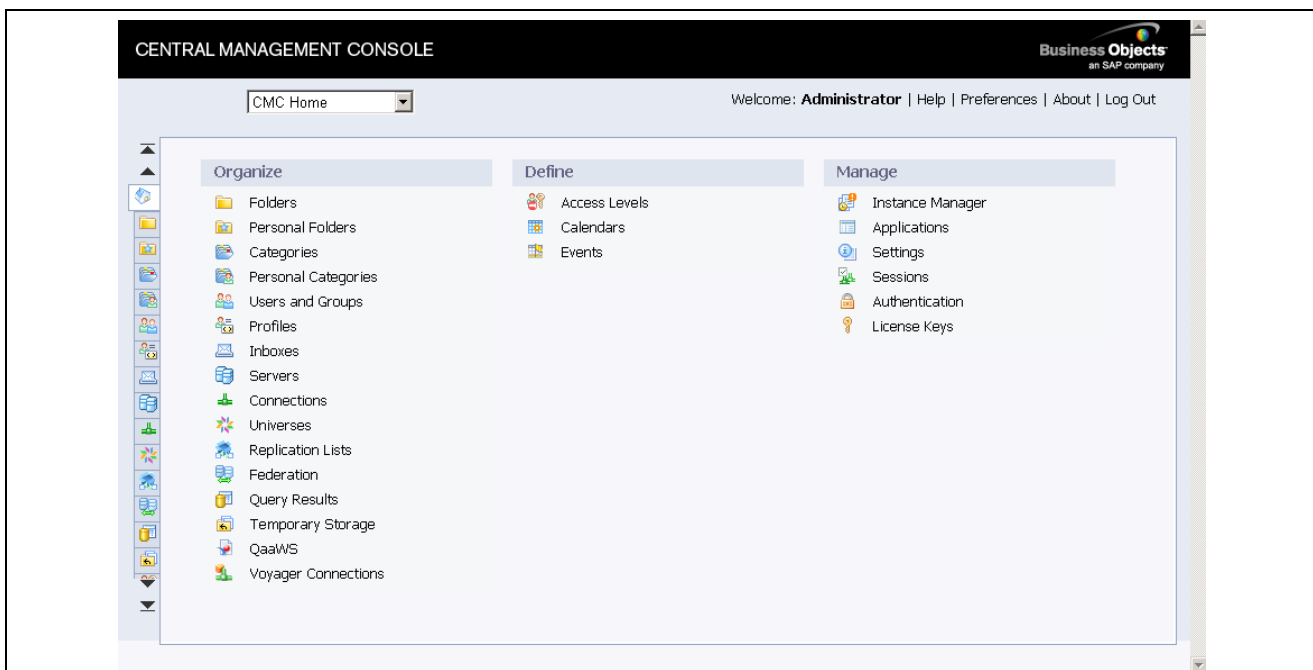
Note. This is the password you assigned to the Administrator account on the Server Components Configuration window when installing SAP BusinessObjects Enterprise XI 3.1.



The image shows a web-based login interface for SAP Business Objects. At the top is a black header with the Business Objects logo and the text "an SAP company". Below the header, the main content area has a light blue background. The title "Log On to the Central Management Console" is displayed in a dark blue font, with a "Help" link to its right. A message in bold black text reads "Enter your user information and click Log On." followed by a note in parentheses: "(If you are unsure of your account information, contact your system administrator.)". Below this message is a light gray rectangular box containing the login form. The form has four fields: "System:" with the value "HOST_COMPUTER:6400", "User Name:" with the value "Administrator", "Password:" with a masked password of eight dots, and "Authentication:" with a dropdown menu showing "Enterprise". A "Log On" button is positioned below the form. The entire interface is enclosed in a thin black border.

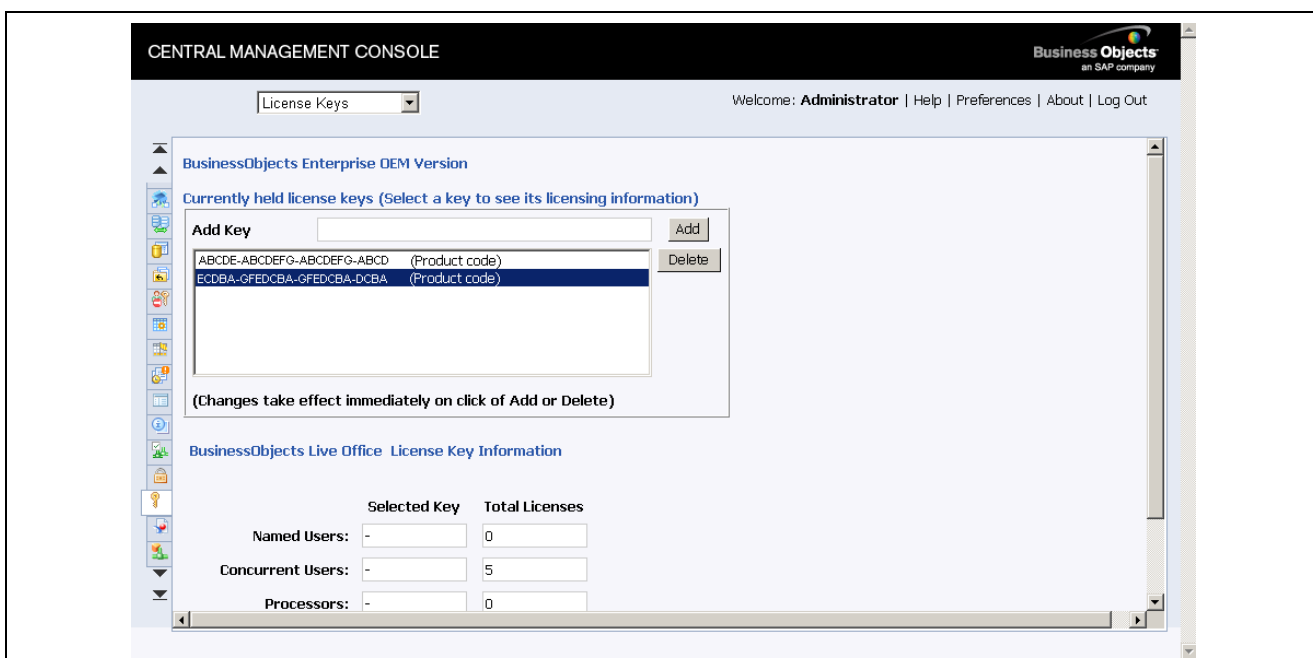
BusinessObjects Enterprise log in window

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

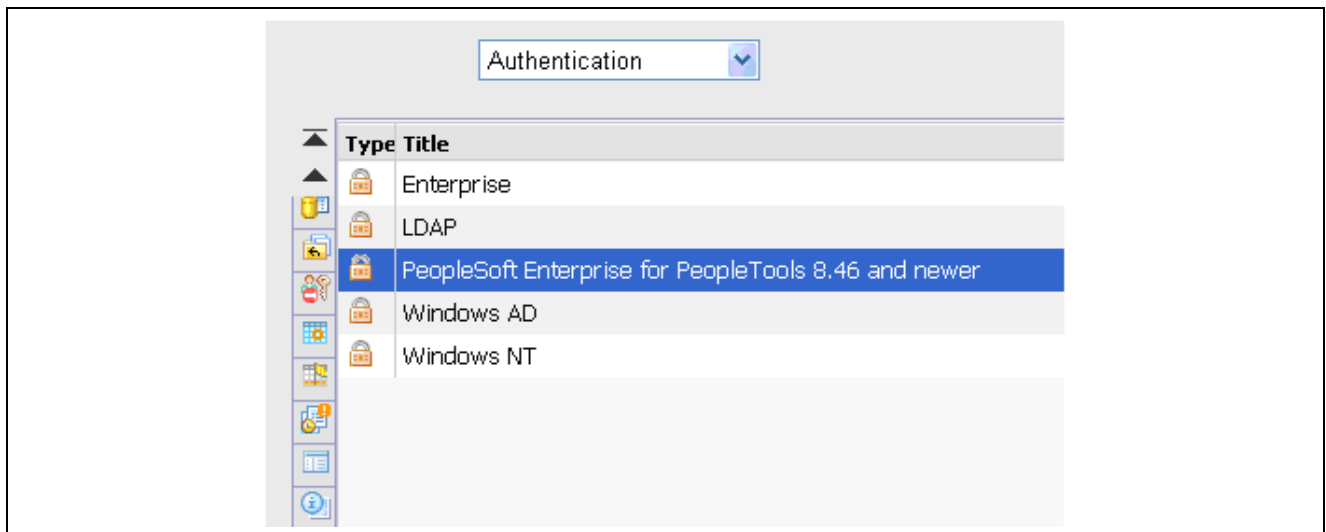
This procedure assumes you logged into the SAP BusinessObjects Enterprise XI 3.1 Central Management Console in the previous step.

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.

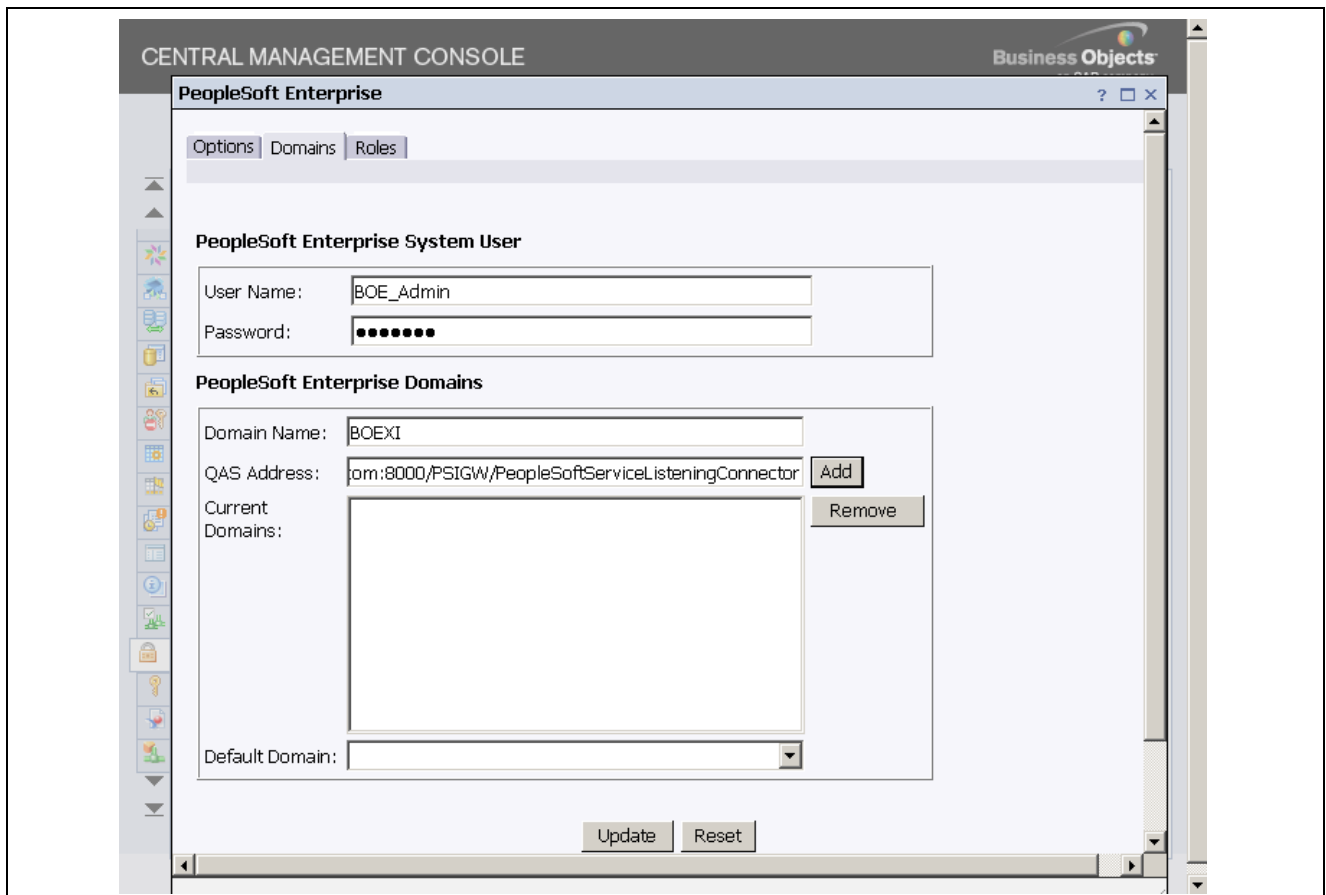
Note. If this link is not present, it means the PeopleSoft Integration Kit has not been installed.



BusinessObjects Enterprise XI 3.1 Authentication page

3. Select the Domain tab.

The PeopleSoft Enterprise page appears.



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 'Domains' and 'Roles' tabs are also visible. The 'PeopleSoft Enterprise Authentication' section has a checked checkbox for 'Enable PeopleSoft Enterprise Authentication'. The 'New Alias Options' section has two radio buttons: 'Assign each added alias to an account with the same name' (selected) and 'Create a new account for every added alias'. The 'Update Options' section has two radio buttons: 'New aliases will be added and new users will be created' (selected) and 'No new aliases will be added and new users will not be created'. The 'New User Options' section has two radio buttons: 'New users are created as named users' (selected) and '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.

The screenshot shows the 'PeopleSoft Enterprise' configuration interface. At the top, there are tabs for 'Options', 'Domains', and 'Roles'. The 'Domains' tab is active, showing a checkbox for 'Force user synchronization' which is checked, and a dropdown menu for 'Select a Domain:' with 'Q8508021' selected. Below this, the 'Roles' section is visible. It includes a 'Search Roles Begin With:' text box containing 'BOE Admin' and a 'Search' button. To the left of the search results is an 'Available Roles' list, which is currently empty. To the right is an 'Imported Roles' section with a note: 'PeopleSoft Enterprise users must belong to one of these PeopleSoft Enterprise roles to be able to log on to BusinessObjects Enterprise.' Below this note, the 'BOE Admin' role is listed in a blue-highlighted box.

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 11-4-23: Configuring Crystal Reports 2008 for SAP BusinessObjects Enterprise XI 3.1

The prerequisites for this configuration are:

- Crystal Reports 2008 must be installed.

See Installing Crystal Reports 2008.

- 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.

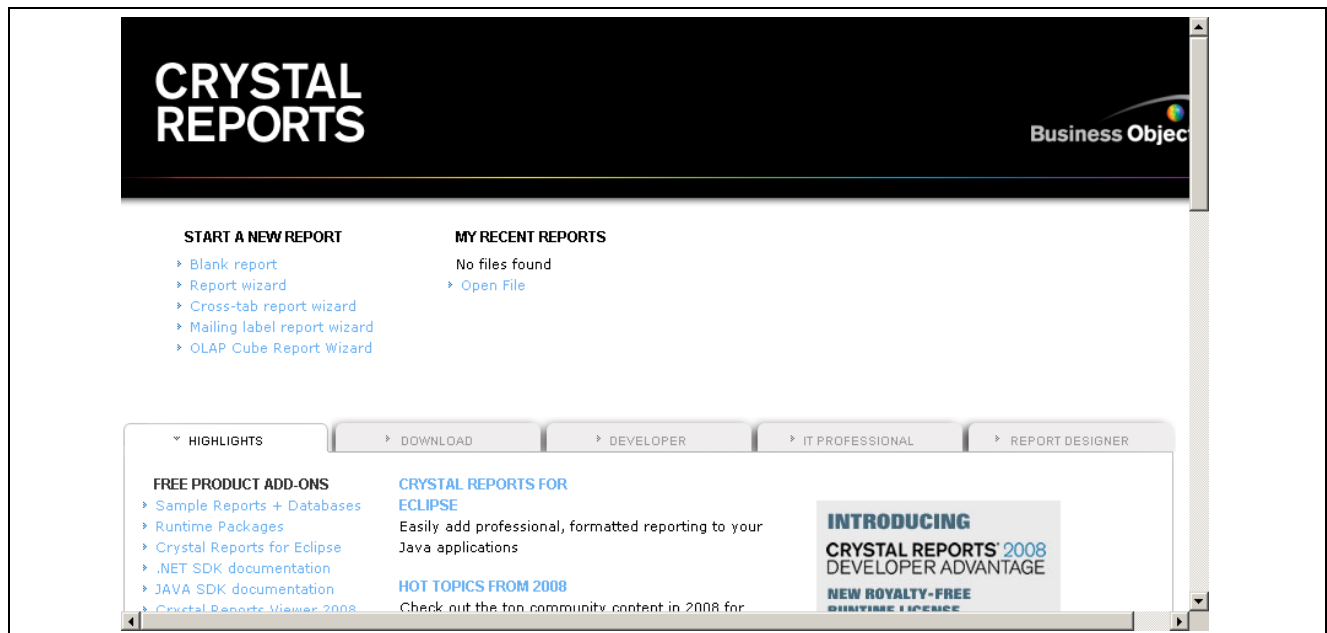
- Integration Broker and QAS must be configured.

See Configuring the PeopleSoft Application for SAP BusinessObjects Enterprise XI 3.1 Integration.

To configure Crystal Reports 2008:

1. Select Start, Programs, Crystal Reports 2008, Crystal Reports 2008.

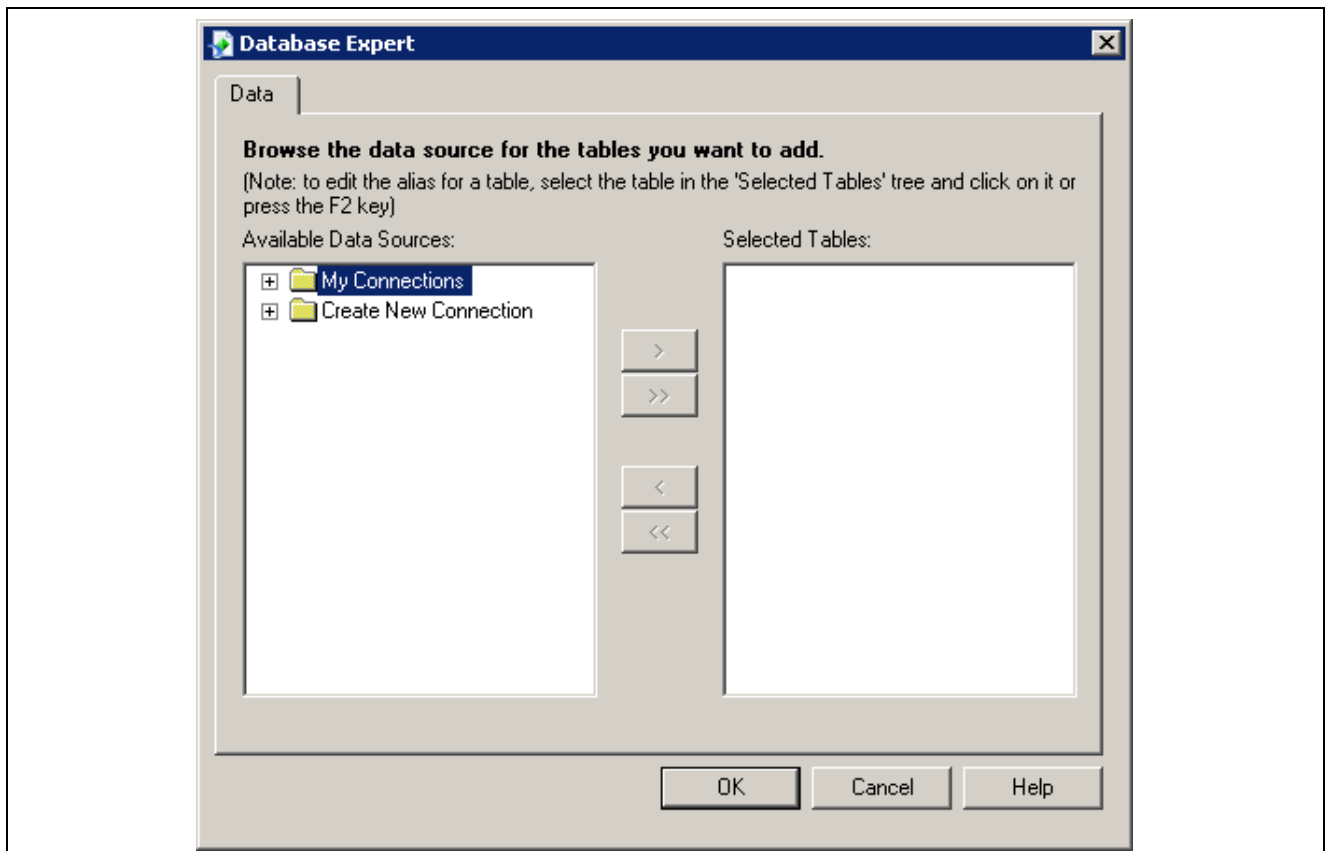
Crystal Reports 2008 opens in a browser.



Crystal Reports home page

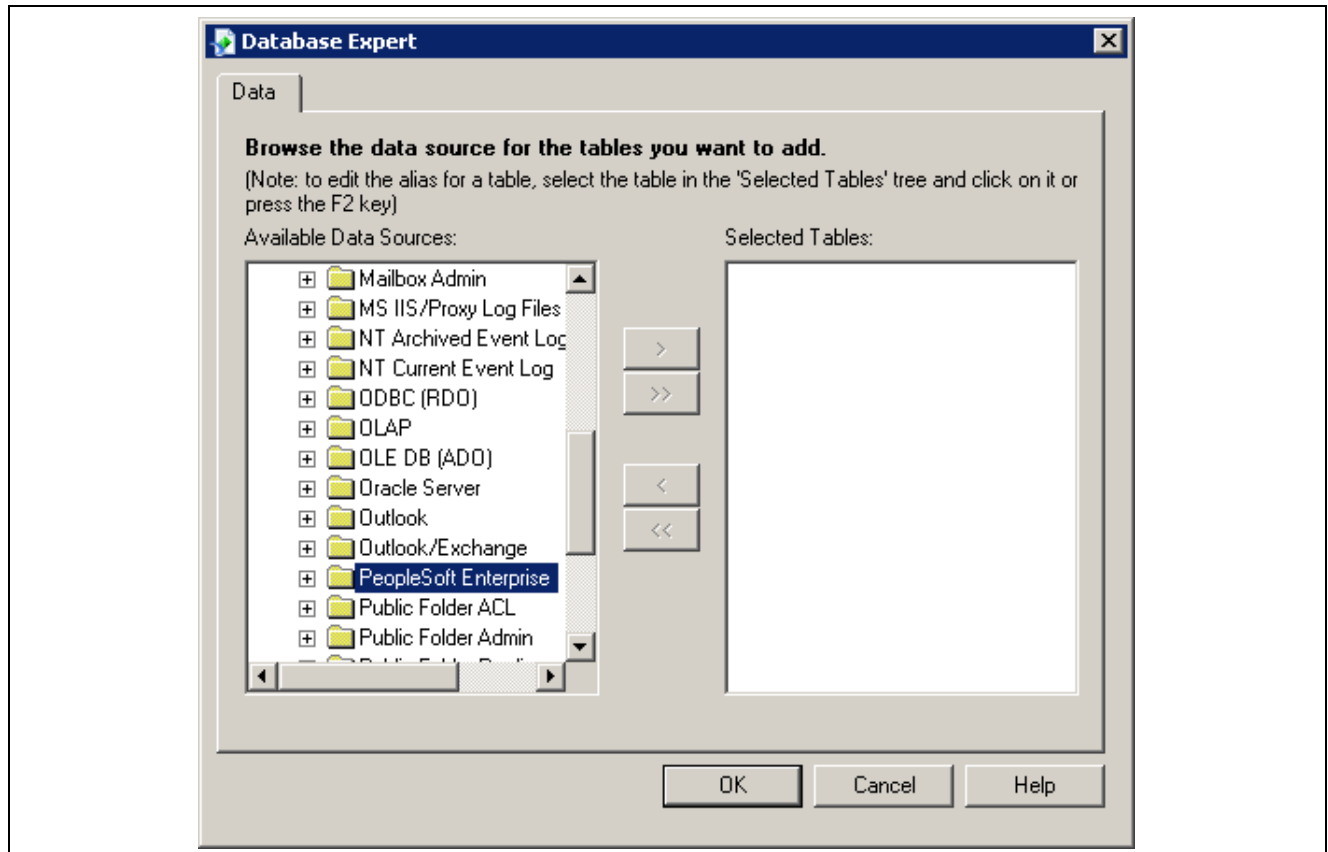
2. Select the Blank report link.

The Database Expert appears.



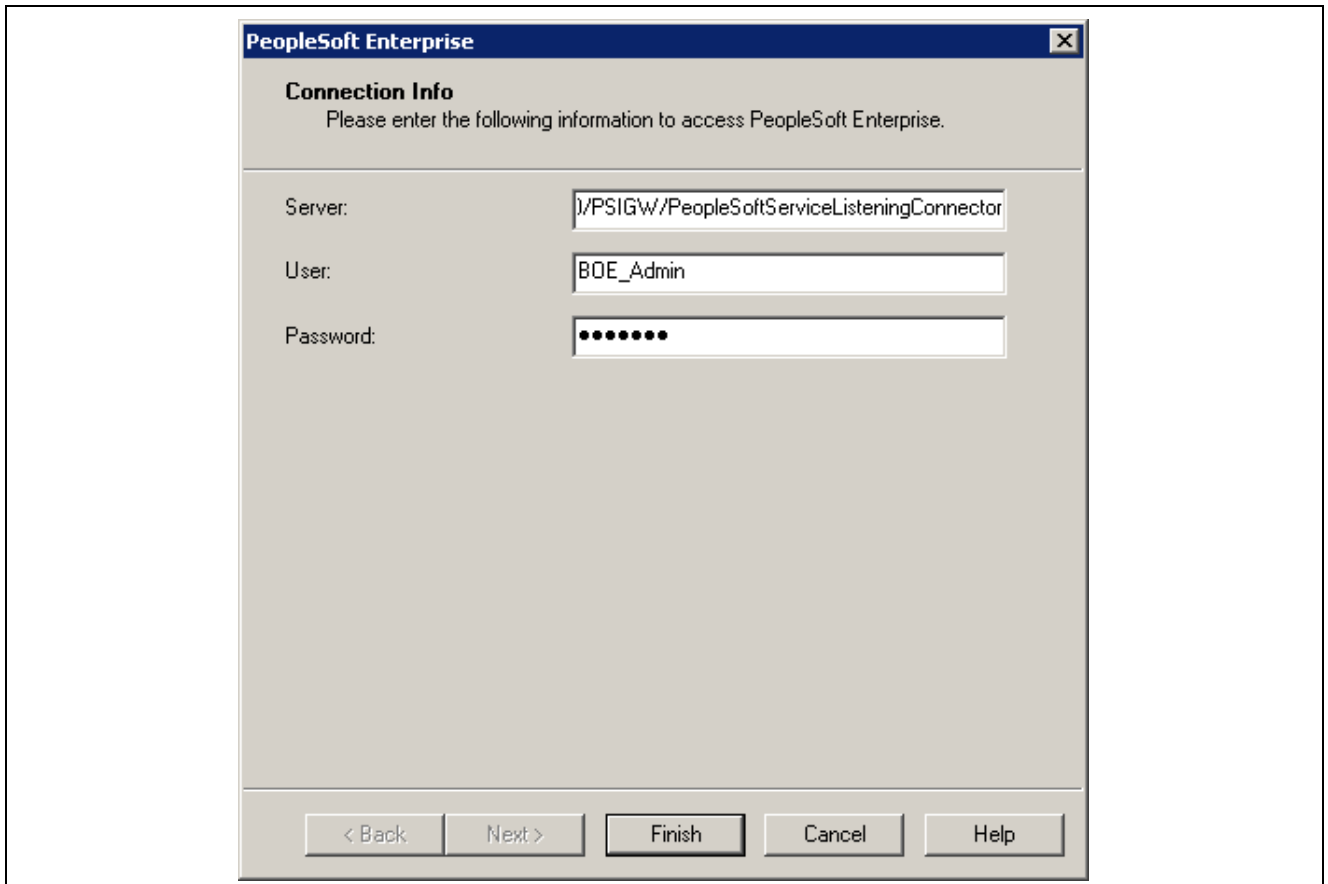
Database Expert dialog box

3. Expand Create New Connection and then expand PeopleSoft Enterprise.
The Connection Info dialog box appears.



Selecting PeopleSoft Enterprise on the Database Expert

4. Enter the QAS endpoint URL for the Server and provide the User and Password.



Connection Info dialog box

5. Click Finish.

Task 11-4-24: 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 11-4-25: 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 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 11-5: 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 your 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 11-6: 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 Crystal 2008 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

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 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 Interactive Viewer 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 Interactive Viewer via the PeopleSoft Report Manager will appear from the perspective of the BusinessObjects XI Interactive Viewer to be concurrent logins from the same user – BOE_Viewing.

Task 11-6-1: Changing the Data Source of the SAP BusinessObjects Enterprise XI 3.1 Report Repository

This section discusses:

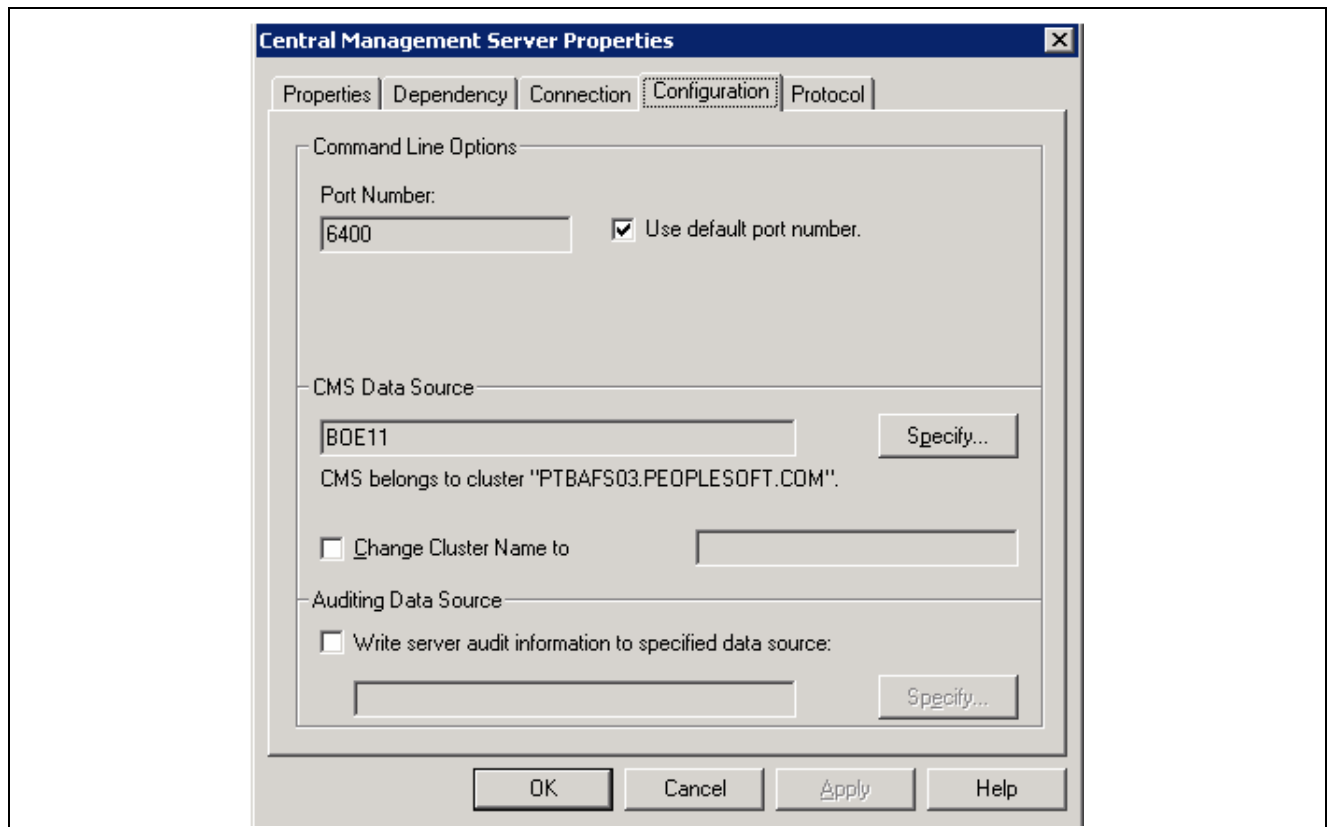
- Changing the Data Source on Windows
- Changing the Data Source on UNIX or Linux

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.

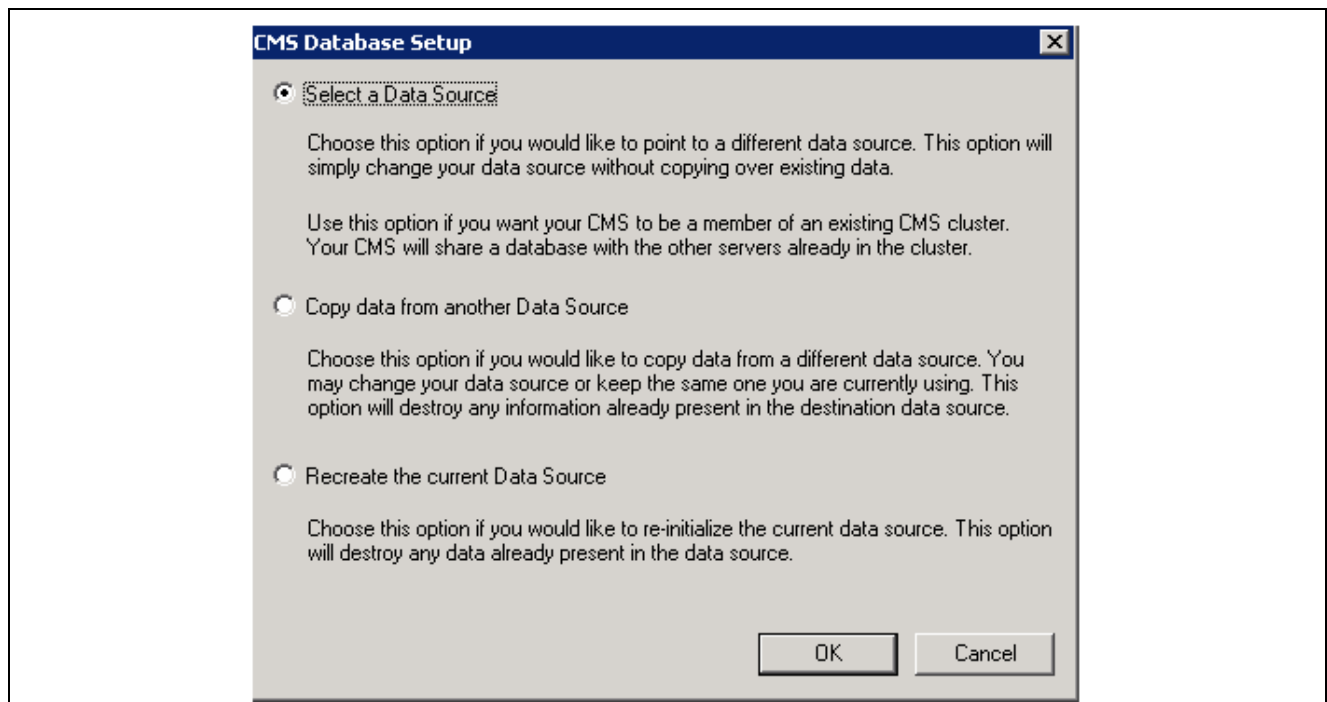
1. Select Start, Programs, Business Objects XI, Business Objects Enterprise, Central Configuration Manager.
2. Right-click the Central Management Server and choose the Stop option.
3. Right-click the Central Management Server and select Properties.
4. Select the Configuration tab.

- Click the Specify button in the CMS Data Source area.



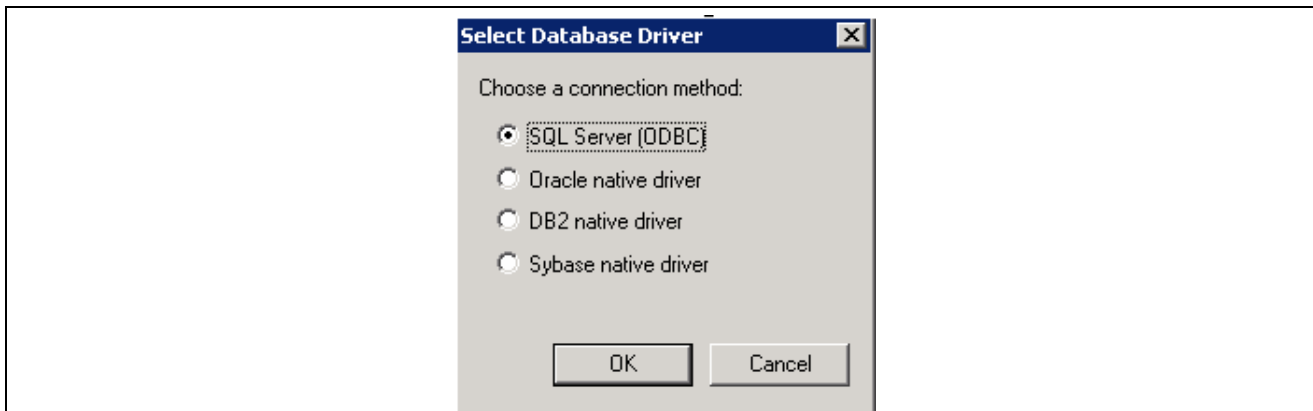
Central Management Server Properties dialog box: Configuration tab

- 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 11-6-2: Returning to Crystal 2008 from SAP BusinessObjects Enterprise XI 3.1

Use the instructions in this section if you need to switch your environment back to run Crystal Reports using the Crystal Reports 2008 runtime instead of the SAP BusinessObjects Enterprise XI 3.1 server.

To switch from using SAP BusinessObjects Enterprise XI 3.1 to 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 Crystal 2008.

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 Crystal Reports. You have to run your original Crystal reports.

Task 11-6-3: 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 11-6-4: 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. 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.websphere6*.

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) websphere6 -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) websphere6 -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) websphere6 -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) websphere6 -Das_admin_password=<password> -DAPP=<Application=>
Name> undeploy
```

10. To review the logs for wdeploy, go to *BOE_HOME\deployment\workdir*.

Task 11-6-5: 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
PartnerPlatformService	/PartnerPlatformService
PerformanceManagement	/PerformanceManagement
PlatformServices	/PlatformServices

Web Application Name	Context Root
PMC_Help	/PMC_Help
VoyagerClient	/VoyagerClient
XCelsius	/XCelsius

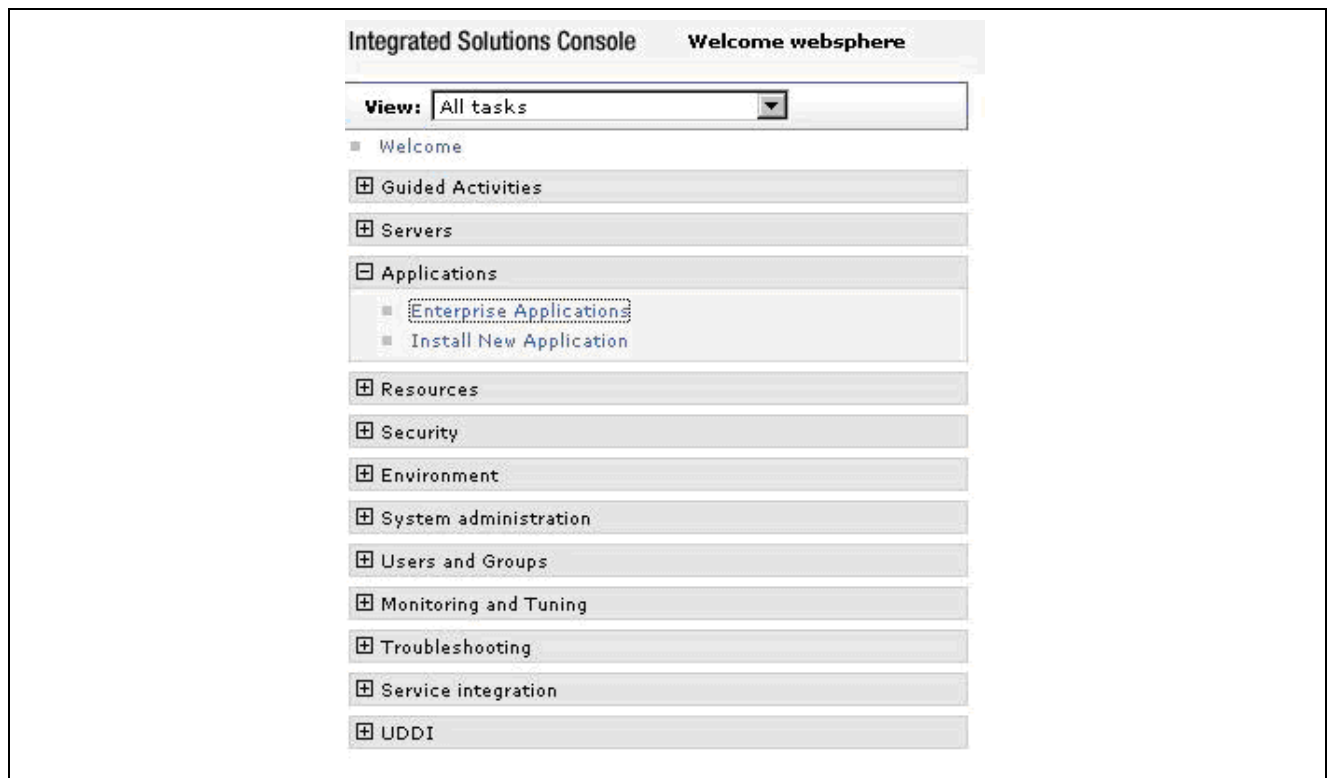
Before using the IBM WebSphere console, you must use the wdeploy tool to predeploy the web applications. To manually deploy web applications through the IBM WebSphere console:

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 2: 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
☒	Business Objects Crystal Report Plugins	CrystalReports.war, WEB-INF/web.xml	WebSphere:cell=st-ibm22bNode01, 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 11-7: 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 11-7-1: 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 11-7-2: 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 11-7-3: 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 11-7-4: 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. Disable and stop all of the SAP BusinessObjects Enterprise XI 3.1 servers.
2. Run the following script:

```
BOE_HOME/AddOrRemoveProducts.sh.
```

3. Select 1 for SAP BusinessObjects Enterprise XI 3.1.
4. Select 2, for Uninstall product.

Task 11-8: Converting Crystal Reports

This section discusses:

- Selecting the Crystal Reports Conversion Method
- Converting Existing Crystal Reports to Crystal Reports 2008 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 8.49 environment to run on PeopleSoft PeopleTools 8.51 or higher and you do *not* plan to use SAP BusinessObjects Enterprise XI 3.1. You will use the Windows-based Crystal Report Print Engine packaged with PeopleSoft PeopleTools instead.

You will have to run a conversion program to convert your Crystal reports so that they can run on PeopleSoft PeopleTools 8.51.

See Converting Existing Crystal Reports to Crystal Reports 2008 Format.

- *Scenario 2:*

Your PeopleSoft installation is already running on PeopleSoft PeopleTools 8.51 or higher 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 8.51 or higher 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 higher, 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 to 8.51 and are already running your reports on SAP BusinessObjects Enterprise XI 3.1.

No report conversion is necessary.

Task 11-8-1: Converting Existing Crystal Reports to Crystal Reports 2008 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 higher. 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 8.51, 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 8.51, 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 11-8-2: Converting Existing Crystal Reports to Run with SAP BusinessObjects Enterprise XI 3.1

This section discusses:

- Understanding the Conversion to Crystal Reports 2008
- Preparing for Conversion of Existing Crystal Reports
- Running the Conversion
- Verifying the Conversion and Publish
- Reviewing Common Conversion Errors and Warning Messages

Understanding the Conversion to Crystal Reports 2008

The PeopleTools RPT conversion utility `pscrconv.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 Crystal Reports 2008. 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 Crystal 2008 format
- Publishing Crystal 2008 report definition files into the BusinessObjects Enterprise XI 3.1 Report Repository

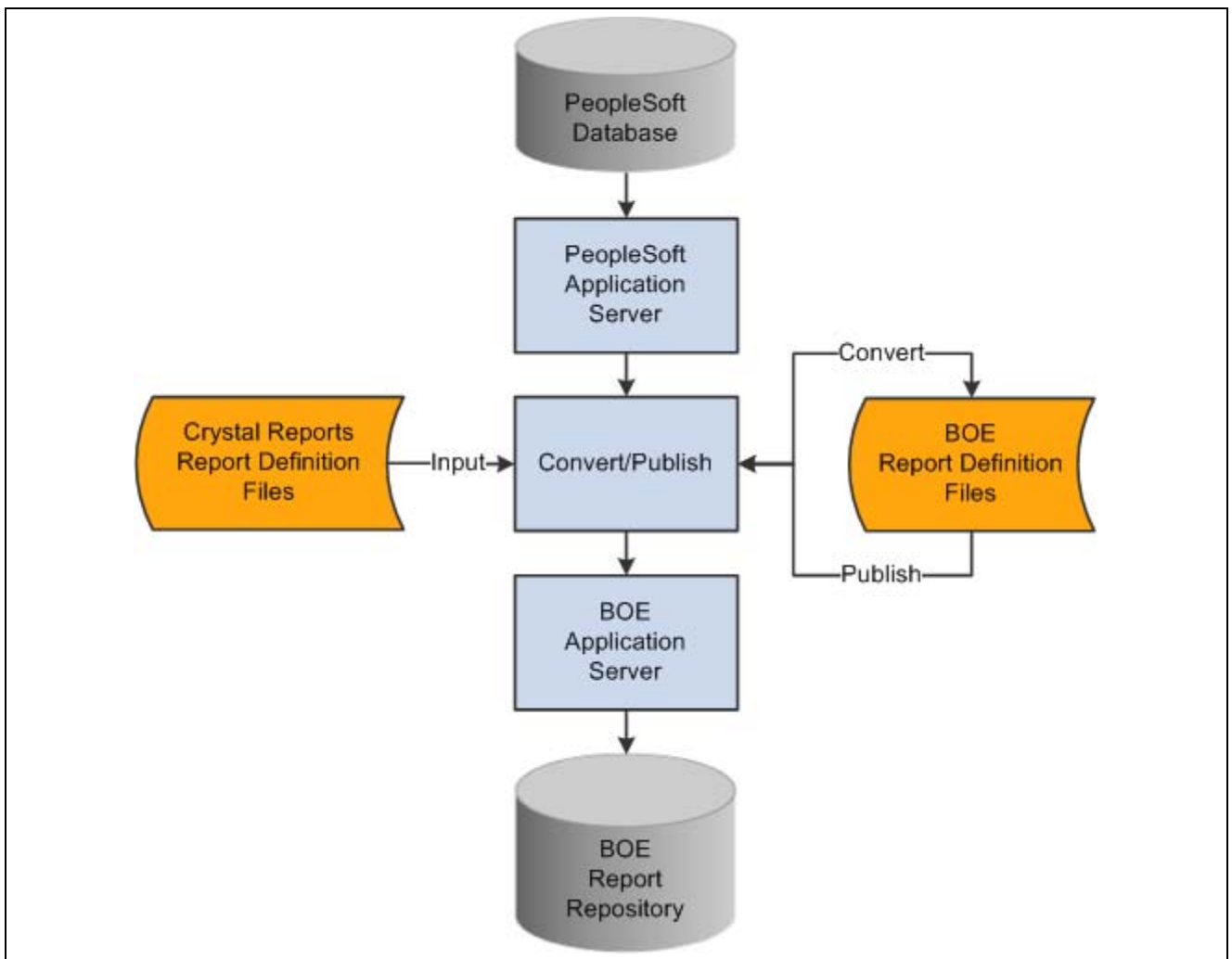
In order to run reports using SAP BusinessObjects Enterprise XI 3.1 through the PeopleSoft software, the Crystal Reports 2008 report definitions must reside in the BusinessObjects Enterprise XI 3.1 Report Repository.

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 Crystal Reports 2008.



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 Crystal 2008 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 Crystal 2008 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 from Oracle E-Delivery.

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 files from Oracle E-Delivery, but on the Media Search Pack page, select the media pack for BusinessObjects Enterprise rather than PeopleSoft Enterprise.

See Obtaining SAP BusinessObjects Enterprise and Crystal Reports Files from Oracle E-Delivery.

- 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, 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 8.51.

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. `PSCRCONV.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 `psodbccrinst.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 Crystal 2008 .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.

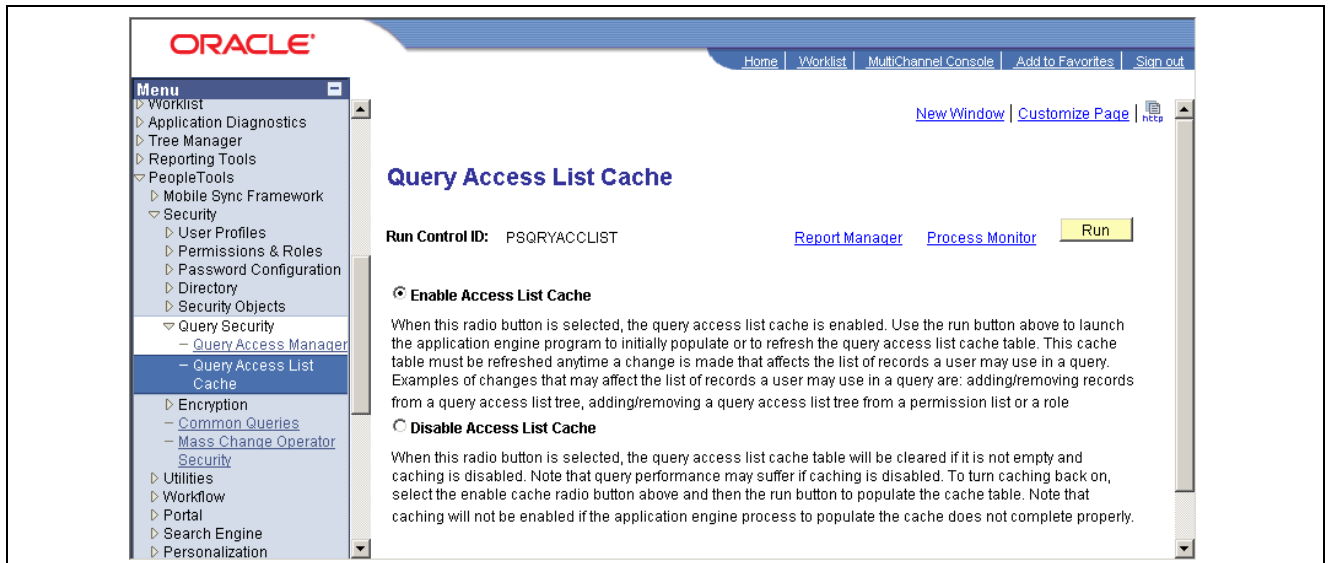
- d. If you do not want to assign the PeopleSoft Administrator Role to user BOE_Admin, there are two options:

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). For more information on SYSAUDIT.SQR refer to *Enterprise PeopleTools 8.51 PeopleBook: Data Management*.

7. Confirm your SAP BusinessObjects Enterprise XI 3.1 environment and integration with the PeopleSoft system.

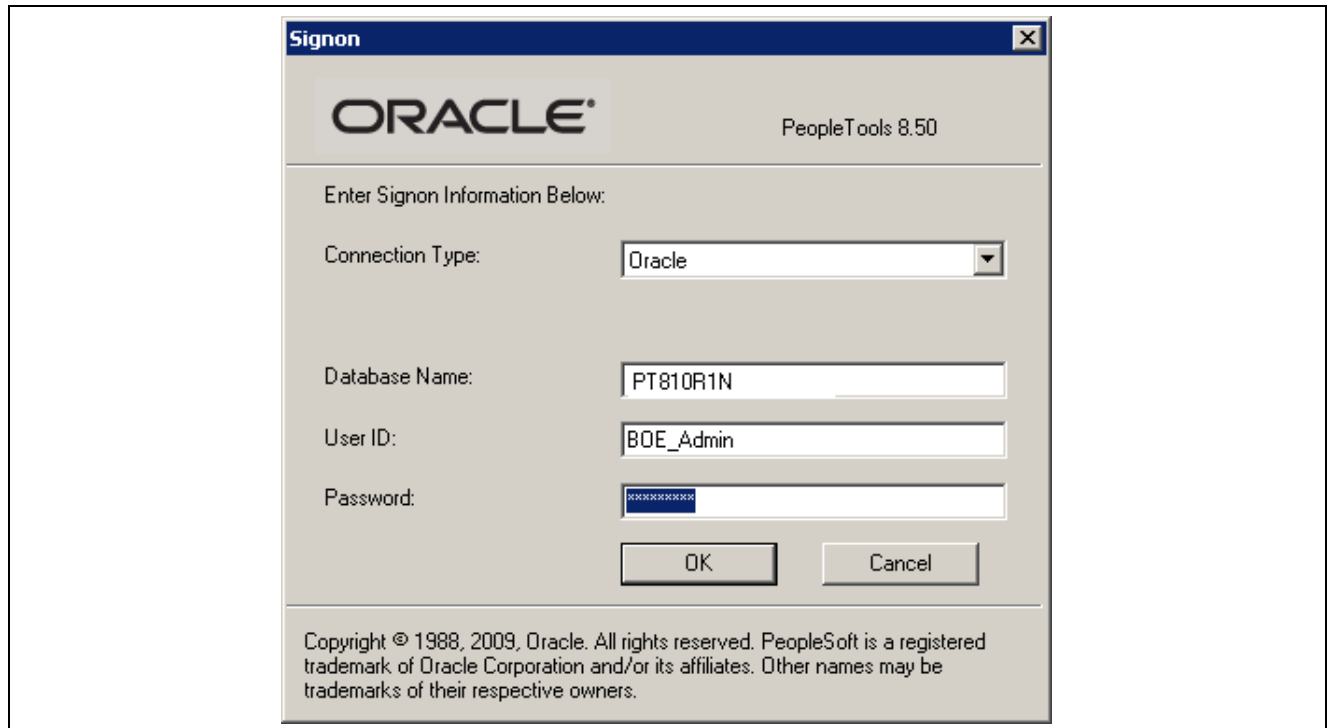
The conversion program relies on having a properly installed and configured SAP BusinessObjects Enterprise XI 3.1 so that the converted report definitions can be inserted in the SAP BusinessObjects Enterprise XI 3.1 repository. There are no special steps in this section that are not part of the basic installation steps covered elsewhere in this installation guide.

Running the Conversion

To run the conversion:

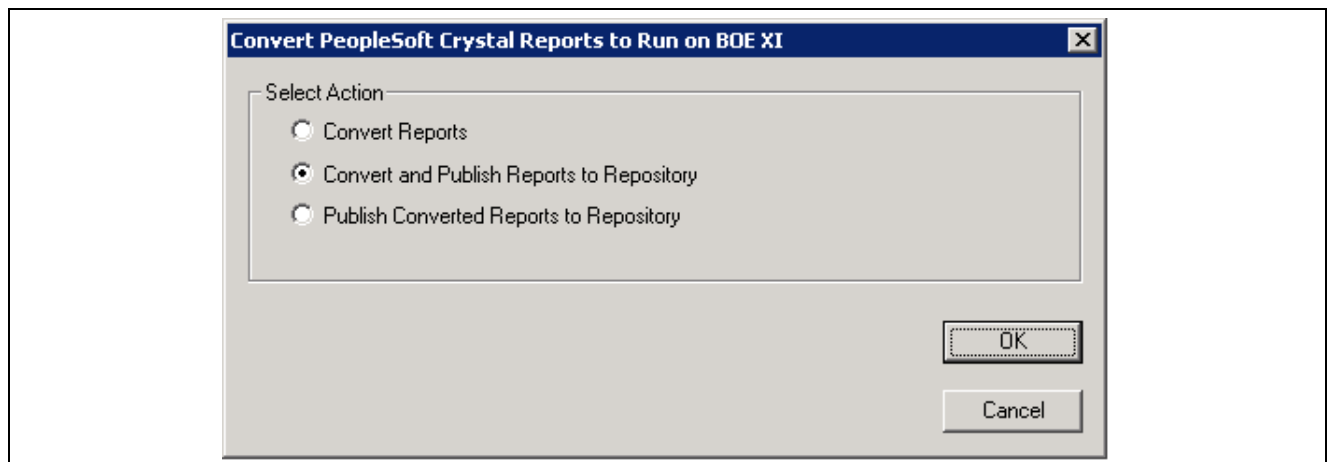
1. Run `pscrconv.exe` from `PS_HOME\bin\client\winx86` directory.
2. Sign into the PeopleSoft database, if you have not already done so. Log in as user `BOE_Admin`.

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. Choose the action that you wish to perform.



Convert PeopleSoft Crystal Reports to Run on BOE XI dialog box

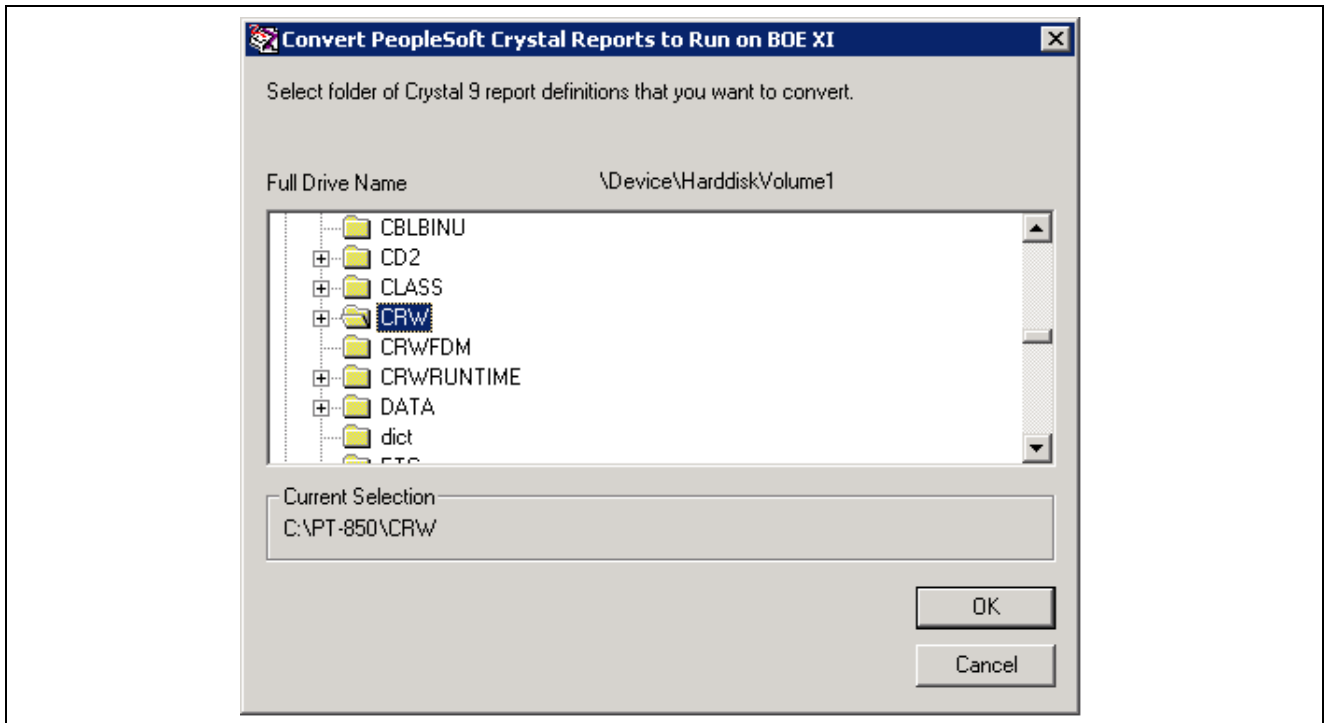
- Converting reports without publishing them to the SAP BusinessObjects Enterprise XI 3.1 report repository allows you to go from running Crystal Reports 9 report definitions to running Crystal Reports 2008 report definitions using Crystal Reports XI on a client machine. The converted reports will be 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.
- 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 Crystal Reports 2008 report definitions using SAP BusinessObjects Enterprise XI 3.1 with the PeopleSoft Process Scheduler.
- If you choose to Publish Reports to the repository, you are publishing to the Report Repository report definitions that have already been converted to Crystal Reports 2008 format.

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 reports to be converted reside in this subdirectory.

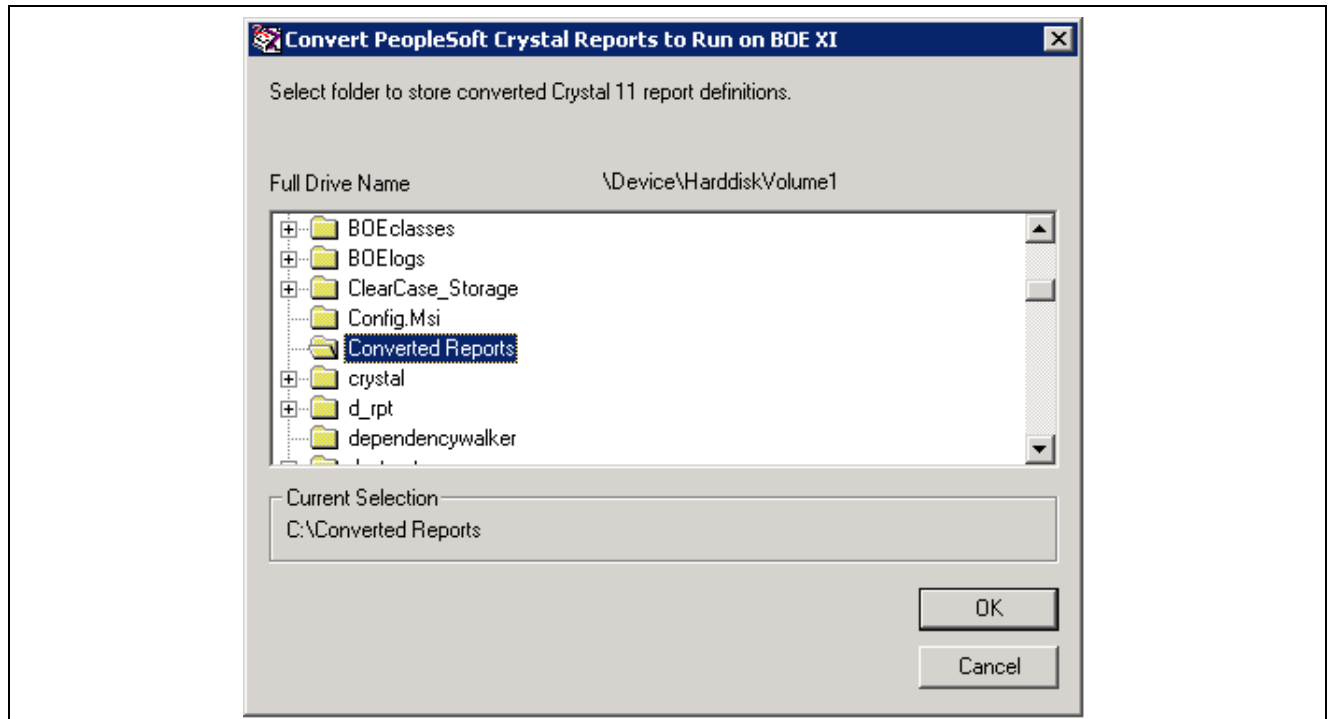
Note. If you chose the Publish Converted Reports to Repository process option in the previous step, you do not see this dialog box.

For example, select C:\PT850\CRW if the reports to be converted are located in C:\PT850\CRW\ENG.



Specifying the input directory for the Crystal Reports conversion

5. Select a report output directory for the converted reports and click OK.



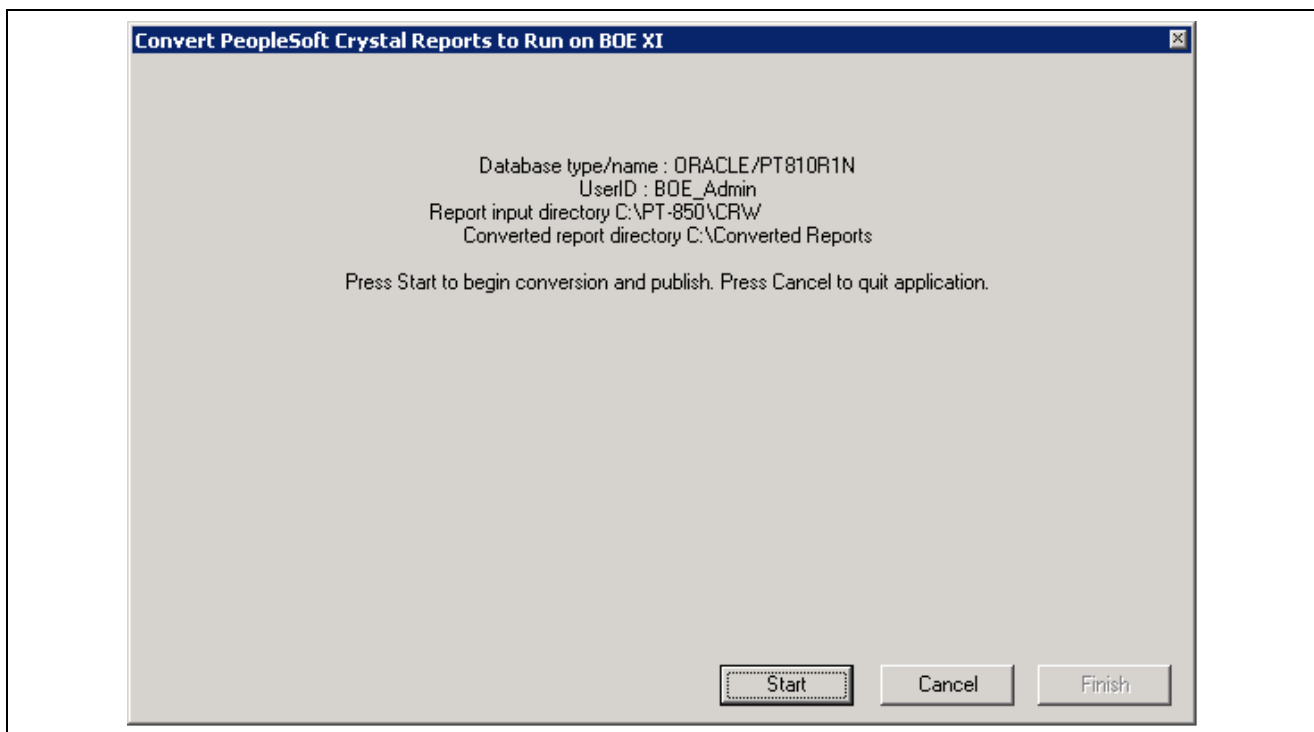
Specifying the output directory for the Crystal Reports conversion

This can be any writable folder, however it cannot be a subfolder of the report input directory. For example, if the reports to be converted are located in C:\\PT850\\CRW\\ENG, the report output directory cannot be C:\\PT850\\CRW\\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 C:\\PT850\\Converted\\ENG, enter C:\\PT850\\Converted as the report output directory.

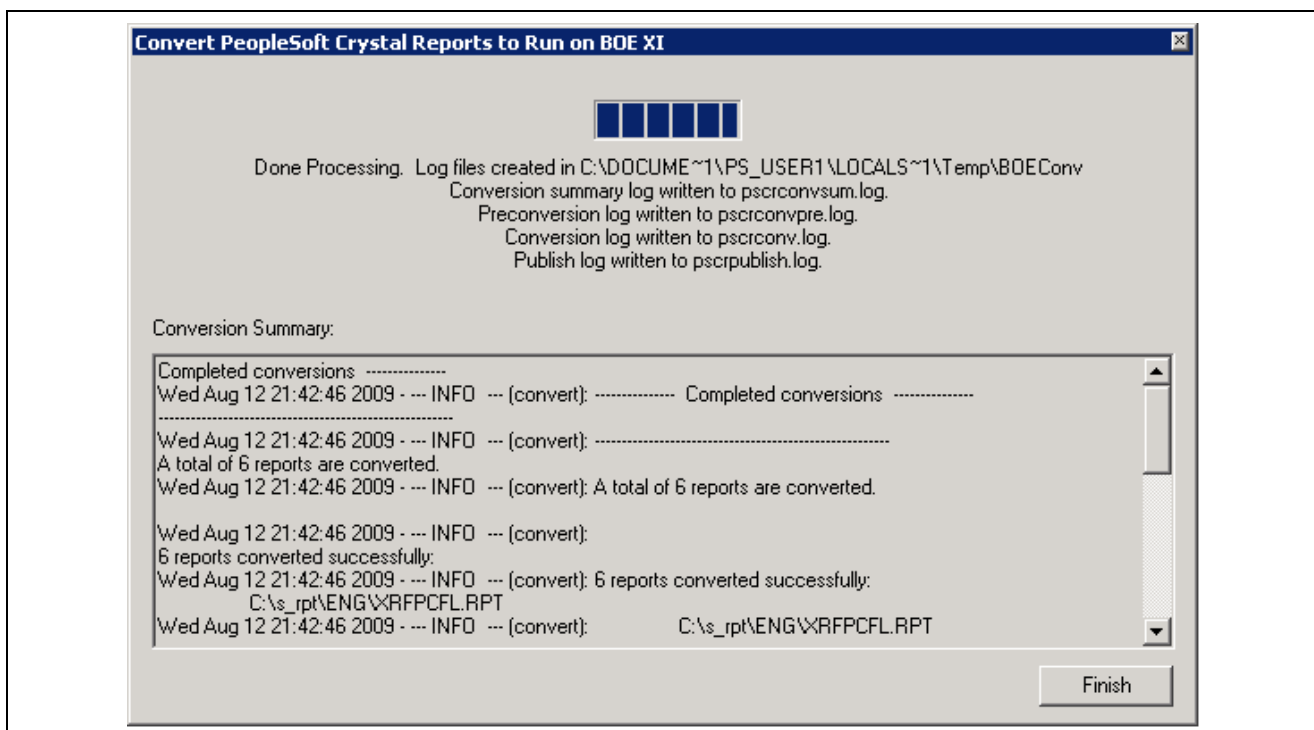
6. Review the information on the summary screen.

If all looks good, 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.

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\XRFP CFL.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG⇒
\XRFP CFL.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\XRFR CFL.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG⇒
\XRFR CFL.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\XRFWIN.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG⇒
\XRFWIN.RPT
  C:\pt849801i1\CRW\ENG\XRFWNFL.RPT
Fri Jan 20 13:24:31 2006 - --- INFO --- (convert): C:\pt849801i1\CRW\ENG⇒
\XRFWNFL.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\CRWFD\ENG\FORA003-.RPT".
Fri Jan 13 18:10:00 2006 - --- INFO --- (convert): Converting the report "C:\M\
\CRWFD\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 12A

Compiling COBOL on Windows

This chapter discusses:

- Understanding COBOL
- Prerequisites
- Compiling COBOL Source Files
- Distributing COBOL Binaries

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.

See Also

"Preparing for Installation," Installing Supporting Applications

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

"COBOL: Installation, versions, fixpacks, etc PT 8.51," My Oracle Support, (search for the article name)

Enterprise PeopleTools 8.51 PeopleBook: 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 psprcs.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 12A-1: Compiling COBOL Source Files

This section discusses:

- Understanding COBOL Compilation
- Compiling COBOL with CBLBLD.BAT
- Compiling COBOL with CBLMAKE.BAT
- Defining the GNT and INT Files

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 Windows.) This chapter assumes that you are carrying out the compile 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 at once. Another alternative is CBLMAKE.BAT, which you can use to compile selected COBOL files.

Make certain to check whether you need to apply any late-breaking patches.

See My Oracle Support, Patches & Updates.

Task 12A-1-1: Compiling COBOL with CBLBLD.BAT

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 DOS 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:\netexpress\base
```

2. Open a DOS 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, *<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\CBLBINX* directory (this directory will be named CBLBINA, CBLBINU, or CBLBINE, depending on whether you are using ANSI, Unicode or EBCDIC). 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\CBLBINX* 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, CBLVIO.S.DLL, COB32API.DLL) from the Microfocus compiler directory (identified by %COBROOT% setting) into the appropriate CBLBIN directory (CBLBINA, CBLBINU, or CBLBINE) 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 DOS command line (they reside in *PS_HOME\setup*). For CBLRTCPY.BAT you need to specify a target directory.

Task 12A-1-2: Compiling COBOL with CBLMAKE.BAT

CBLBLD.BAT compiles all your COBOL 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 file or a selected group of COBOL 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]] [EBCDIC] [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 EBCDIC	Compiles all source files for DB2 for z/OS
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 DOS command prompt window.
3. Make sure the compile directory exists; it may already 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, CBLBINU, or CBLBINE).

```
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 12A-1-3: 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 cblcrnt <file name without file extension>
```

or:

```
Call cblcprint PTPDBTST
```

Task 12A-2: Distributing COBOL Binaries

Once you've compiled your COBOL, you must transfer it to the needed locations. Copy the contents of *PS_HOME\CBLBINX* (CBLBINA, CBLBINU, or CBLBINE) directory into *PS_HOME\CBLBINX* (CBLBINA, CBLBINU, or CBLBINE) on your batch and application server machines.

CHAPTER 12B

Compiling COBOL on UNIX

This chapter discusses:

- Understanding COBOL
- Prerequisites
- Setting Environment Variables
- Modifying the Liblist (IBM AIX 5.3 and HP-UX Only)
- Compiling COBOL Programs
- Linking COBOL
- Recompiling COBOL on UNIX

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.

See Also

"Preparing for Installation," Installing Supporting Applications

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

"COBOL: Installation, versions, fixpacks, etc PT 8.51," My Oracle Support, (search for the article name)

Enterprise PeopleTools 8.51 PeopleBook: Global Technology, "Running COBOL in a Unicode Environment"

Prerequisites

Before you attempt to run COBOL from the command line you should make sure the variable PS_SERVER_CFG points to a valid psprcs.cfg file.

Task 12B-1: Setting Environment Variables

On your UNIX system, you need to log in and ensure the following environment variables are set appropriately. Alternatively, make sure the following environment variables are set in the *.profile* file in the user's home directory:

- \$SYBASE, \$SYBASE_ASE, and \$SYBASE_OCS must point to the correct Sybase installation; for example:

```
$SYBASE=/products/sybase/15.0.1
;export SYBASE
$SYBASE_ASE=ASE-15_0; export SYBASE_ASE
$SYBASE_OCS=OCS-15_0; export SYBASE_OCS
```

- \$SYBASE/\$SYBASE_ASE/bin and \$SYBASE/\$SYBASE_OCS/bin must be added to PATH.
- \$SYBASE/\$SYBASE_ASE/lib and \$SYBASE/\$SYBASE_OCS/lib must be appended to LD_LIBRARY_PATH, LIBPATH, or SHLIB_PATH, whichever is appropriate for your platform.
- \$DSQUERY must be set to the correct instance.
- \$COBDIR must be set to the Micro Focus Server Express installation; for example:

```
COBDIR=/cobol/prod/svrexpress-5.1_wp4;export COBDIR
```

- \$COBDIR/lib must be appended to LD_LIBRARY_PATH, LIBPATH, or SHLIB_PATH, whichever is appropriate for your platform.

```
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$COBDIR/lib;export LD_LIBRARY_PATH
LIBPATH=$LIBPATH:$COBDIR/lib;export LIBPATH
SHLIB_PATH=$SHLIB_PATH:$COBDIR/lib;export SHLIB_PATH
```

- \$COBDIR/bin must be appended to the PATH; for example:

```
PATH=$PATH:$COBDIR/bin;export PATH
```

To set the required PeopleSoft environment variables, run `psconfig.sh`. Enter the following command from the *PS_HOME* directory:

```
. ./psconfig.sh
```

Task 12B-2: Modifying the Liblist (IBM AIX 5.3 and HP-UX Only)

This section discusses:

- Understanding Liblist Modifications
- Modifying the Liblist File

Understanding Liblist Modifications

If you are compiling COBOL on AIX 5.3 or HP-UX, modify the liblist or liblist64 file as described here. See the COBOL documentation on My Oracle Support for additional information about modifications that need to be made in the liblist or liblist64 file.

See "COBOL: Installation, versions, fixpacks, etc. PT 8.51," My Oracle Support (search for the article name).

Task 12B-2-1: Modifying the Liblist File

This section discusses:

- Modifying the Liblist64 File for AIX
- Modifying the Liblist64 File for HP-UX

Modifying the Liblist64 File for AIX

To modify the liblist file for AIX 5.3:

1. cd to \$COBDIR/lib.
2. Add the following line to the liblist file:

```
x:*:s!t:-lc
```

The following listing shows where to make the changes:

```
# More emulation of cc (MUST be after MF/user libraries):
x:*:sg:-lg
x:*:sg:-bE:/usr/lib/libg.exp
x:*:st:-L/usr/lib/threads
x:*:st:-lpthreads
x:*:s!t:-lc          <=== Add this line
x:*:s:-lc
```

Modifying the Liblist64 File for HP-UX

You must modify \$COBDIR/lib/liblist64 if *both* of the following conditions exist:

Note. This modification is for the liblist64 (sixty-four) file, not the liblist file.

- You get this error message when running psrun.mak:

```
$ ./psrun.mak
./psrun.mak - linking PSRUN ...
./psrun.mak - Error(s) encountered creating PSRUN!
./psrun.mak - See psrun.err for messages
```

- The psrun.err error file contains the following error:

```
ld: Can't open /opt/langtools/lib/pa20_64/crt0.o
ld: No such file or directory
```

To modify the liblist64 file for HP-UX PA RISC:

1. Login into the system as user root.

2. `cd` to `$COBDIR/lib` and find the `liblist64` file.
3. Edit `$COBDIR/lib/liblist64` with `vi`, `emacs` or your favorite editor, and change the `crt0.o` specification as depicted below.

From this:

```
x:*:s:/opt/langtools/lib/pa20_64/crt0.o
```

To this:

```
x:*:s:/usr/ccs/lib/pa20_64/crt0.o
```

Task 12B-3: Compiling COBOL Programs

This section discusses:

- Understanding COBOL Compilation
- Compiling COBOL on UNIX

Understanding COBOL Compilation

Under UNIX, you always need to compile your COBOL at installation time. After you run the PeopleSoft Installer to set up your application or batch server, carry out the following steps.

You have two options for compiling:

- You can treat one application or batch server as your compile server, compile all your COBOL there, and then distribute `cblbin` from there to all other relevant servers. In this case, only that one server would require a COBOL compiler, and you would copy any patches and customizations from your file server to this designated server before carrying out the compile.
- The second option is to compile on all servers. In this situation, all servers would need a COBOL compiler, and you would need to copy any patches and customizations from the file server to all of these servers before carrying out the compile.

Note. You should have read/write access to the directory `PS_HOME/cblbin` to be able to compile the COBOL programs.

Note. To copy a compiled COBOL program from one UNIX server to another, they must be on the same OS that the compile took place on. For example, if you compile on Solaris for the Application Server, and the Process Scheduler is on AIX, you cannot copy the compiled program (you will also need to compile on the AIX box).

Task 12B-3-1: Compiling COBOL on UNIX

To compile COBOL on UNIX:

1. If you haven't already done so, download all required patches to your file server, and from there to FTP the contents of `src\cbl\base` and `src\cbl\unix` over to `src/cbl` on the relevant application or batch server.

Note. When you bring patches up from the file server, the files need to have a lowercase cbl extension and an uppercase program name, as in PATCH.cbl.

2. Run psconfig.sh from *PS_HOME* to set up environment variables correctly on your application or batch server.
3. Change to the *PS_HOME/setup* directory:


```
cd $PS_HOME/setup
```
4. To compile all the COBOL source dynamically, issue the command:


```
./pscbl.mak
```

The dynamic compile creates INT, LST, and GNT files, which are copied to these locations:

File	Location
INT	<i>PS_HOME/src/cbl/int</i>
LST	<i>PS_HOME/src/cbl/lst</i>
GNT	<i>PS_HOME/cblbin</i>

Warning! Proposed ISO 2000 COBOL features are enabled. Please refer to documentation for details, and do not rely on these features being supported in future products from Micro Focus due to changes in the proposed COBOL standard.

Note. For Server Express, PeopleSoft sets the COBOL directive INTLEVEL to 4. Setting this directive to this value enables you to raise the significant digits of numeric fields from 18 to 31. This is in accordance with the ISO 2000 COBOL standard. During the compilation of each program, the vendor of Server Express will display a warning. This should not be considered a compilation error.

Task 12B-4: Linking COBOL

This section discusses:

- Understanding COBOL Linking
- Linking COBOL Components on UNIX

Understanding COBOL Linking

PSRUN is the PeopleSoft procedure that connects the COBOL batch programs with the RDBMS API. It is compiled uniquely for each platform and consists of modules provided with PeopleSoft software, the RDBMS platform, and the operating system.

You need to create the PSRUN program in the following situations:

- You are installing PeopleSoft software for the first time.
- Any COBOL programs have changed.
- The version of the RDBMS running the PeopleSoft system has changed.

- The COBOL compiler has changed.
- One of the C programs supplied with the PeopleSoft system has changed.

Note. The PeopleSoft system only supports dynamic linking of COBOL. Static linking is not an option.

Task 12B-4-1: Linking COBOL Components on UNIX

To link COBOL components on UNIX:

1. Change to the *PS_HOME/setup* directory:

```
cd $PS_HOME/setup
```

2. For dynamic linking, run:

```
./psrun.mak
```

The PSRUN.MAK script should return the UNIX prompt when done. If the compile completes without errors, the file PSRUN will now exist in the *PS_HOME/bin* directory. If you encounter errors, check *PS_HOME/setup/psrun.err*.

Task 12B-5: Recompiling COBOL on UNIX

You always need to compile at installation, so you will only need to recompile COBOL in the following situations:

- Any COBOL programs change
- The supported COBOL compiler changes
- You change the version of your RDBMS
- You change your version of your operating system
- You apply a patch or a fix

Note. Remember, you must always use your file server as the source repository for your COBOL. You should download any patches and apply any customizations to the file server, and disseminate them from there.

You can compile a *single* COBOL program dynamically by using this command syntax:

```
./pscb1.mak <PROGRAM NAME WITHOUT "cbl" EXTENSION>
```

For example,

```
./pscb1.mak PTPDBTST
```

compiles the lone file PTPDBTST.

Note. If you want to recompile all your COBOL, you can follow the procedure described earlier.

See “Compiling COBOL Programs.”

The compile should run without errors until it completes. After the script is complete, check the destination directories for the newly created files in *PS_HOME/src/cbl/int*, *PS_HOME/src/cbl/lst*, and *PS_HOME/cblbin*. They should have a length greater than zero as well as a current date and time stamp.

Note. You can also use *pscbl.mak PTP* or *pscbl.mak PTP** to compile all source files that start with PTP.

CHAPTER 13

Installing PeopleSoft Change Assistant

This chapter discusses:

- Understanding PeopleSoft Change Assistant
- Installing and Configuring PeopleSoft Change Assistant
- Specifying Options
- 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 and uploads it to My Oracle Support. With the environment data available, My Oracle Support can determine what updates apply to your environment.

When you access My Oracle Support, you can obtain a list of all unapplied updates for a given application environment including all prerequisites. You can then download a set of change packages associated with the update IDs and install the patches and fixes with minimal effort.

See Also

"Using the PeopleSoft Installer," Verifying Necessary Files for Installation on Windows

Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Change Assistant

Enterprise PeopleTools 8.51 PeopleBook: Life Cycle Management Guide

Task 13-1: Installing and Configuring PeopleSoft Change Assistant

This section discusses:

- Installing PeopleSoft Change Assistant
- Setting Up Security for PeopleSoft Change Assistant
- Verifying the Path Variable
- Scanning the Workstation

Task 13-1-1: 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."

To install PeopleSoft Change Assistant:

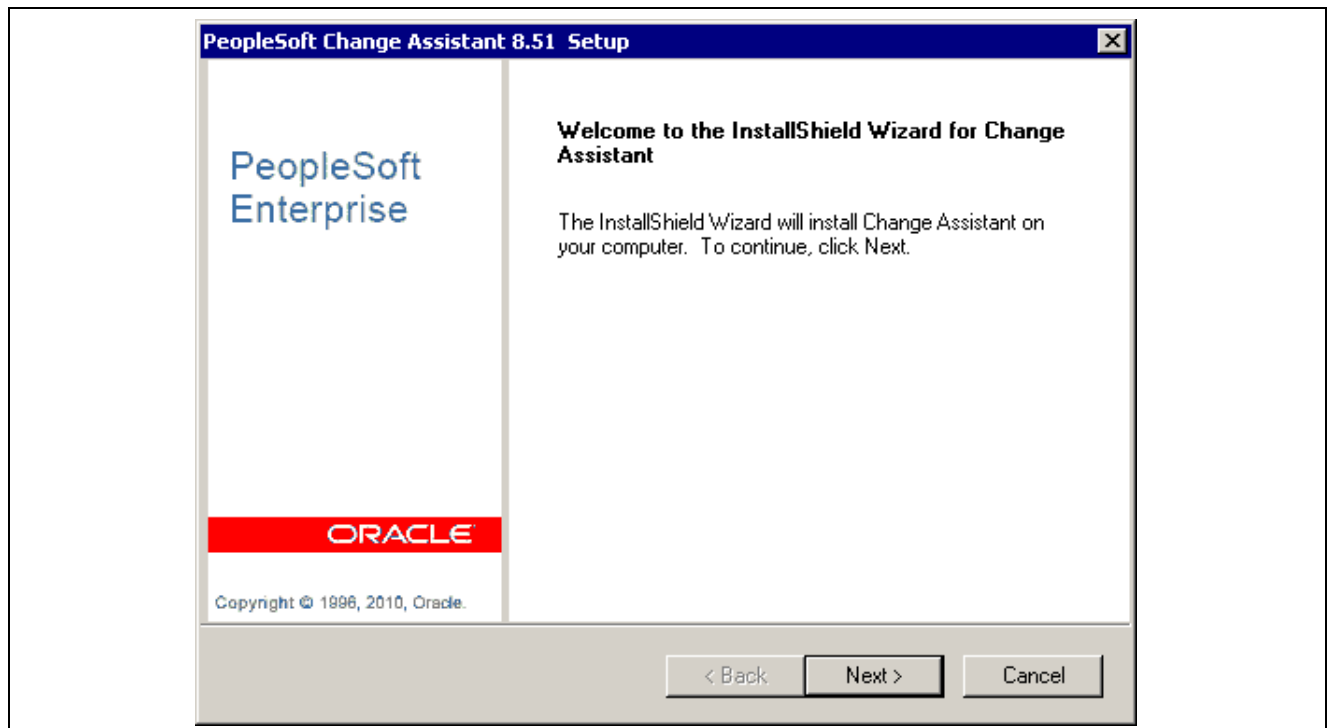
Note. A Microsoft Windows-based operating system is required to use PeopleSoft Change Assistant.

1. If there is a pre-8.51 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.

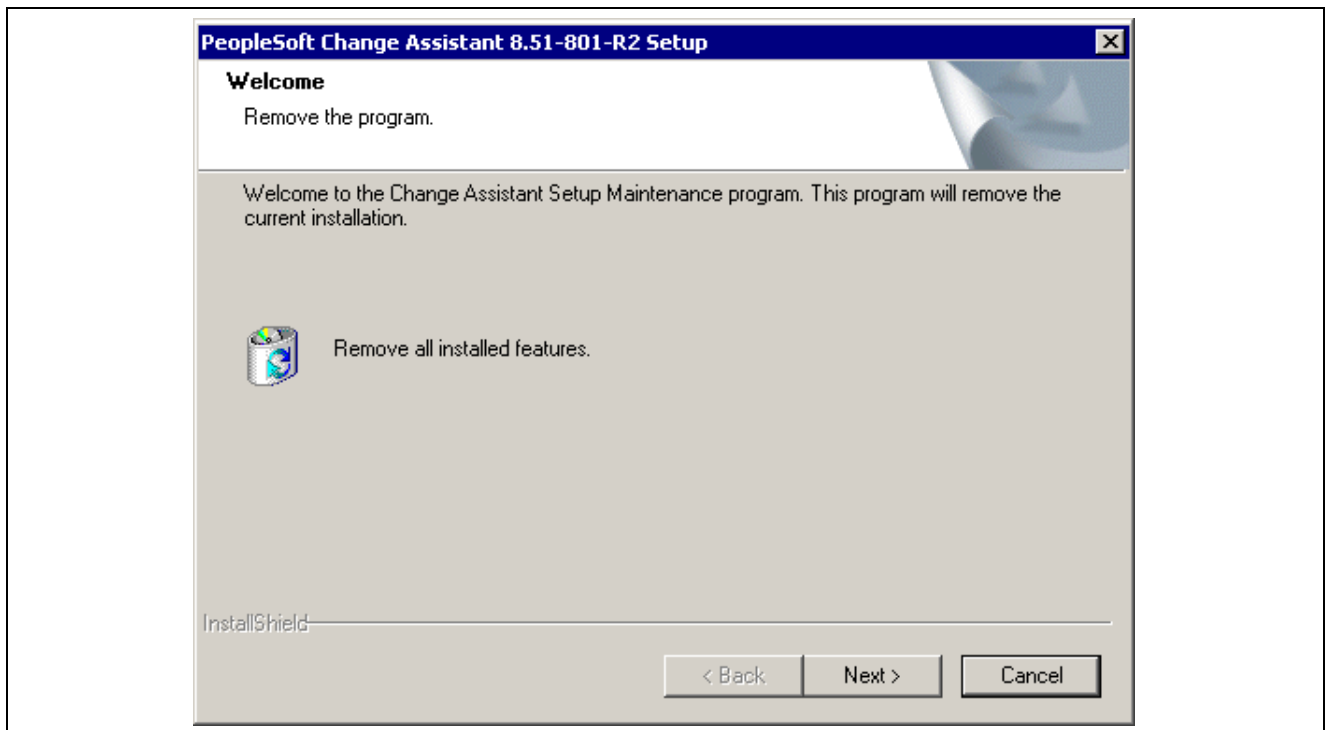
2. From the *PS_HOME*\setup\PsCA directory, run *setup.exe*.

Click Next on the Welcome window.



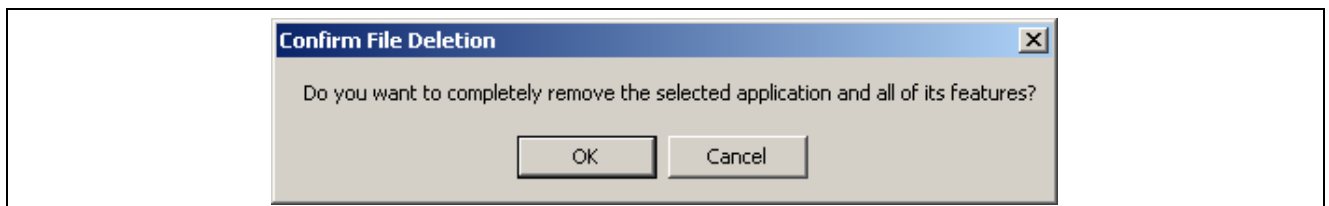
PeopleSoft Change Assistant Setup Welcome window

3. If there is an existing installation of PeopleSoft Change Assistant 8.51 a window appears that enables you to remove the existing installation.



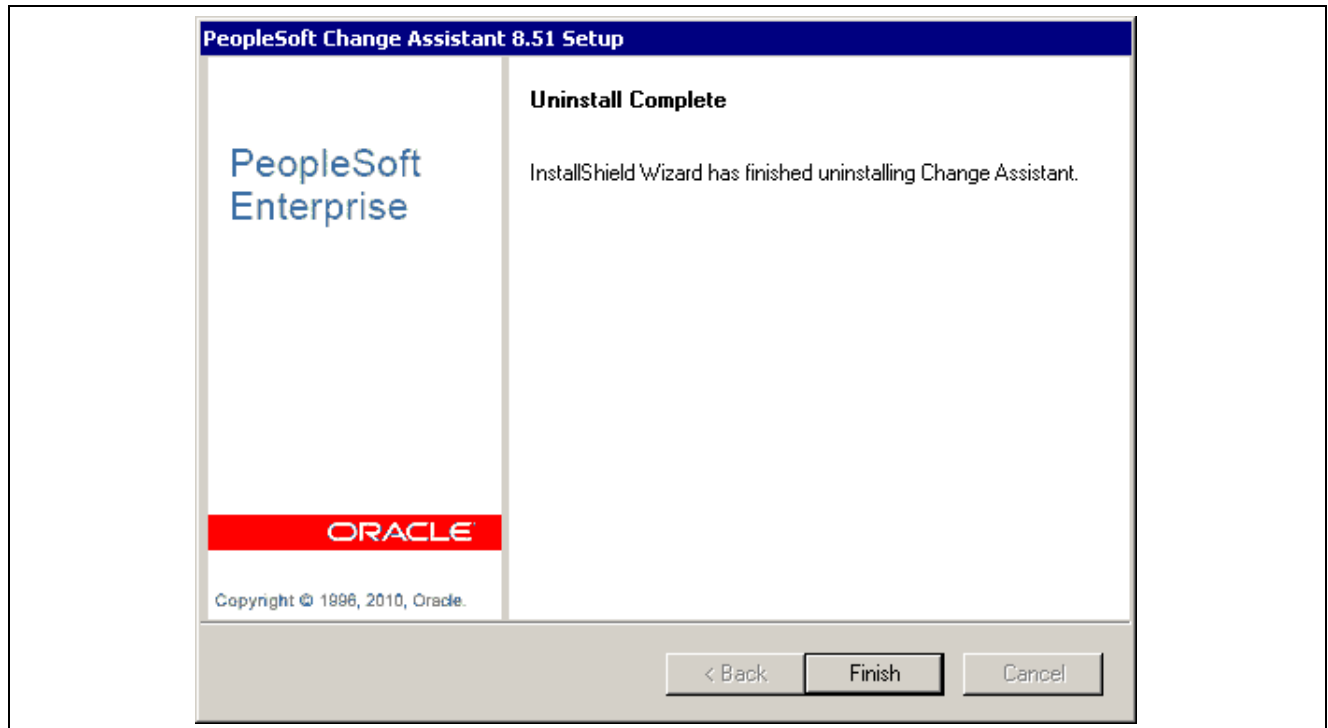
Window to remove the previous PeopleSoft Change Assistant installation

Click Next, and then click OK on the Confirm File Deletion dialog box. The question on the dialog box is “Do you want to completely remove the selected application and all of its features,” as seen in this example:



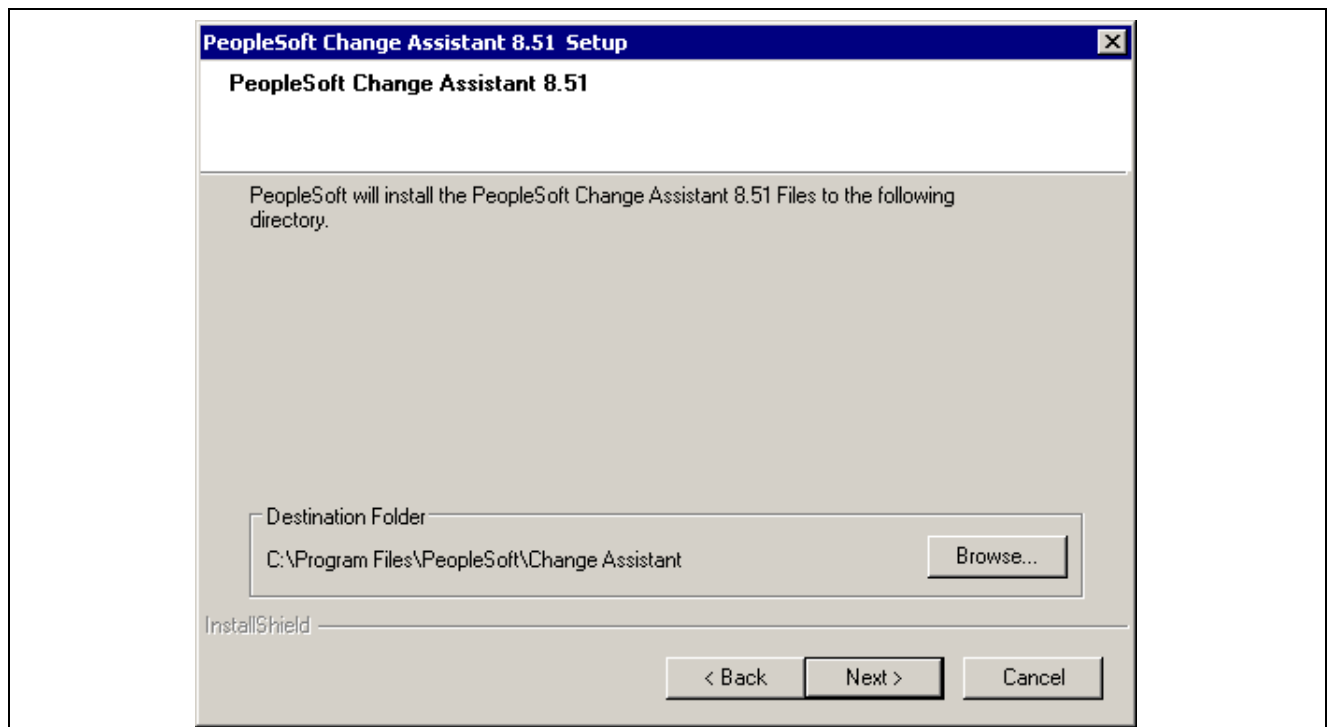
Confirm File Deletion dialog box

4. After the previous installation has been removed, click Finish.



PeopleSoft Change Assistant Uninstall Complete window

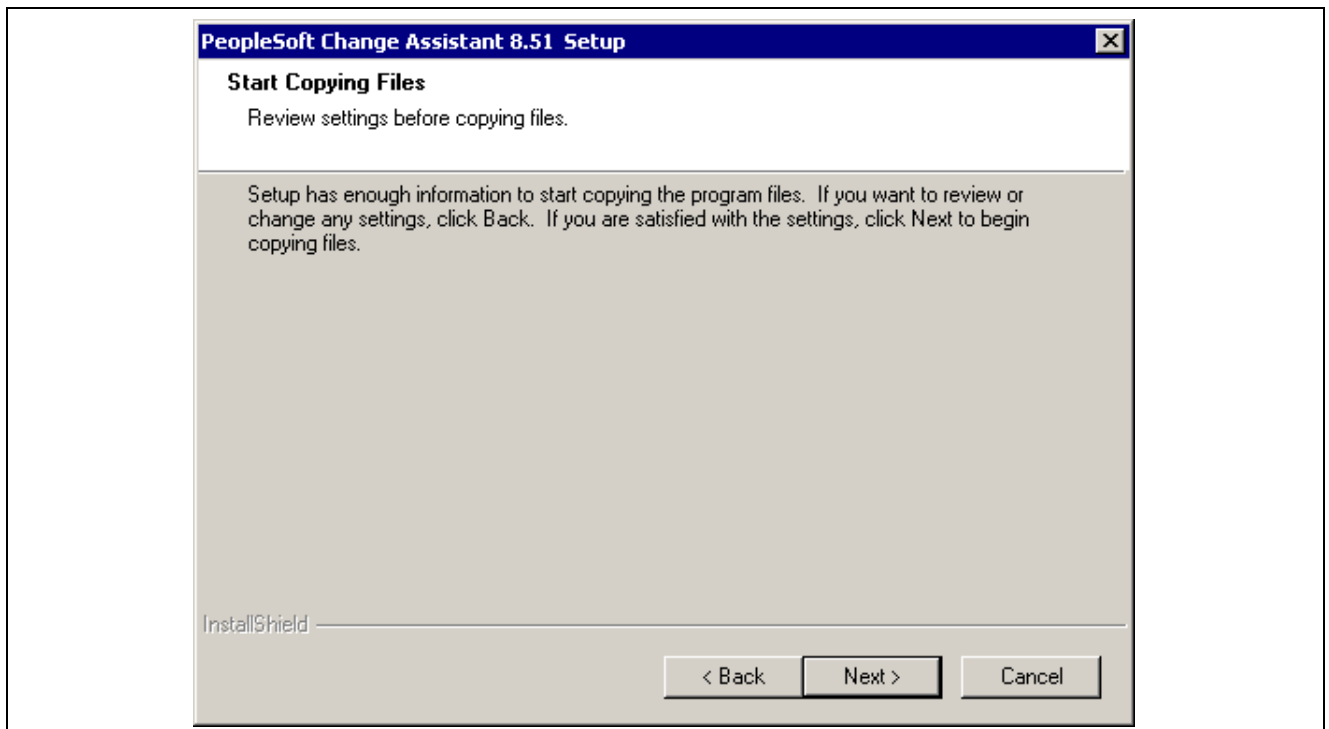
5. Go to *PS_HOME*\setup\PsCA directory again and run `setup.exe`.
The Welcome window seen in the first step appears. Click Next.
6. Accept the default Destination Folder or click the Browse button to specify another Destination Folder.



PeopleSoft Change Assistant Destination Folder window

7. Select Next.

The Start Copying Files screen appears.



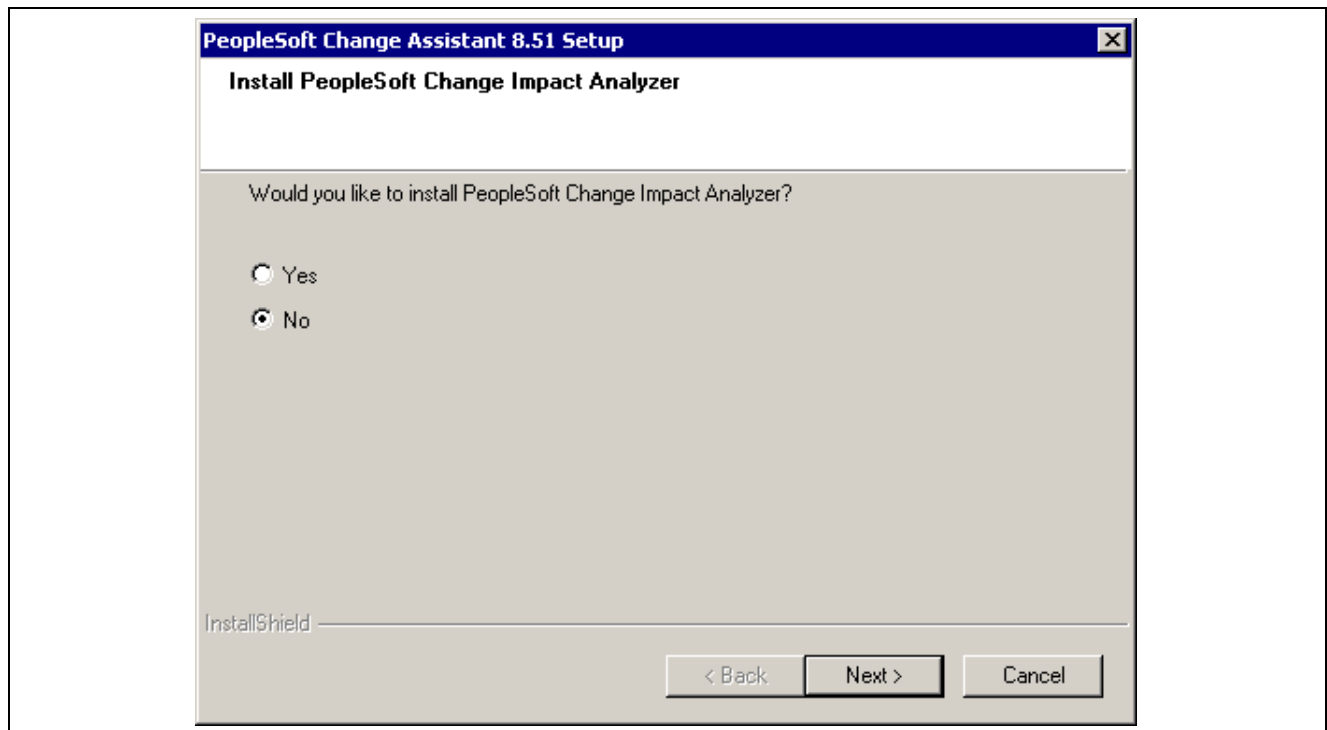
PeopleSoft Change Assistant Start Copying Files window

8. 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.

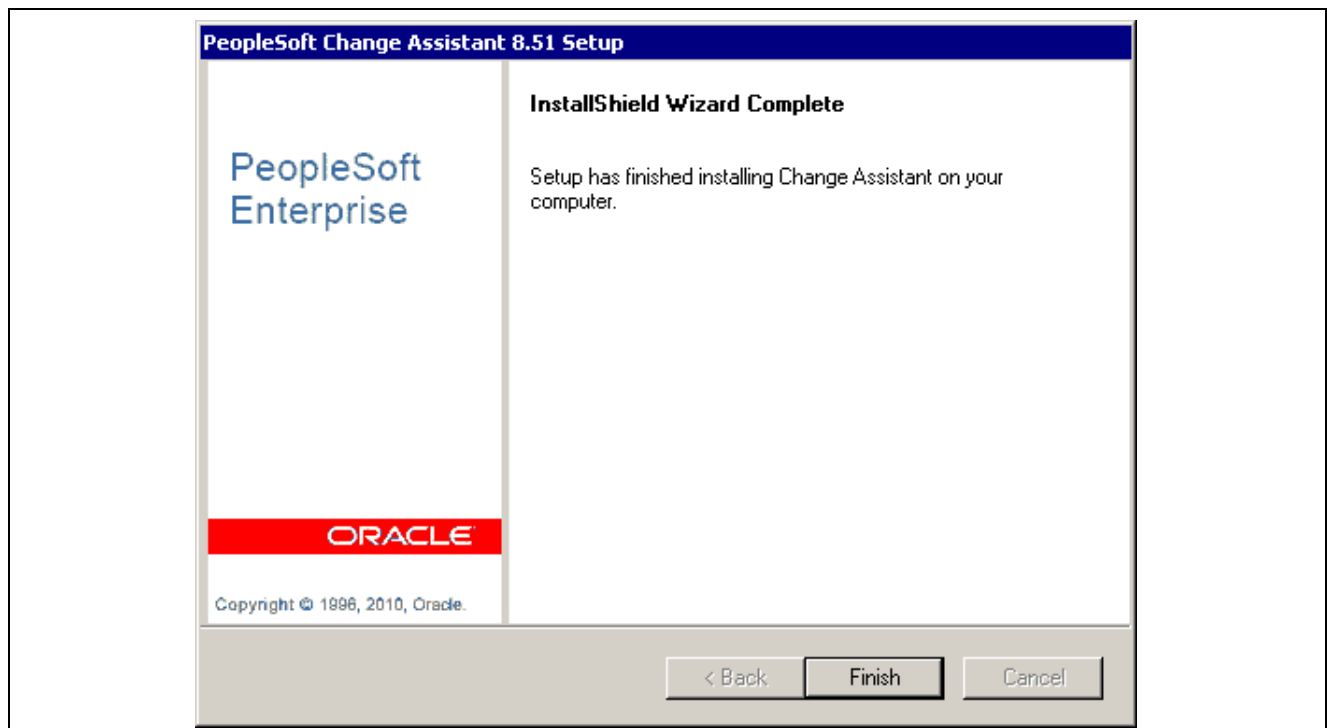
9. On the screen asking whether you want to install Change Impact Analyzer, select No, and click Next.

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 whether to install PeopleSoft Change Impact Analyzer

10. Click Finish to complete the installation process.



PeopleSoft Change Assistant installation complete window

11. Reboot your machine after the installation process is complete.

12. To start PeopleSoft Change Assistant, select Start, Programs, PeopleSoft 8.51, Change Assistant.

Task 13-1-2: Setting Up Security for PeopleSoft Change Assistant

To use PeopleSoft Change Assistant, you must configure your firewall settings so that the firewall does not filter PeopleSoft domain and IP names.

Note. When setting trust rules or bypass rules on your proxy server, or in browser security, it is easier to maintain rules by domain or IP subnet.

The following features must be set to allow access for PeopleSoft Change Assistant:

- *Domains*

We recommend that you set domain rules to allow access to *.*oracle.com*. In addition, allow access for the following domains:

- www.peoplesoft.com
- update.peoplesoft.com
- psft-updates.oracle.com
- www.oracle.com
- metalink3.oracle.com
- login.oracle.com

- *IP addresses*

Allow access for the IP address 141.146.8.119.

We recommend that you set IP rules at the subnet 141.146.54.0.

PeopleSoft Change Assistant uses SSL to connect at all times, but when you log in to My Oracle Support or Update Gateway through a browser only the login page is SSL.

Task 13-1-3: 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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Change Assistant*, "Configuring Change Assistant."

Task 13-1-4: 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.

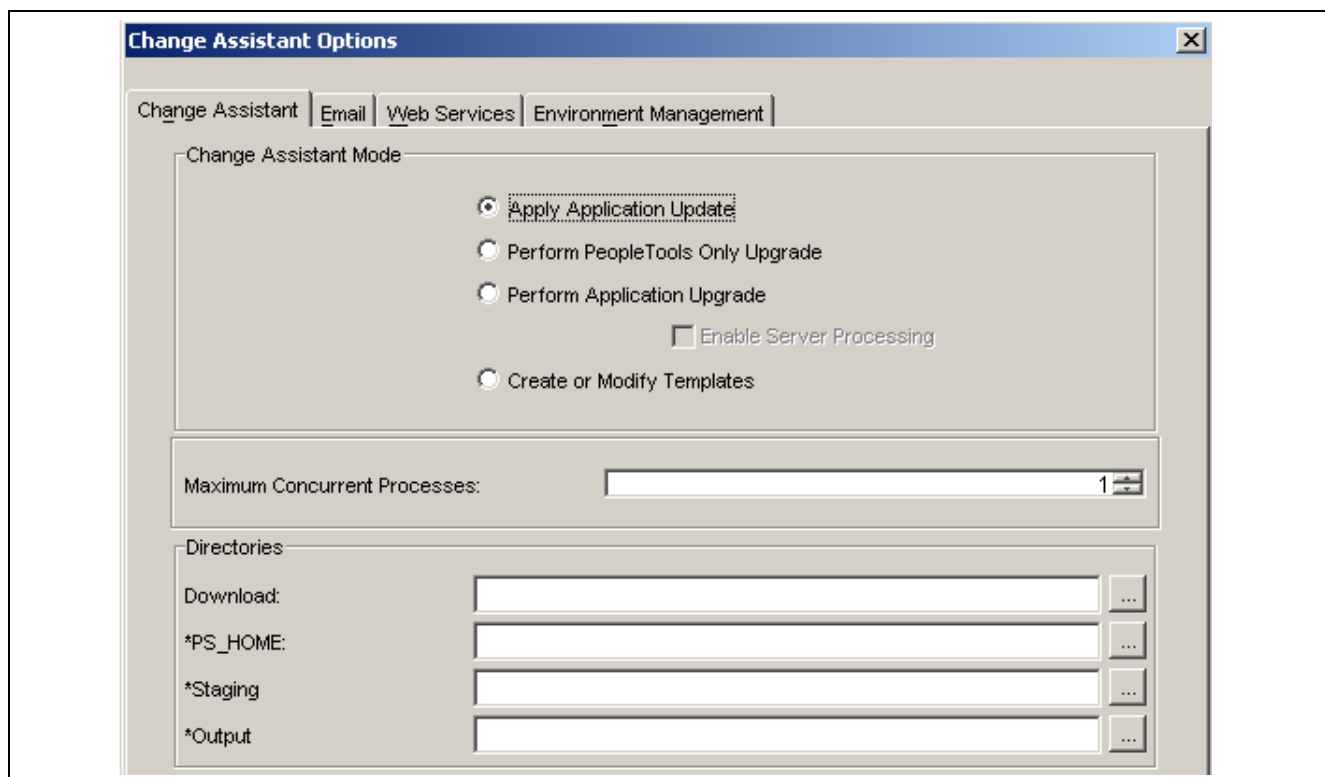
Task 13-2: Specifying Options

This section discusses:

- Specifying Change Assistant Options
- Setting Email Options
- Setting Up Web Services Options
- Setting Environment Management Options

Task 13-2-1: Specifying Change Assistant Options

This section describes options to set in Change Assistant. Select Tools, Options, Change Assistant.



Change Assistant Options window

Change Assistant Mode

Select one of the following radio buttons; the window changes depending upon the mode you choose:

- Apply Application Update
- Perform PeopleTools Only Upgrade
- Perform Application Upgrade
- Enable Server Processing

	Select this check box to enable Change Assistant to run Application Engine, Data Mover User, Data Mover Bootstrap, and SQL Scripts on Remote Agents as configured through Environment Management Framework as part of the Application upgrade.
	• Create or Modify Templates
Maximum Concurrent Processes	Specify the maximum number of processes that can be executed concurrently on the local machine. The default at installation time is one.
Download Directory	Enter the full path of the location to which you want to download your change packages.
*PS_HOME	Enter the full path of the directory in which you installed PeopleSoft PeopleTools.
*Staging Directory	Enter the directory in which you would like to stage all the Change Assistant update files. This is the location that Change Assistant will store files to be used during the apply update process.
*Output Directory	Enter the directory in which you want the log files generated by the update process to reside.

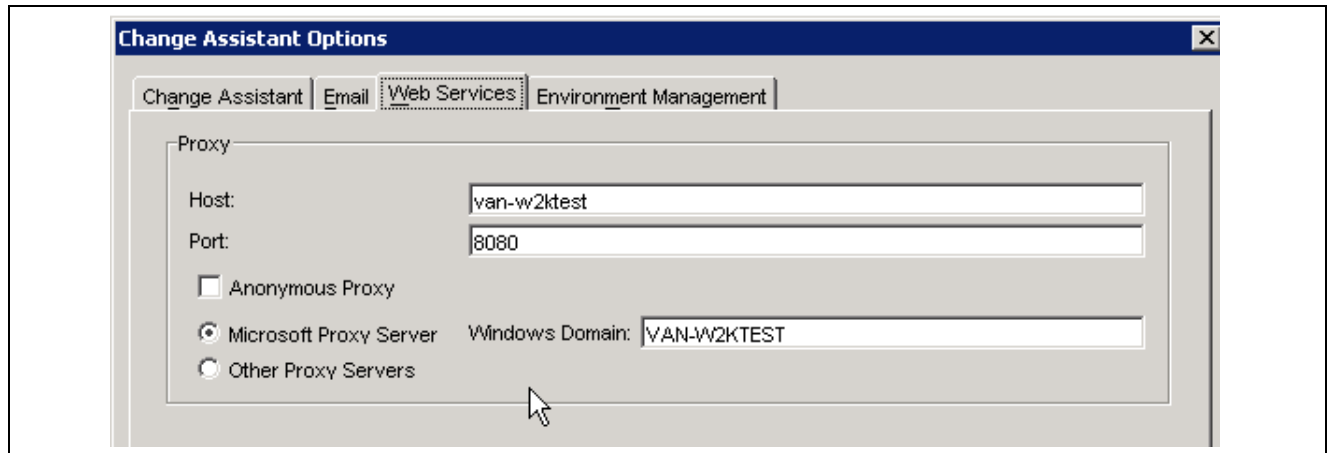
Task 13-2-2: Setting Email Options

Select Tools, Options, Email.

Send email notifications	Select this check box to receive email notifications if there are errors in the update process. Change Assistant also sends you a completion message when it encounters a <i>Stop</i> in the update process.
SMTP Server	Enter the SMTP mail server from which you receive the error or completion messages.
Port	Enter the port from which you want to access the email.
Send To	Enter the address to which you want the email sent.
Return Address	Enter the email address of the sender. Use this to identify who sent the notification.
Test	Use to validate that email is sent to the designated recipients and is working correctly

Task 13-2-3: Setting Up Web Services Options

Select Tools, Options, Web Services.



Change Assistant Options: Web Services tab

Host	(Optional) Enter the name of the proxy server if you want to run Change Assistant behind the firewall using a proxy server.
Port	(Optional) Enter the port number for the proxy server.
Anonymous Proxy	Indicates that you are using a proxy server that does not require authenticated connections.
Microsoft Proxy Server	Indicates that you are using a proxy server with Windows NT authentication.
Windows Domain	The domain to which you belong.
Other Proxy Servers	Indicates you are using non-Microsoft proxy servers.

Task 13-2-4: Setting Environment Management Options

Select Tools, Options, Environment Management.

Server Hostname	The hostname of the server in which the Environment Management components reside.
Server Port	Indicates the port in which to connect to the Environment Management hub.
Ping (button)	Click to verify a valid server URL. If you see “Service is off” to the right of this button, then you must correct the server URL and ping again until you see “Service is on.” This option is visible only if your display is set to Windows Classic style. To change the Windows display, select Programs, Control Panel, Display. Select the Appearance tab and choose Windows Classic style from the Windows and buttons drop-down list.
View (button)	Click to display the list of all PeopleSoft components discovered and registered in the Environment Management hub.
Note. This option is visible only if your display is set to Windows Classic style.	
Chunk Size	Used for deploying files during a software update. Default is 1024 * 1024 bytes. Typically this does not need to be changed unless there are a significant number of files greater than 1024 KB in a software update.

Ping Interval	Ping interval is in milliseconds for Change Assistant to contact the hub for new messages.
Drives to Crawl	Setting of drives to crawl to identify the configuration of the Change Assistant machine. Windows directories need to use the forward slash (/) character. Include your local drive in this setting so that Change Assistant can locate the SQL Query tool used for automating steps. Also include the path of the SQL Query tool.

Task 13-3: 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 13-4: 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:

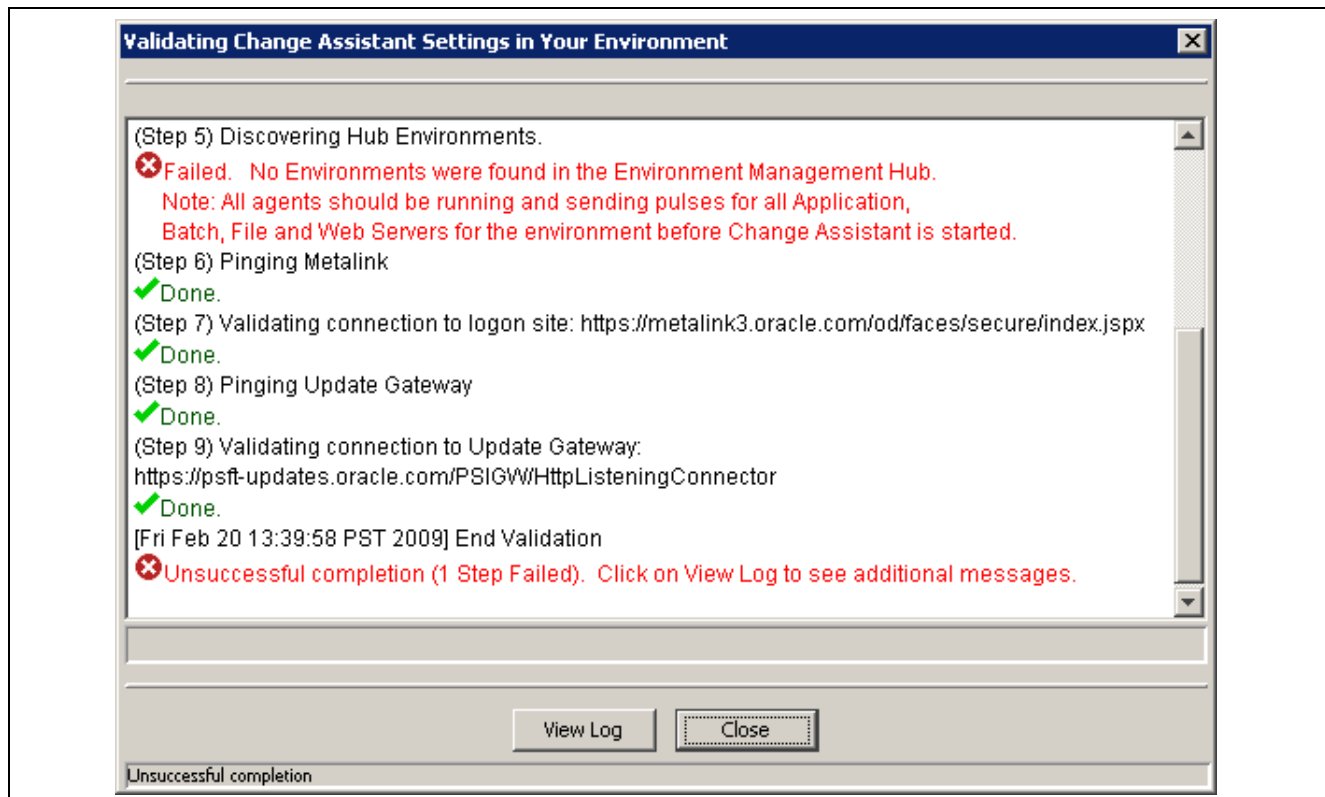
- Locating valid SQL query tools required to run SQL scripts.
- Testing the Environment Management hub and ensuring that PeopleSoft Change Assistant can communicate with it.
- Testing My Oracle Support and ensuring that PeopleSoft Change Assistant can communicate with it.

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 Oracle Global Customer 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 14

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.

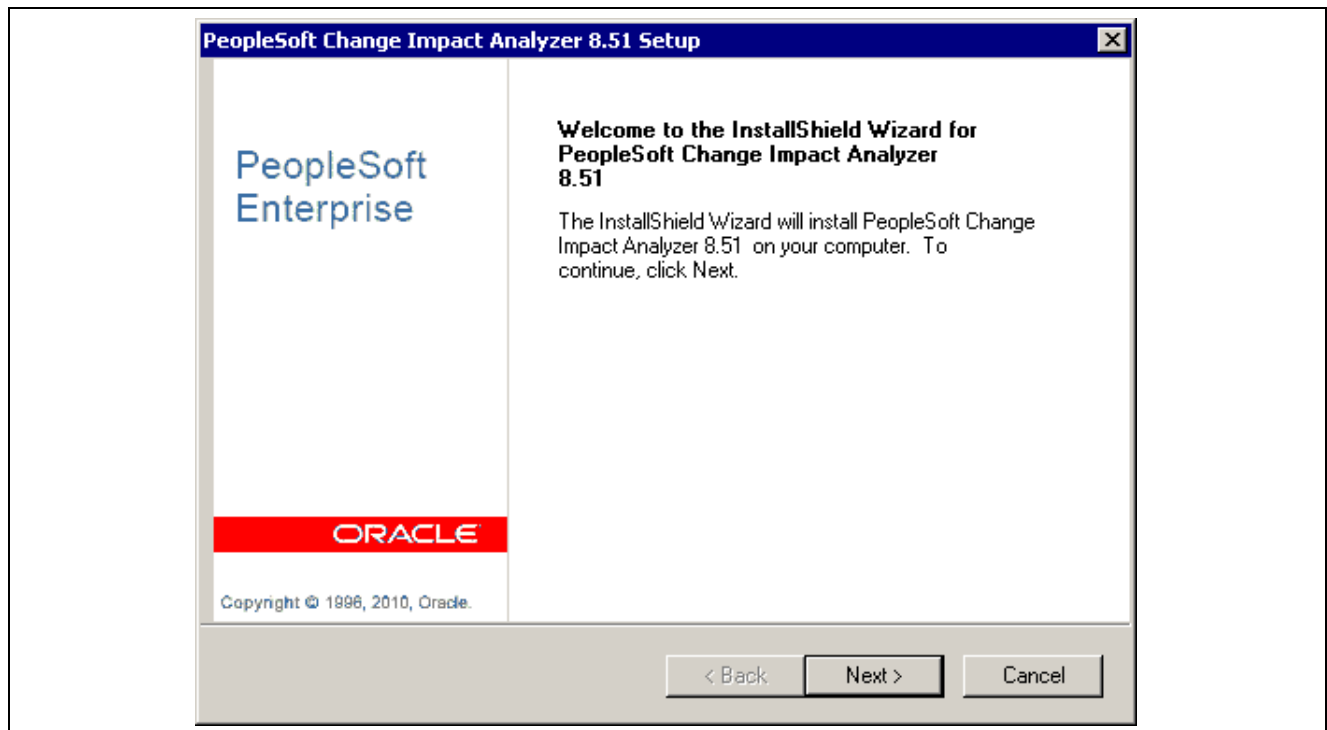
See Also

Enterprise PeopleSoft PeopleTools 8.51 PeopleBook: Change Impact Analyzer

Task 14-1: Installing PeopleSoft Change Impact Analyzer

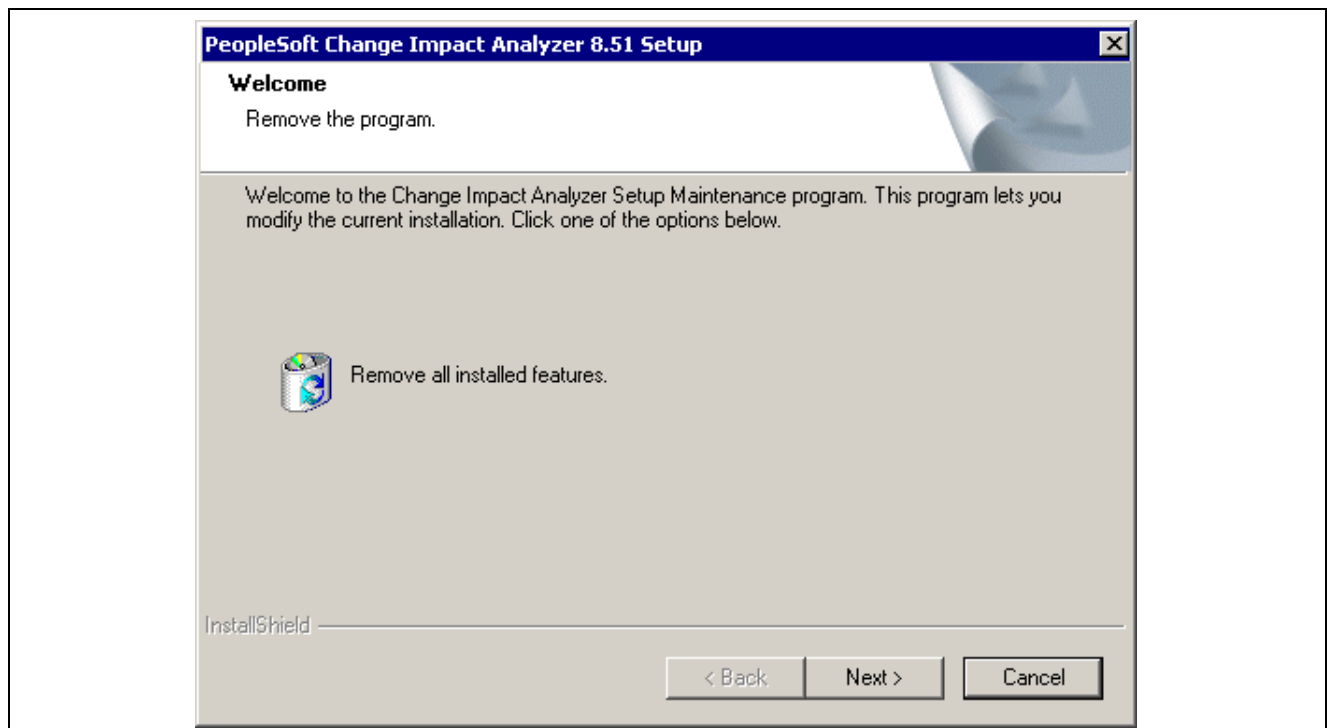
To install PeopleSoft Change Impact Analyzer and Rules Editor:

1. From the *PS_HOME\setup\PscIA* directory, run *setup.exe*.
A Welcome window appears.



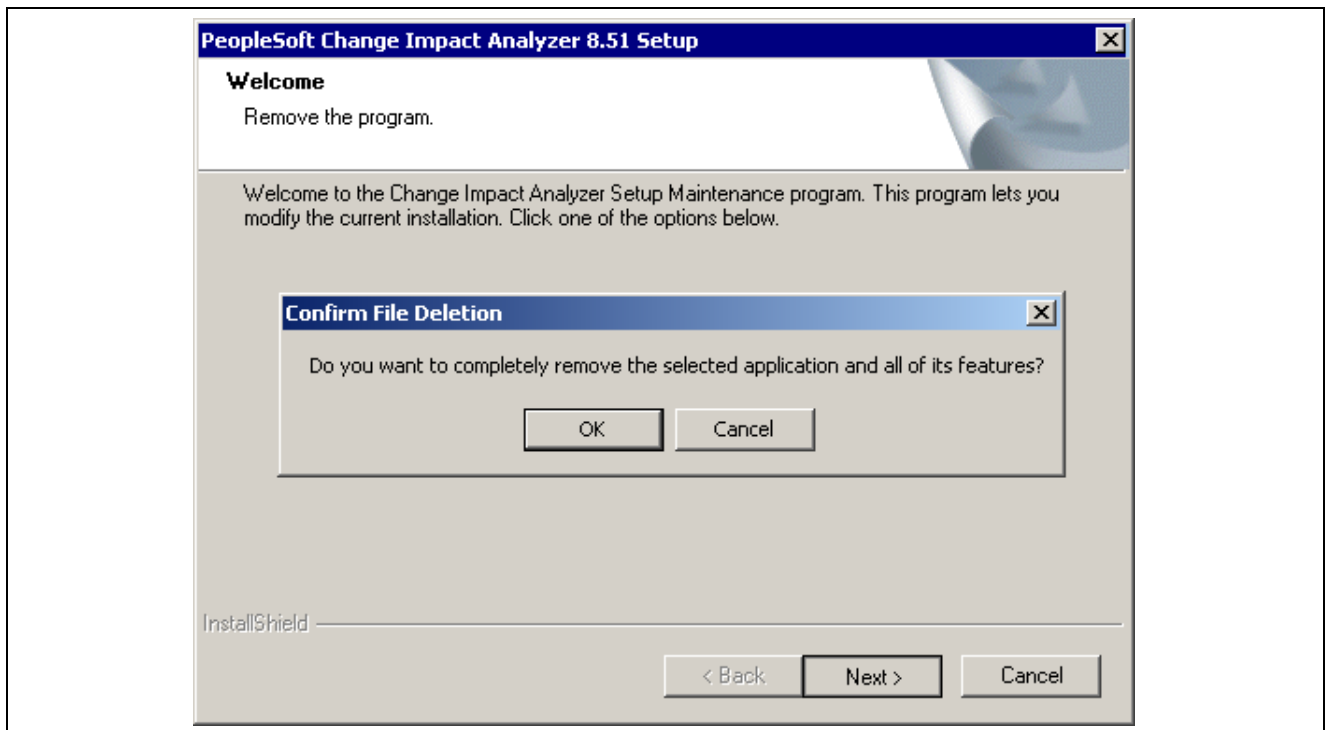
PeopleSoft Change Impact Analyzer Welcome window

2. If there is an existing installation of PeopleSoft Change Impact Analyzer on your machine, a screen appears telling you to remove it.



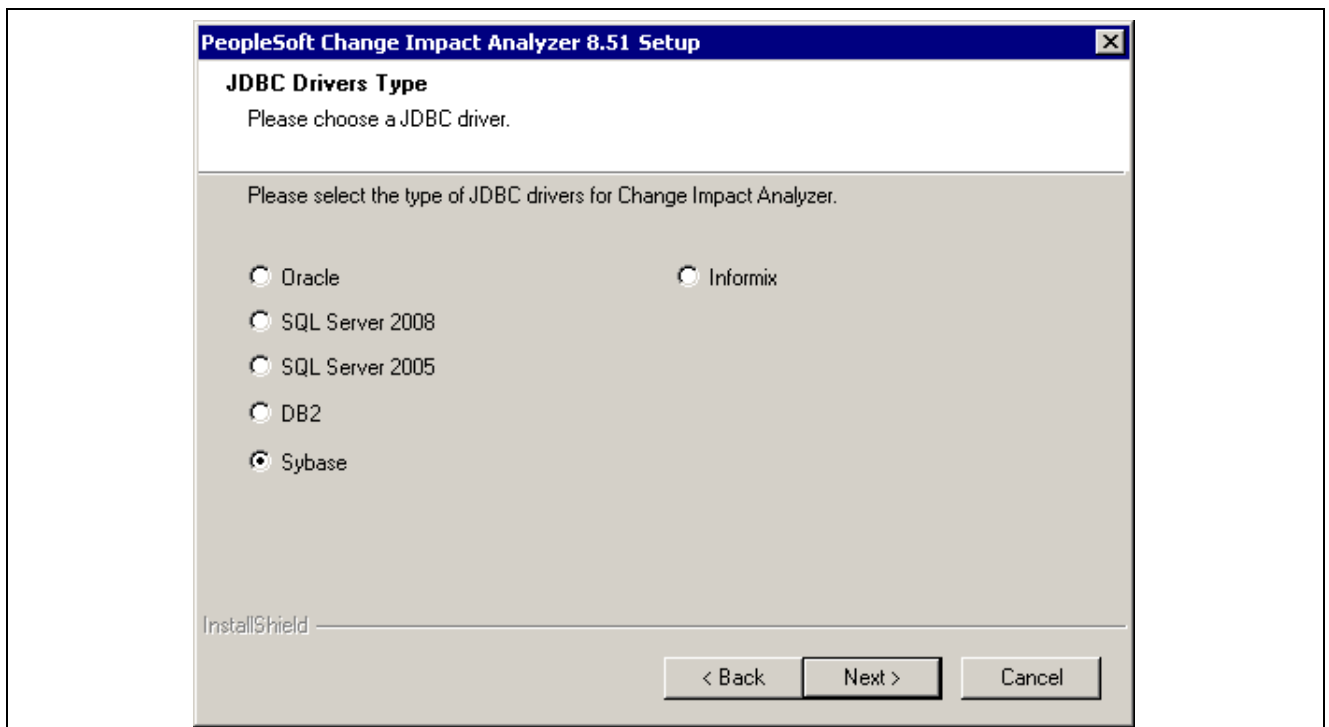
PeopleSoft Change Impact Analyzer Setup Maintenance window

Click Next, and then click OK on the Confirm File Deletion dialog box.



Confirm File Deletion dialog box for PeopleSoft Change Impact Analyzer

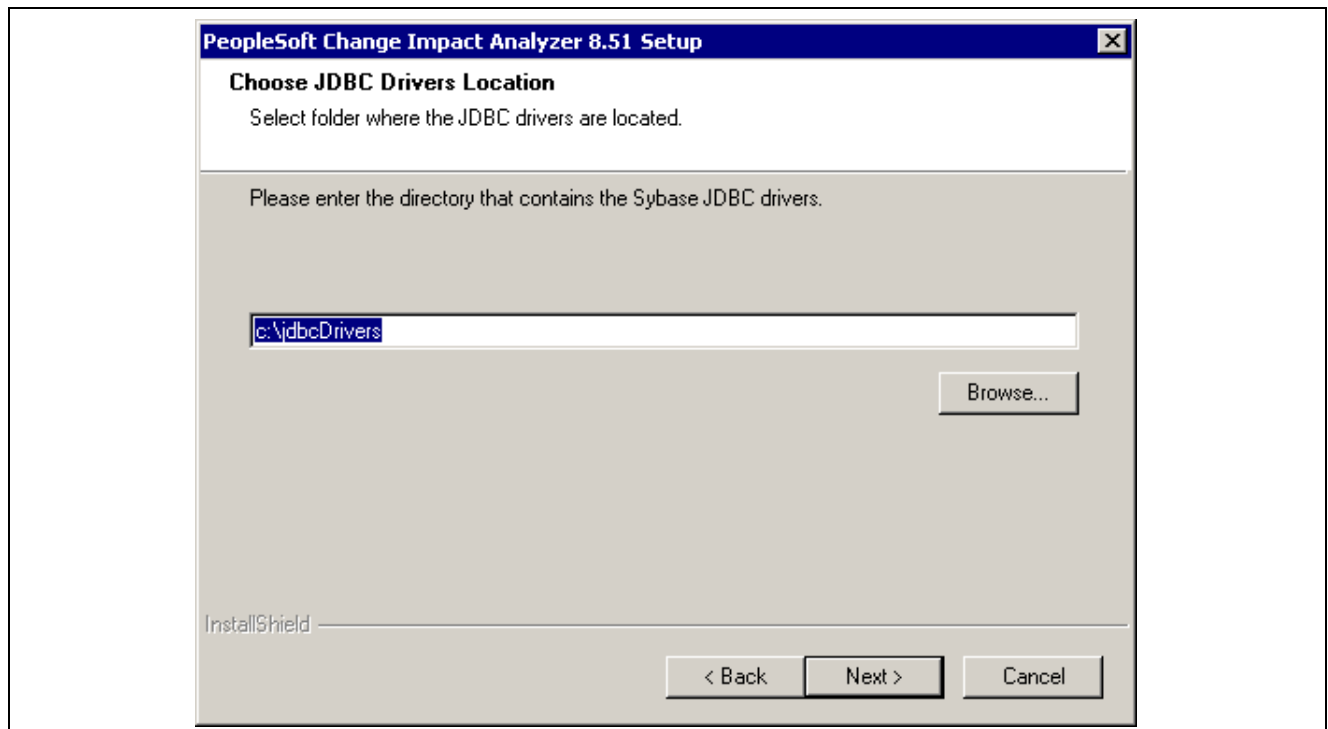
3. Run *PS_HOME\setup\PsCIA\setup.exe* again.
The Welcome window shown in step 1 appears.
4. Click Next on the Welcome window.
5. Select the JDBC drivers for your database platform.



PeopleSoft Change Impact Analyzer JDBC Drivers Type window

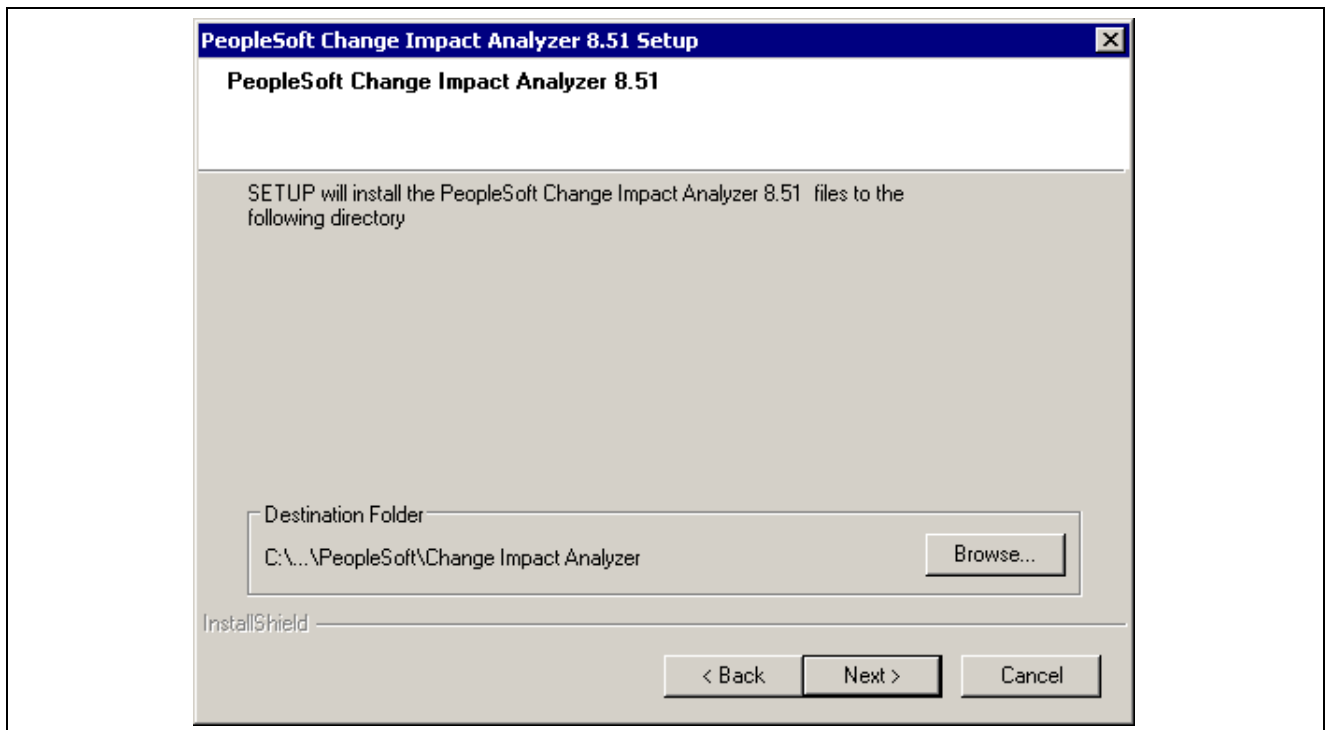
6. Browse to select the directory where the JDBC drivers are installed, or accept the default location.

The following example shows the location where the JDBC drivers are installed by default, %SYBASE%\jConnect-6_0.



PeopleSoft Change Impact Analyzer Choose JDBC Drivers Location window

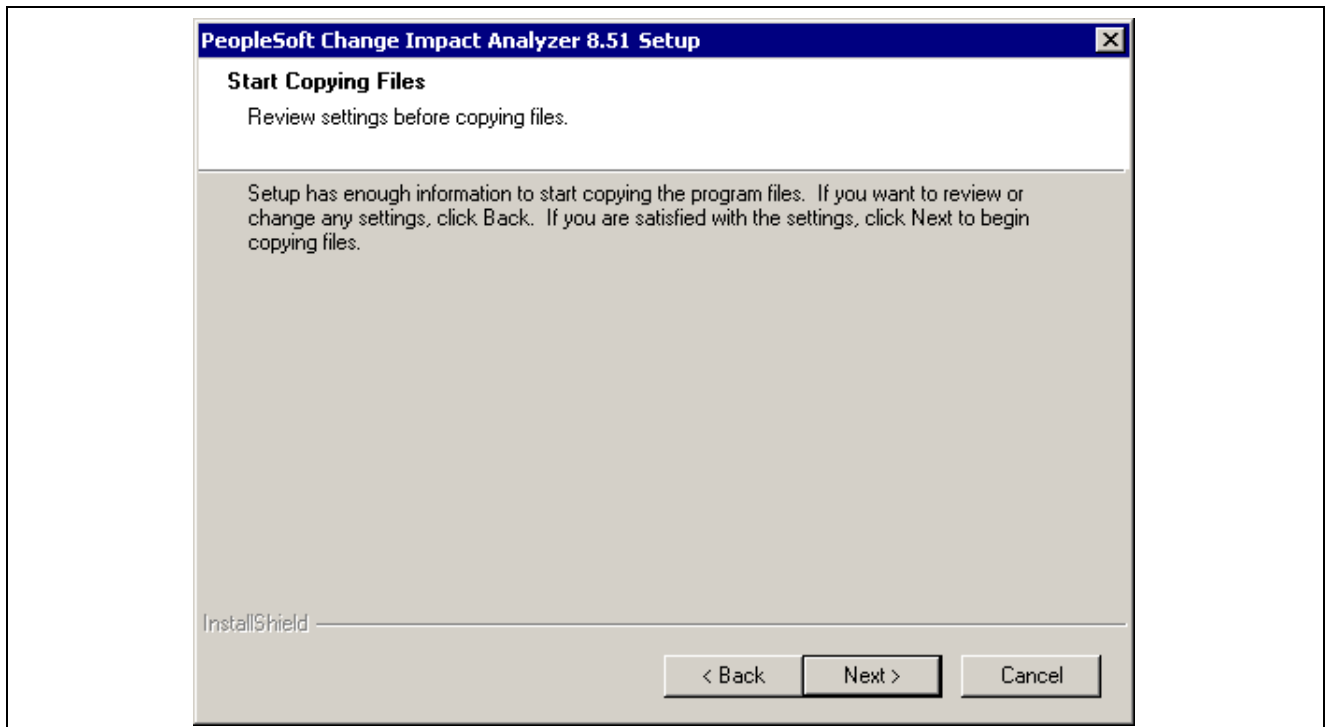
7. Browse to select the directory where PeopleSoft Change Impact Analyzer will be installed, or accept the default directory.



Specifying the PeopleSoft Change Impact Analyzer destination folder

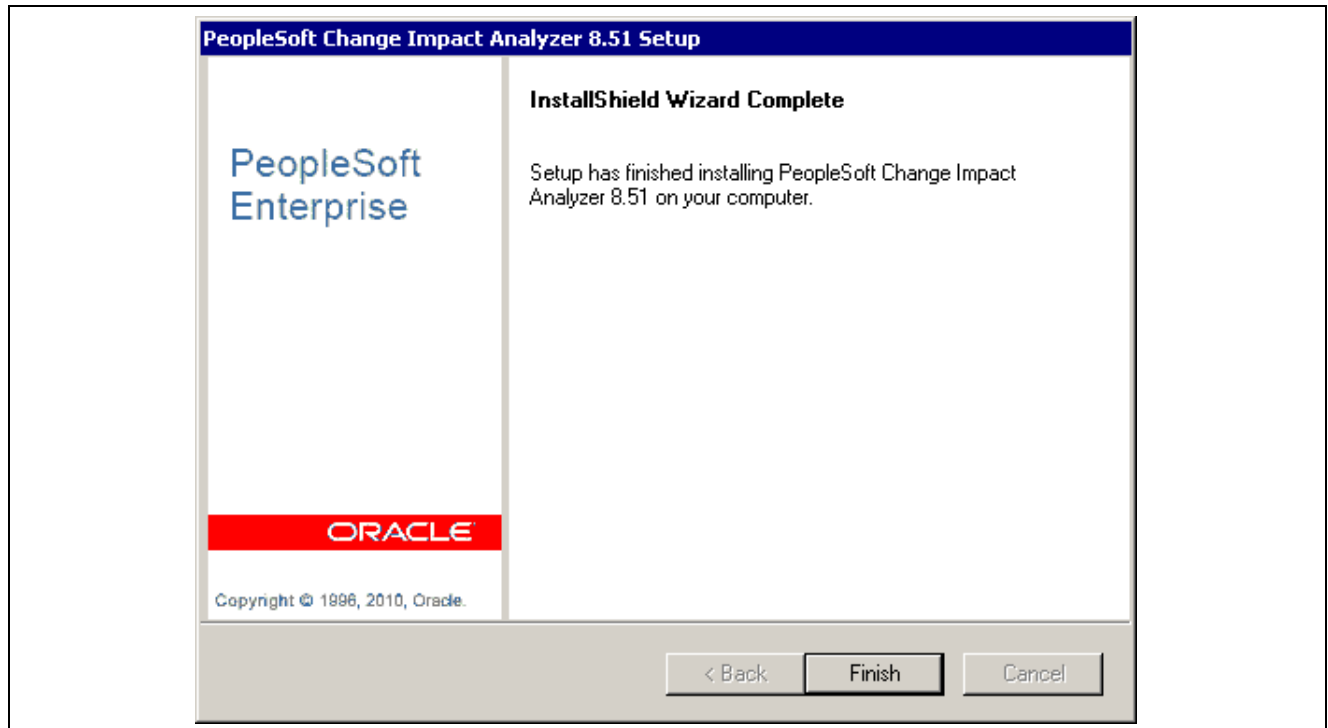
8. Click Back to review or change any settings.

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:



PeopleSoft Change Impact Analyzer Setup Complete window

10. To start PeopleSoft Change Impact Analyzer, select Start, Programs, PeopleSoft 8.51, Change Impact Analyzer.

APPENDIX A

Adding New Product Modules

This appendix discusses:

- Adding New Modules to PeopleSoft 8.4 Installations

Task A-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 HRMS and now you need to install Time and Labor.

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 (sign in as the accessid and password).

Data Mover is located in *PS_HOME\bin\client\winx86\psdmt.exe*.

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 back-up copies of your customizations.

12. Compile and link COBOL.

See Compiling COBOL.

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 HRMS, CRM, Financials/Supply, and so on. (For HRMS the navigation is Setup <apptype>, Install, Installation Table.)

14. Run the DDDAUDIT and SYSAUDIT SQRs.

See "Creating a Database."

15. Shut down all application servers.

16. Install software to your application server.

See "Configuring the 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."

APPENDIX B

Creating a Database Manually

This appendix discusses:

- Understanding Database Creation
- Understanding Sybase and PeopleSoft Databases
- Running Server Configuration Scripts
- Creating Sybase Disk Initialization
- Increasing the Size of Tempdb
- Creating the Sybase Database
- Setting Up Connect ID
- Creating Data Mover Import Scripts
- Running Data Mover Import Scripts
- Updating Database to Latest PeopleTools Release
- Running Additional Data Mover Scripts
- Installing a Multilingual PeopleTools System Database
- Running VERSION Application Engine Program
- Changing the Base Language
- Running SQR Reports
- Checking the Database
- Running Alter Audit
- Backing Up the PeopleSoft Database

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 database has no company specific data, and can be used to load your data and begin development of your production database.
- *Demo:* The Demo 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.

Note. You must install your ASE server with the iso_1 character set. The 16 KB page and 2 KB page size is not supported on PeopleSoft databases on PeopleSoft PeopleTools 8.44 and above.

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.

Note. If you are running Sybase from HP, verify that your environment variable LC_ALL at the client has a character set of iso88591—for example, american.iso88591. Otherwise, accented characters may appear incorrectly in PeopleSoft Pure Internet Architecture.

Understanding Sybase and PeopleSoft Databases

This chapter uses the terms “Sybase database” and “PeopleSoft database.”

A “PeopleSoft database” is a set of SQL objects defined as having the same owner ID. These objects are always within a single Sybase database. A PeopleSoft database includes the PeopleSoft objects and application data for one or more products in a PeopleSoft product line.

Sybase has the concept of a “dataserver.” You can find the dataserver name in the \$SYBASE/Interfaces file on a UNIX machine or the SQL.INI file on a Windows machine. There is also an associated port number assigned when you define a dataserver. A dataserver can contain multiple PeopleSoft databases, each of which is defined as a separate Sybase database.

Each PeopleSoft database needs a database owner, the *PeopleSoft OwnerID*. This OWNERID is the database owner (DBO); additionally, the login should be a system administrator with the sa_role.

For the Sybase platform, the Owner ID is the same as the PeopleSoft Access ID. This ID appears in the following tables.

Table Name	Column Name
[owner id].PSSTATUS	OWNERID
[owner id].PSACCESSPRFL	ACCESSID

Each PeopleSoft database needs its own PeopleSoft database name. Users enter this database name, as well as the dataserver name, during the PeopleSoft logon process. It appears in the following locations.

Location	Reference
PeopleSoft Signon screen	Database
Database server, batch server, application server	Sybase server name. SQL.INI file at database clients

This table includes examples of four PeopleSoft databases and the corresponding PeopleSoft database name, access IDs, and password. The four databases could exist on one dataserver, or each database could reside on separate dataservers. Keep in mind that if you put multiple databases on the same dataserver, they will share the same tempdb and master database.

Database Use	PeopleSoft Database Name	Access ID (Sybase sa)	Owner/Access password
Testing	PFTST	sa	sa password
Development	PFDVLP	sa	sa password
Training	PFTRAIN1	sa	sa password
Production/ Training	PFPROD	sa	sa password

The levels of security provided by Sybase are as follows:

- The Sybase dataserver.
- The Sybase database.
- The Sybase object.

See *Sybase Adaptive Server System Administration Guide*

The sa (system administrator) login is a special login that is created during the Sybase installation process. The sa login owns the server, although you can use roles to transfer sa authority to other logins. The sa login also owns the system databases (master, model, tempdb, sybssystemprocs). The sa login has its capabilities as a result of roles that have automatically been granted to the login as part of the Sybase dataserver installation. The roles granted to the sa are sa_role and sso_role.

Note. We do not recommend using the sa login as an access id. Please define another system administrator for this purposes.

DBO refers to the database owner, the creator of a database, or to someone who claims database ownership. For simplicity, we will be using sa as the DBO in the examples. In production environments, DBO and sso_role should be transferred to a user who assumes database ownership. Only a few selected users should be granted sa and sa_role due to the unrestricted access they assume.

Task B-1: Running Server Configuration Scripts

The database installation may require server configuration changes on your Sybase 15.0 server. You apply these changes by running the script spconfig.sql, which is located in *PS_HOME/scripts*.

Be sure to read the file and verify that the parameters will work in your site. The parameter values delivered are only intended for a Demo database with a very basic install and may require customization. It is common to have to change or increase the value for some parameters.

Be aware that the DBA (or appropriate person) on your site needs to carefully examine the provided scripts and consider the appropriate modifications for your site.

Compare these settings with the sp_configure output on the Sybase dataserver. If the values in the script are higher than those on the dataserver, consider setting the higher values in the script.

Run the spconfig.sql script against the Master database.

Note. The default values specified in spconfig.sql are valid for a Demo database. Before running the script, make sure you have adjusted it for your particular installation.

To run the server configuration scripts:

1. Open the script, which is located in the *PS_HOME/scripts* directory.
2. Edit the script to adjust it for your particular installation—changing the number of locks, total memory, and so on as needed.

For example, it is common to configure the number of locks in a server to a minimum of 400,000 for a system database and a minimum of 800,000 for a demo database.

3. Save the script.
4. Run the script using *spconfig.sql*:

```
isql -e -U<username> -P<password> -S<servername> -i spconfig.sql -o CONFIG.OUT
```

The parameters are defined as follows:

-e	echo the statement being executed
-U	<username>
-P	<password>
-S	<servername>
-i	<input script name>
-o	<output script name>

Task B-2: Creating Sybase Disk Initialization

This task covers various SQL scripts that you need to execute against the Sybase dataserer. PeopleSoft recommends using Sybase ISQL or a Windows utility provided with the Sybase product, or you can choose another utility to execute the provided scripts. Be aware that the DBA (or appropriate person) on your site needs to carefully examine the provided scripts and consider the appropriate modifications for your site.

PeopleSoft recommends that you create output files to retain the results of the provided scripts. If you decide to use Sybase Central on Windows to configure your dataserer, make sure you study and understand the scripts. To ensure that you have the required configurations, run the provided scripts; they are less prone to omissions and typos.

Note. PeopleSoft strongly recommends that you run the scripts we provide.

The following example presents an ISQL sample:

```
isql -e -Usa -Psa_passwd -SSYBSERVER -i diskinit.sql -o diskinit.out
```

Where the parameters are:

-e	echo the statement being executed
-U	<username>
-P	<password>
-S	<servername>

```

-i          <input script name>
-o          <output script name>

```

You need to allocate disk space on Sybase before creating a database. To do so, issue the *disk init* command. The space allocated on UNIX can be defined on a file system or a raw device. Refer to both the Sybase Installation guide and the Sybase Troubleshooting guide for details on “raw devices” versus “file systems.” We recommend that you use separate devices for the data portion and log portion of the database.

The tempdb is a Sybase database defined within the dataserver. You need to increase the size of the tempdb from the default size (2 MB). Also, define the space on a separate device. In determining the size of tempdb, consider the number of databases using tempdb, the number of users, and the largest data sort size. PeopleSoft recommends *at least* 200 MB per database; this is a minimum amount—more may be required.

A script named diskinit.sql, in *PS_HOME/scripts*, is provided with the PeopleSoft installation to initialize your disk space. The following example presents a Sybase disk initialization diskinit.sql script provided as part of the installation. Modify this script to assign the proper device names and size required for your site. This script has several changes from previous versions; please be sure to review the script carefully before its execution.

Note. A size of 4 GB for your data device, 1 GB for your log device and 200 MB for your tempdb is not uncommon. You may need more or less space depending on the products you have installed.

Note. It is normal for some processes to require a log file size of about 30 percent of your data device size.

The following sample *disk init* command “initializes” the following:

- Disk space for data portion of a new database
- Disk space for the log portion of a new database
- Disk space for the tempdb

```

-- Initialize data portion of new database.
disk init
    name = "<DATADEVICE>",
    physname = "<DATADEVICE_FILE_PATH>/<DATADEVICE>.dat",
    size = <DATADEVICE_SIZEONMB>M
go
-- Initialize log portion of new database.
disk init
    name = "<LOGDEVICE>",
    physname = "<LOGDEVICE_FILE_PATH>/<LOGDEVICE>.dat",
    size = <LOGDEVICE_SIZEONMB>M
go
-- Initialize space to increase tempdb.
disk init
    name = "<TEMPDEVICE>",
    physname = "<TEMPDEVICE_FILE_PATH>/<TEMPDEVICE>.dat",
    size = <TEMPDEVICE_SIZEONMB>M
go

```

Note. The last part of the script initializes disk space to increase your tempdb. If you already increased and relocated your tempdb, you do not need to do it again. Please comment out, but do not remove, the following section of the script: “-- Initialize space to increase tempdb.”

```
disk init

name = "<TEMPDEVICE>",
physname = "<TEMPDEVICE_FILE_PATH>/<TEMPDEVICE>.dat",
size = <TEMPDEVICE_SIZEONMB>M

go
```

Task B-3: Increasing the Size of Tempdb

Running the TEMPDB.SQL script allows you to increase the size of the tempdb database from the default size on the master device and drop tempdb access from the master device. Before running the script you need to make the following modifications:

- Change <TEMPDEVICE> to the proper device name, which is defined in diskinit.sql or defined by your DBA, previously, according to your site.
- Enter the appropriate size , <TEMPDEVICE_SIZEONMB>.

Note. Run the script using ISQL against the master database.

Here is a sample TEMPDB.SQL

```
ALTER DATABASE tempdb
ON <TEMPDEVICE> = <TEMPDEVICE_SIZEONMB>
go
use tempdb
go
sp_dropsegment "default", tempdb, master
go
sp_dropsegment "logsegment", tempdb, master
go
sp_dropsegment "system", tempdb, master
go
```

Note. You do not need to run this script if you previously extended and reallocated the tempdb in your Sybase server.

Task B-4: Creating the Sybase Database

This section discusses:

- Understanding Sybase Database Creation
- Running CREATEDB.SQL

- Running ADDOBJ.SQL
- Running UPDSTATS.SQL

Understanding Sybase Database Creation

To create the Sybase database, you need to modify and then run the following three scripts:

- CREATEDB.SQL, which creates the PeopleSoft database definition.
- ADDOBJ.SQL, which creates user-defined datatypes and system catalog views that are necessary to run the PeopleSoft application.
- UPDSTATS.SQL, which creates a stored procedure for later use in running update statistics.

These files are on your UNIX database server in the *PS_HOME/scripts* directory.

Task B-4-1: Running CREATEDB.SQL

The CREATEDB.SQL script creates the PeopleSoft database definition. Before executing this script, make the following modifications:

- Modify the <DBNAME> to reflect the appropriate database name. Your database name must be UPPERCASE and must not exceed eight characters.
- Modify <logical-device-name> to reflect the proper device name.
- Modify <megabytes-data> to reflect the proper size.
- Optionally modify the *truncate log on checkpoint* option ('trunc', true).

If you don't enable the *truncate log on checkpoint* setting, the log will require enough space to load the entire database. When a database is in production, this option should be set to "false."

Note. PeopleSoft requires that you set the db_options—'ddl in tran' and 'allow nulls'—to true.

Note. The user chosen to create the PeopleSoft database is frequently the database owner and therefore serves as the Access ID. If this is the case, make sure the Access ID and its password do not exceed eight characters in length. This is a PeopleSoft requirement for the Access ID.

The following listing shows CREATEDB.SQL:

```
create database <DBNAME>
    on <logical-device-name> = <megabytes-data>
    log on    <logical-device-name> = <megabytes-log>
go

sp_dboption <DBNAME>, 'trunc',true
go
sp_dboption <DBNAME>, 'ddl in tran',true
go
sp_dboption <DBNAME>, 'select into',true
go
sp_dboption <DBNAME>, 'allow nulls',true
go
```

```

use <DBNAME>
go
checkpoint
go

```

Task B-4-2: Running ADDOBJ.SQL

The ADDOBJ.SQL script creates user-defined datatypes and system catalog views that are necessary to run the PeopleSoft application. Before executing this script, modify the “use <DBNAME>” parameter to reflect the correct database name for your site.

The following listing shows ADDOBJ.SQL:

```

use <DBNAME>
go
IF EXISTS (SELECT 'X'
            FROM systypes
            WHERE name = 'PSDATE')
    EXEC sp_droptype PSDATE
go
EXEC sp_addtype PSDATE, datetime, null
go
IF EXISTS (SELECT 'X'
            FROM systypes
            WHERE name = 'PSDATETIME')
    EXEC sp_droptype PSDATETIME
go
EXEC sp_addtype PSDATETIME, datetime, null
go
IF EXISTS (SELECT 'X'
            FROM systypes
            WHERE name = 'PSTIME')
    EXEC sp_droptype PSTIME
go
EXEC sp_addtype PSTIME, datetime, null
go
IF EXISTS (SELECT 'X'
            FROM sysobjects
            WHERE name = 'SYSCOLUMNS'
            AND type = 'V')
    DROP VIEW SYSCOLUMNS
go
CREATE VIEW SYSCOLUMNS(ID, NAME, COLID, LENGTH, SCALE, STATUS, USERTYPE,
PREC)
AS
SELECT id, name, colid, length, scale, status, usertype, prec
FROM syscolumns
go

IF EXISTS (SELECT 'X'
            FROM sysobjects

```

```

        WHERE name = 'SYSINDEXES'
        AND type = 'V')
    DROP VIEW SYSINDEXES
go
CREATE VIEW SYSINDEXES(ID, NAME, INDID, KEYCNT, STATUS)
AS
SELECT id, name, indid, keycnt, status
FROM sysindexes
WHERE indid <> 0 and indid <> 255
go
IF EXISTS (SELECT 'X'
           FROM sysobjects
           WHERE name = 'SYSOBJECTS'
           AND type = 'V')
    DROP VIEW SYSOBJECTS
go
CREATE VIEW SYSOBJECTS(NAME, ID, TYPE)
AS
SELECT name, id, type
FROM sysobjects
go
IF EXISTS (SELECT 'X'
           FROM sysobjects
           WHERE name = 'SYSTYPES'
           AND type = 'V')
    DROP VIEW SYSTYPES
go
CREATE VIEW SYSTYPES(NAME, USERTYPE)
AS
SELECT name, usertype
FROM systypes
go
PRINT ' '
PRINT 'Done!'
PRINT ' '
go

```

Task B-4-3: Running UPDSTATS.SQL

This section discusses:

- Understanding UPDSTATS.SQL
- Running UPDSTATS.SQL
- Checking that UPDSTATS.SQL Was Created Successfully
- Executing UPDSTATS.SQL

Understanding UPDSTATS.SQL

The UPDSTATS.SQL script creates a stored procedure called `sp_updstats` which allows you to run update statistics on one table, some tables, or all tables in the database. The stored procedure uses cursor to retrieve the correct tables from the `sysobjects` table and run update statistics on the retrieved table.

Running UPDSTATS.SQL

Use this command to run UPDSTATS.SQL:

```
isql -e -U<username> -P<password> -S<servername> -D<database name> -i⇒  
updstats.sql -o updstats.out
```

Checking that UPDSTATS.SQL Was Created Successfully

To check that `sp_updstats` was created successfully:

Start isql session:

```
isql -U<username> -P<password> -S<servername> -D<database name>  
sp_help sp_updstats  
go
```

You should be able to see that the store procedure has been created.

Executing UPDSTATS.SQL

To execute `sp_updstats`:

1. Start isql session:

```
isql -U<username> -P<password> -S<servername> -D<database name>
```

2. To run update statistics on a table

```
sp_updstats PSSTATUS  
go
```

3. To run update statistics on a group of tables

```
sp_updstats 'PS%'  
go
```

4. To run update statistics on all tables

```
exec sp_updstats  
go
```

Task B-5: Setting Up Connect ID

This section discusses:

- Understanding Connect ID
- Defining the Connect ID

- Creating the Connect ID

Understanding Connect ID

With PeopleSoft PeopleTools 8.4, you establish connections to a database simply by using the connect ID, which allows you to associate multiple PeopleSoft operators to the same connect ID. The connect ID 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 operator ID to control access to objects in the database. The PeopleSoft sign-on process validates the connect ID on the server, rather than the operator ID. Connect ID simplifies database security maintenance. You don't have to maintain access for all PeopleSoft users, just for the connect ID.

The connect ID is granted access using the following script:

Connect.sql: Creates a login ID, and access to the PeopleSoft database is then granted to the connect ID.

In order to work, the connect ID and connect password must be specified at the client configuration manager or the configuration file of any two-tier client accessing the application.

Task B-5-1: Defining the Connect ID

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 lists the steps and related database SQL operations associated with logging in.

Log-in Processing Steps	Related Database SQL Operations
The access to Adaptive Server Enterprise and the PeopleSoft Database is established with the Connect ID not the User ID.	Connect=PT84/people/people
Check PSSTATUS	SELECT OWNERID, TOOLSREL, LASTREFRESHDTM, LASTCHANGEDTTM FROM PSSTATUS
Validate the User ID and Password	SELECT VERSION, OPERPSWD, ENCRYPTED, SYMBOLICID, ACCTLOCK FROM PSOPRDEFN WHERE OPRID =1
Get the Access ID and Password	SELECT ACCESSID, ACCESSPSWD, ENCRYPTED FROM PSACCESSPRFL WHERE SYMBOLICID =1
Disconnect Connect ID	Disconnect
Login using the Access ID	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 B-5-2: Creating the Connect ID

To create connect ID:

1. Open the script *PS_HOME*\scripts\connect.sql.
The script is located within the PeopleSoft directory on the file server, or on your UNIX database server in *PS_HOME*/scripts.
2. Edit the script by changing the <CONNECTID> and <CONNECTPASSWD> to the desired Connect ID and Connect Password.

PeopleSoft default for Connect ID is “people” (with the letter “l”) and for Connect Password it is “people” (with the number 1).

Note. The values you enter for <CONNECTID> and <CONNECTPASSWD> should not exceed eight characters in length.

3. Save the script.
4. Run the script:

```
isql -e -U<username> -P<password> -S<servername> -D<database name> -i⇒  
connect.sql -o connect.out
```

Task B-6: Creating Data Mover Import Scripts

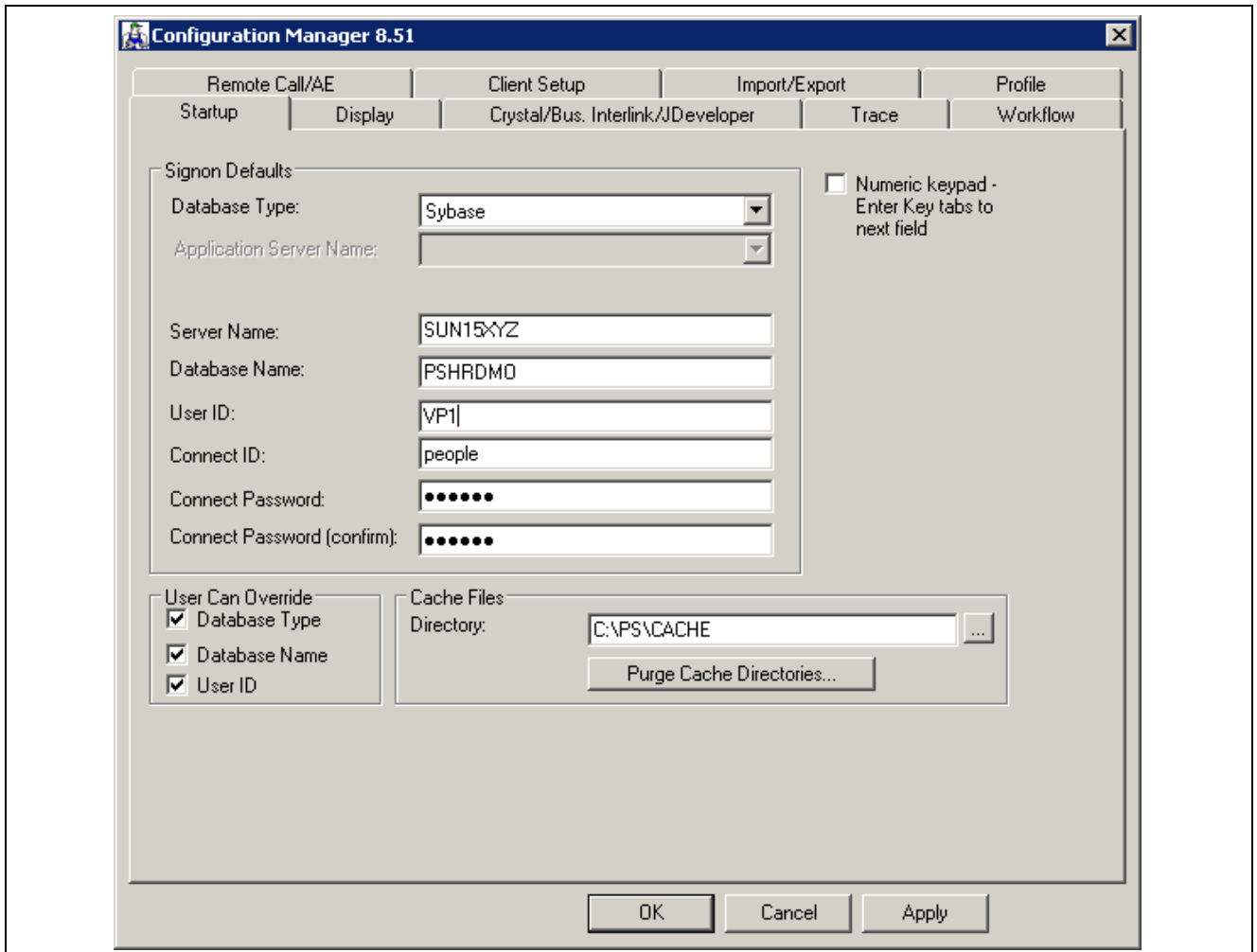
This task explains how to create the Data Mover Import script, which is used to populate the PeopleSoft database with data. The following procedure describes how to run Database Setup Wizard from Data Mover to generate the import scripts.

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.

To create the Data Mover import script using Data Mover:

1. Verify that the same connect ID was used in the Database Setup and Configuration Manager panel displayed below.

If you accepted all defaults, the connect ID/password is: people/people (password contains the number “1”).



Startup tab on the Configuration Manager dialog box

2. Run Data Mover in bootstrap mode, using the access ID as the user id; this should be the user that creates the database.

When connecting to Data Mover using your access ID, you automatically sign on in bootstrap mode.

3. To invoke the Database Setup wizard, choose File, Database Setup.
4. Select your database platform.

Note. Select the character set that you decided upon in the section on multilingual strategy.

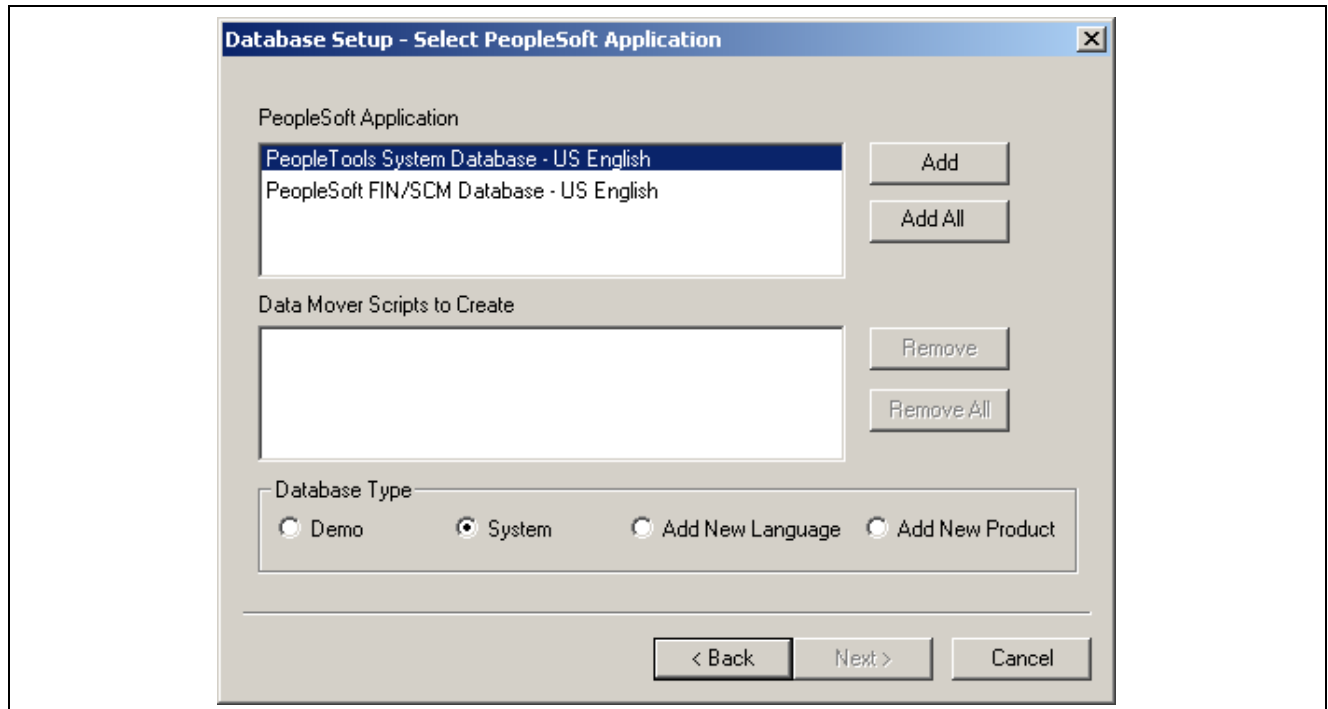
See "Preparing for Installation," Planning Multilingual Strategy.

5. Select your character set and click Next.

Note. DB Setup does not actually modify the character set of your database. That is done by your DBA during database creation. DB Setup will create customized scripts based on your selections.

Note. Only the characters within your character set can be stored in your database.

6. Select your PeopleSoft Application and click Next.



Selecting a PeopleSoft application in the Database Setup dialog box

7. Select the Demo or System radio button, depending on which type of PeopleSoft database you are installing.
8. 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.

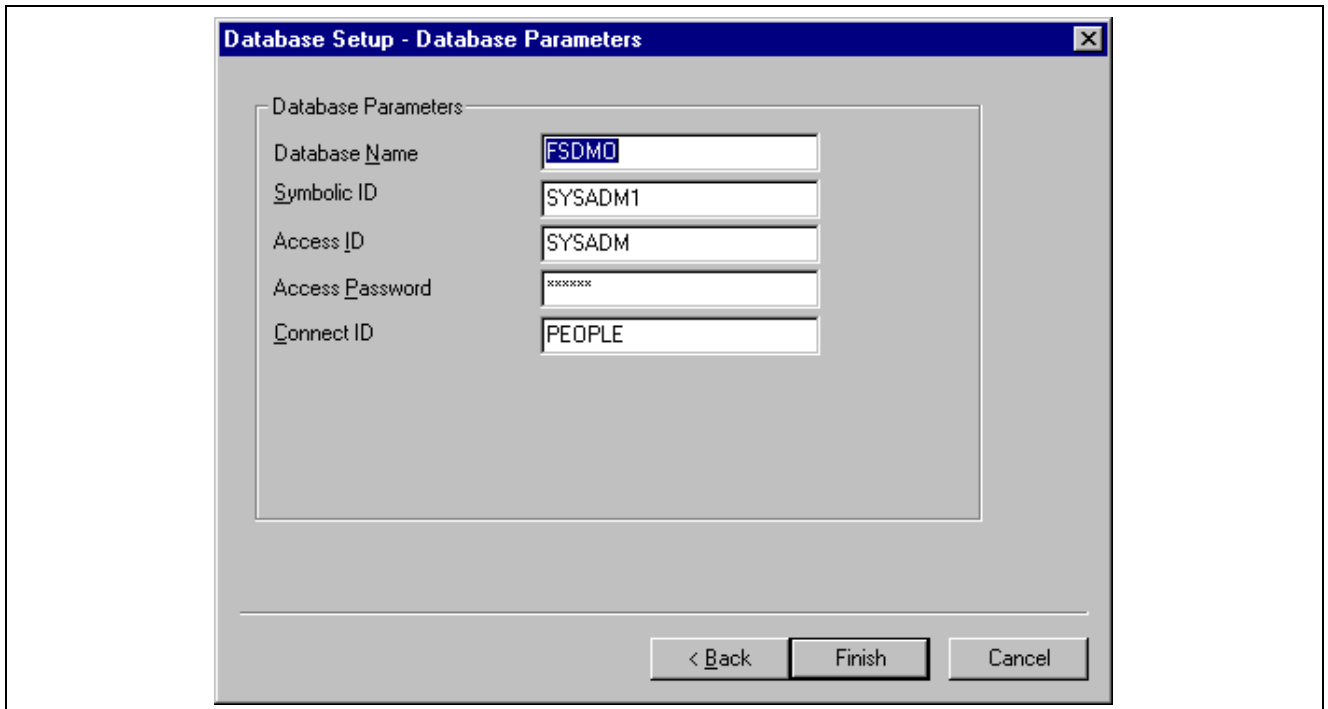
Only the products and languages that you have licensed will be available.

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, 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.

9. Set the database parameters and click Next.



Selecting the database parameters in the Database Setup dialog box

- *Database Name:* 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.
- *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 user you used to create the database. Limit this to eight characters or less.

Note. You must limit Access ID, Connect ID and the passwords for each to eight characters or less.

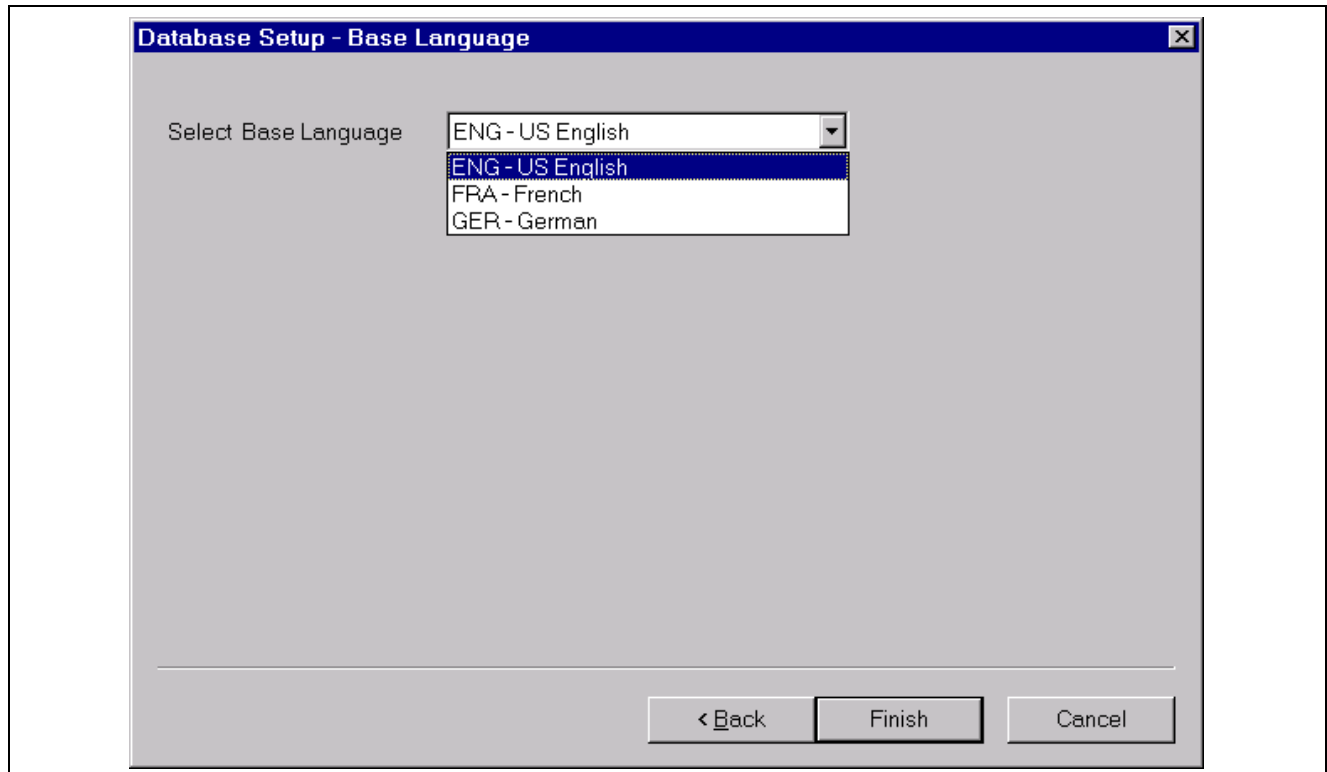
This value is case sensitive. You will use the access ID every time you want to sign on to Data Mover in bootstrap mode. Limit this to eight characters or less.

- *Access ID Password:* This is the PeopleSoft access ID password defined in chapter 1. Limit this to eight characters or less.
- *Connect ID:* This is the connect ID that is used for the initial connection to Adaptive Server Enterprise. This ID is used for connecting to the database. Limit this to eight characters or less.

10. Select your database's base language and click *Finish*.

Note. This screen appears only if you selected a database for a language other than English. If you see this screen 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.

At this point you are in Data Mover, with the DMS script you just created ready to run.



Selecting a base language in the Database Setup dialog box

Note. 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.

Note. 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.

Note. You must ensure that the languages you select are all supported by the character set you used to create your database

See "Preparing for Installation," Planning Multilingual Strategy

Note. 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.

Task B-7: Running Data Mover Import Scripts

This section discusses:

- Understanding Data Mover Import Scripts

- Populating Tables in the PeopleSoft Database
- Validating Files
- Troubleshooting
- Improving Performance

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 using bootstrap mode. *Bootstrap mode* means starting Data Mover with the database Access ID and password, rather than with a PeopleSoft user ID. 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 *Enterprise PeopleTools 8.51 PeopleBook: Data Management*.

Task B-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.

Task B-7-2: Validating Files

Each script will produce .LOG files. The log files are located in the directory you specified in the Data Mover Script.

Examine these files after each run to make sure that all the commands were executed successfully.

Task B-7-3: Troubleshooting

If your 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. (See the note below for additional information on determining where the script stopped.)

Note. 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, add the SET START statement before the first IMPORT *; statement (no problem with this one). If the failure occurred during a subsequent IMPORT, comment out all preceding IMPORT *; statements 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 'Create Indexes' step (found later in the chapter), 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. Add the following line before the offending IMPORT command (the one being executed when the failure occurred):

```
Set start <RECORD NAME>;
```

where <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' will begin the Data Mover import at the <RECORD NAME> specified.

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.

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. With PeopleSoft PeopleTools 8.4x, 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. 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 will begin the Data Mover import at the <RECORD NAME> specified. For example:

Before

```
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 *;
```

After

```
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;
SET START PSPNLFIELD;

DROP TABLE PSPNLFIELD;

IMPORT *;
```

For the DROP Statement, for records with a rename without a leading PS, add PS_ to the beginning of the rename; otherwise the table will not be found.

Example:

PS_<RENAME>

3. Re-start the script (File, Run Script).

Task B-7-4: Improving Performance

The following tips can help you save time when running the Data Mover scripts:

- 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.

- Increase the Sybase default packet size using Configuration Manager. The Sybase dataserver needs to be reconfigured (sp_configure "network packet size").

Note. If you decide to change your network packet size, make sure this change is also reflected in the application server and Process Scheduler configuration files.

Task B-8: 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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Application Designer Developer's Guide*

Note. If you are installing either a PeopleSoft PeopleTools System Database or a database delivered on PeopleSoft PeopleTools 8.51, 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.

Here is a list of applications for which this task must be run because the version of the database that was shipped is different than the version of PeopleSoft PeopleTools that you are running. If your application release is earlier than the release listed in the table, you must run this task:

Application Release	Application Database Version	Requires Update to 8.51?
CRM 9.0	8.48	Yes
EPM 9.1	8.50	Yes
Fin/SCM 9.0	8.48	Yes
Fin/SCM 9.1	8.50	Yes

Verify your application and PeopleSoft PeopleTools release information on My Oracle Support. After logging in, select More, Certifications, and go to the Product Roadmap area. Search for the product you are installing. You can find the PeopleTools release in the Technology area. For information on earlier releases, select the link Product Roadmap (Pre-2006).

If the PeopleTools version is not 8.51, you must run this task. Otherwise, continue to the task Running Additional Data Mover Scripts.

Task B-8-1: 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.

Note. 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 B-8-2: Updating PeopleTools System Tables

Run SQL scripts to update your PeopleSoft PeopleTools system tables to the latest PeopleSoft PeopleTools release (currently 8.51).

Use a query tool, such as isql, to run SQL scripts while in the PeopleSoft database.

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, and rel851
8.41	rel842, rel843, rel844, rel845, rel846, rel847, rel848, rel849, rel850, and rel851
8.42	rel843, rel844, rel845, rel846, rel847, rel848, rel849, rel850, and rel851
8.43	rel844, rel845, rel846, rel847, rel848, rel849, rel850, and rel851
8.44	rel845, rel846, rel847, rel848, rel849, rel850, and rel851
8.45	rel846, rel847, rel848, rel849, rel850, and rel851
8.46	rel847, rel848, rel849, rel850, and rel851
8.47	rel848, rel849, rel850, and rel851
8.48	rel849, rel850, and rel851
8.49	rel850 and rel851
8.50	rel851
8.51	None

2. 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.

3. 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 Connect ID.
5. Invoke Data Mover by running *PS_HOME*\bin\client\winx86\psdmt.exe.
The PeopleSoft Logon window appears.
Log on using a valid PeopleSoft Operator ID, such as PS for HRMS or VP1 for FDM.
6. Run the storedddl.dms Data Mover script in the *PS_HOME*\scripts directory.

Note. Comment the other platform-specific scripts according to your platform.

This will update your platform-specific DDL model statements.

Log out of Data Mover for the next step.

7. Invoke Data Mover by running *PS_HOME*\bin\client\winx86\psdmt.exe.
The PeopleSoft Logon window appears.

Log on using the access ID you specified when you created your Data Mover scripts with the Database Setup program.

This will start Data Mover in bootstrap mode.

8. Run the msgtlsupg.dms Data Mover script in the *PS_HOME*\scripts directory.

This will update the PeopleSoft PeopleTools messages in your database.

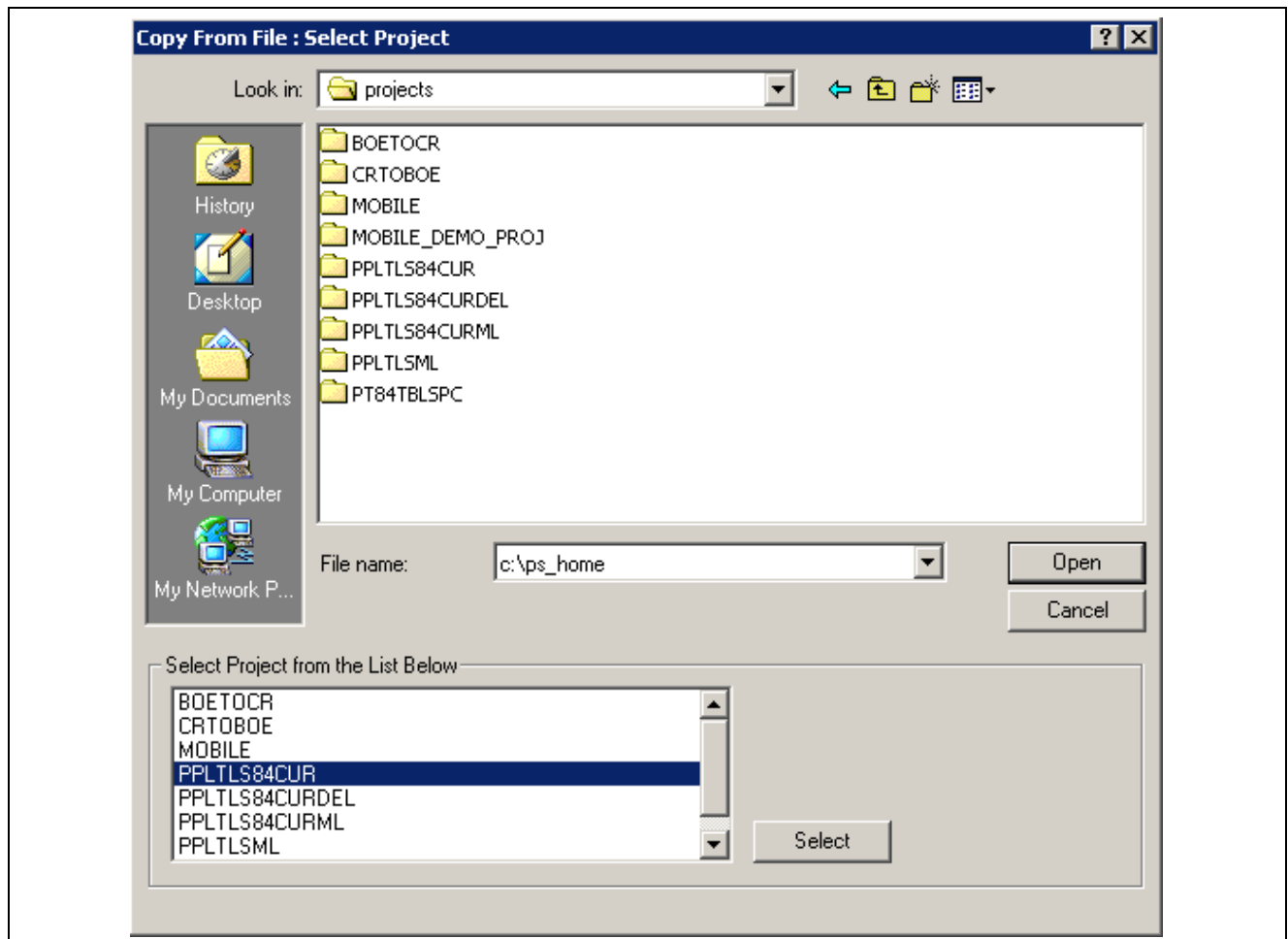
Task B-8-3: Updating PeopleTools Database Objects

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.

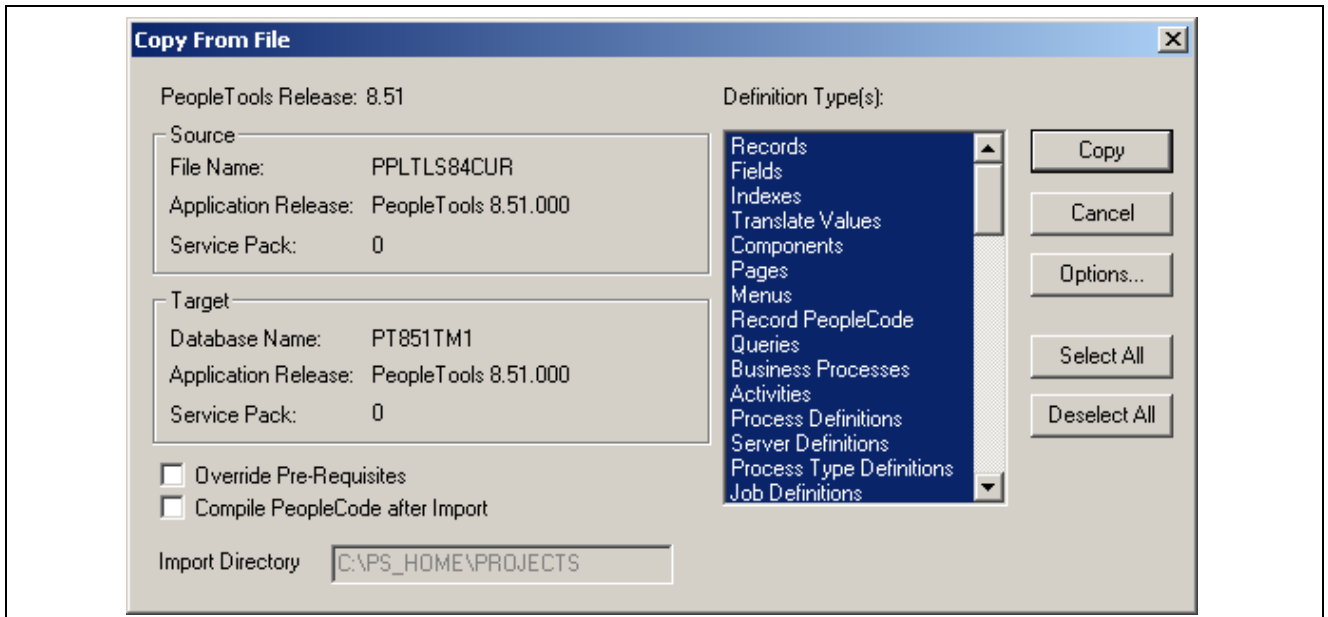
Note. If the project already exists on the database, a confirmation dialog box appears asking if you want to overwrite the existing project. Select the File radio button and click OK to overwrite the existing project.



Selecting 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 B-8-4: 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.

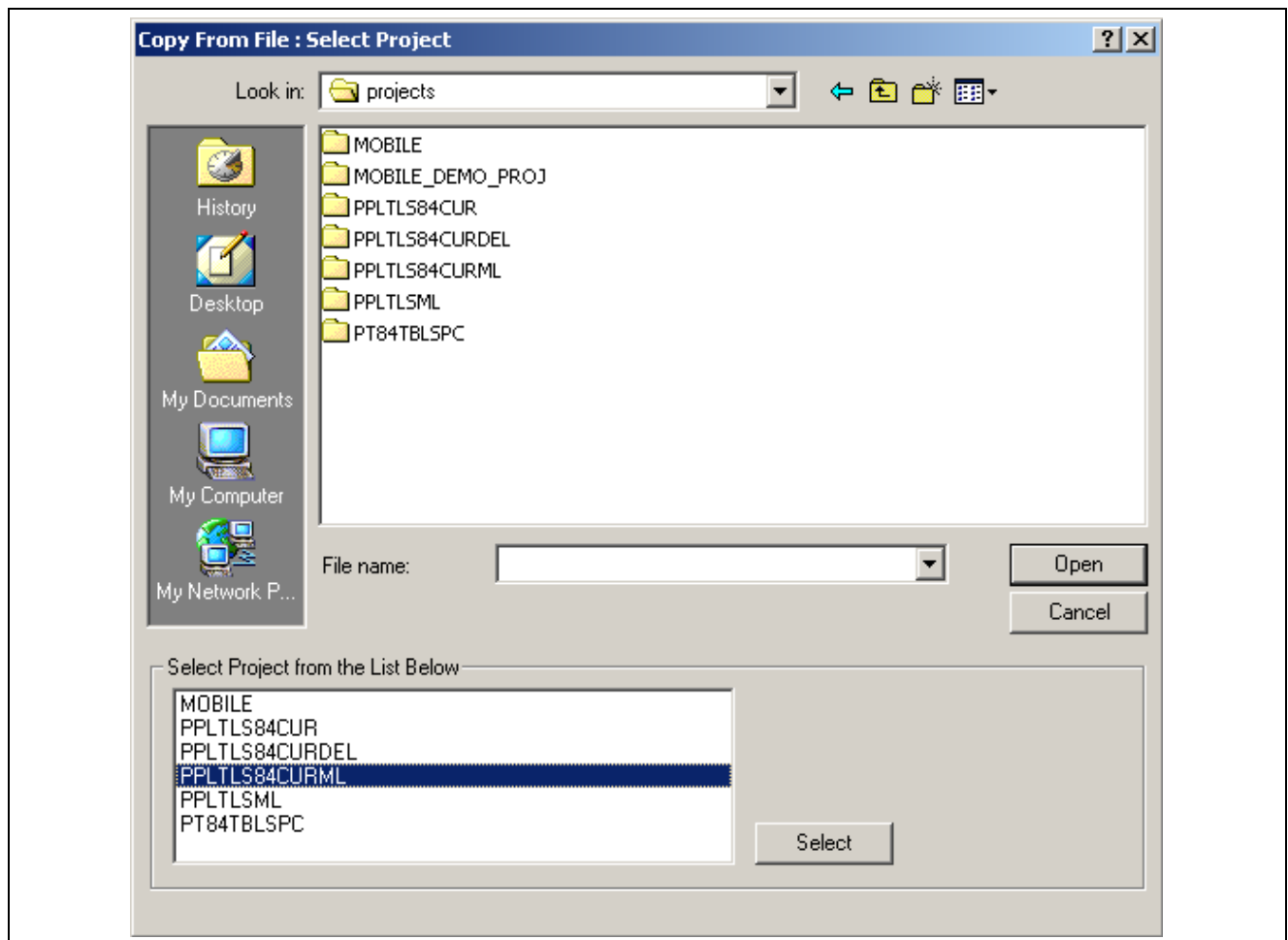
Note. If you have licensed and installed French into this database, copy the PPLTLSML project instead of the PPLTLS84CURML project for French *only*. Substitute the project name PPLTLSML instead of PPLTLS84CURML in the instructions below. Copy the PPLTLS84CURML project to update any non-French languages 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 8.51:

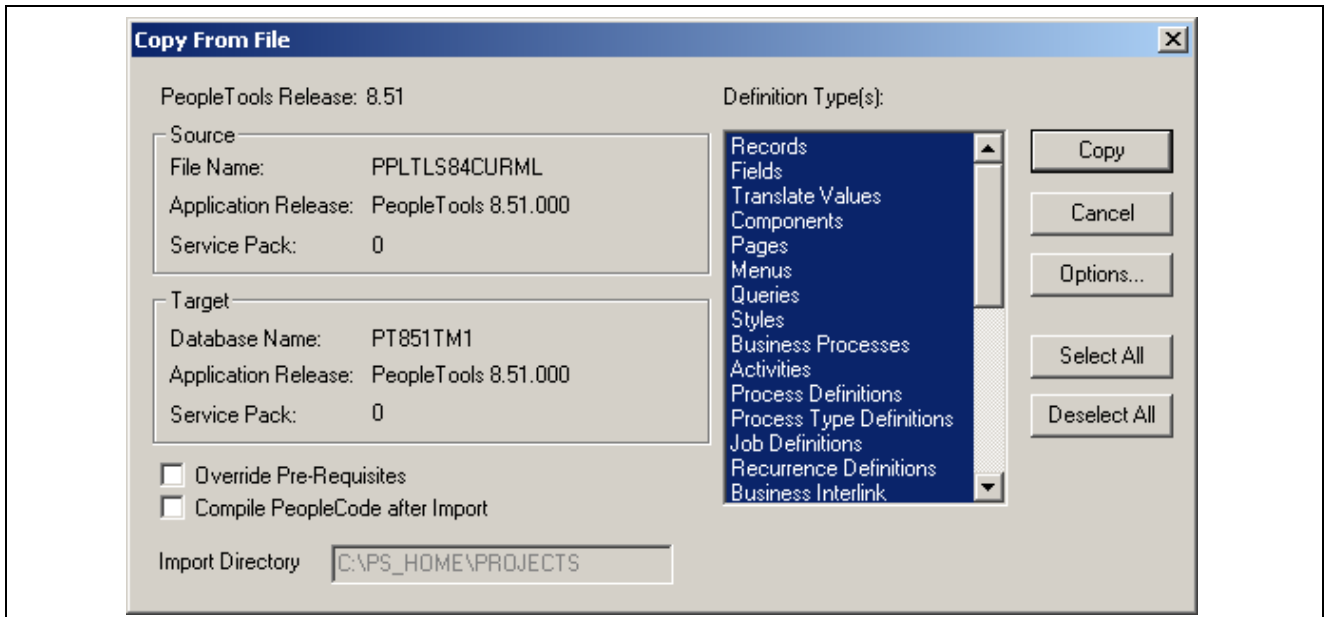
1. Bring up the Configuration Manager and select the Display tab.
Ensure that the language matches the base language of your database. Always run upgrade copy as a base language user.
2. Launch Application Designer and sign on to your database with a valid PeopleSoft user ID.
3. Select Tools, Copy Project, 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 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 B-8-5: 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:

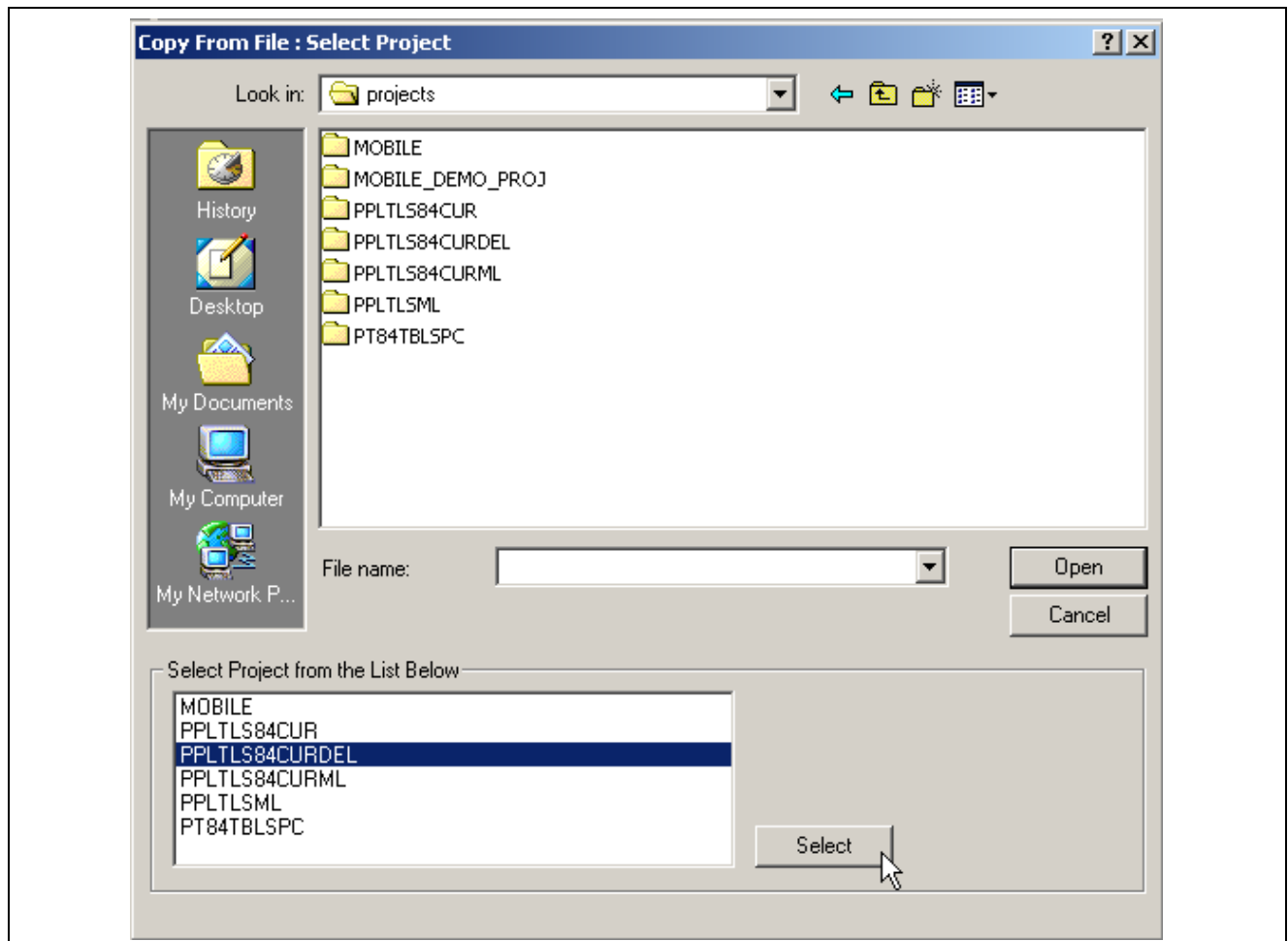
Field <FIELDNAME> is in use on at least one record.

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.

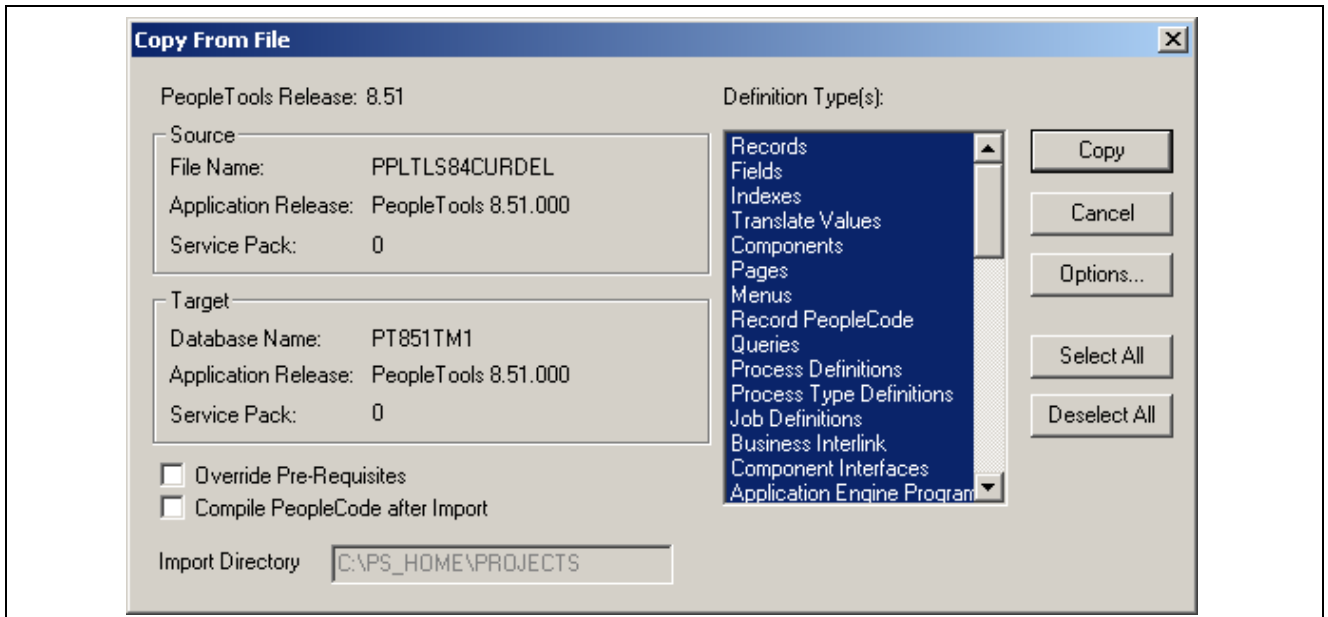
Note. If the project already exists on the database, a confirmation dialog box appears asking if you want to overwrite the existing project. Select the File radio button and click OK to overwrite the existing project.



Selecting 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 are applying a required for install PeopleSoft PeopleTools patch *and if a database project is included*, apply the database projects now. Make sure to read the patch release notes to find out if database changes are in the patch. Read the documentation included with the patch and follow any additional instructions. This is discussed in the next section.

See Applying Patched PeopleTools Database Objects.

Task B-8-6: 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.

Note. If no project is included as part of the patch, run *PS_HOME\scripts\PTPATCH.DMS* in user mode instead.

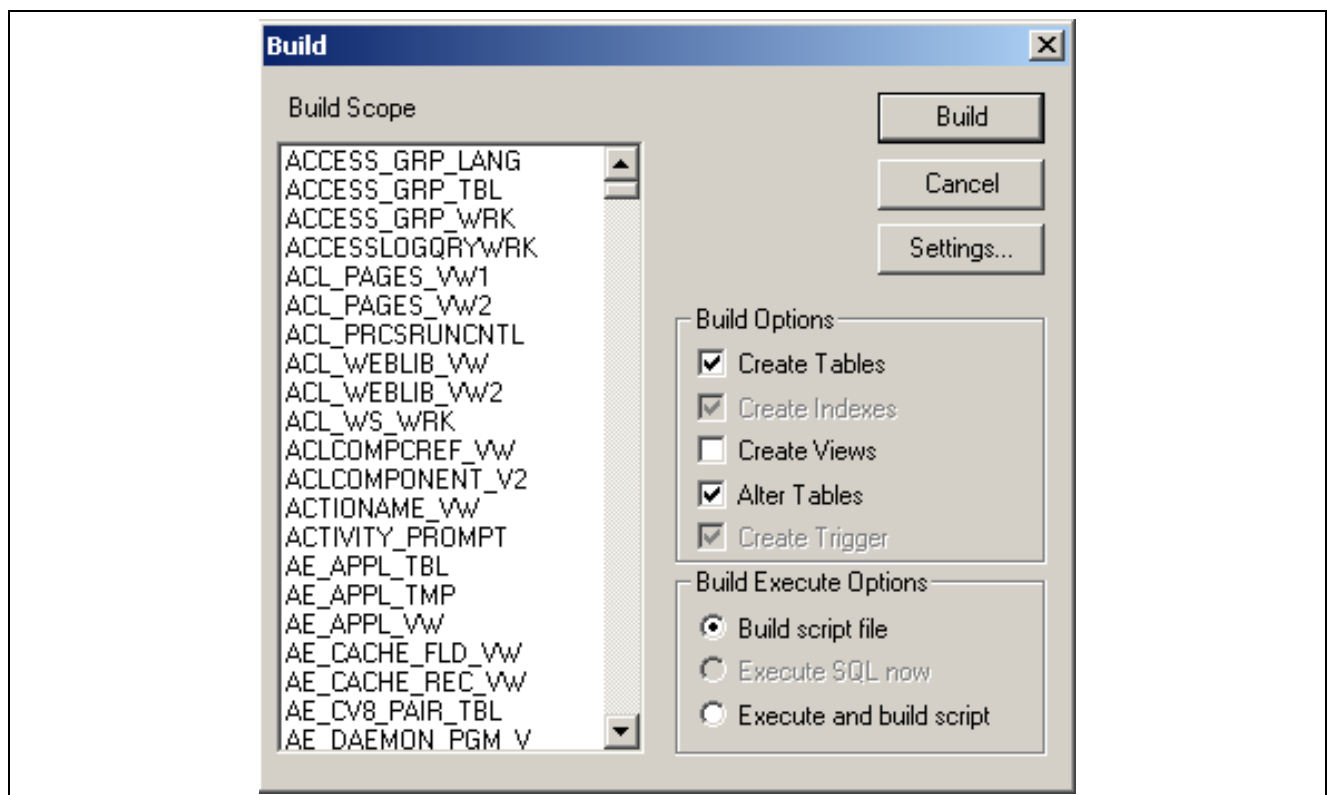
Task B-8-7: Altering PeopleTools Tables

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:

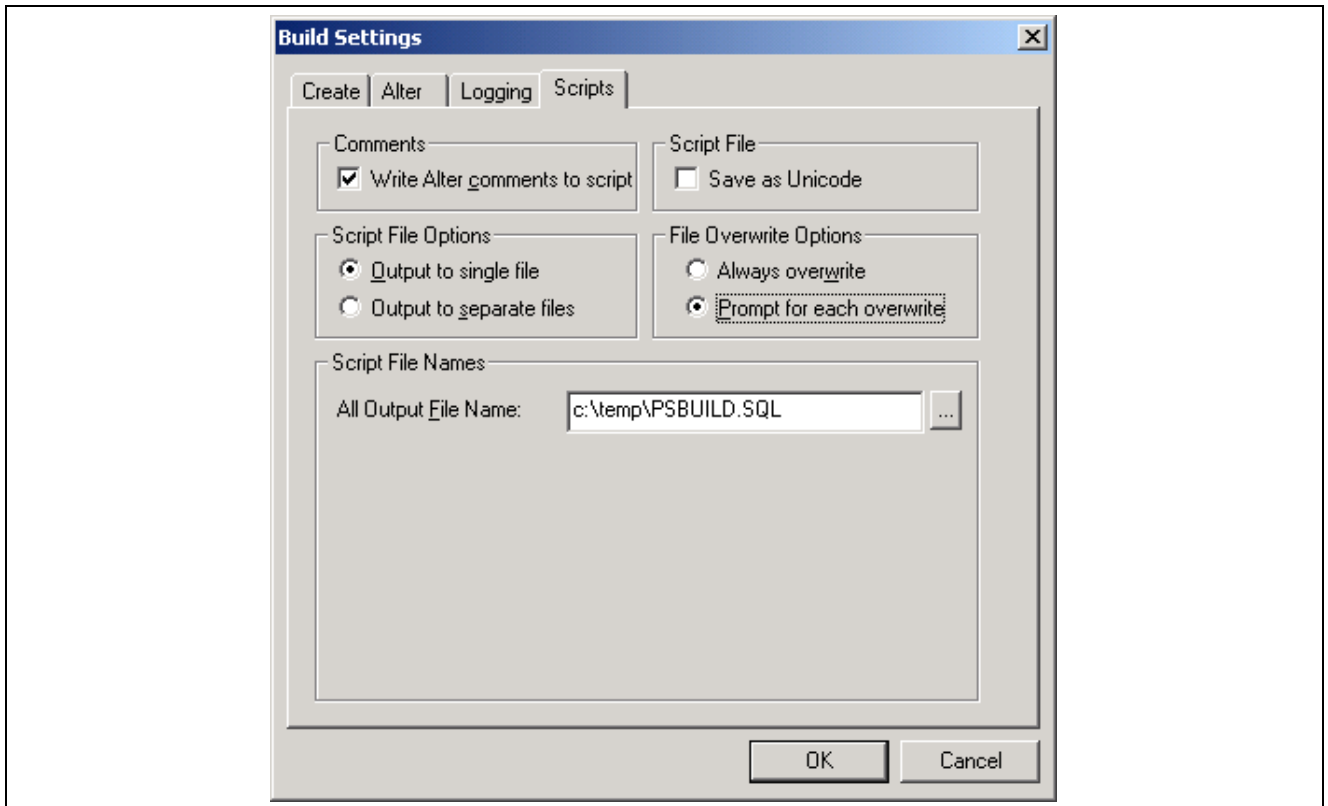


The Build dialog box

5. Select Create Tables and Alter Tables in the Build Options region (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:

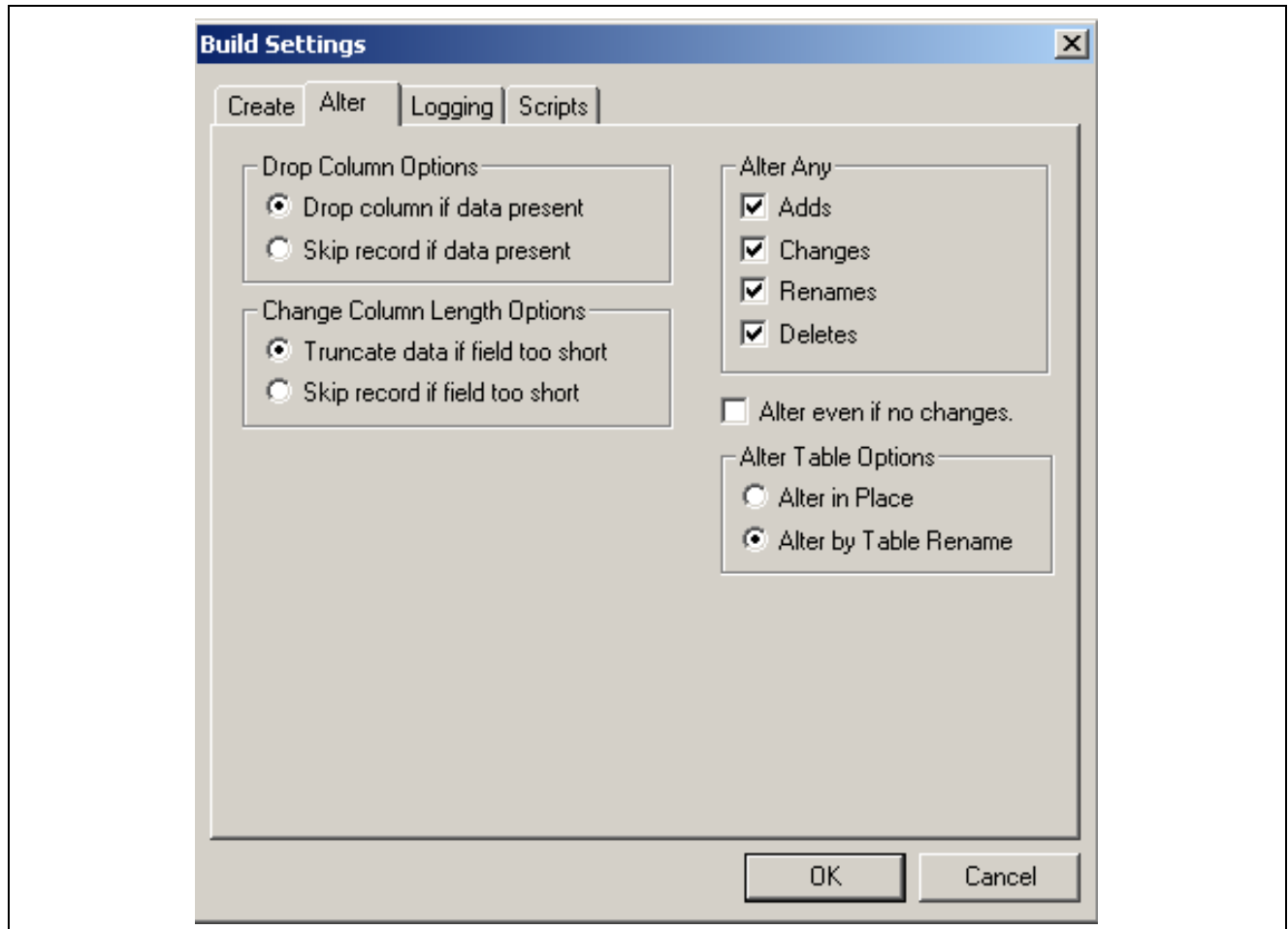


Build Settings dialog box: Scripts tab

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.

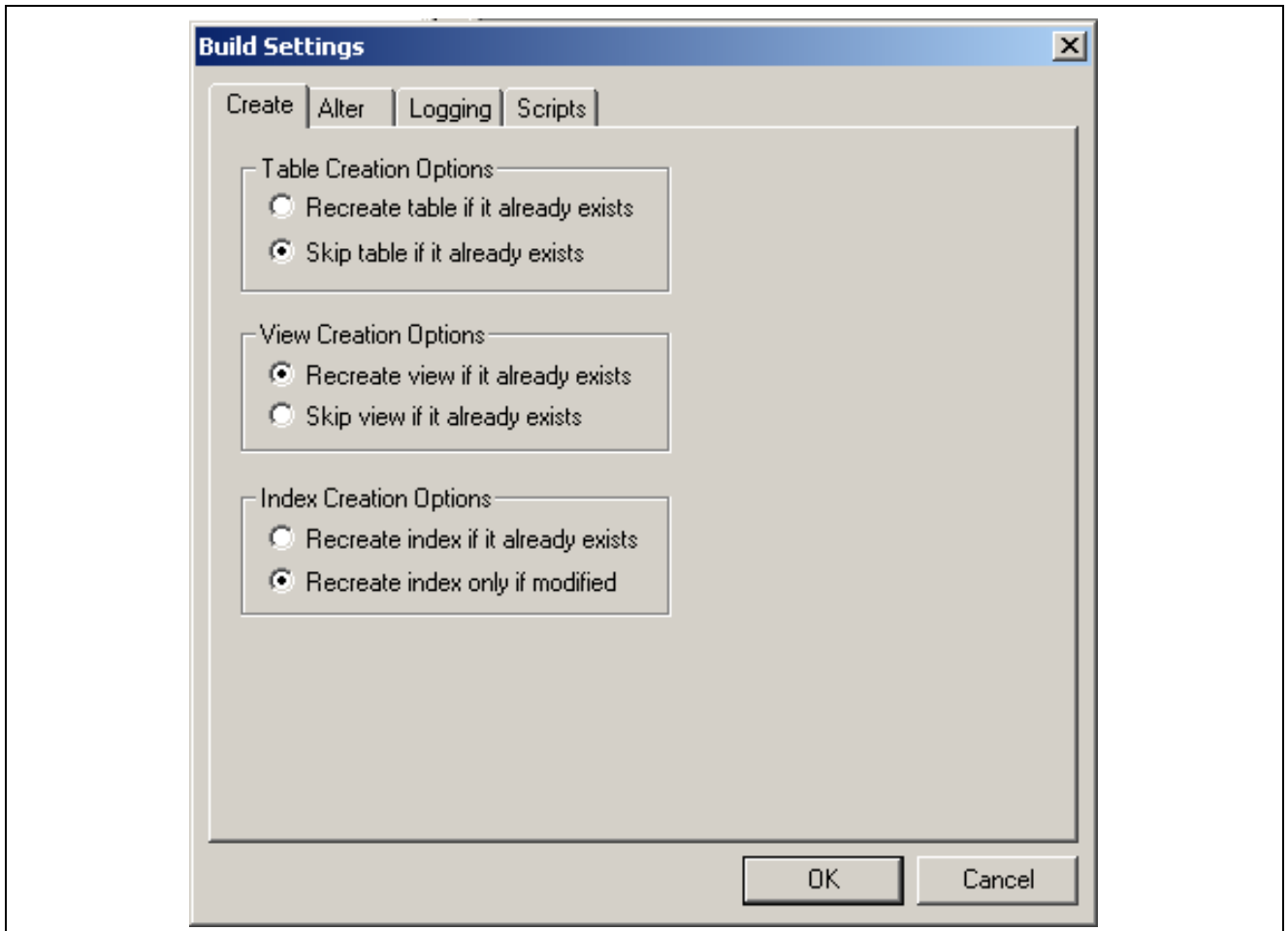
Drop column if data present should be selected in the Drop Column Options region, and Truncate data if field too short should be selected in the Change Column Length Options region.

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 B-8-8: 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 8.51 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 access ID 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, and pt851tls
8.41	pt842tls, pt843tls, pt844tls, pt845tls, pt846tls, pt847tls, pt848tls, pt849tls, pt850tls, and pt851tls
8.42	pt843tls, pt844tls, pt845tls, pt846tls, pt847tls, pt848tls, pt849tls, pt850tls, and pt851tls
8.43	pt844tls, pt845tls, pt846tls, pt847tls, pt848tls, pt849tls, pt850tls, and pt851tls
8.44	pt845tls, pt846tls, pt847tls, pt848tls, pt849tls, pt850tls, and pt851tls
8.45	pt846tls, pt847tls, pt848tls, pt849tls, pt850tls, and pt851tls
8.46	pt847tls, pt848tls, pt849tls, pt850tls, and pt851tls
8.47	pt848tls, pt849tls, pt850tls, and pt851tls
8.48	pt849tls, pt850tls, and pt851tls
8.49	pt850tls and pt851tls
8.50	pt851tls
8.51	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:

```
UPDATE PSLANGUAGES SET INSTALLED=1 WHERE LANGUAGE_CD = 'xxx';
```

where xxx is one of the PeopleSoft three-letter language code identifiers, as described earlier.

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 HRMS or VP1 for FDM.

8. If you are a Multilingual customer and have licensed non-English languages, run the pt851tlsxxx.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 pt851tlsxxx.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 pt851tlsxxx.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 B-8-9: 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
- 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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Application Engine*, "Managing Application Engine Programs."

Converting Portal Objects

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 SYBASE -CS <server name> -C0⇒
<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 Downloads section of My Oracle Support for Required at Install patches for your application and apply the patches after installing your database.

See *Enterprise PeopleTools 8.51 PeopleBook: PeopleTools Portal Technologies*.

Converting Query Headings

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 SYBASE -CS <server name> -C0⇒
```

```
<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 *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Query*.

Converting Setup Manager

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 SYBASE -CS <server name> -C0⇒  
<oprid> -CP <pswd> -R INSTALL -AI UPGPTSMDAT
```

Converting Navigation Collection and Pagelet Wizard Data

The application engine program UPGPT846PP adds Navigation Collection and Pagelet Wizard data from the Common Components and Enterprise 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 Enterprise 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 SYBASE -CS <server name> -C0⇒  
<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

The application engine program UPGPT848PP adds the following Pagelet Wizard data sources from Enterprise 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 Enterprise 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 SYBASE -CS <servername> -C0=>
<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 SYBASE -CS <servername> -C0=>
<oprid> -CP <pswd> -R INSTALL -AI UPGPT850PTFP
```

Updating Feeds for Active Data Guard

The Application Engine program UPGPT851PTFP updates Service Operations used by Feeds for Active Data Guard support.

Run the UPGPT851PTFP Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT SYBASE -CS <servername> -C0=>
<oprid> -CP <pswd> -R INSTALL -AI UPGPT851PTFP
```


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 SYBASE -CS <servername> -C0=>
<oprid> -CP <pswd> -R INSTALL -AI UPGPTHASH
```

Task B-8-10: 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 SYBASE -CS <servername> -C0=>
<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 B-8-11: 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 SYBASE -CS <servername> -CO=>
<oprid> -CP <pswd> -R INSTALL -AI UPGPTSERVOPR
```

Task B-9: 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 B-10: 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, HRMS, 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 B-10-1: 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 B-10-2: 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 pt851tlsxxx.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 B-11: Running VERSION Application Engine Program

Run the VERSION Application Engine program on your database. From the DOS command line, the syntax is:

```
<PS_HOME>\bin\client\winx86\psae -CD <dbname> -CT SYBASE -CS <server name> -CO=>
<userid> -CP <userpswd> -R INSTALL -AI VERSION
```

Use the values for the server name, database name and user ID that you entered on the startup tab of the Configuration Manager for <server_name>, <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 you want to be associated with the <userid>.

See "Setting Up the Install Workstation."

Task B-12: Changing the Base Language

Chapter 1 will help you determine whether you should change your base language, and lists the currently supported languages.

See "Preparing for Installation," Planning Multilingual Strategy.

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 following PeopleBook:

See *Enterprise PeopleTools 8.51 PeopleBook: Global Technology*.

Task B-13: 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 B-13-1: Running SQRs on the Client Workstation

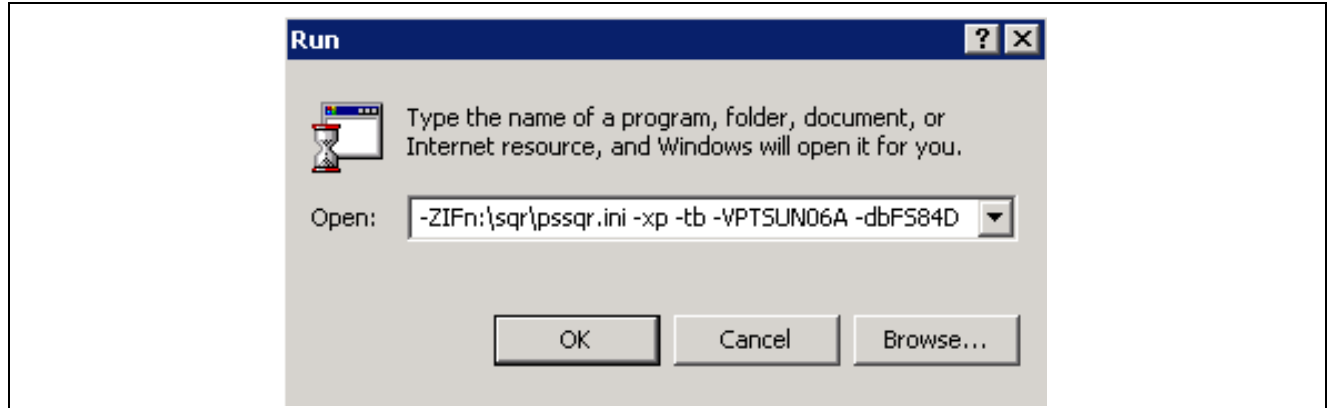
To run an SQR on the client workstation:

1. Select Start, Run, click Browse, and navigate to *PS_HOME*\bin\sqr\SYB\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, `-fd:\psbase\psenv\fsdmo\`).



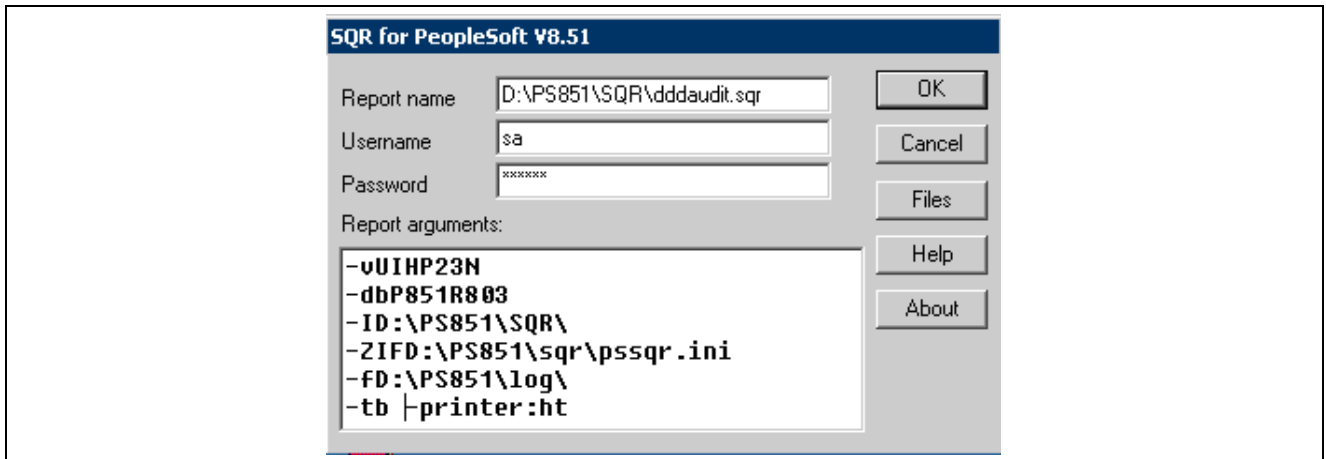
Running an SQR report on the client

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 <i>PS_HOME</i> \sqr\pssqr.ini file.
-xp	Excludes stored procedure creation during SQR execution.
-tb	Removes trailing blanks.
-v	Sybase server name.
-db	Sybase database name.
-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 resulting dialog box should look something like this:



SQR for PeopleSoft dialog box

4. Enter the following values:
 - Enter the report name.
You must specify the full path.
 - Enter the access ID in the Username field.
 - Enter the access password in the Password field.
 - Enter the database name, using the -db option.
 - Enter the Sybase instance name, using the -v option.
5. Click OK to run the SQR report.

Task B-13-2: 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\SYB\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.
 - Database name
 - Username: Enter the access ID.
 - Password: Enter the access password.
 - Report arguments: Make any necessary modifications to the saved arguments.
8. Click OK.

Task B-14: Checking the Database

Run and examine two 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.

For further information about the dddaudit and sysaudit reports, consult PeopleBooks. 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 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.

See *Enterprise PeopleTools 8.51 PeopleBook: Data Management*, "Ensuring Data Integrity."

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

Enterprise PeopleTools 8.51 PeopleBook: Data Management

Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration

Task B-15: 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 (see the table at the beginning of the task "Updating PeopleTools System Tables"), this task is optional.

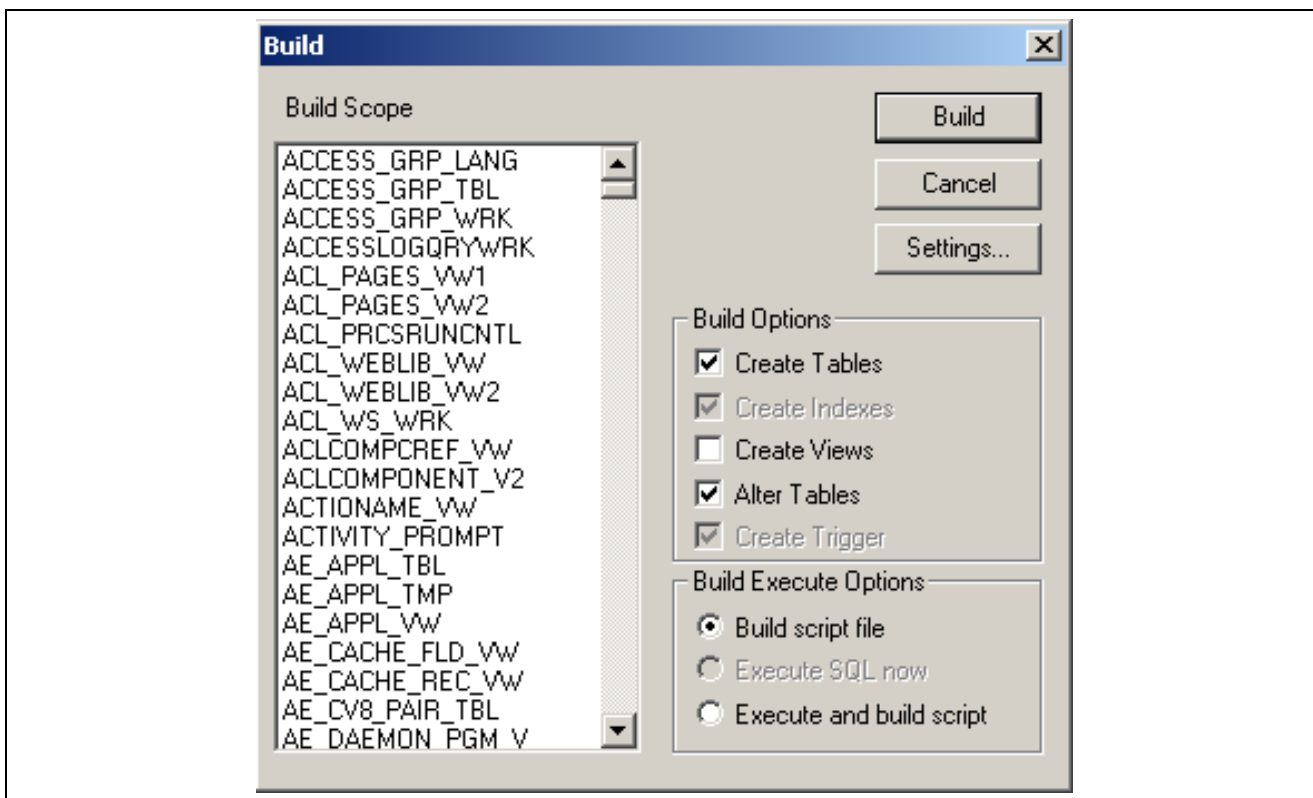
Note. Triggers are always dropped and re-created during the alter process and will always show up in the generated Alter Audit script. You can ignore the generated script for triggers.

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.

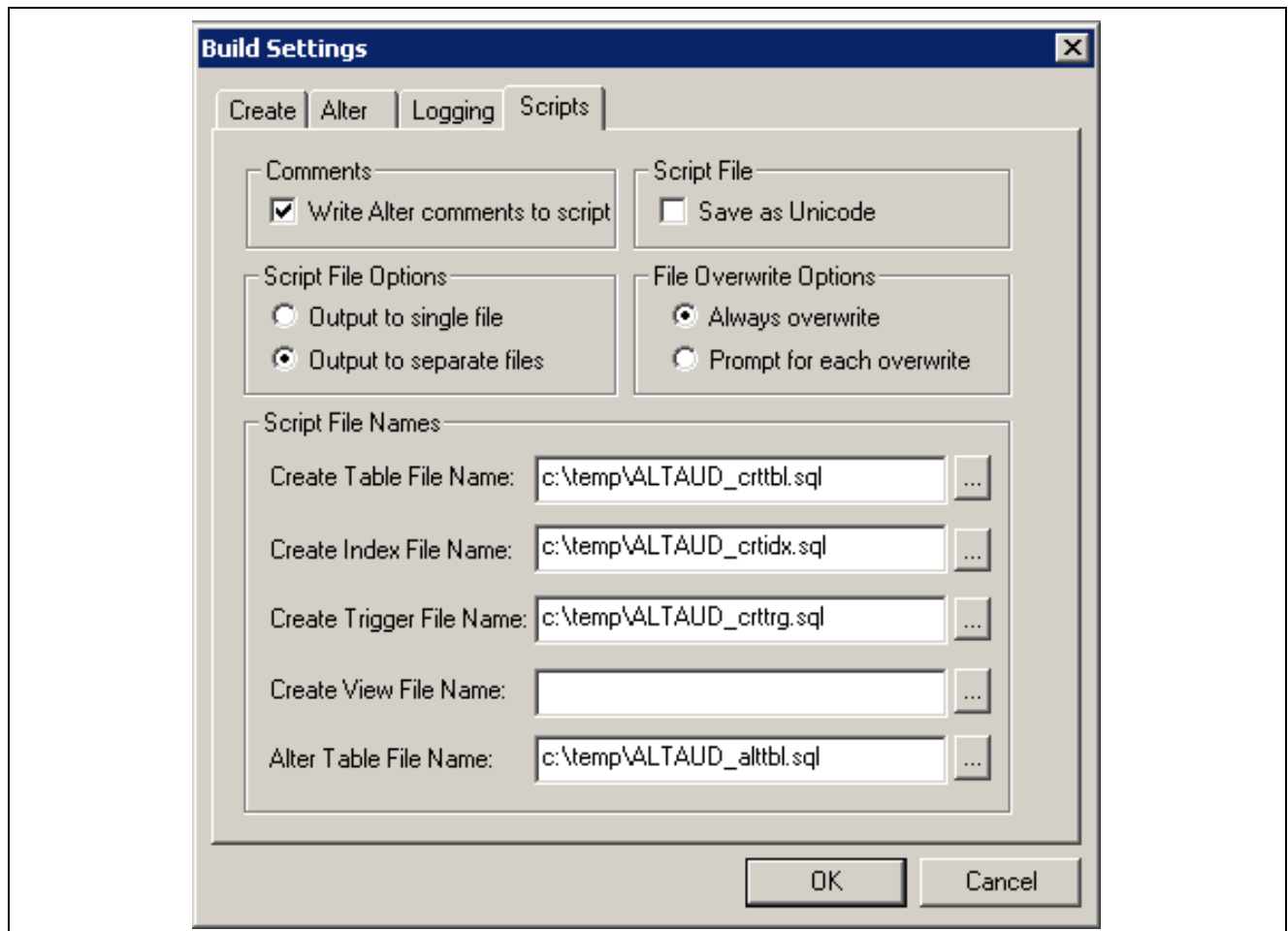
The Build dialog box appears:



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:

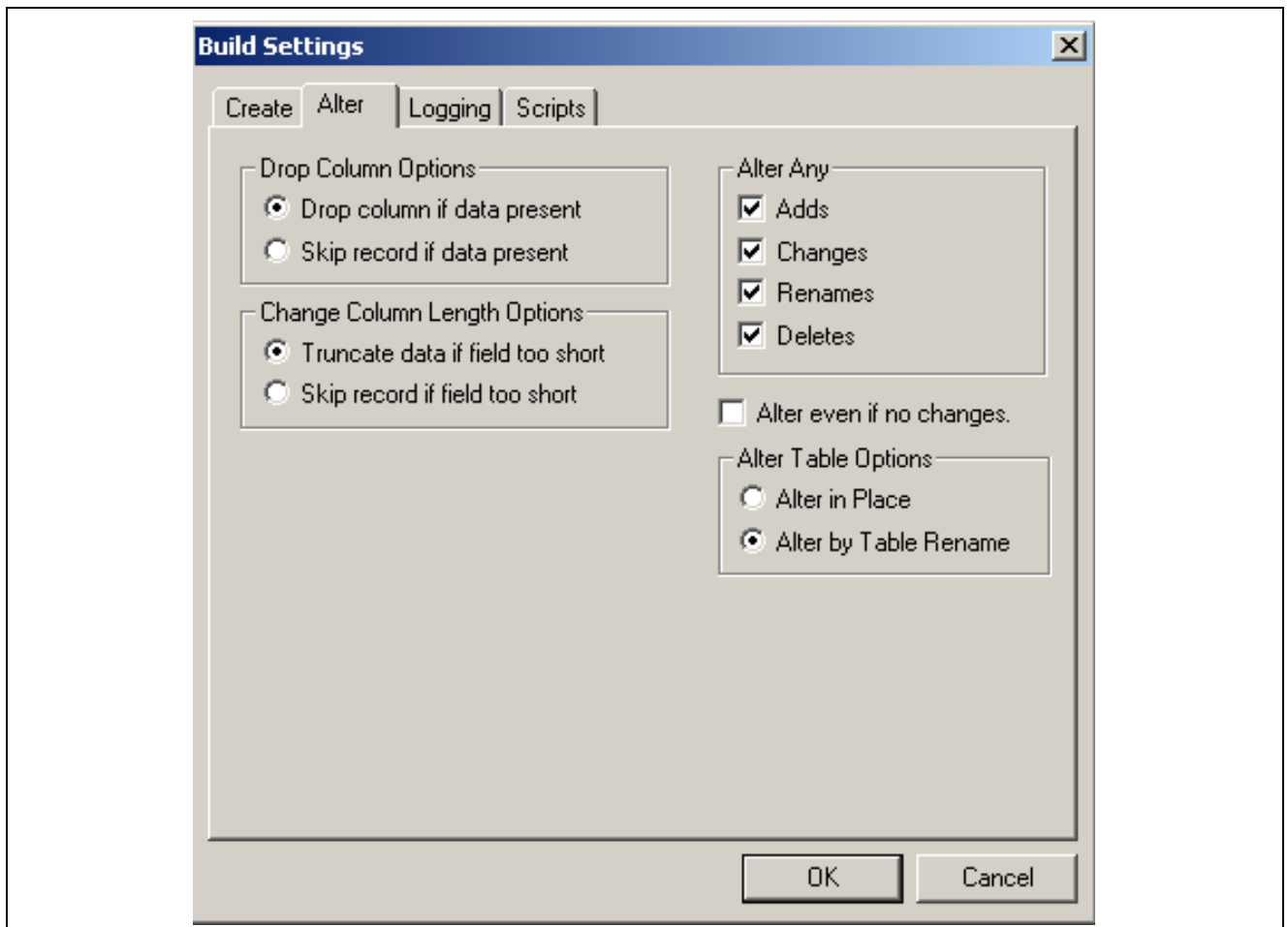


Build Settings dialog box: Scripts tab

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.

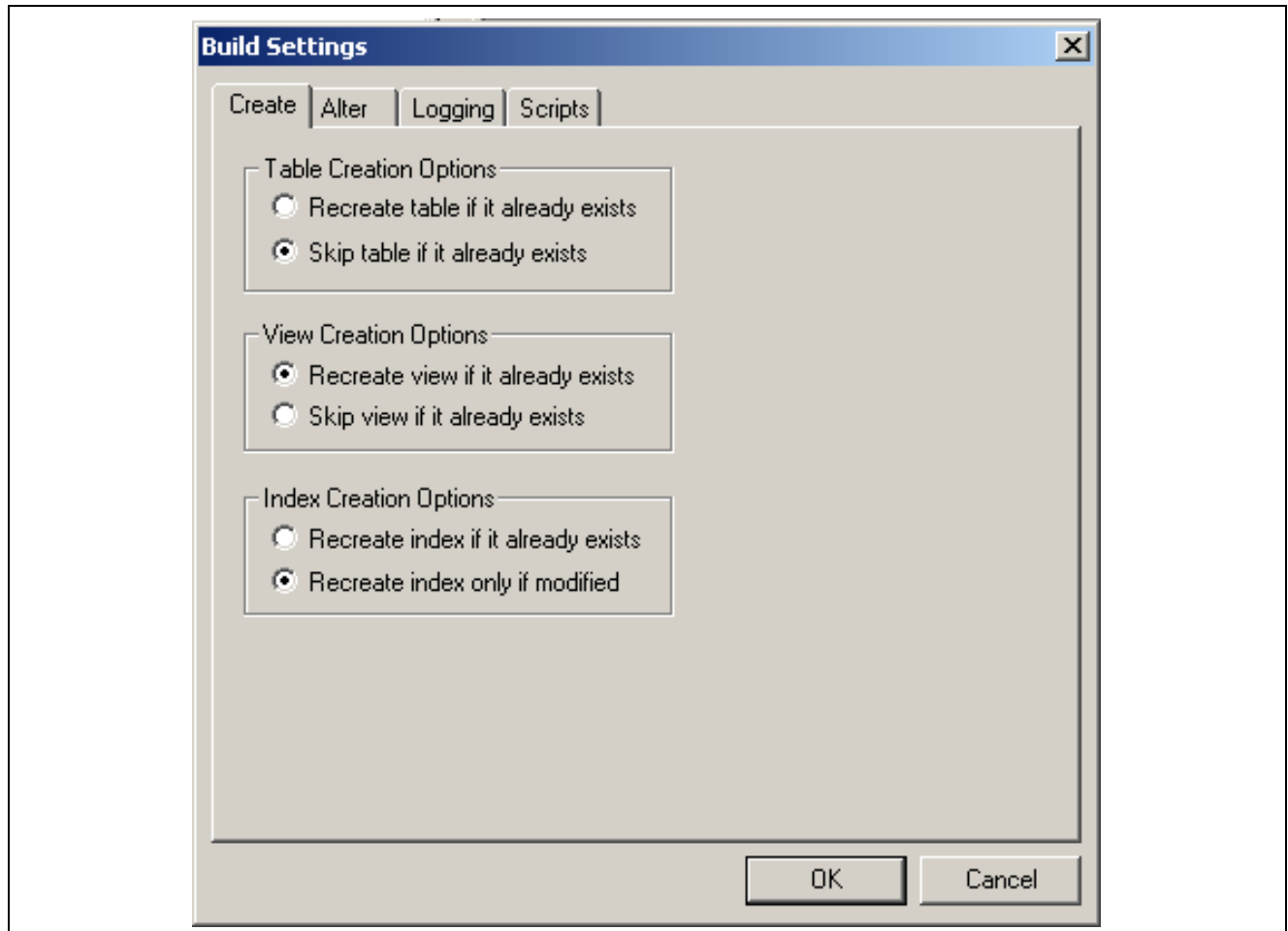
Drop column if data present should be selected in the Drop Column Options region, and Truncate data if field too short should be selected in the Change Column Length Options region.

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 B-16: Backing Up the PeopleSoft Database

Before backing up the database, verify the integrity of the database by running Sybase DBCC commands. Here is an example:

```
DBCC checkalloc(DBNAME)
DBCC checkdb(DBNAME)
```

Use the Sybase dump command to backup the database. The Sybase backup server must be running. The default backup server name is SYB_BACKUP.

See Also

Sybase Adaptive Server Enterprise System Administration Guide

APPENDIX C

Enabling Row Level Locking

This appendix discusses:

- Understanding Row Level Locking in Sybase
- Altering Database Tables to Enable Locking

Understanding Row Level Locking in Sybase

PeopleSoft 8.4 for Sybase requires row level locking support in the dataserver. If your dataserver does not currently support row level locking, you will need to upgrade it prior to installing or upgrading to PeopleSoft 8.4. Consult My Oracle Support for information on which Sybase releases are certified for use with PeopleSoft 8.4.

See My Oracle Support, Certifications.

Note. For information on upgrading your Sybase dataserver to one with support for row level locking, see your Sybase Adaptive Server installation documentation.

Due to the complexity of PeopleSoft applications and the wide array of possible customizations, Oracle currently recommends enabling row level locking for all tables within the PeopleSoft database. This will eliminate any chance for unexpected contention or deadlocking issues. For new PeopleSoft databases loaded from Data Mover, row level locking will automatically be enabled for each table if your dataserver is configured with datarow locking as the default lock scheme. Issue the following command on your dataserver with ISQL to enable this feature:

```
sp_configure 'lock scheme', 0, 'datarows'
```

A second approach to configuring row level locking is to enable it only on specific tables where you encounter deadlocking issues. Due to installation specific differences, Oracle currently does not provide a listing of individual tables which require row level locking. If you choose this approach, you will need to identify where row level locking is required for your installation. While this option will help reduce any overhead encountered with row level locking, you should weigh the costs of identifying and maintaining where row level locking is required and the impact of possible deadlocking in your production environment to your organization.

Task C-1: Altering Database Tables to Enable Locking

This section discusses:

- Understanding Table Alteration

- Executing ALTERNBL.SQL
- Loading Sybase Database Dumps

Understanding Table Alteration

If you have upgraded an existing Sybase datasever to support row level locking, you will need to enable row level locking for each PeopleSoft database residing on the datasever. To do this, use the Sybase ALTER TABLE command on each table you wish to enable with row level locking.

Task C-1-1: Executing ALTERNBL.SQL

The ALTERNBL.SQL script generates a second script which can be used to enable row level locking for all tables in a database. Execute ALTERNBL.SQL with ISQL after modifying the *use <DBNAME>* parameter to reflect the correct database name for your site.

The following example presents ALTERNBL.SQL:

```
-- alternbl.sql
--
-- Instructions:
-- 1) Modify <DBNAME> to the proper database name in 2 places below.
-- 2) Run this script using ISQL to create an output file.
-- 3) Run output script using ISQL to alter all tables to "datarow" lock
-- scheme.

set nocount on
go
use <DBNAME>
go
select '/*='+'*'+char(10)+'use DBNAME'+char(10)+'go'
go
select '/*='+'*'+char(10)+'alter table '+
name+' lock datarows'+char(10)+'go'+char(10)+'/*'
from sysobjects where type = 'U'
order by name
go
select '*/'
go
```

Save the output to produce the script that actually alters the tables.

Note. After enabling row level locking, Oracle recommends that you update your database statistics.

Task C-1-2: Loading Sybase Database Dumps

Sybase Database dumps created from releases of Sybase Adaptive Server or Sybase SQL Server which do not include row level locking support may be loaded into a datasever with row level locking capabilities. After the load is complete, you will need to enable row level locking as discussed above.

APPENDIX D

Installing PeopleBooks

This appendix discusses:

- Understanding PeopleBooks
- Installing and Accessing PeopleBooks
- Managing the Online Document Library Server
- Configuring Context-Sensitive Help
- Creating and Recreating Search Collections
- Migrating Previous Versions of PeopleBooks

Understanding PeopleBooks

PeopleBooks are the documentation delivered with PeopleSoft PeopleTools and every PeopleSoft application. This appendix describes how to install and configure PeopleBooks so that you can deploy the PeopleSoft documentation at your site.

There are three options for configuring PeopleBooks.

- *Hosted PeopleBooks*: Use PeopleBooks over the Internet with the Oracle PeopleSoft Enterprise Hosted PeopleBooks.
- *Full-text Search*: Requires installation of Online Documentation Library Site (ODLS), or IBM WebSphere web server with Online Documentation Library Application (ODLA) deployed.
- *Context-sensitive help*: Configure PeopleSoft PeopleTools to call PeopleBooks 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.

Note. The F1 button calls PeopleBooks 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, end users need to click the Help link to call PeopleBooks Help.

See Also

Oracle Documentation, Oracle Technology Network, <http://www.oracle.com/technology/documentation/index.html>

Task D-1: Installing and Accessing PeopleBooks

This section discusses:

- Prerequisites
- Accessing Oracle PeopleSoft Enterprise Hosted PeopleBooks
- Obtaining PeopleBooks and Web Server Installation Files from Oracle E-Delivery
- Setting Environment Variables for Oracle WebLogic
- Installing Online Document Library Site
- Installing IBM WebSphere with Online Document Library Application Deployment
- Installing the PeopleBooks Installation Software in GUI Mode
- Installing the PeopleBooks Installation Software in Console Mode

Prerequisites

PeopleSoft PeopleTools 8.51 PeopleBooks are immediately available for use over the internet at the Oracle Enterprise PeopleSoft Hosted PeopleBooks 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 PeopleBooks to any server running supported versions of Oracle WebLogic or IBM WebSphere.

Before you begin the installation, make sure you meet the following requirements:

- You must install to a supported web server and operating system platform.
PeopleSoft PeopleBooks 8.51 is supported on the same web server platforms and operating systems as the PeopleSoft Pure Internet Architecture (PIA) for PeopleSoft PeopleTools 8.51.

Note. You must install the Oracle WebLogic that is bundled with the Online Documentation Library Site (ODLS) installer. Using a different Oracle WebLogic installation, such as that used for PeopleSoft PeopleTools, may cause issues with security roles or policies.

- If running on Linux or UNIX, you must install an operating-system specific Java Developer's Kit (JDK) before beginning the installation.

For information on locating and installing the appropriate JDK for Oracle WebLogic, see the section Installing JDK for Oracle WebLogic.

See "Installing Web Server Products," Installing Oracle WebLogic Server.

See "Installing Web Server Products," Installing IBM WebSphere.

- For both Oracle WebLogic and IBM WebSphere, you must deploy the Online Documentation Library Application (ODLA) before installing PeopleBooks.

See Also

Enterprise PeopleTools 8.51 Hardware and Software Requirements

My Oracle Support, Certifications

Task D-1-1: Accessing Oracle PeopleSoft Enterprise Hosted PeopleBooks

Open a browser and enter the URL: <http://www.oracle.com/pls/psft/homepage>. Here you can see all the hosted PeopleBooks currently available. For the PeopleSoft PeopleTools 8.51 PeopleBooks, select the link for your product application.

You can configure your PeopleSoft server to use hosted PeopleBooks 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 Oracle PeopleSoft Enterprise Hosted PeopleBooks web page. Select the link View the simple steps to set up the context sensitive help.

This example uses the URL for PeopleTools 8.51 PeopleBooks:

http://download.oracle.com/docs/cd/E18083_01/pt851pbr0/f1search.htm?ContextID=%CONTEXT_ID%&LangCD=%LANG_CD%

The screenshot shows the 'Web Profile Configuration General' page in the Oracle PeopleSoft Enterprise interface. The 'General' tab is active. The 'Profile Name' is set to 'PROD'. The 'Description' is 'Installation Defaults'. The 'Authentication Domain' is empty. The 'Help URL' is set to http://download.oracle.com/docs/cd/E18083_01/pt851pbr0/f1search.htm?ContextID=%CONTEXT_ID%&LangCD=%LANG_CD%. There are also checkboxes for 'Compress Responses', 'Compress Response References', and 'Compress Query', all of which are checked. The 'Compress Mime Types' field contains the text: 'application/x-javascript,text/javascript,text/css,text/html'.

Web Profile Configuration General page with PeopleBooks URL

5. Save and exit the Web Profile Configuration page.
6. Restart the following servers:
 - If you are running on Oracle WebLogic, restart the PeopleSoft Pure Internet Architecture 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.

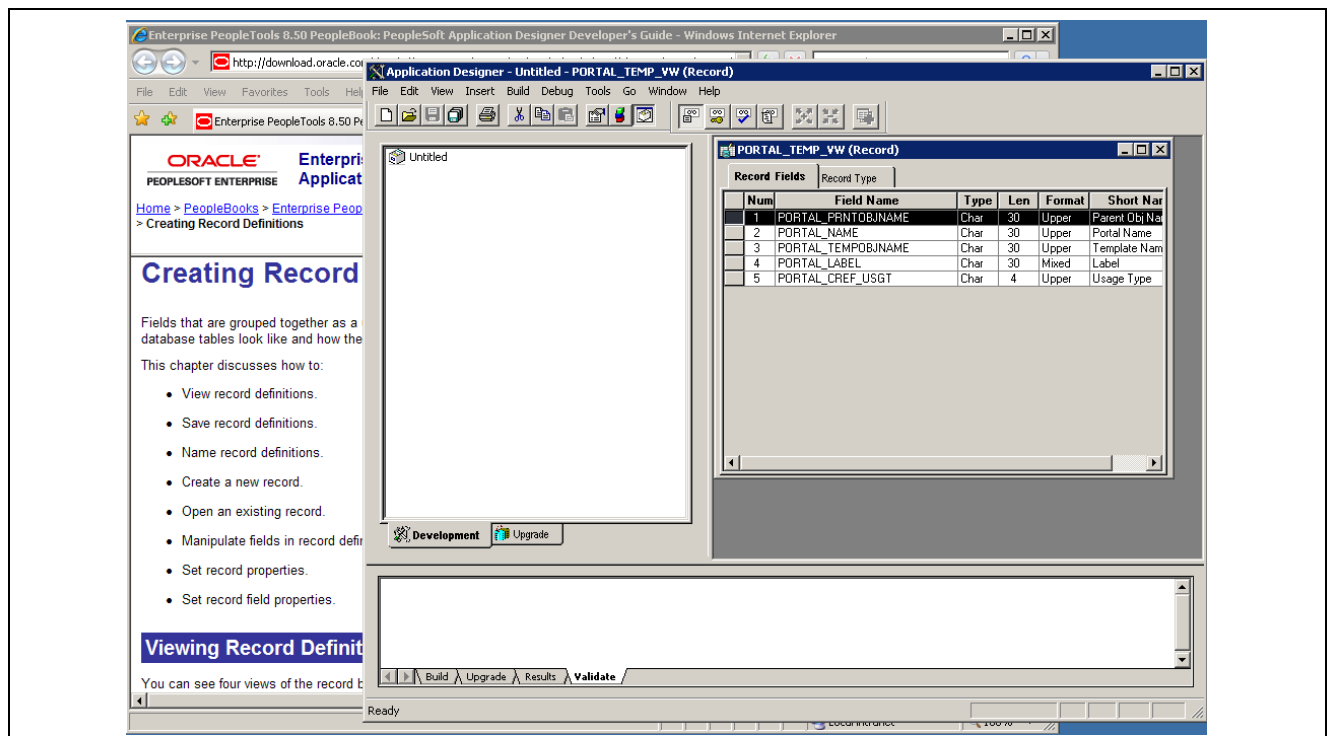
PeopleTools Application Designer also has context sensitive help available through the user's F1 key. To enable this help functionality, the PeopleTools Options must be configured to access the PeopleBooks Library as follows:

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://download.oracle.com/docs/cd/E18083_01/pt851pbr0/f1search.htm?ContextID=%CONTEXT_ID%&LangCD=%LANG_CD%

Note. The correct URL for this field is available on the Oracle PeopleSoft Enterprise Hosted PeopleBooks web page. Select the link View the simple steps to set up the context sensitive help, and select the link for PeopleTools 8.51.

4. Save and exit the PeopleTools Options page.
5. Open Application Designer. Press F1 to display general information on using Application Designer.
6. For context sensitive help, open an object, such as a panel or PeopleCode, then press F1.

This example shows the a browser with the documentation for creating a record, with Application Designer.



Application Designer with browser showing F1 Help

Task D-1-2: Obtaining PeopleBooks and Web Server Installation Files from Oracle E-Delivery

This section explains locating and using the installation files for installing the Online Document Library Site and PeopleBooks.

Note. The Online Document Library Site for Microsoft Windows on Oracle E-Delivery is bundled with a 32-bit JDK. If you want to run the ODL server with a 64-bit JDK, you must edit the file `ODLS_HOME\webserv\ODLA\bin\setDomainEnv.sh` to modify the environment variable `SUN_JAVA_HOME`. (`ODLS_HOME` refers to the installation location for the ODLA)

You must obtain the PeopleBooks installation files, and the files for one of the supported web servers, as follows:

- **Online Document Library Site**
This package includes Oracle WebLogic with Online Document Library application. You can download this package from Oracle E-Delivery.
- **Online Document Library Application WAR File for deployment on IBM WebSphere**
If you select IBM WebSphere to host your own PeopleBooks, you must install IBM WebSphere, and then deploy the Online Document Library Application WAR File manually. Information on obtaining and installing IBM WebSphere was given earlier in this document.

See "Installing Web Server Products," Installing IBM WebSphere.

See "Preparing for Installation, " Using Oracle E-Delivery to Obtain Installation Files.

To obtain files for the PeopleBooks installation and web server software from Oracle E-Delivery:

1. After logging in to Oracle E-Delivery, on the Media Search Pack page, select the *PeopleSoft Enterprise* media pack 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.
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, use binary mode to transfer the file.
3. Select the radio buttons for the necessary files, and click Continue.
 - For the PeopleBooks installation, select PeopleSoft Enterprise - PeopleTools 8.51 Media Pack.
 - For Oracle WebLogic, select Online Document Library Site
 - For IBM WebSphere, select Third Party - Online Document Library Application WAR File.
4. Download the necessary files:
 - For the PeopleBooks installation, download the zip files for PeopleSoft Enterprise 8.51 PeopleBooks.
 - For Oracle WebLogic, download the zip files for Online Document Library Site.
 - For IBM WebSphere, download the zip files for Third Party - Online Document Library Application WAR File.
5. When you unzip the file, extract it into a temporary directory, referred to here as `ODL_INSTALL`.

Task D-1-3: Setting Environment Variables for Oracle WebLogic

If you are running on Linux or UNIX, before beginning the installation, set environment variables to specify the location where you installed JDK, as described previously.

Note. This step is not necessary if you are running on Microsoft Windows, as the JDK is installed with ODL.

1. Set the `JAVA_HOME` environment variable to the directory where the supported JDK is installed, and export. For example:

```
export JAVA_HOME=/jre/prod/1.6.0-64bit
```

2. Set your `PATH` variable to include `$JAVA_HOME/bin`. For example:

```
export PATH=$JAVA_HOME/bin:$PATH
```

The installation program may require up to nine gigabytes (9 GB) for temporary installation files. In the unlikely event your temporary or system space is not sufficient, you may redirect the `InstallAnywhere` utility to use a specific disk area. The command to manually set the temporary space to use the drive `TEMP_DRIVE` is:

For Microsoft Windows:

```
set IATEMPDIR=TEMP_DRIVE
```

For Linux or UNIX:

```
export IATEMPDIR=TEMP_DRIVE
```

Task D-1-4: Installing Online Document Library Site

This section discusses:

- Understanding the Installation of the Online Document Library Site
- Installing the Online Document Library Site in GUI Mode
- Installing the Online Document Library Site in Console Mode

Understanding the Installation of the Online Document Library Site

If you are using an ODLS, and have not already installed it, follow these instructions.

The default install mode for UNIX and Linux is a graphical interface. If your system is not configured for graphic-based programs, use the instructions for console mode installation.

The examples of GUI installation windows shown in this section are for a Microsoft Windows operating system platform. The GUI windows for Linux or UNIX may appear slightly different, but the options should be the same.

Installing the Online Document Library Site in GUI Mode

To install ODLS in GUI mode (for Microsoft Window, Linux, or UNIX):

1. Go to the directory where you downloaded the ODLS installer, referred to here as `ODL_INSTALL`, and run the executable:

For Microsoft Windows, run:

```
ODL_INSTALL\odlwin.exe
```

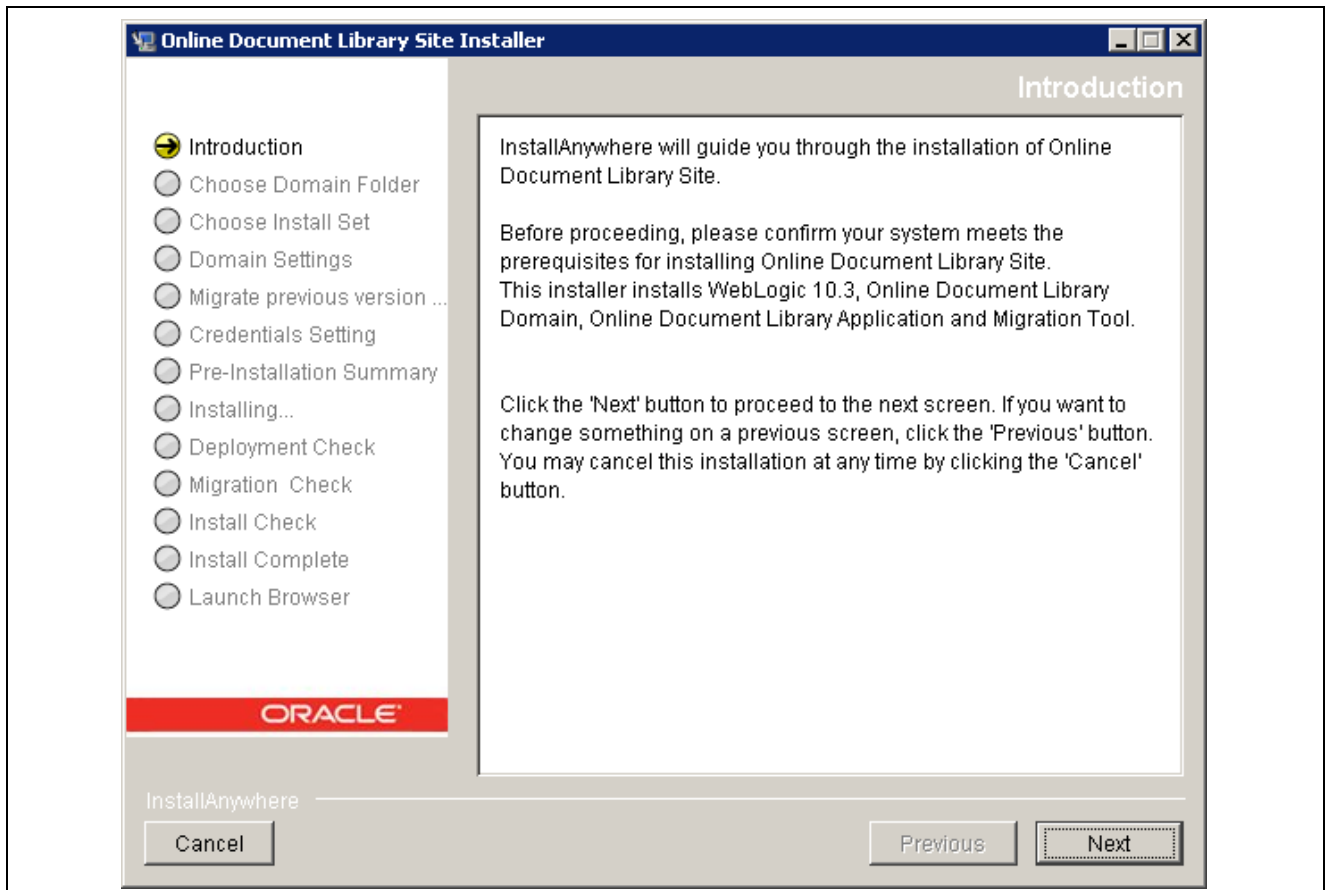
For Linux or UNIX, run:

```
sh ODL_INSTALL/odlgenericunix.bin
```

2. Click Next on the Introduction window to proceed:

The introductory text includes the following instruction:

“Before proceeding, please confirm your system meets the prerequisites for installing Online Document Library Site. This installer installs WebLogic 10.3, Online Document Library Domain, Online Document Library Application and Migration Tool.”



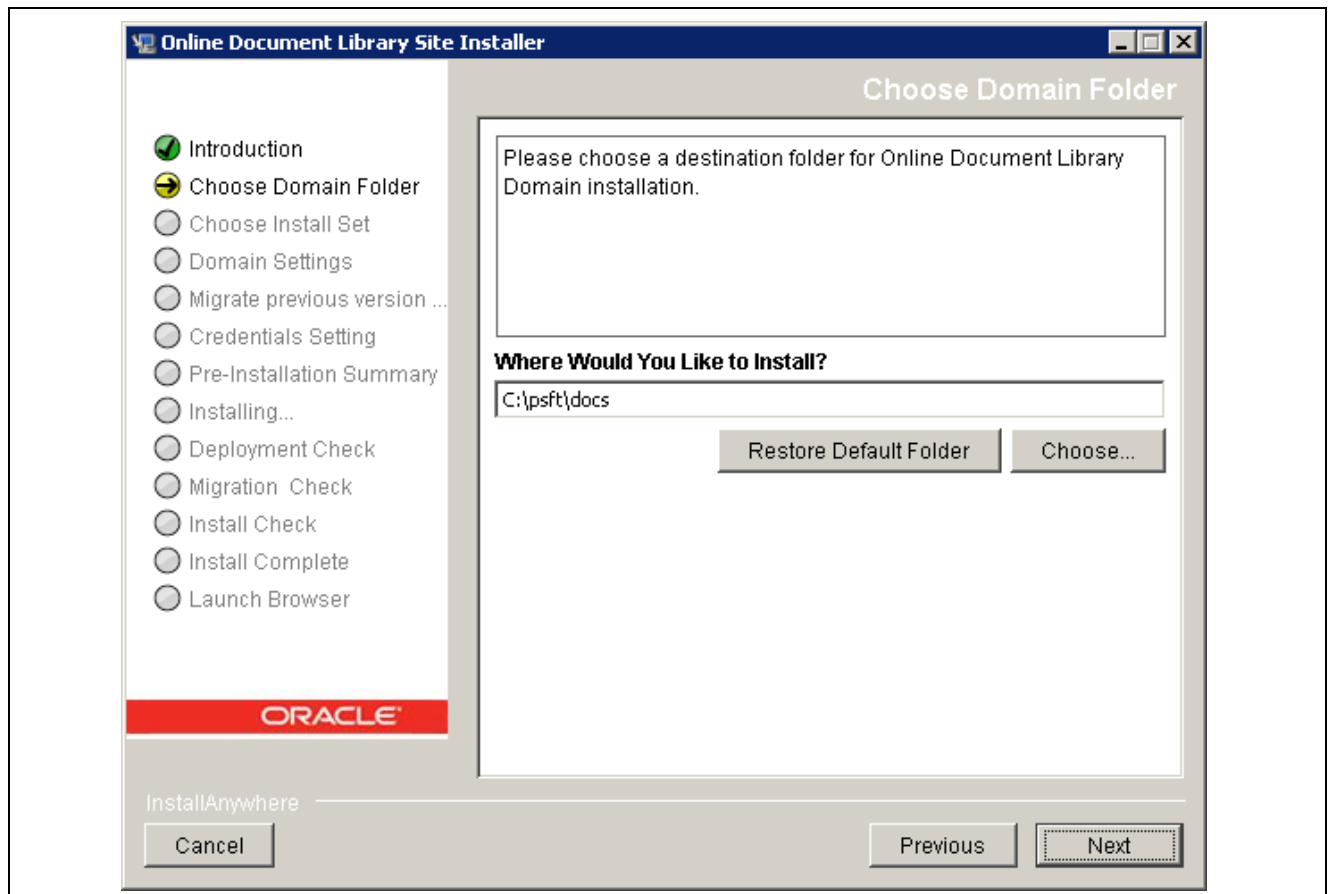
Online Document Library Site Installer Introduction window

3. Specify a location for the root Online Documentation Library Application folder.

Enter the folder in the field labelled “Where Would You Like to Install?” This folder is referred to later in this section as *ODLS_HOME*.

In the following example the root directory is the default, C:\psft\docs.

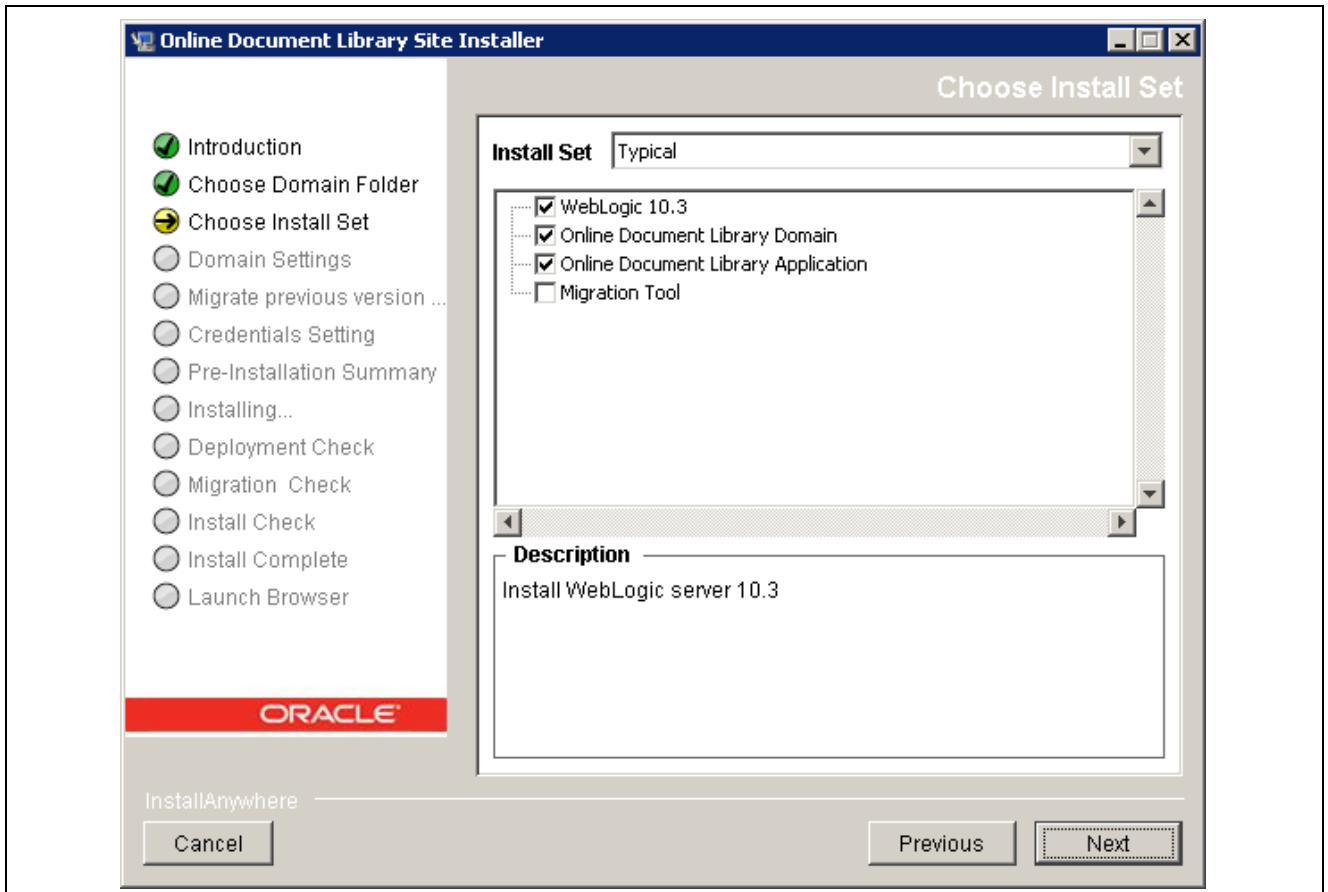
The default directory for Linux or UNIX is /opt/psft/docs.



Online Document Library Site Installer Choose Domain Folder window

4. Select the components to install, and then click Next to proceed.

In the following example the WebLogic 10.3, Online Document Library Domain, and Online Document Library Application are selected. These options are required for the Oracle WebLogic ODL setup, and are described below the example.



Online Document Library Site Installer Choose Install Set window

The following components are included in a typical installation:

- WebLogic 10.3 — This installs the web server engine.
- Online Document Library Domain and Online Document Library Application — These options create the web server application and domain for PeopleBooks.
- Migration Tool — This option migrates an existing PeopleBooks installation.

If you would like to migrate PeopleBooks that reside in an existing PeopleBooks website (under PSOL structure on an attached drive), select this option. Note that the installer expects to migrate the documents in this installer session.

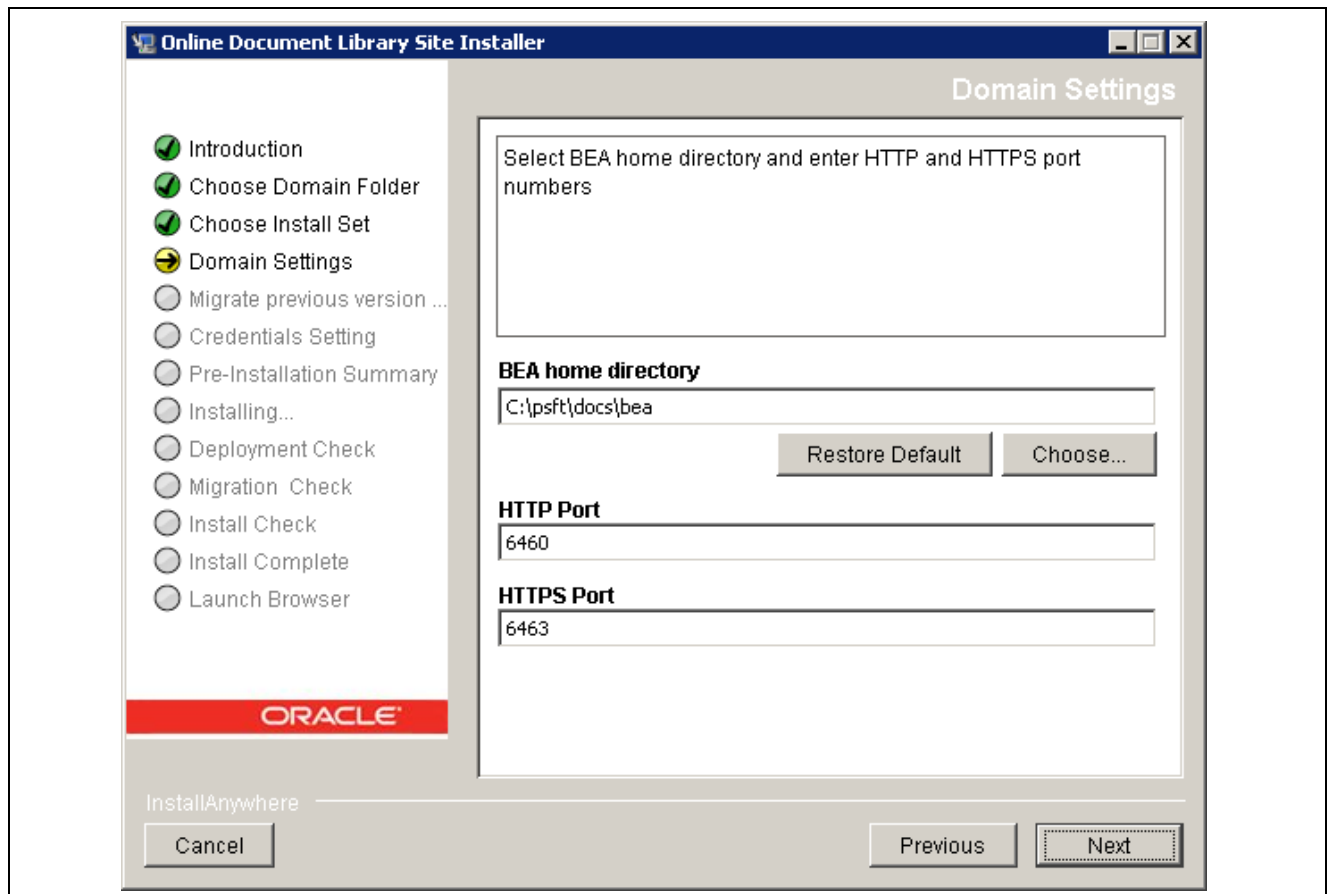
You may also migrate PeopleBooks after installation as described in a later section.

See Migrating Previous Versions.

5. Specify the root folder for the Oracle WebLogic server binary files and the HTTP and HTTPS port numbers for the web server.

This example show the default values for the HTTP and HTTPS ports, which are 6460 and 6463, respectively. Change these values if these port numbers are already in use on your server.

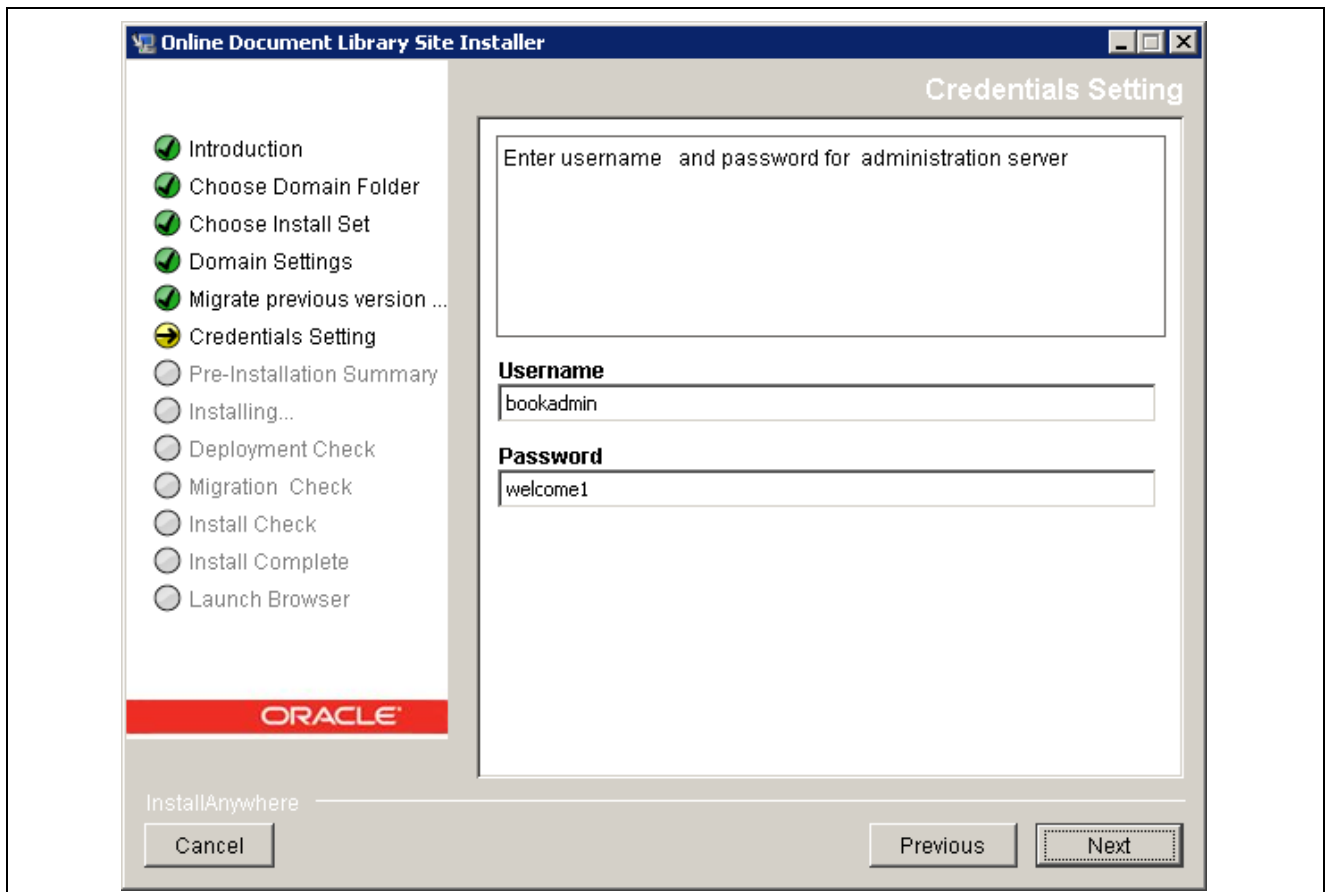
The example shows the default value for the BEA home directory on Microsoft Windows, C:\psft\docs\bea. The default directory for Linux or UNIX is /opt/psft/docs/bea.



Online Document Library Site Installer Domain Settings window

6. Enter a user name for PeopleBooks administration, and enter and confirm the password for that user name.

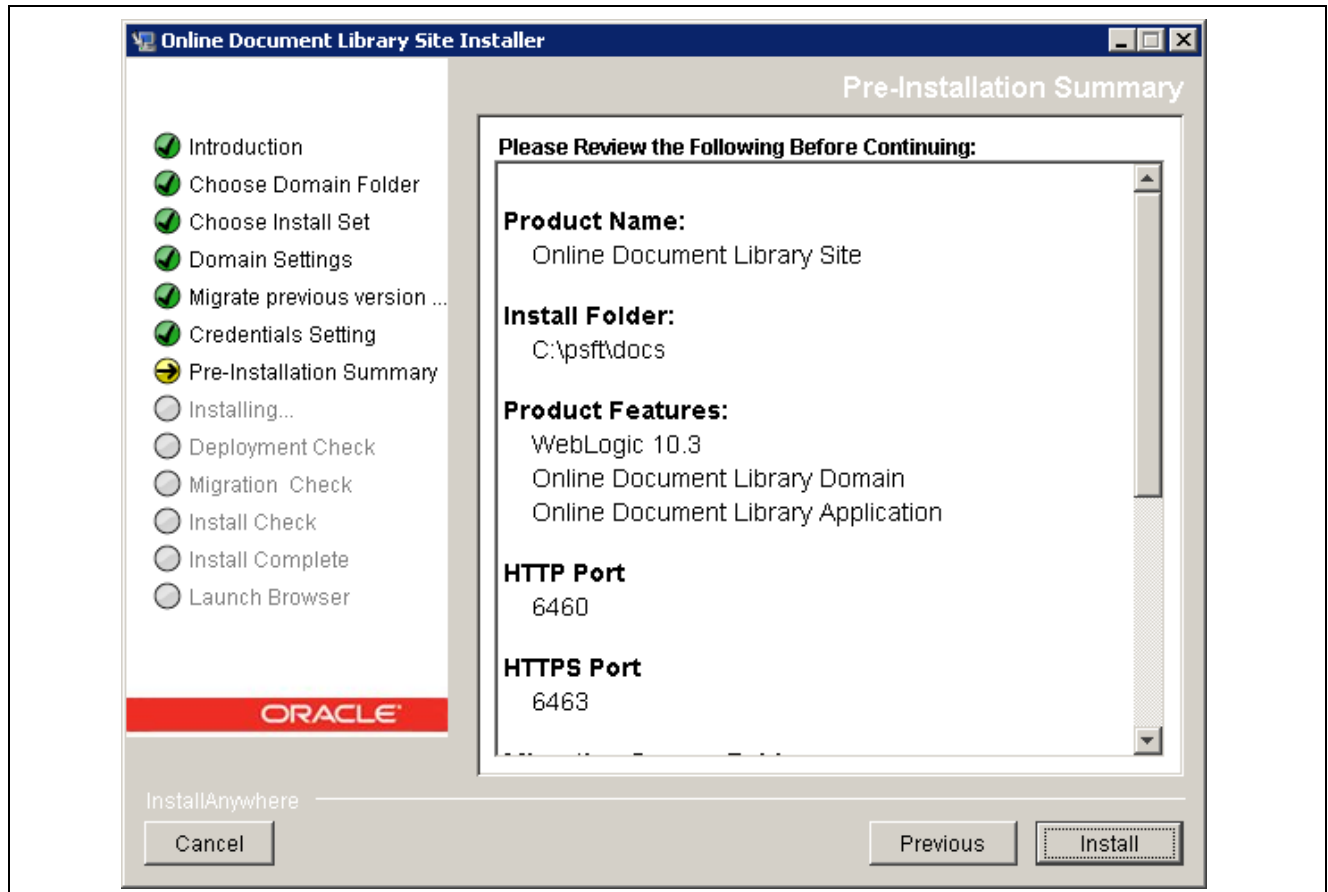
Oracle WebLogic requires an administrator user name and password. You may change these values, but note your changes as you will be prompted for this information when installing PeopleBooks onto the site. This example shows the default values, bookadmin and welcome1.



Online Document Library Site Installer Credentials Setting window

7. Review your selections and click Install to proceed.

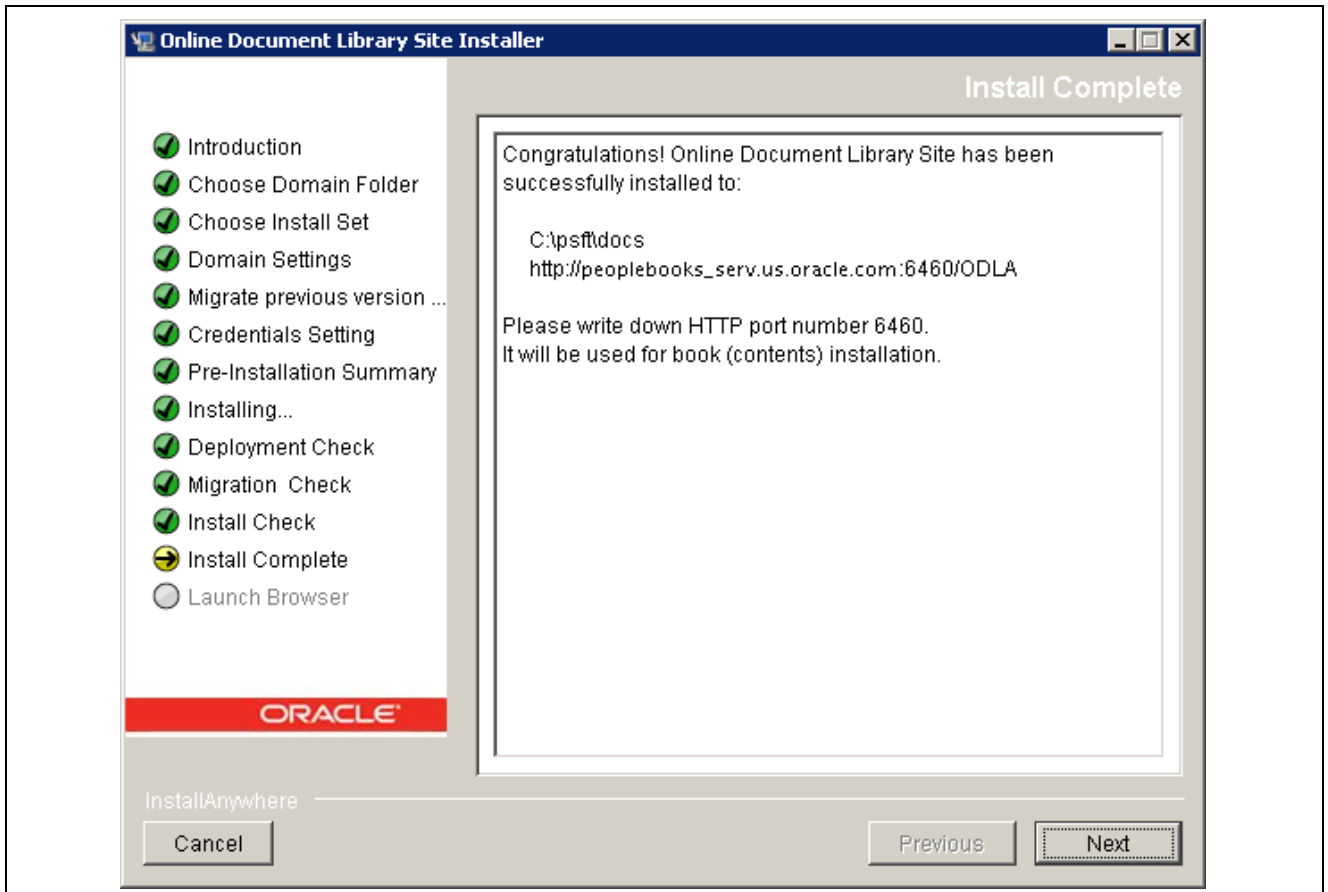
The pre-installation summary shown in this example includes the product name, install folder, product features being installed, HTTP port, and HTTPS port. A progress indicator appears during the installation.



Online Document Library Site Installer Pre-Installation Summary window

8. Click Next to continue on the Install Complete window.

The Install Complete window includes the installation directory and the URL for the ODLS.

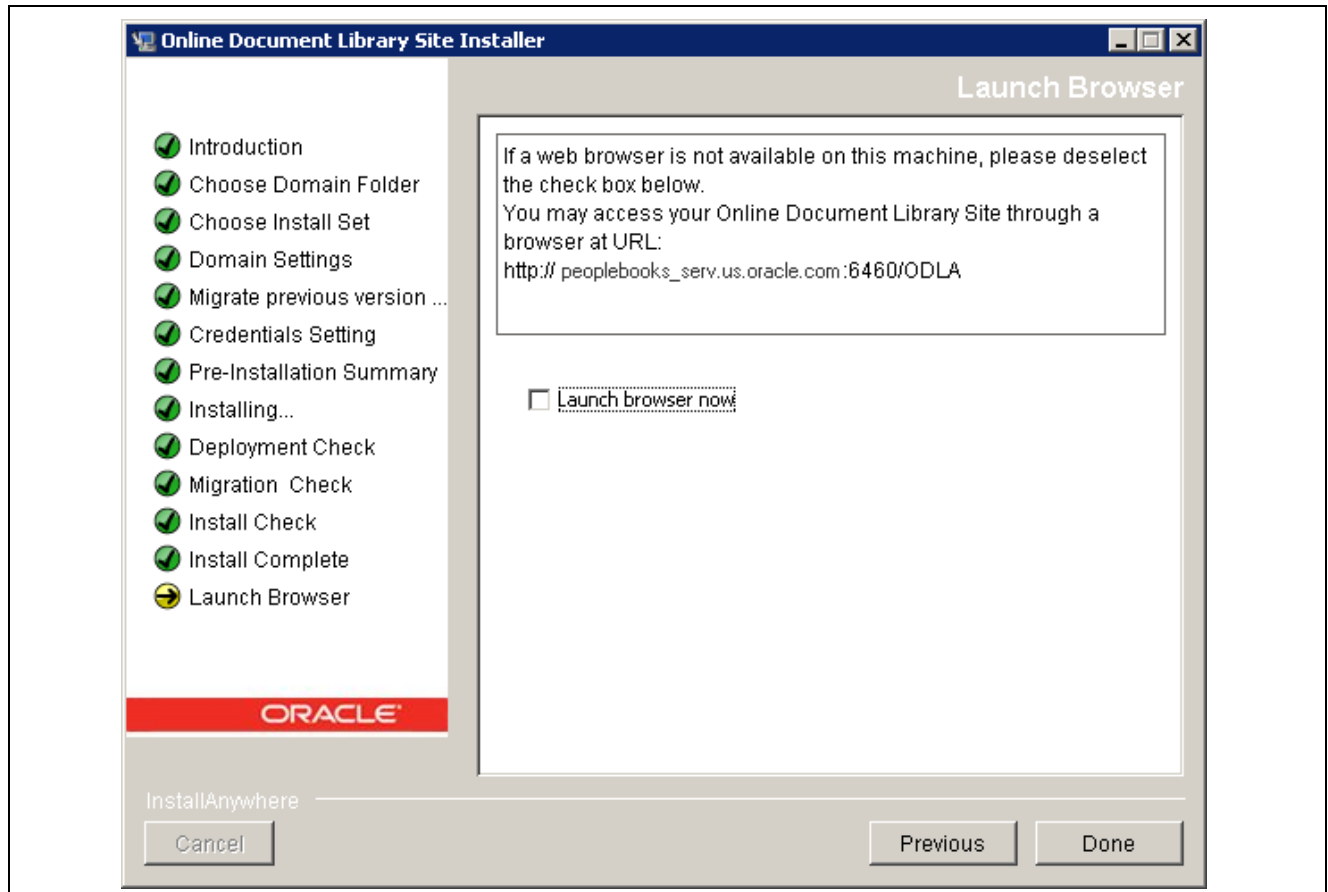


Online Document Library Site Installer Install Complete window

9. When the installation is complete, you have the option to launch the Oracle WebLogic administration console.

If a browser is available on the server where you installed the ODLS, accept the option Launch browser now, and then click Done. Otherwise, you may return to the previous screen and copy the URL, then paste to a browser launched from another location.

In this example the option is not selected.



Online Document Library Site Installer Launch Browser window

Installing the Online Document Library Site in Console Mode

To install the ODLS in console mode:

1. Set the environment variables for JDK as previously described.
See Setting Environment Variables for Oracle WebLogic.
2. Go to the directory where you downloaded the ODLS installer, referred to here as *ODL_INSTALL*, and run the executable.

For Microsoft Windows:

```
ODL_INSTALL\odlwin -i console
```

For Linux or UNIX:

```
sh ODL_INSTALL/odlgenericunix.bin -i console
```

3. Press ENTER to proceed after the introduction prompt:

```
Preparing CONSOLE Mode Installation...
```

```
=====
Online Document Library Site                (created with InstallAnywhere)
-----
=====
```

Introduction

InstallAnywhere will guide you through the installation of Online Document Library Site.

Before proceeding, please confirm your system meets the prerequisites for installing Online Document Library Site.

This installer installs WebLogic 10.3, Online Document Library Domain, Online Document Library Application and Migration Tool.

Respond to each prompt to proceed to the next step in the installation. If you want to change something on a previous step, type 'back'.

You may cancel this installation at any time by typing 'quit'.

PRESS <ENTER> TO CONTINUE:

4. Specify a location for the root Online Document Library Domain directory.

This folder is referred to later in this section as *ODLS_HOME*.

This example uses the default directory for Microsoft Windows, C:\psft\docs. The default directory for Linux or UNIX is /opt/psft/docs.

Press ENTER to continue.

=====

Choose Domain Folder

Please choose a destination folder for Online Document Library Domain installation.

Where would you like to install?

Default Install Folder: C:\psft\docs

ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT

:c:\psft\docs

INSTALL FOLDER IS: c:\psft\docs

IS THIS CORRECT? (Y/N): Y

5. Enter the number for the type of installation you want, and press ENTER.

The default is 1, Typical installation. You can also select 2, Minimal, or 3, Customize.

=====

Choose Install Set

Please choose the Install Set to be installed by this installer.

->1- Typical

2- Minimal

3- Customize...

ENTER THE NUMBER FOR THE INSTALL SET, OR PRESS <ENTER> TO ACCEPT THE DEFAULT :

6. If you specify *1*, Typical installation, the prompt lists the components that will be installed.

Enter *1* to Continue, *2* to re-enter, or *3* to start over, and then press ENTER.

```
=====
Selected Product Features
-----
```

Your selected features are:
WebLogic, Domain, Application

```
->1- Continue
    2- Re-enter
    3- Start over
```

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:

The following components are included in a typical installation:

- WebLogic 10.3 — This installs the web server engine.
- Online Document Library Domain and Online Document Library Application — These options create the web server application and domain for PeopleBooks.
- Migration Tool — This option migrates an existing PeopleBooks installation.

If you would like to migrate PeopleBooks that reside in an existing PeopleBooks website (under PSOL structure on an attached drive), select this option. Note that the installer expects to migrate the documents in this installer session.

You may also migrate PeopleBooks after installation as described in a later section.

Note. Migrating Previous Versions.

7. If you specify *2*, Minimal, the prompt indicates that the installation includes only the Online Document Library Application:

```
=====
Selected Product Features
-----
```

Your selected features are:

You have chosen to install the Online Document Library Application only. =>
Please note this requires WebLogic 10.3.2 reside on the server where you are=>
installing

```
->1- Continue
    2- Re-enter
    3- Start over
```


ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:

8. If you specify 3, Customize, the prompt lists the features.

Enter the number to select a feature:

=====

Choose Product Features

ENTER A COMMA_SEPARATED LIST OF NUMBERS REPRESENTING THE FEATURES YOU WOULD LIKE TO SELECT, OR DESELECT. TO VIEW A FEATURE'S DESCRIPTION, ENTER '?<NUMBER>'. PRESS <RETURN> WHEN YOU ARE DONE:

- 1- [X] WebLogic 10.3
- 2- [X] Online Document Library Domain
- 3- [X] Online Document Library Application
- 4- [] Migration Tool

Please choose the Features to be installed by this installer.:

9. Specify the root directory for the Oracle WebLogic server binary files.

The default for Microsoft Windows is C:\psft\docs\bea. The default directory for Linux or UNIX is /opt/psft/docs/bea.

=====

BEA HOME

Enter BEA home directory path (e.g. /opt/psft/docs/bea).

BEA HOME (DEFAULT: c:\odldroot\bea):

10. Specify the HTTP and HTTPS port numbers.

This example show the default values for the ports, which are 6460 and 6463. Change these values if these port numbers are already in use on your server.

=====

HTTP Port

Enter HTTP port for the server.

HTTP Port (DEFAULT: 6460):

=====

HTTPS Port

Enter HTTPS port for the server.

HTTPS Port (DEFAULT: 6463):

11. Specify the user name and password for PeopleBooks administration.

Oracle WebLogic requires an administrator user name and password. You may change these values, but note your changes as you will be prompted for this information when installing PeopleBooks onto the site. This example shows the default values, bookadmin and welcome1.

```
=====
```

```
User name
```

```
-----
```

```
Enter username for administration server.
```

```
Username (DEFAULT: bookadmin):
```

```
=====
```

```
Password
```

```
-----
```

```
Enter password for administration server.
```

```
Password (DEFAULT: welcome1):
```

12. Review the pre-installation summary and press ENTER to continue:

```
=====
```

```
Pre-Installation Summary
```

```
-----
```

```
Please Review the Following Before Continuing:
```

```
Product Name:
```

```
Online Document Library Site
```

```
Install Folder:
```

```
C:\psft\docs
```

```
Product Features:
```

```
WebLogic 10.3,  
Online Document Library Domain,  
Online Document Library Application
```

```
HTTP Port
```

```
6460
```

```
HTTPS Port
```

```
6463
```

```
Migration Source Path
```

```
Migration Destination Folder Name
```

```

        folder1

Username
    bookadmin

Password
    welcome1

BEA Home
    c:\psft\docs\bea

PRESS <ENTER> TO CONTINUE:
=====
NOTICE
-----

Background processing will continue after progress indicator is full. Please be
patient while the installer configures your system.

PRESS <ENTER> TO ACCEPT THE FOLLOWING

-> OK:

```

13. When the installation is complete, press ENTER to exit the installer.

```

=====
Installation Complete
-----

Congratulations! Online Document Library Site has been successfully installed
to:

c:\psft\docs
http://peoplebooks_serv:6460/ODLA

Please write down HTTP port number 6460.
It will be used for book (contents) installation.

PRESS <ENTER> TO EXIT THE INSTALLER:

C:\temp>

```

Task D-1-5: Installing IBM WebSphere with Online Document Library Application Deployment

This section discusses:

- Understanding the Installation of IBM WebSphere with Online Document Library Application Deployment
- Installing IBM WebSphere for Online Document Library Application Deployment
- Configuring IBM WebSphere Application Server

- Deploying ODLA.war and Mapping the Security Role

Understanding the Installation of IBM WebSphere with Online Document Library Application Deployment

The PeopleBooks installation uses the same version of IBM WebSphere used for PeopleSoft PeopleTools 8.51. However, because the PeopleBooks installation requires that IBM WebSphere be installed with enabled security, you cannot use the web server that you installed as your PeopleSoft PeopleTools web server, which does not include enabled security.

Use the instructions given earlier in this document for downloading IBM WebSphere.

See "Installing Web Server Products," Installing IBM WebSphere Application Server, Obtaining IBM WebSphere Installation Files from Oracle E-Delivery.

As mentioned earlier in this appendix, you should have downloaded the ODL file for IBM WebSphere deployment to a convenient local directory, referred to here as *ODL_INSTALL*.

See Obtaining PeopleBooks and Web Server Installation Files from Oracle E-Delivery.

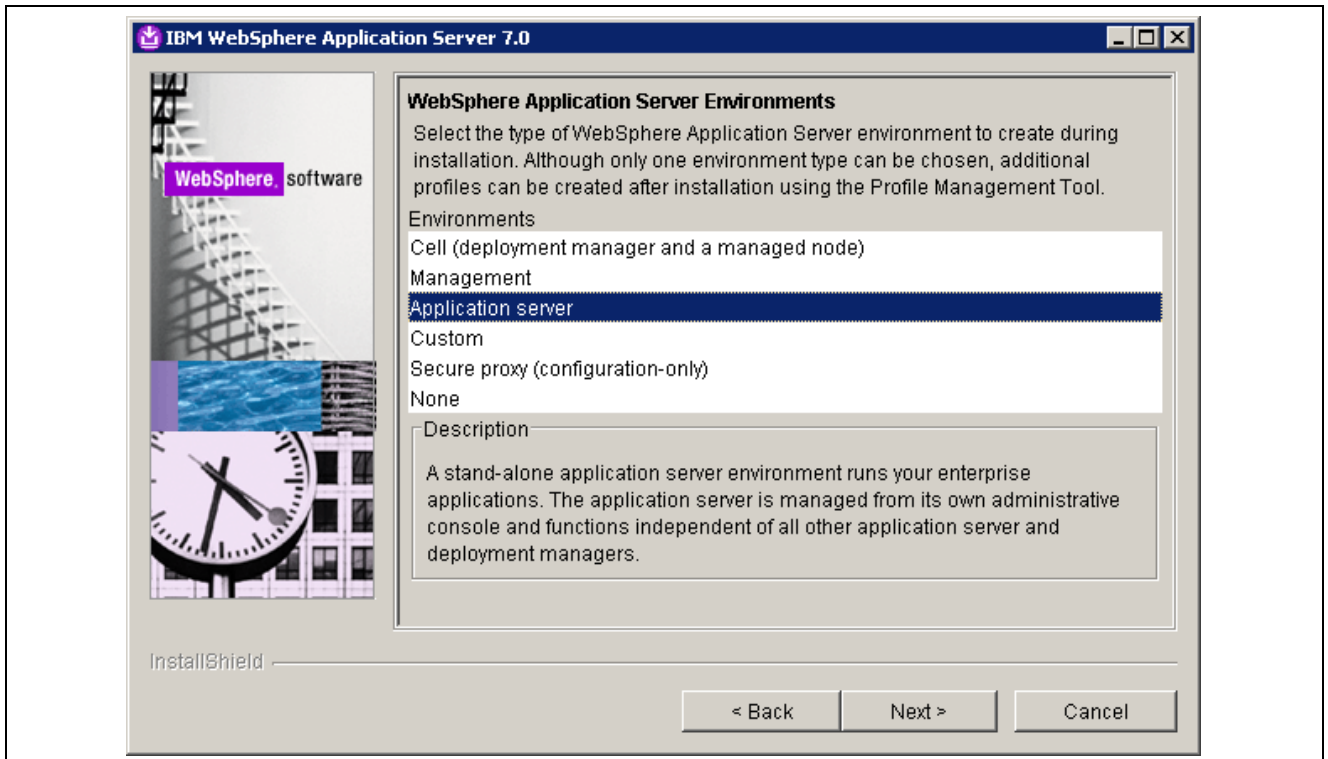
Installing IBM WebSphere for Online Document Library Application Deployment

These instructions refer to those given earlier for installing IBM WebSphere, but two of the steps require different actions. The IBM WebSphere installation requires the installation of a base product, update installer, and fix packs. There are several possible installation configurations, which are out of the scope of this section. This section uses the section Installing IBM WebSphere 7.0.0.7 ND on Microsoft Windows as an example.

See "Installing Web Server Products," Installing IBM WebSphere Application Server.

To install IBM WebSphere:

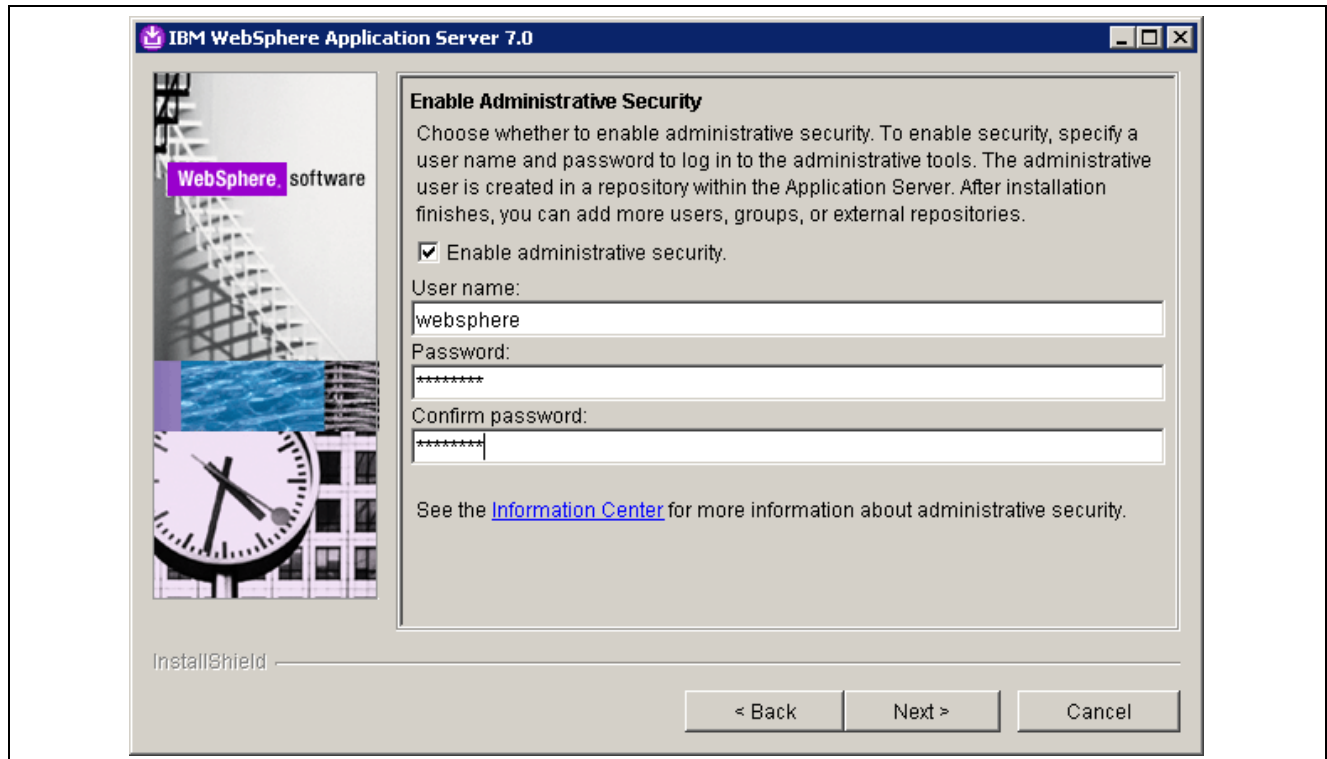
1. Launch the installer and follow the instructions given earlier.
2. Follow the earlier instructions until you reach the window WebSphere Application Server Environments.
3. Select Application server from the list of environments, as shown in this example:



IBM WebSphere Application Server 7.0 WebSphere Application Server Environments window

4. At the window Enable Administrative Security, select the option Enable administrative security.
5. Enter a User name for an administrative account, the PeopleBooks administrator, or a user name that will serve as both. Enter and confirm the password for the account.

In this example, the User name is websphere, and the password is password. The Enable administrative security option is selected.



IBM WebSphere Application Server 7.0 Enable Administrative Security window

6. Complete the installation.

For the purposes of this discussion, the installation directory for IBM WebSphere is `C:\WAS7007\AppServer`, referred to as *WAS_HOME*.

Configuring IBM WebSphere Application Server

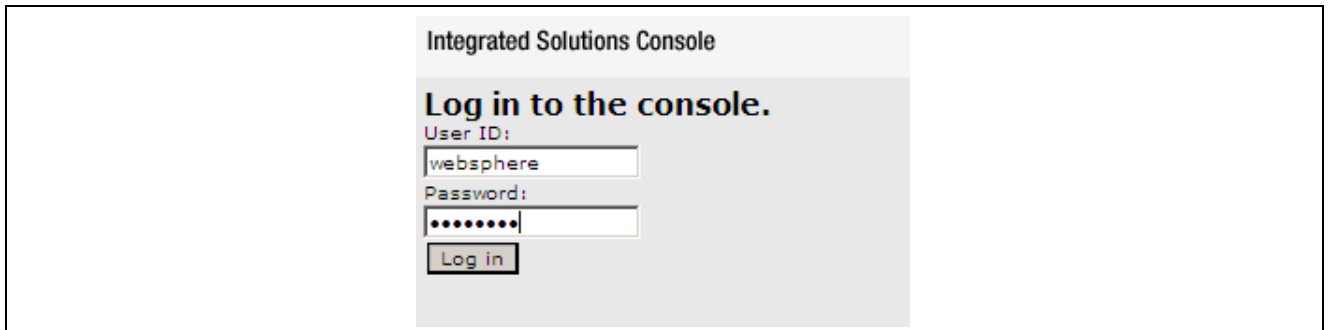
You must activate administrative security and create a PeopleBooks administrative user in the IBM WebSphere administrative console. To access the console, look in the directory *WAS_HOME*/profiles/AppSrv01/logs/AboutThisProfile.txt to determine the port number for your administrative console and default HTTP port. You must turn on the web server before accessing the console.

To enable security:

1. Open the IBM WebSphere administrative console in a browser using this URL:
`http://<myserver>:<port>/ibm/console`
2. Log in using the user name and password you entered in the previous section on the Enable Administrative Security window..

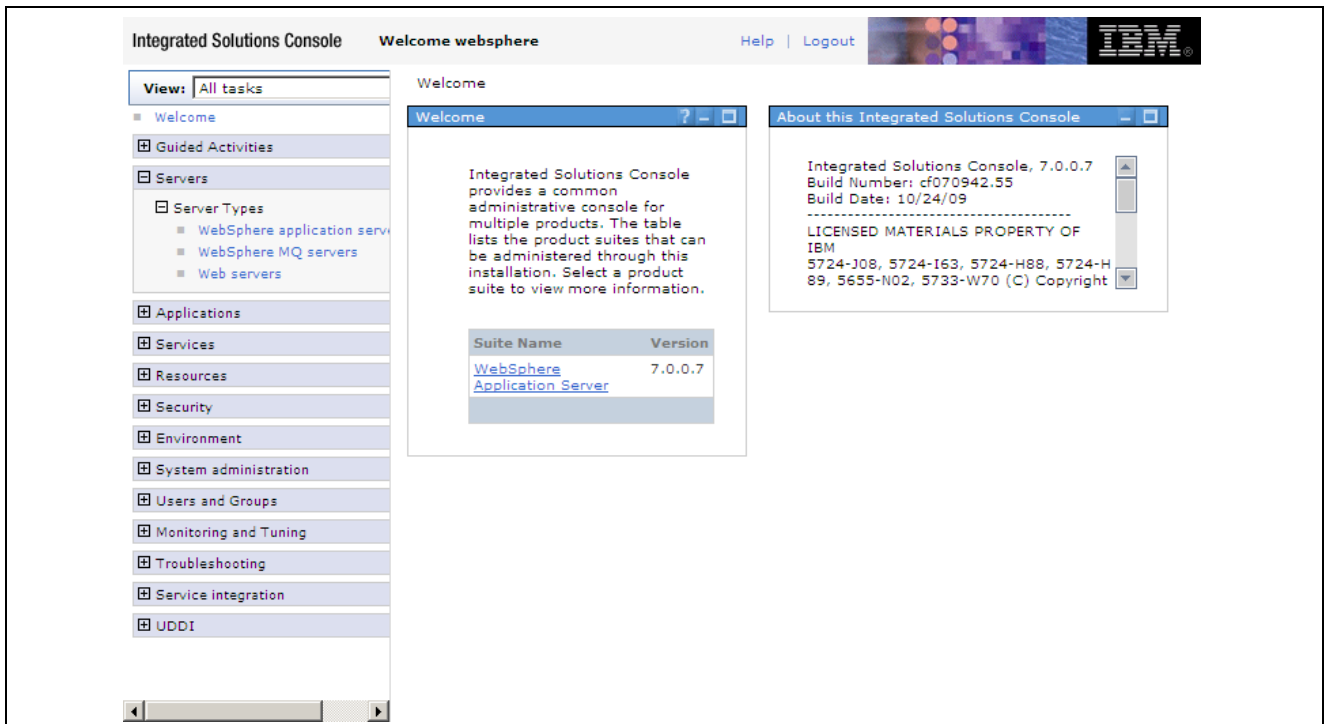
In this example, the user name and password are `websphere` and `password`, respectively.

Note. For the purposes of readability, many of the examples in this section include only a portion of the browser window.



IBM WebSphere Integrated Solutions Console log in

3. Select Server, Server Types, WebSphere Application Servers from the left-hand menu.



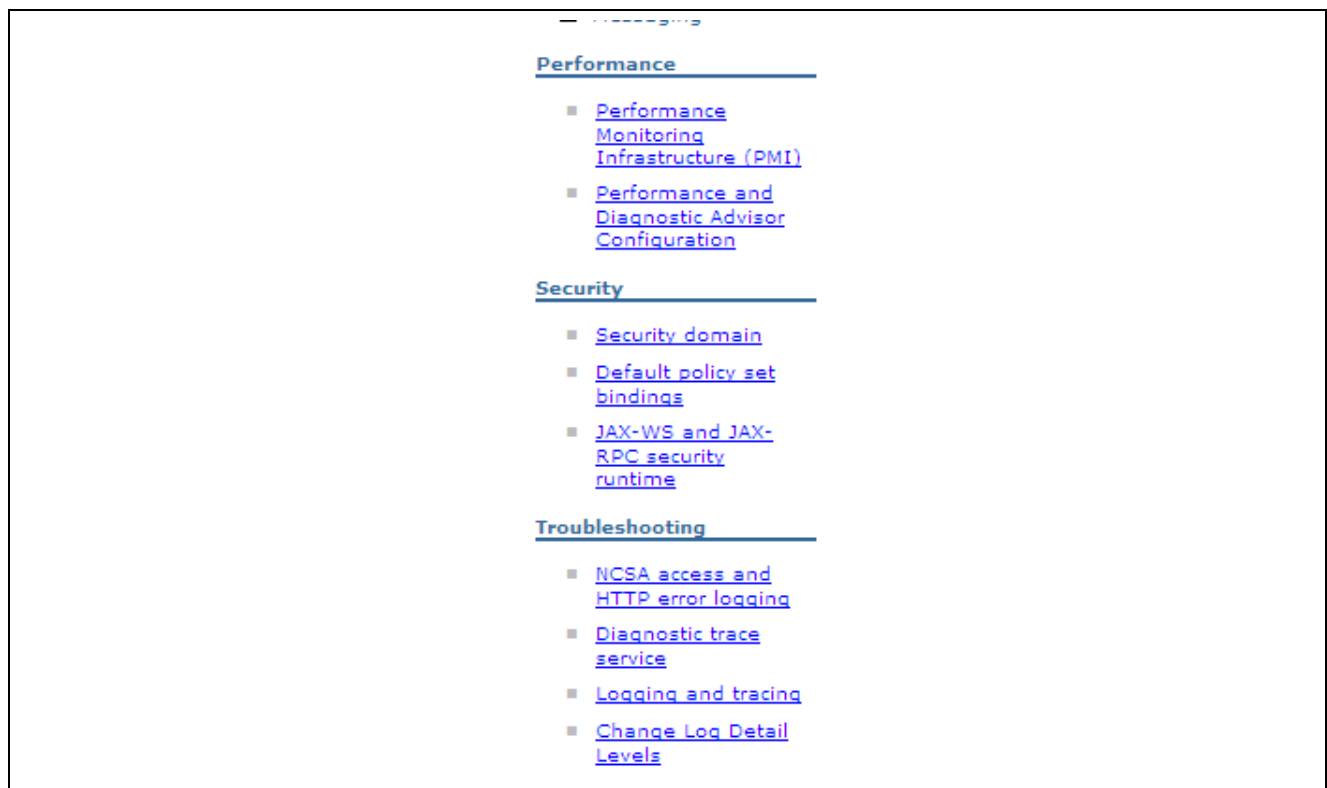
IBM WebSphere Integrated Solutions Console Welcome page

4. Select the server1 link in the Application servers area.



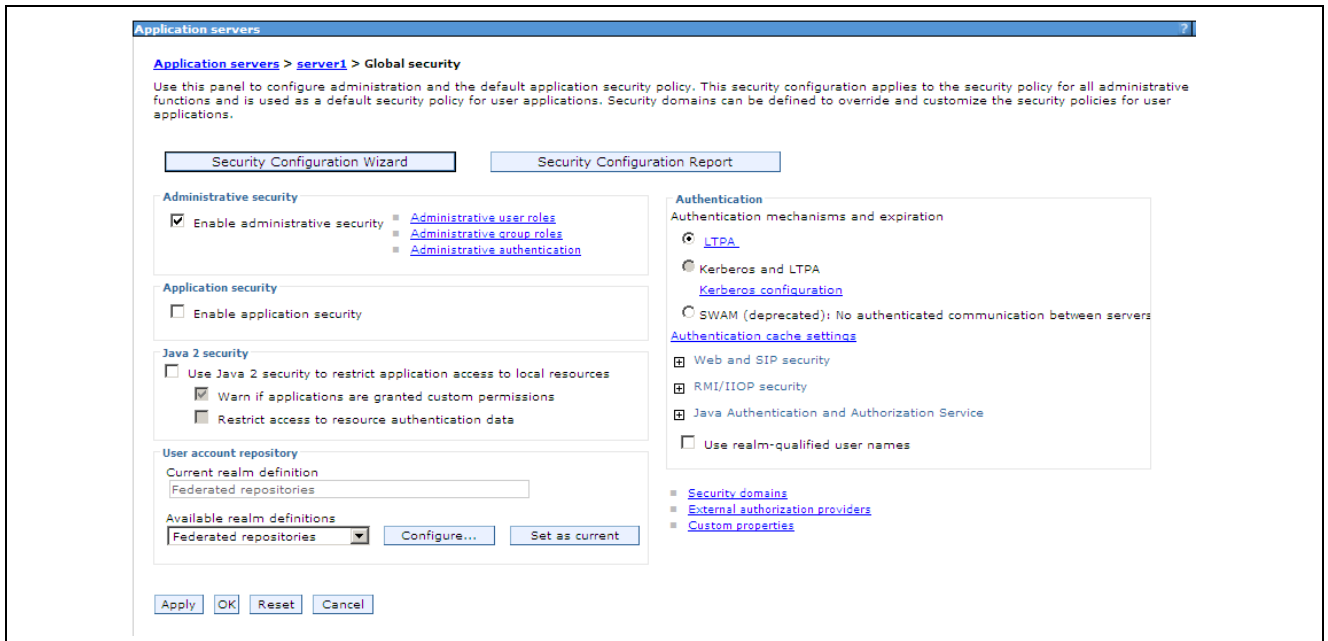
IBM WebSphere Integrated Solutions Console Application servers page

5. On the Application servers page, select Security domain, under Security.



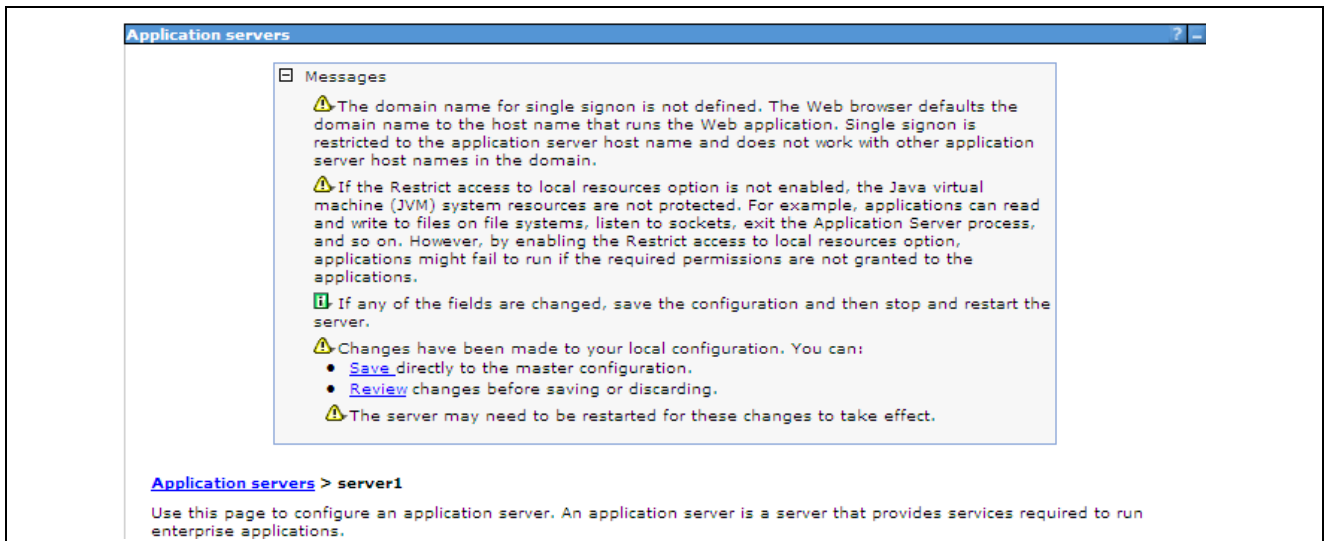
Security domain link on the Application servers page

6. Select the option Enable application security in the Administrative security area, and then click OK.



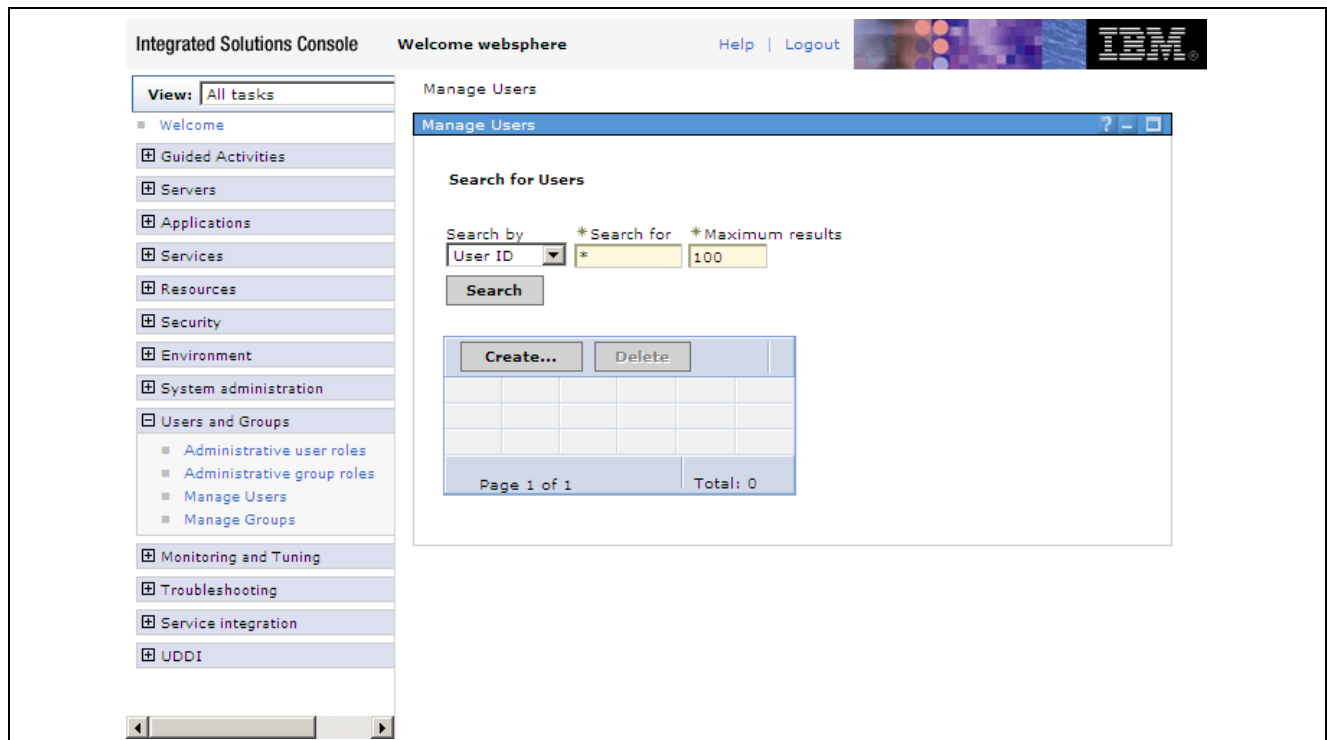
IBM WebSphere Integrated Solutions Console Global security page

7. If prompted with a message that the local configuration was changed, click the Save link in “Save directly to the master configuration.”



IBM WebSphere Integrated Solutions Console with warning message

8. Select Users and Groups, Manage Users.



IBM WebSphere Integrated Solutions Console Manage Users page

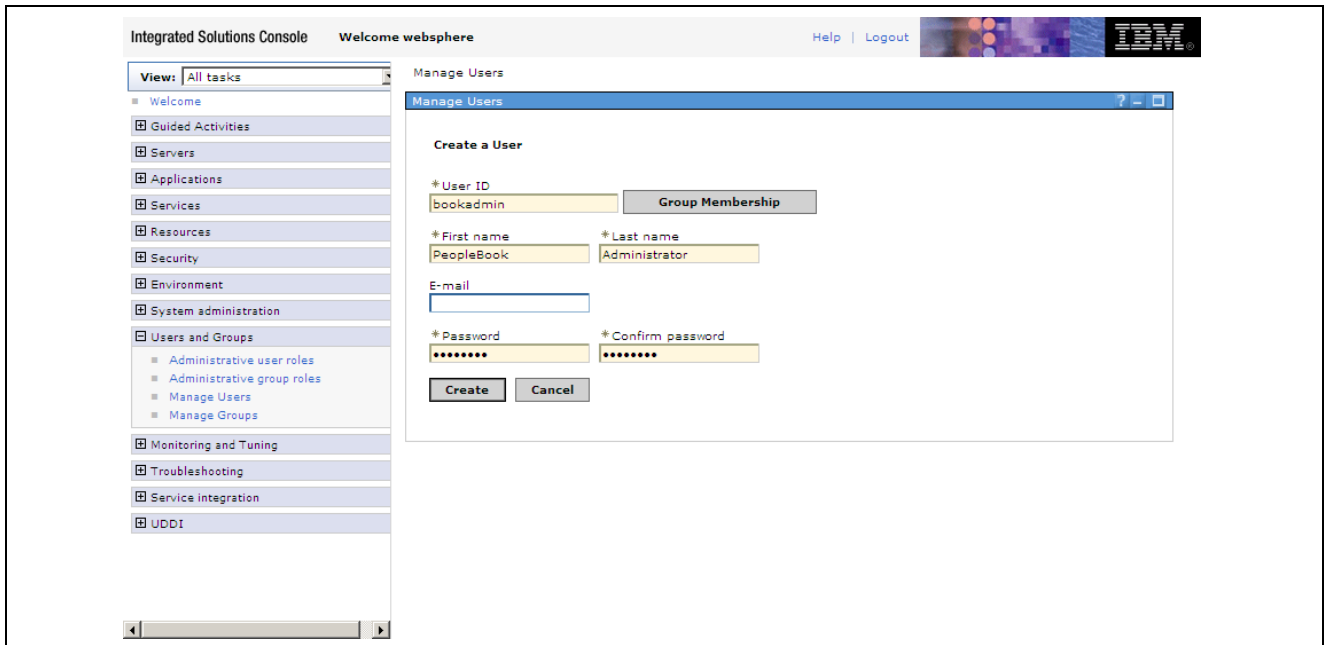
9. Click the Search button to display any users in the system.

If an appropriate User ID already exists that may be used for PeopleBook management, proceed to the next step.

10. If no appropriate user exists, click the Create button.

Enter a User ID; enter and confirm a password to use.

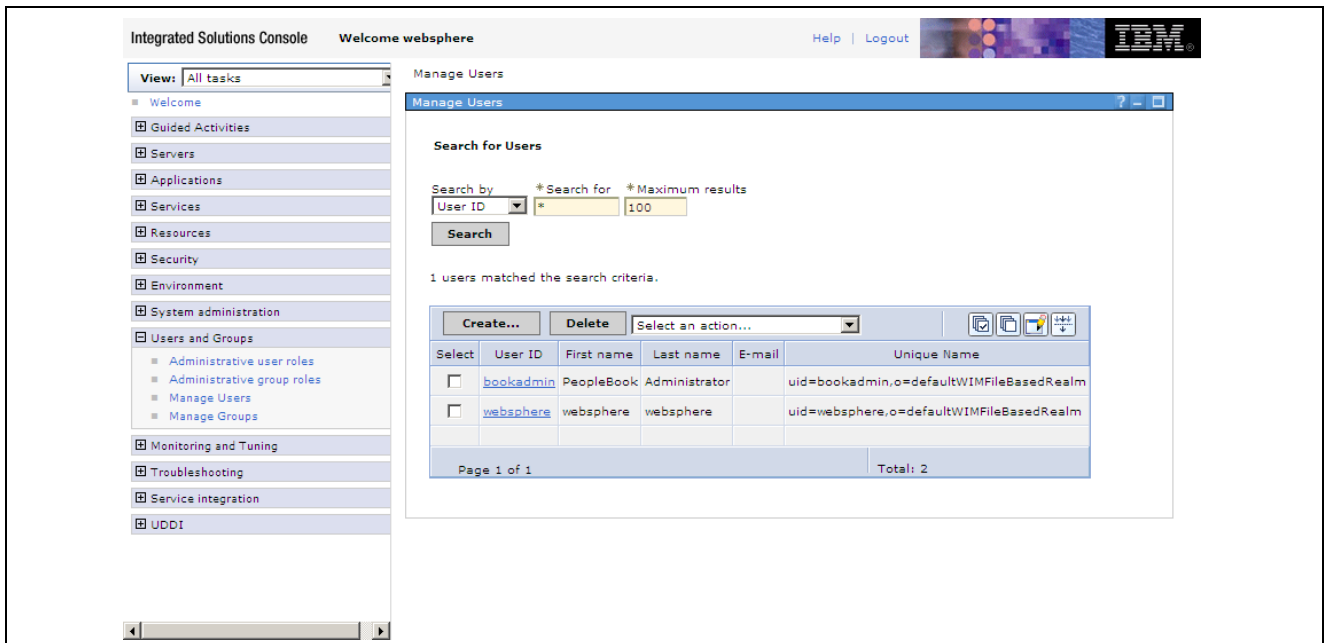
Note. If allowed by your security protocol, it may be convenient to use the default name and password for the PeopleBooks administrator, bookadmin and welcome1, as shown in this example.



IBM WebSphere Integrated Solutions Console Create a User page

11. Click Create.

The new User ID is listed on the Manage Users page.

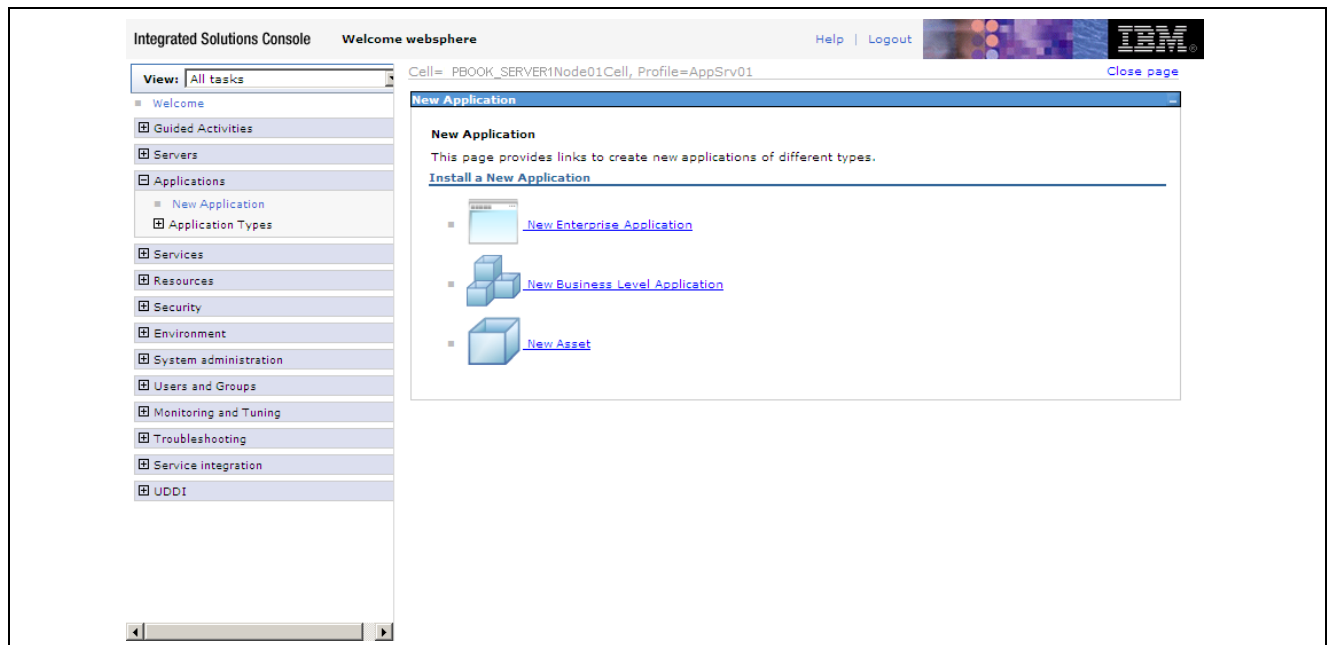


Manage Users page with new User ID

Deploying ODLA.war and Mapping the Security Role

This section assumes that you are logged into the IBM WebSphere console, and have downloaded the ODLA.war file to a directory referred to as *ODL_INSTALL*.

1. Select Applications, New Application.
2. Select New Enterprise Application.

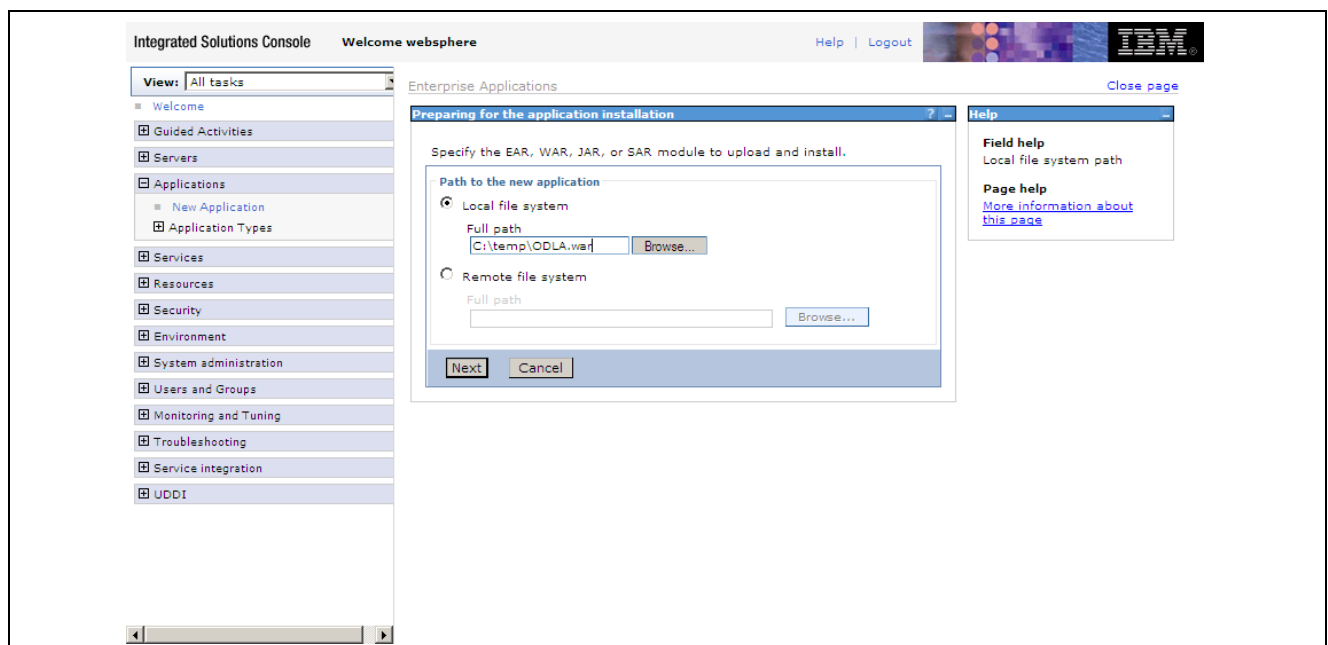


IBM WebSphere Integrated Solutions Console New Application page

3. Enter the path to ODLA.war, *ODL_INSTALL*.

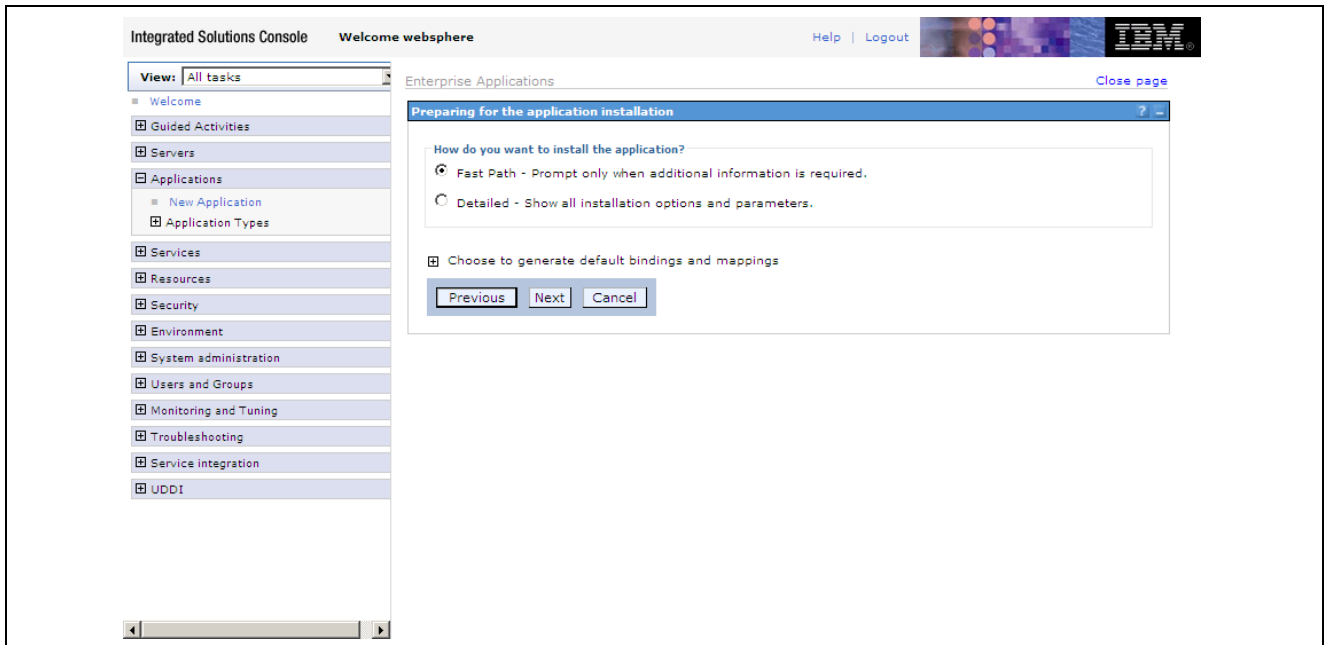
Click Next, and wait while the application loads. This may take a few minutes.

In this example, the path is entered under Local File System.



IBM WebSphere Integrated Solutions Console Preparing for the application installation page

4. On the Enterprise Applications page, be sure that the option Fast Path is selected, and click Next.

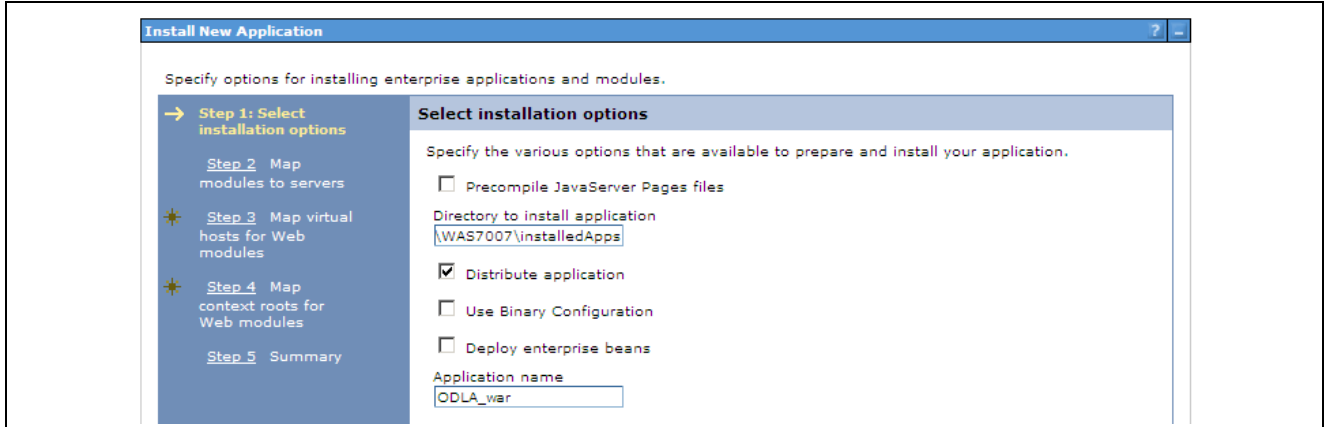


Verifying the Fast Path installation method

- On the Step 1: Select Installation Options page, specify an installation location under Directory to install application.

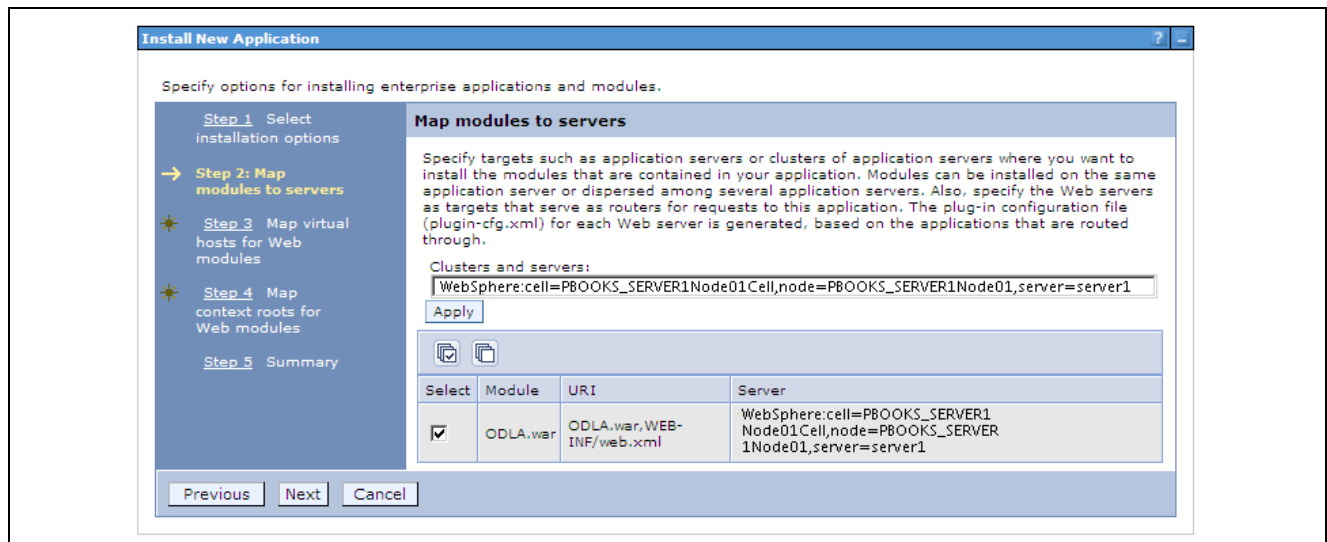
Accept the other default options on the page.

In this example, the installation directory is *WAS_HOME\installedApps*:



Install New Application Step 1: Select installation options page

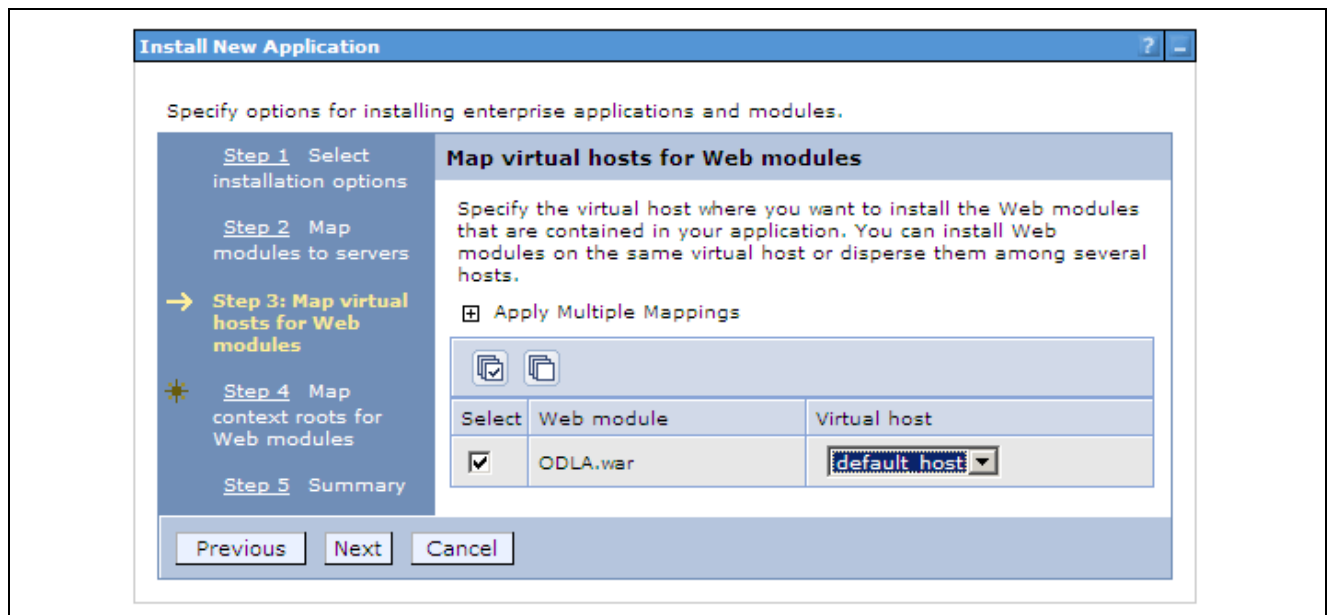
- On the Step 2: Map modules to servers page, select ODLA.war, and then click Next.



Install New Application Step 2: Map modules to servers page

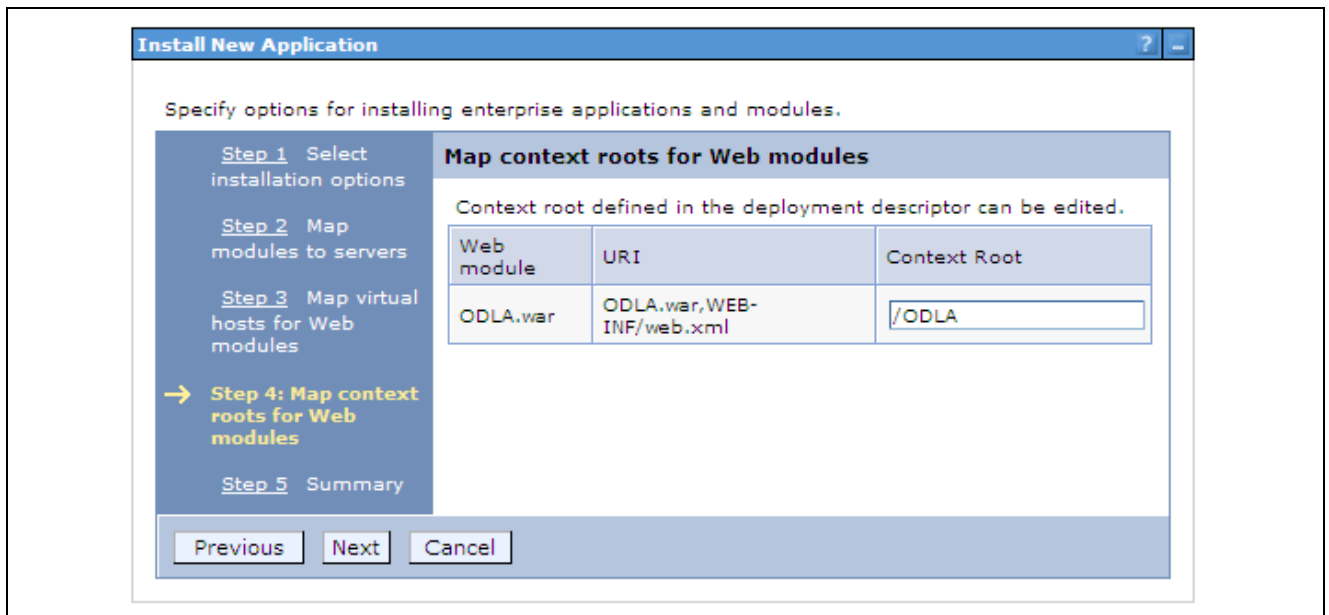
7. On the Step 3: Map virtual host for Web Modules page, select the ODLA.war module, choose the virtual host, and then click Next.

This example selects the default_host as the virtual host.



Install New Application Step 3: Map virtual hosts for Web modules page

8. On the Step 4: Map context roots for Web modules page, enter /ODLA in the Context Root text box, and then click Next.



Install New Application Step 4: Map context roots for Web modules page

9. On the Step 5: Summary page, click Finish.

Install New Application

Specify options for installing enterprise applications and modules.

Step 1 Select installation options

Step 2 Map modules to servers

Step 3 Map virtual hosts for Web modules

Step 4 Map context roots for Web modules

→ Step 5: Summary

Summary

Summary of installation options

Options	Values
Precompile JavaServer Pages files	No
Directory to install application	C:\WAS7007\installedApps
Distribute application	Yes
Use Binary Configuration	No
Deploy enterprise beans	No
Application name	ODLA_war
Create MBeans for resources	Yes
Override class reloading settings for Web and EJB modules	No
Reload interval in seconds	
Deploy Web services	No
Validate Input off/warn/fail	warn
Process embedded configuration	No
File Permission	.*\,dll=755#.*\,so=755#.*\,a=755#.*\,sl=755
Application Build ID	Unknown
Allow dispatching includes to remote resources	No
Allow servicing includes from remote resources	No
Business level application name	
Asynchronous Request Dispatch Type	Disabled
Allow EJB reference targets to resolve automatically	No
Cell/Node/Server	Click here

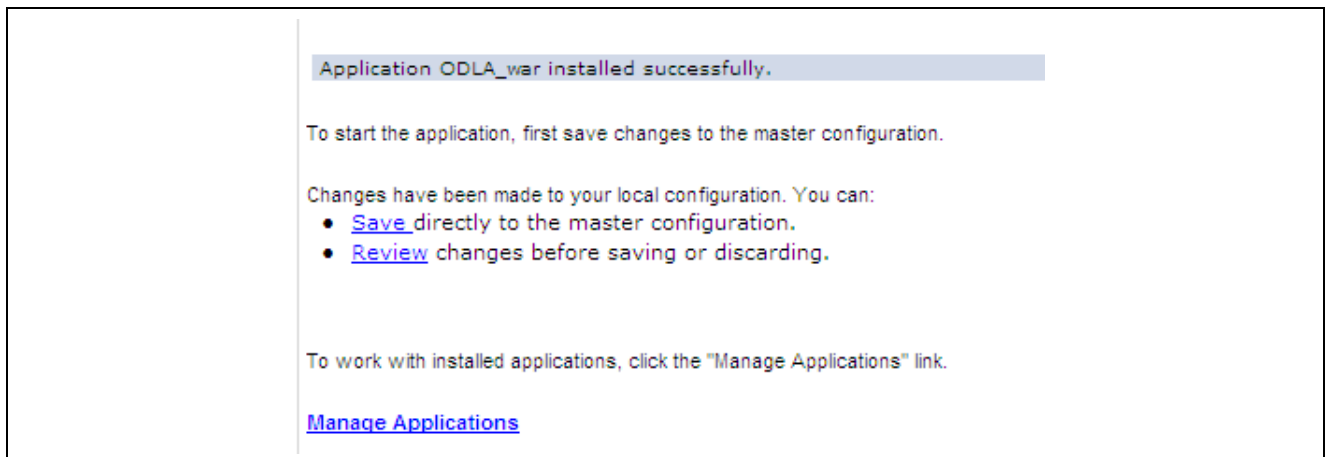
Previous

Finish

Cancel

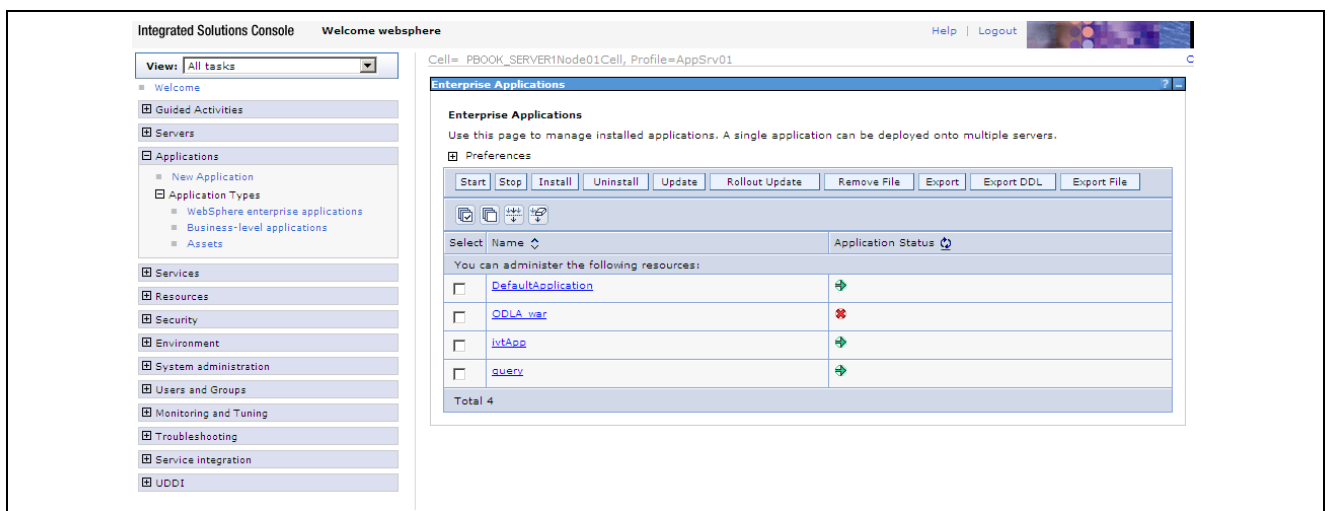
Install New Application Step 5: Summary page

10. Click the Save link in “Save directly to the master configuration.”



Application ODLA_war installed successfully message with Save link

11. Select Applications, Application Types, WebSphere enterprise applications, and then click the ODLA.war link.



IBM WebSphere Integrated Solutions Console Enterprise Applications page

12. Select Security role to user/group mapping under Detail Properties.

The screenshot shows the 'Enterprise Applications' configuration window for the application 'ODLA_war'. The window has a title bar 'Enterprise Applications' and a breadcrumb 'Enterprise Applications > ODLA_war'. Below the breadcrumb is a description: 'Use this page to configure an enterprise application. Click the links to access pages for further configuring of the application or its modules.' A 'Configuration' tab is selected. The main content area is divided into several sections: 'General Properties' with fields for 'Name' (ODLA_war) and 'Application reference validation' (Issue warnings); 'Detail Properties' with a list of links for various application settings; 'References' with links for shared library references and relationships; 'Modules' with links for metadata and module management; 'Web Module Properties' with links for session management, context root, JSP/JSF options, and virtual hosts; 'Enterprise Java Bean Properties' with a link for default messaging provider references; and 'Database Profiles' with a link for SQL profiles and pureQuery bind files. At the bottom are buttons for 'Apply', 'OK', 'Reset', and 'Cancel'.

Enterprise Applications > ODLA_war

Use this page to configure an enterprise application. Click the links to access pages for further configuring of the application or its modules.

Configuration

General Properties

- * Name: ODLA_war
- Application reference validation: Issue warnings

Detail Properties

- [Target specific application status](#)
- [Startup behavior](#)
- [Application binaries](#)
- [Class loading and update detection](#)
- [Request dispatcher properties](#)
- [Security role to user/group mapping](#)
- [View Deployment Descriptor](#)
- [Last participant support extension](#)

References

- [Shared library references](#)
- [Shared library relationships](#)

Modules

- [Metadata for modules](#)
- [Manage Modules](#)

Web Module Properties

- [Session management](#)
- [Context Root For Web Modules](#)
- [JSP and JSF options](#)
- [Virtual hosts](#)

Enterprise Java Bean Properties

- [Default messaging provider references](#)

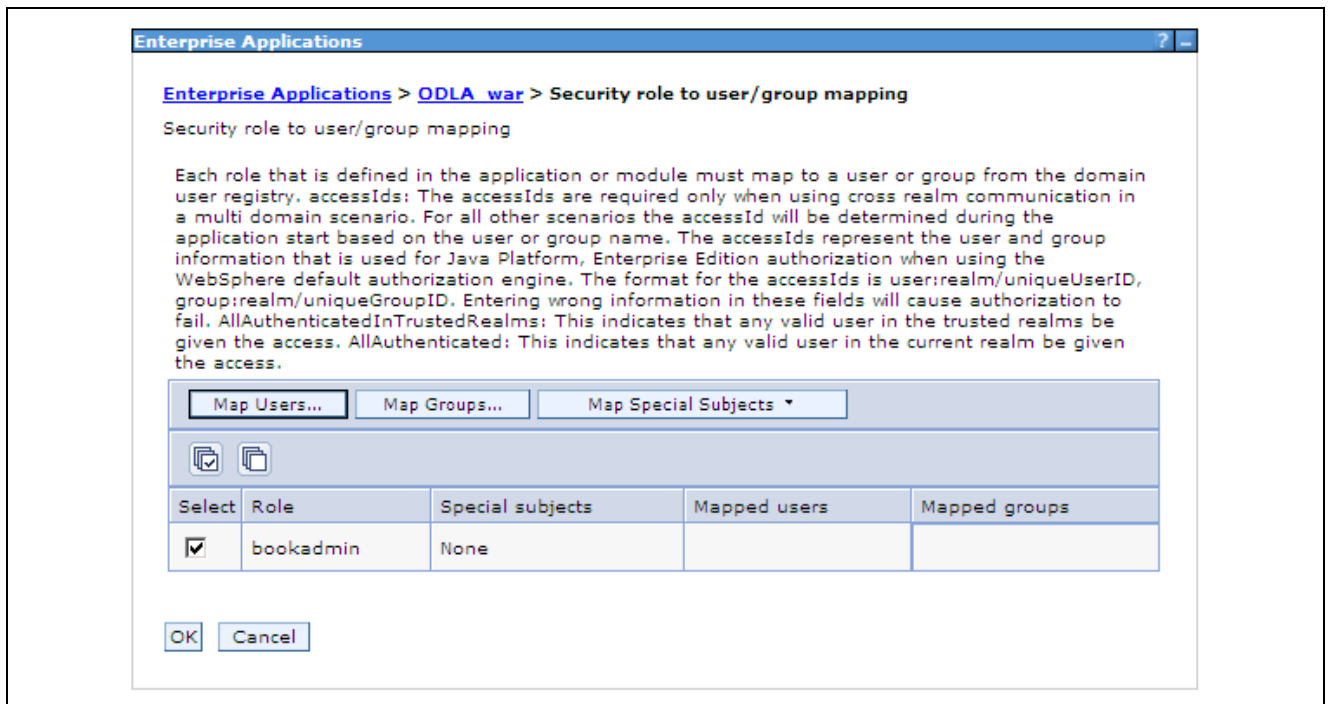
Database Profiles

- [SQL profiles and pureQuery bind files](#)

Apply OK Reset Cancel

IBM WebSphere Integrated Solutions Console Enterprise Applications Configuration page

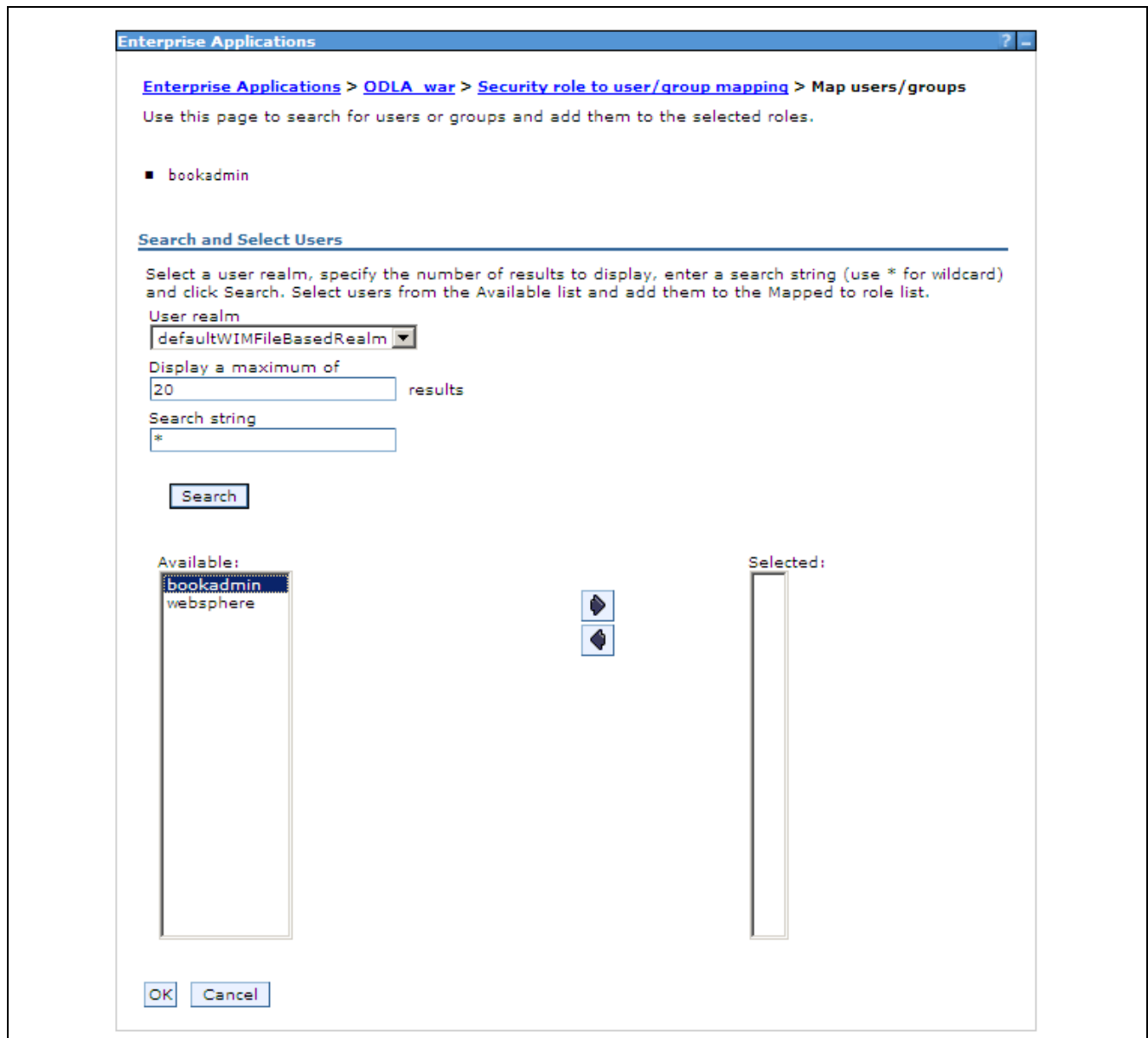
13. Select the check box for the bookadmin role, and click Map Users.



Enterprise Applications Security role to user/group mapping page

14. Click Search.

In the Available column, highlight the user designated for PeopleBooks administration, which is bookadmin in this example, and click the arrow pointing right to move the ID from the Available list to the Selected list. Click OK.

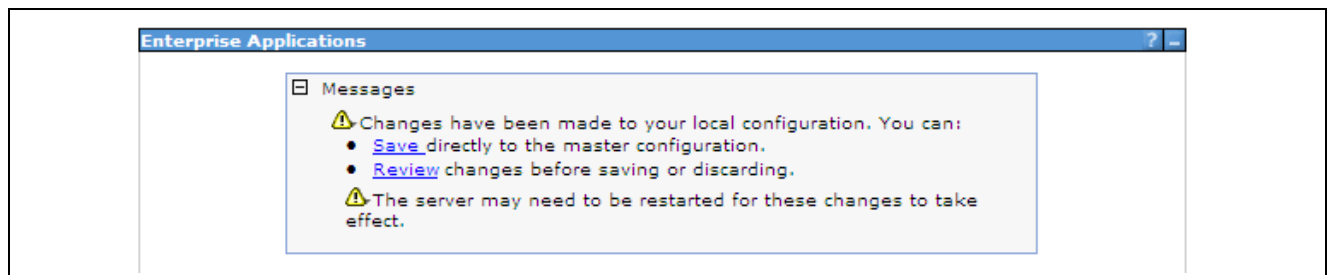


Enterprise Applications Select and Search Users page

15. Click OK.

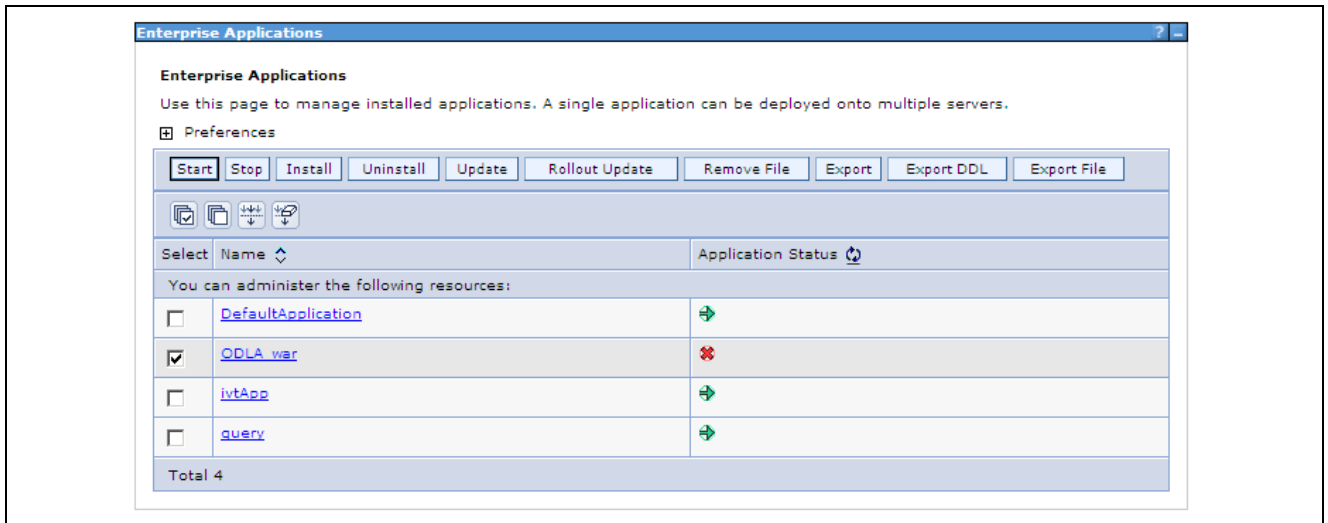
16. On the Enterprise Application page under Messages, select the Save link in “Save directly to the master configuration”.

The message indicates that changes have been made to your local configuration.



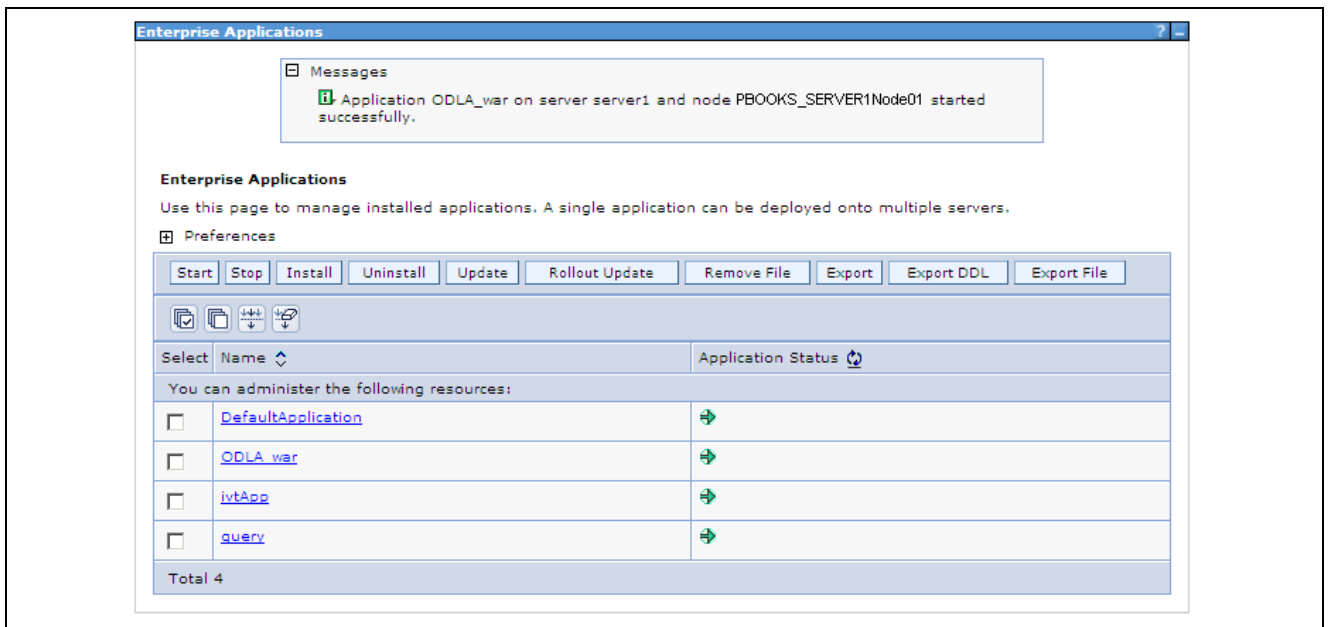
Save directly to the master configuration link on the Enterprise Applications page

17. Select the check box for the ODLA_war application and click Start.



Starting the ODLA_war application on the Enterprise Applications page

When the ODLA_war application has started successfully, a message stating this appears at the top of the page, and the Application Status icon changes from a red cross to a green arrow, as shown in this example:



Enterprise Applications page with message that ODLA_war started successfully

18. To find the HTTP port number to access the deployed ODLA application:

- a. Select Servers, Server Types, WebSphere Application servers.
- b. Select server1.
- c. Select Communications, Ports

The value shown for WC_defaulthost is your application port number. In this example, the port number is 9080.

Communications		
Ports		
Port Name	Port	Details
BOOTSTRAP_ADDRESS	2809	
SOAP_CONNECTOR_ADDRESS	8880	
ORB_LISTENER_ADDRESS	9100	
SAS_SSL_SERVERAUTH_LISTENER_ADDRESS	9401	
CSIV2_SSL_SERVERAUTH_LISTENER_ADDRESS	9403	
CSIV2_SSL_MUTUALAUTH_LISTENER_ADDRESS	9402	
WC_adminhost	9060	
WC_defaulthost	9080	
DCS_UNICAST_ADDRESS	9353	
WC_adminhost_secure	9043	
WC_defaulthost_secure	9443	
SIP_DEFAULTHOST	5060	
SIP_DEFAULTHOST_SECURE	5061	
SIB_ENDPOINT_ADDRESS	7276	
SIB_ENDPOINT_SECURE_ADDRESS	7286	
SIB_MQ_ENDPOINT_ADDRESS	5558	
SIB_MQ_ENDPOINT_SECURE_ADDRESS	5578	
IPC_CONNECTOR_ADDRESS	9633	

Viewing the ODLA application ports

You can also find the HTTP port number in the file *WAS_HOME/profiles/AppSrv01/logs/AboutThisProfile.txt*.

19. To access the deployed application, enter the following URL in a browser:

`http://<myserver>:<port>/ODLA`.

Task D-1-6: Installing the PeopleBooks Installation Software in GUI Mode

PeopleBooks can be installed directly to a Microsoft Windows, Linux or UNIX machine. In addition, PeopleBooks from prior PeopleSoft releases can be migrated and upgraded into the new site.

These instructions assume that you have set up the Oracle WebLogic or IBM WebSphere web server software with the Online Document Library (ODL) application as previously described, and have the other requirements outlined in the prerequisites section.

See Prerequisites.

Note. The default install mode for UNIX and Linux is a graphical interface. If your system is not configured for graphic-based programs, go to the next section for instructions for console mode installation.

To install the PeopleBooks software:

1. If you are running on Linux or UNIX, set the `JAVA_HOME` and `PATH` environment variables for your JDK installation location, as previously described.

See Setting Environment Variables for Oracle WebLogic.

2. Go to the directory where you downloaded and extracted the PeopleBooks installation file, *ODL_INSTALL*. At the command line run the appropriate installer for your platform:

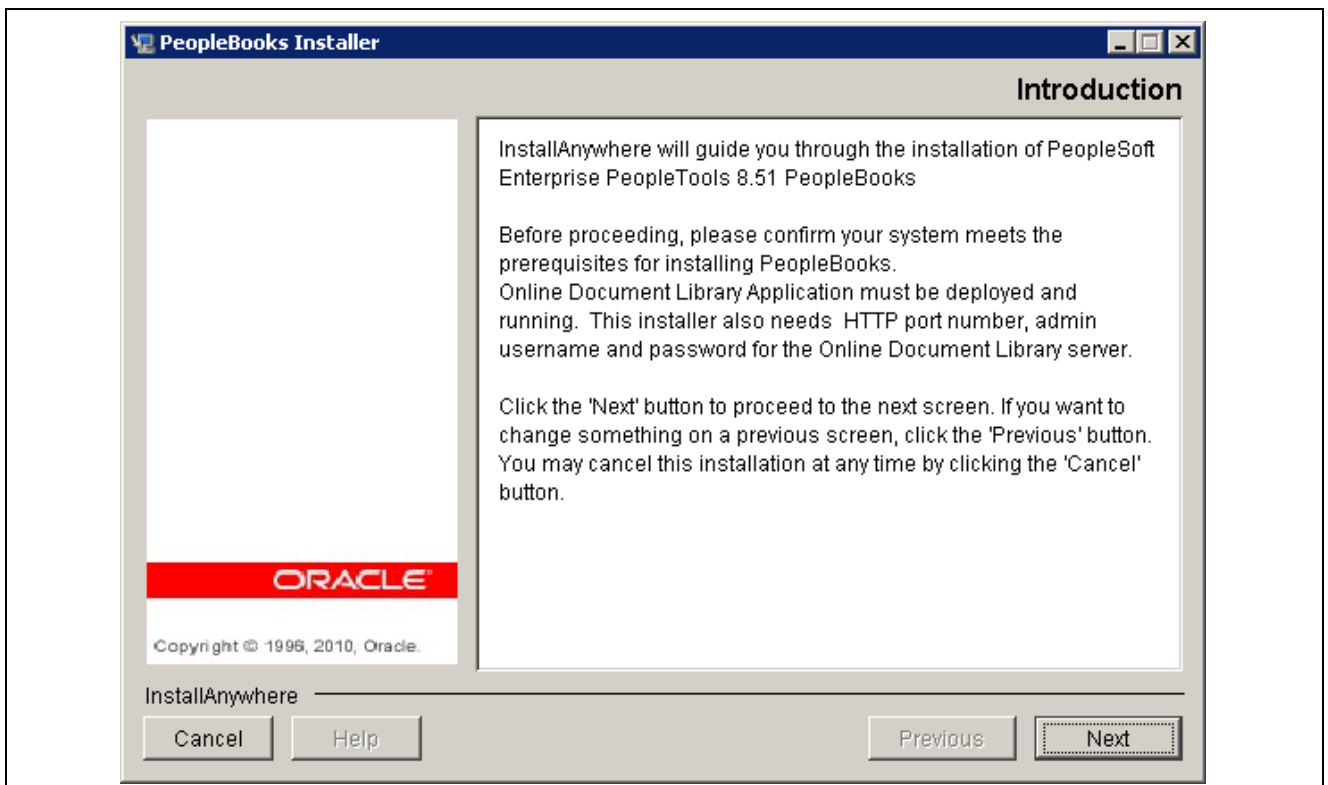
- For Microsoft Windows, run `install.exe`
- For UNIX or Linux, run `install.bin`

3. Click Next on the Introduction window.

Review the introductory text:

“Before proceeding, please confirm your system meets the prerequisites for installing PeopleBooks. Online Document Library Application must be deployed and running. This installer also needs HTTP port number, admin username and password for the Online Document Library server.”

Note. The exact wording on the Introduction window depends upon the product name for the PeopleBooks that you are installing.

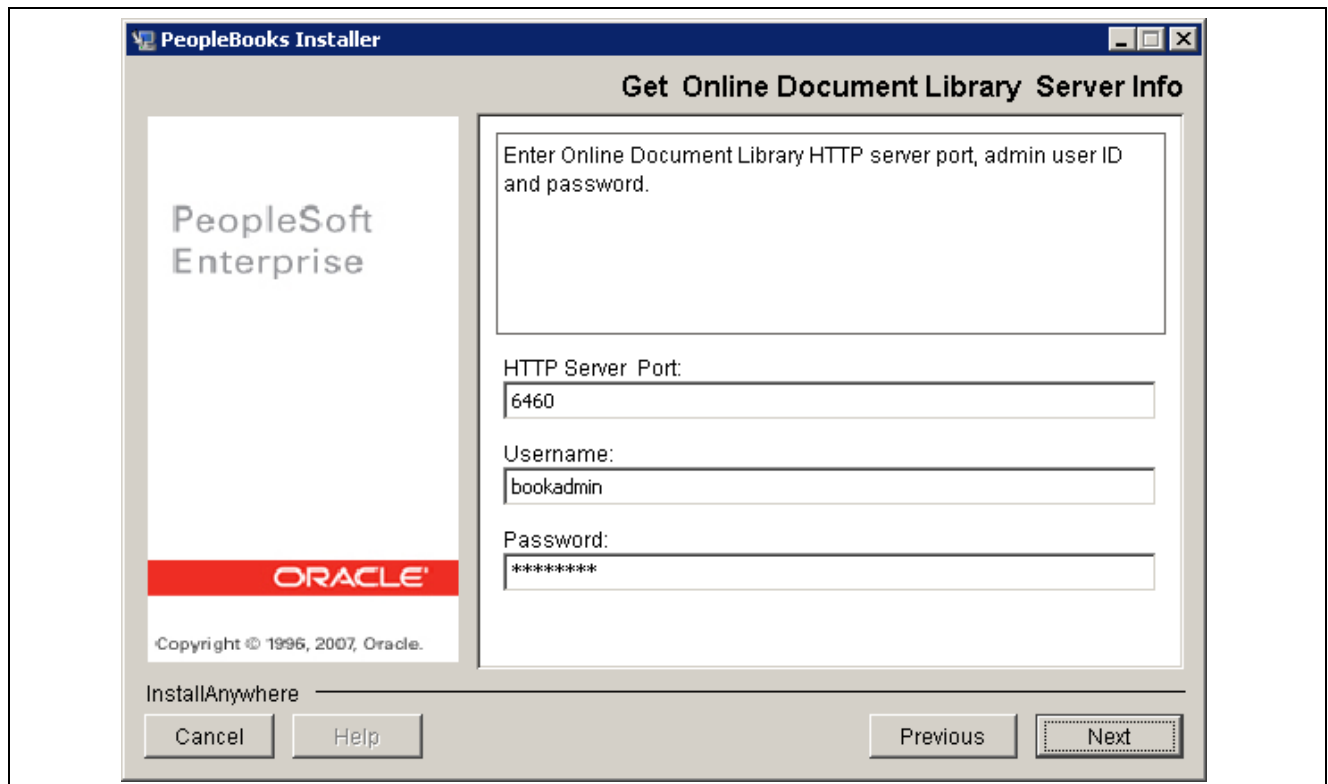


PeopleBooks Installer Introduction window

4. Enter the port number of the server where ODL was deployed; and the user name and password for PeopleBooks administration.

This example shows the default values for Oracle WebLogic. The default HTTP server port is 6460. The default username and password for ODL setup are bookadmin and welcome1. If you changed these values during ODL installation, change them here accordingly.

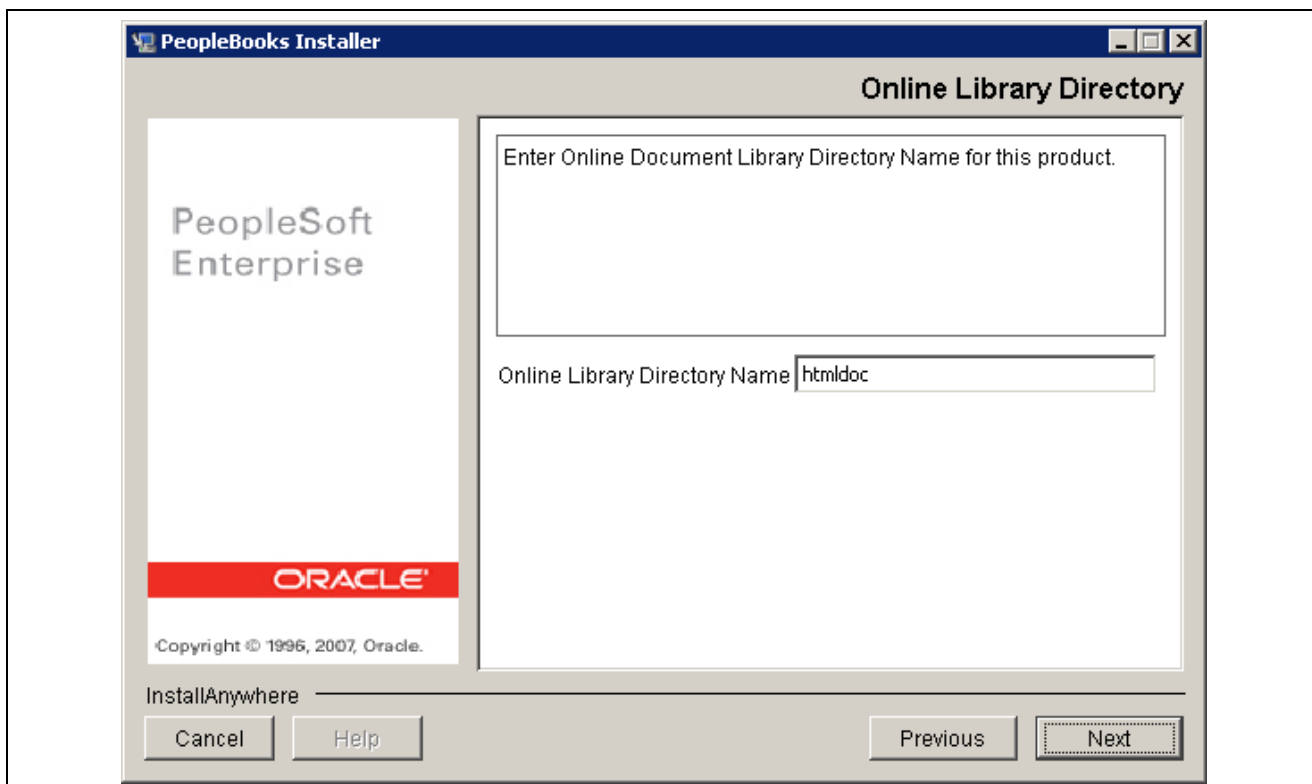
The default HTTP port for IBM WebSphere is 9080.



PeopleBooks Installer Get Online Document Library Server Info window

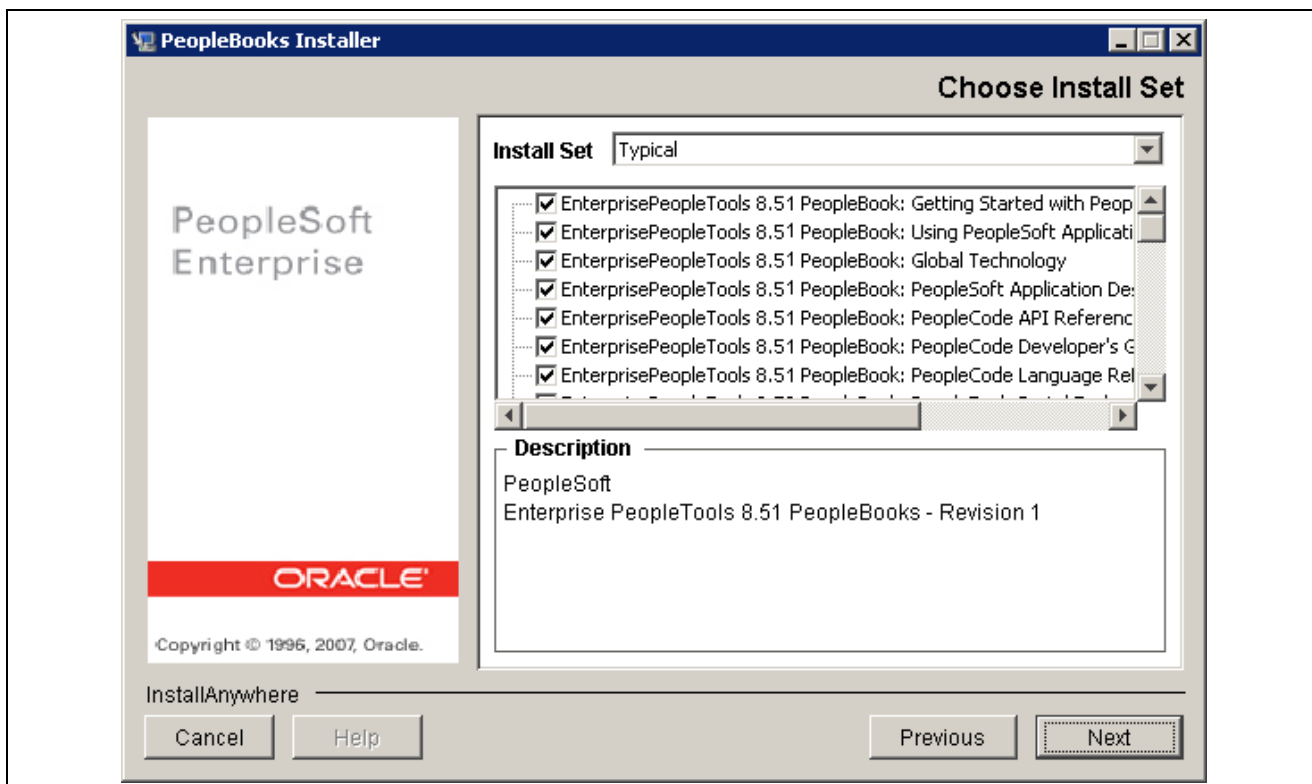
5. Enter the name of the folder that will store PeopleBooks in the Online Library Directory Name field and click Next.

This example shows the default folder name, `htmldoc`. You can opt to use a directory name other than the default, and it will be created automatically.



PeopleBooks Installer Online Library Directory window

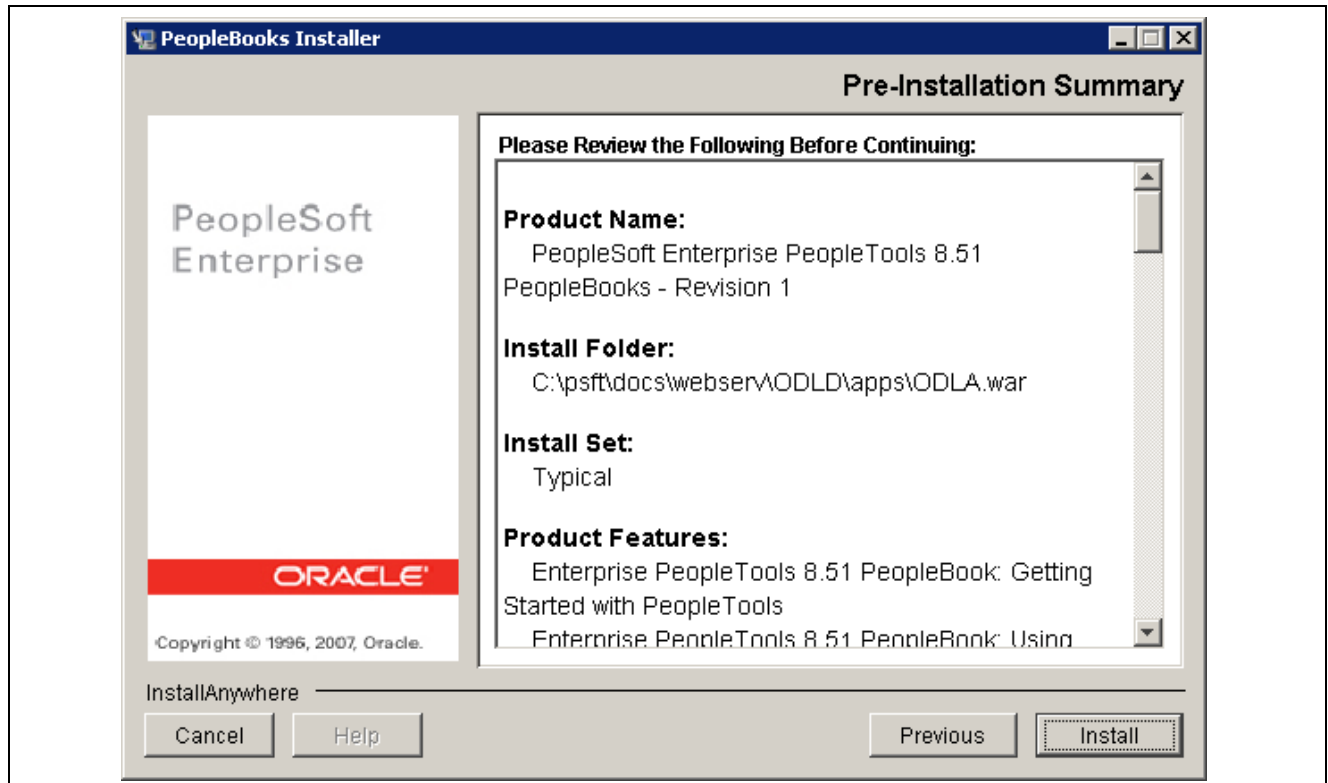
6. Select the install set from the drop-down list, and choose the individual books you want, and click Next to continue.



PeopleBooks Installer Choose Install Set window

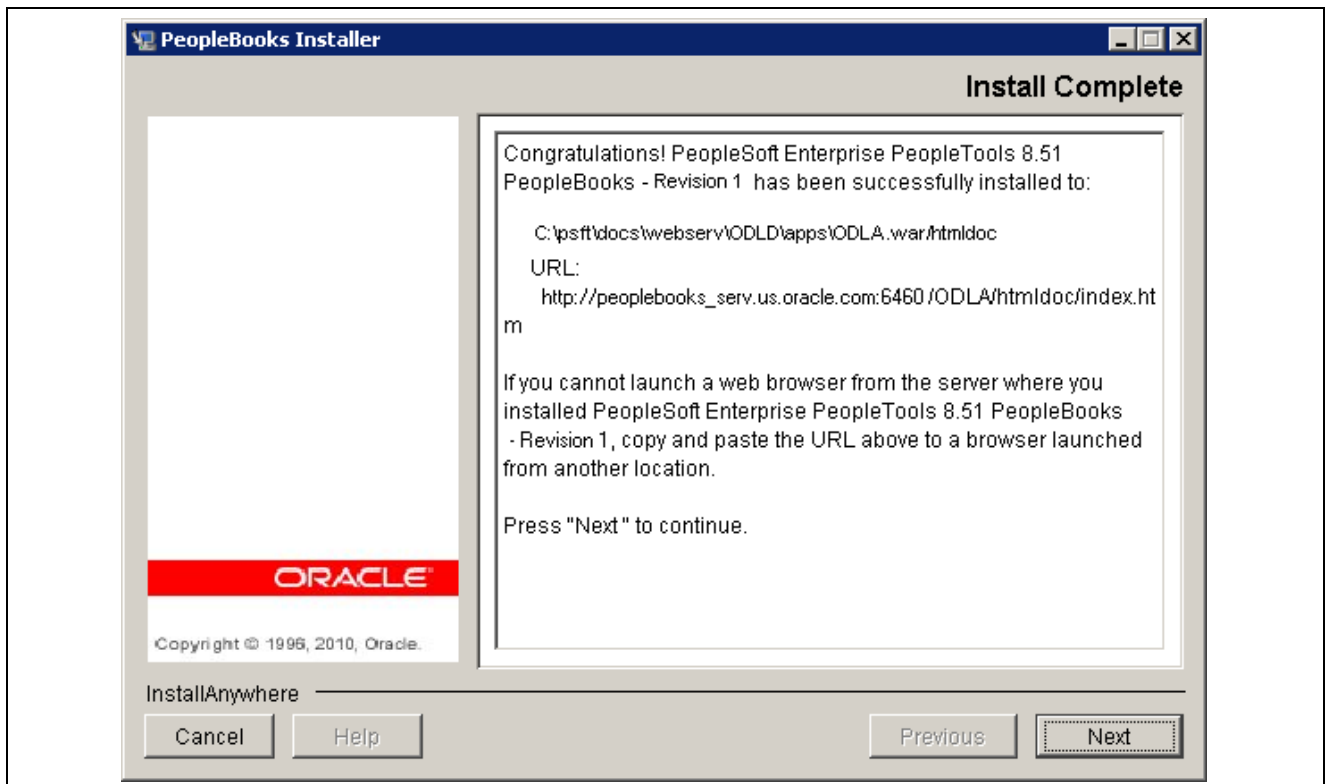
- Select Typical install set to include all PeopleBooks.
 - Select Custom if you would like to exclude individual books, then clear the check boxes beside the books you would like to exclude.
7. Confirm your selections and click Install to proceed.

The pre-installation summary includes the product name, install folder, install set, and product features. This example shows the values for an Oracle WebLogic web server. The installation folder for IBM WebSphere is different.



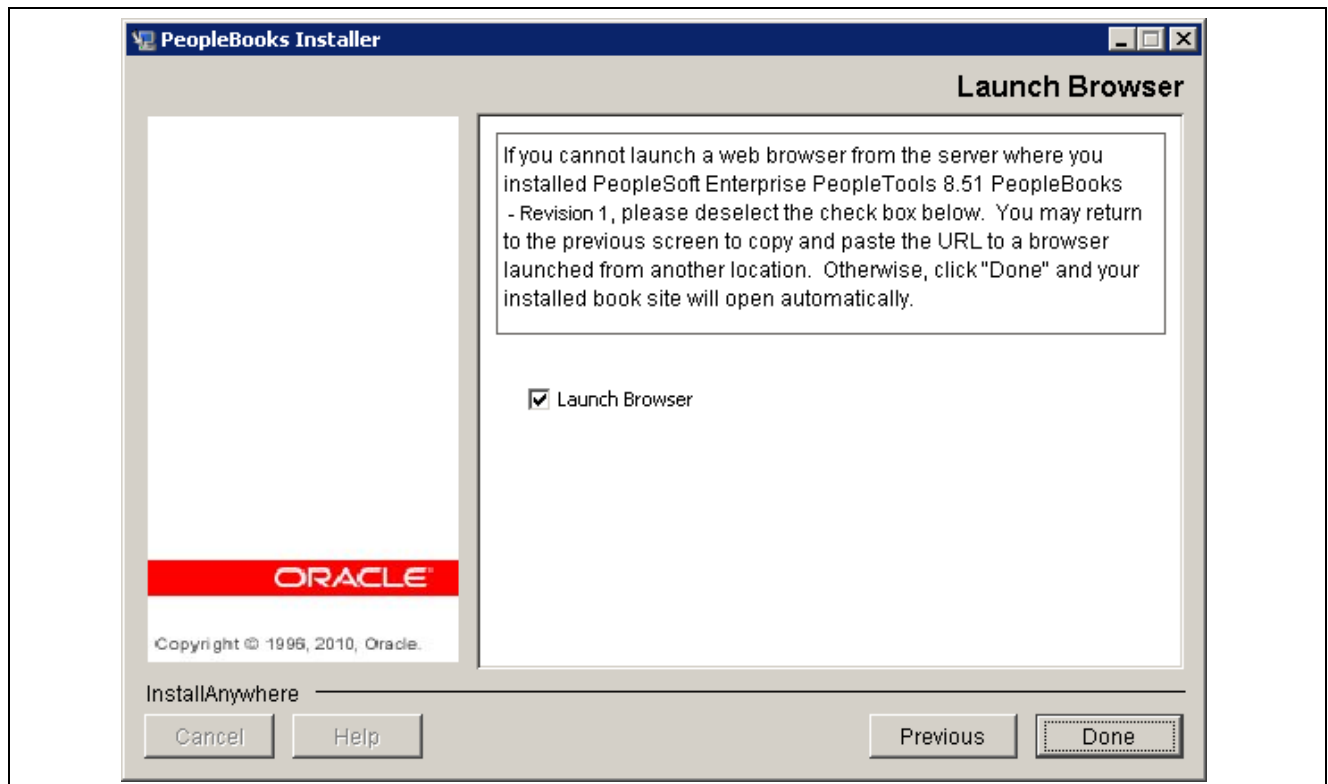
PeopleBooks Installer Pre-Installation Summary window

8. Make note of the information on the Install Complete window.
- The window includes the URL you can use to access PeopleBooks in a browser. To continue, click Next.



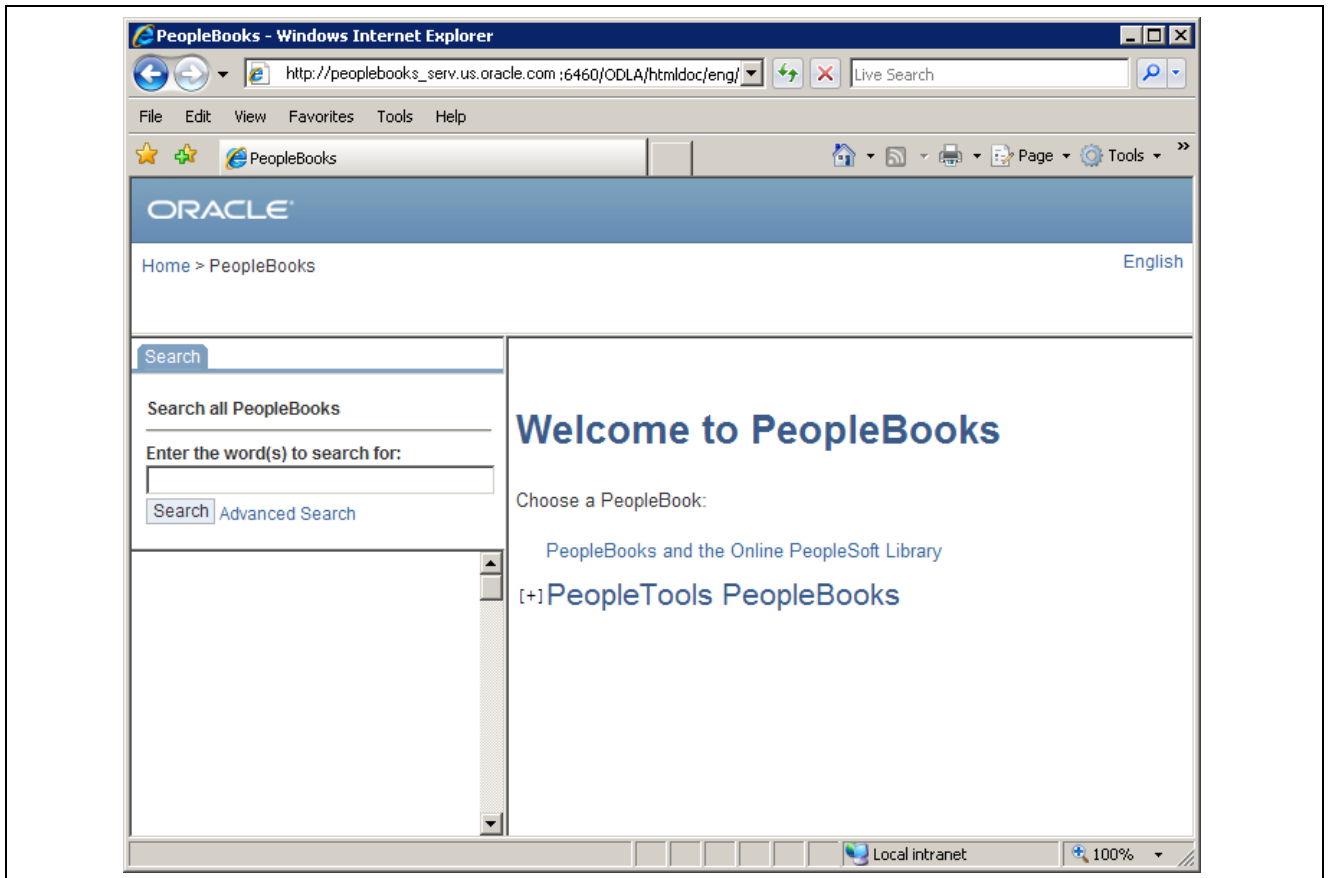
PeopleBooks Installer Install Complete window

9. Select the option Launch Browser to open the PeopleBooks ODL.
Alternatively, you can copy the URL and paste it into a browser address box.



PeopleBooks Installer Launch Browser window

This example shows the home page for the PeopleSoft PeopleTools PeopleBooks in a browser.



Welcome to PeopleBooks window

Task D-1-7: Installing the PeopleBooks Installation Software in Console Mode

Use the instructions in this section if your system is not configured for graphic-based programs.

These instructions assume that you have set up the Oracle WebLogic or IBM WebSphere web server software with the Online Document Library (ODL) application as previously described, and have the other requirements outlined in the prerequisites section.

See Prerequisites.

To install PeopleBooks in console mode:

1. If you are running on Linux or UNIX, for an Oracle WebLogic web server, set the `JAVA_HOME` and `PATH` environment variables for your JDK installation location, as previously described.

See Setting Environment Variables for Oracle WebLogic.

2. Go to the directory where you downloaded and extracted the PeopleBooks installation file, `ODL_INSTALL` and enter the appropriate command for your operating system:

- For Microsoft Windows:

```
install.exe -i console
```

- For Linux or UNIX:

```
sh ./install.bin -i console
```

3. Press ENTER to continue at the introductory prompt:

Note. The exact wording of the introductory text depends upon the product name for the PeopleBooks that you are installing.

```
Preparing CONSOLE Mode Installation...
```

```
=====
PeopleSoft Enterprise Portal Solutions 9.1 PeopleBooks(created with Install=>
Anywhere)
-----=>
----
```

```
=====
Introduction
-----
```

InstallAnywhere will guide you through the installation of PeopleSoft Enterprise Portal Solutions 9.1 PeopleBooks.

Before proceeding, please confirm your system meets the prerequisites for installing PeopleBooks.
Online Document Library Application must be deployed and running.
This installer also needs HTTP port number, admin username and password for the Online Document Library server.

Respond to each prompt to proceed to the next step in the installation. If you want to change something on a previous step, type 'back'.
You may cancel this installation at any time by typing 'quit'.

PRESS <ENTER> TO CONTINUE:

4. Enter the HTTP port number for the ODL server

For Oracle WebLogic, the default port number is 6460. For IBM WebSphere, the default port number is 9080.

```
HTTP Port
-----
```

Enter HTTP port number.

HTTP Port (DEFAULT: 6460):

5. Enter the user name and password for the PeopleBooks administrator.

The default values are bookadmin and welcome1.

Username

Enter admin username.

Username (DEFAULT: bookadmin):

=====

Password

Enter admin password.

Password (DEFAULT: welcome1):

6. Enter the name of the folder that will store PeopleBooks and press ENTER

The default directory is htmldoc. You can opt to use a directory name other than the default, and it will be created automatically.

Online Library Directory

Enter Online Document Library Directory Name for this product.

Online Library Directory Name (DEFAULT: htmldoc):

7. Specify the type of installation, either Typical or Customize.

To install all books, select option 1, Typical.

To exclude individual books, select option 2, Customize, and customize your list.

=====

Choose Install Set

Please choose the Install Set to be installed by this installer.

->1- Typical

2- Customize...

ENTER THE NUMBER FOR THE INSTALL SET, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:

8. Confirm your selections and press ENTER to proceed.

Pre-Installation Summary

Please Review the Following Before Continuing. You may also type 'quit' or 'back'.

Product Name:

PeopleSoft Enterprise Portal Solutions 9.1 PeopleBooks

Install Folder:

/data1/home/pplbooks/webserve/ODLA/apps/ODLA.war

Online Library Folder Name
portal91

Disk Space Information (for Installation Target):
Required: 39,946,023 bytes
Available: 11,677,270,016 bytes

PRESS <ENTER> TO CONTINUE

9. Read the information about background processing and press ENTER to continue:

NOTICE

Background processing will continue after progress indicator is full. Please be patient while the installer configures your system.

PRESS <ENTER> TO ACCEPT THE FOLLOWING
OK

10. After the content has been installed, you can copy the PeopleBooks URL from the final prompt, and paste it into a browser to view PeopleBooks (see the example in the previous section).

Installation Complete

Congratulations. PeopleSoft Enterprise Portal Solutions 9.1 PeopleBooks has been successfully installed to:

/data1/home/pplbooks/webserv/ODLA/apps/ODLA.war/portal91
217 files were indexed.

Open your PeopleBooks at the URL:
http:peoplebooks_serv:6460/ODLA/portal91/index.htm.

PRESS <ENTER> TO EXIT THE INSTALLER

Task D-2: Managing the Online Document Library Server

This section discusses:

- Starting the Online Document Library Server
- Terminating the Online Document Library Server
- Installing the Online Document Library Server as a Windows Service
- Removing the Online Document Library Server Windows Service
- Removing the Online Document Library

Task D-2-1: Starting the Online Document Library Server

Oracle WebLogic:

To start the ODL server on Microsoft Windows, open a command prompt and run the following command:

```
ODLS_HOME\webserv\ODLA\bin\startWebLogic.cmd
```

To start the ODL server on Linux or UNIX, run the following command:

```
ODLS_HOME/webserv/ODLA/bin/startWebLogic.sh
```

IBM WebSphere:

To start the ODL server (server1) on Microsoft Windows, open a command prompt and run the following command:

```
WAS_HOME\AppServer1\bin\startserver server1
```

To start the ODL server on Linux or UNIX, run the following command:

```
WAS_HOME/Appserver1/bin/startServer.sh server1
```

Note. Refer to the IBM WebSphere documentation for information on managing the IBM WebSphere server.

Task D-2-2: Terminating the Online Document Library Server

When you issue a command to stop the ODL server, Oracle WebLogic will ask for the ODL administrator ID and password. The default values used during installation were bookadmin and welcome1. If you entered different values during the installation be sure to supply the correct values.

Oracle WebLogic:

To stop the ODL server on Microsoft Windows, open a command prompt and run the following command:

```
ODLS_HOME\webserv\ODLA\bin\stopWebLogic.cmd
```

To stop the ODL server on Linux or UNIX, run the following command:

```
ODLS_HOME/webserv/ODLA/bin/stopWebLogic.sh
```

IBM WebSphere:

To stop the ODL server (server1) on Microsoft Windows, open a command prompt and run the following command:

```
WAS_HOME\AppServer1\bin\stopserver server1
```

To start the ODL server on Linux or UNIX, run the following command:

```
WAS_HOME/Appserver1/bin/stopServer.sh server1
```

Task D-2-3: Installing the Online Document Library Server as a Windows Service

For Microsoft Windows operating system platforms, to create a Windows service for the ODL server,

1. Open a command prompt and go to the directory where the ODL is installed:

```
cd ODLS_HOME\webserv\ODLA
```

2. Run the following command to create the Windows service:

```
installSvc.cmd
```

Task D-2-4: Removing the Online Document Library Server Windows Service

To remove the ODL Windows service:

1. Select Start, Programs, Administrative Tools, Services.
2. Locate the ODL service and stop it.
3. Open a command prompt and go to the directory where the ODL is installed:

```
cd ODL$ _HOME\webserv\ODLA
```

4. Run the following command to remove the Windows service:

```
uninstallSvc.cmd
```

Task D-2-5: Removing the Online Document Library

If you are running on Microsoft Windows, to remove the Online Documentation Library:

1. If you created a service for your PeopleBooks ODLA server, stop the beasvc_ODLD_ODLserver service, otherwise shut down the server from a command line according to directions above.
2. Open Add/Remove programs in Control Panel and remove the Oracle WebLogic Online Documentation Library.

If you are running on Linux or UNIX, to remove the Online Documentation Library:

1. Stop the ODLA server according to directions provided above.
2. Confirm the port numbers assigned to the server are no longer in use.
3. Remove the ODLA folder from your system.

Task D-3: Configuring Context-Sensitive Help

This section discusses:

- Enabling the Help Link from the Application Pages
- Enabling F1 Help

Task D-3-1: Enabling the Help Link from the Application Pages

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. 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://<web_server>:<ODLD_port>/ODLA/<html doc_directory>/f1search.htm?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 Oracle WebLogic web server is called mywebserver and you are using the default ODL D port and default ODL D directory, the Help URL value would be:

```
http://mywebserver:6460/ODLA/html doc/f1search.htm?ContextID=%CONTEXT_ID%&LangCD=>
%LANG_CD%
```

- Change <web_server> to reflect your installation.
 - Enter the web server ODL D port for <ODLD_port>. The default port for ODL D in a Oracle WebLogic multi-server domain installation is 6460.
 - The default value for <html doc_dir> is html doc. If you installed to a directory other than html doc, use that value for <html doc_dir>.
 - 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* icon on a PeopleSoft application page.

Task D-3-2: Enabling F1 Help

This procedure describes how to enable F1 help for Application Designer, PeopleCode Editor, and other 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 <web_server>, <ODLD_port>, and <html doc_dir> reflect your installation) into the F1 Help URL field:

```
http://<web_server>:<ODLD_port>/ODLA/<html doc_dir>/f1search.htm?ContextID=>
%CONTEXT_ID%&LangCD=%LANG_CD%
```

4. Save the page.

Task D-4: Creating and Recreating Search Collections

The Create Index utility allows you to create or recreate search collections, migrate documents, and carry out advanced searches. Use this utility when you install PeopleBooks from a release before PeopleSoft PeopleTools 8.51, or if you modify your ODL S and need to rebuild the indexes. The next section describes how to migrate documents.

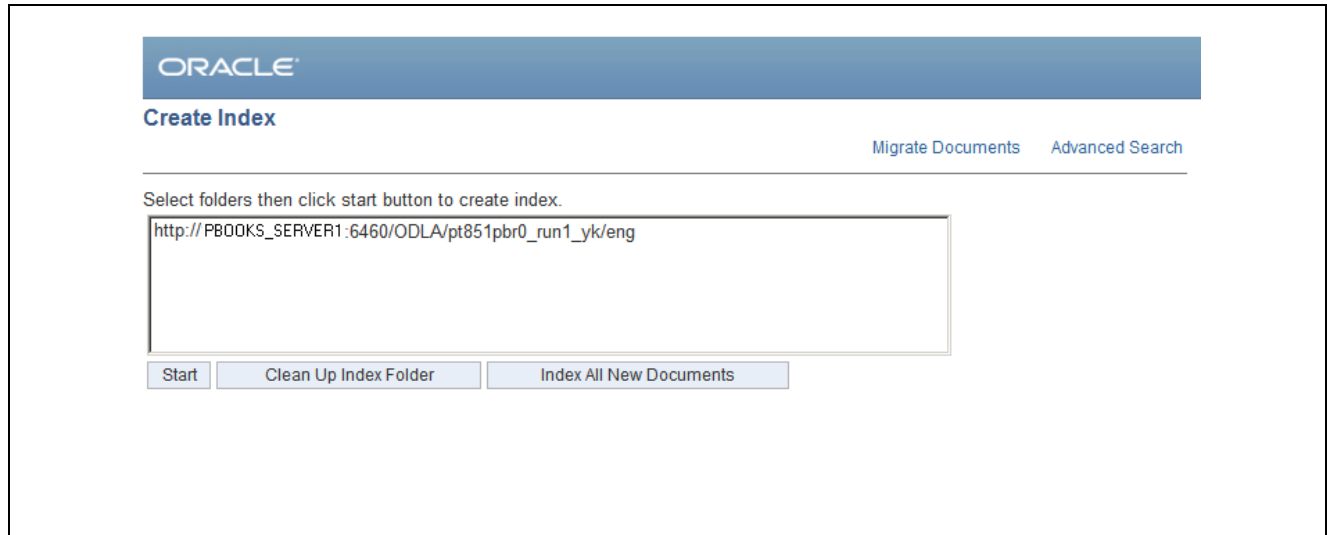
To create search collections for PeopleBooks:

1. Open the following URL in a browser, entering the name of the server where you installed the ODLS for <peoplebooks_host>, and the ODL HTTP port number for <ODLS_port>:

`http://<peoplebooks_host>:<ODLS_port>/ODLA/admin/MkPBIndex`

2. Enter the administrator user name and password in the log in dialog box.

The default values for Oracle WebLogic are bookadmin and welcome1, respectively. The Create Index window appears displaying your installed PeopleBooks, as shown in this example:



PeopleBooks Create Index window

In this discussion, the location where you installed the Online Document Library domain and application is referred to as *ODLS_HOME*. Use these options to manage PeopleBooks indexes:

- **Start**

Click the Start button to build a search index. To select multiple folders from the list, use CTRL+Click, and then click Start to build the indexes for the selected paths.

- **Clean Up Index Folder**

When a document folder is deleted from the ODL folder, its index is not automatically removed. The Clean Up Index Folder button cleans up indexes that exist for deleted document folders.

For example, if the *ODLS_HOME*/webserve/ODLA/apps/ODLA.war/htmldoc folder was deleted, the html contents are gone, but its index still exists and links will appear in search results even though the content is missing. Use this option to remove indexes that are no longer valid.

- **Index All New Documents**

Use the Index All New Documents option to generate indexes for PeopleBooks that were copied to the Online Document Library folder from another location. When you click the Index All New Document button, the ODL application compares the time stamp of document folders <*ODLS_HOME*>/webserve/ODLA/apps/ODLA.war/htmldoc/<language>/psbooks/<bookcode>/htm and its corresponding index folder (index folders reside under *ODLS_HOME*/webserve/ODLA/apps/ODLA.war/WEB-INF/idx). For any document folder that has a more recent time stamp than its index folder, the application will rebuild indexes for all files under the same language folder.

For example, if the folder <*ODLS_HOME*>/webserve/ODLA/apps/ODLA.war/htmldoc/eng/psbooks/atpb/htm has a time stamp that is newer than its corresponding index, all files under the folder <*ODLS_HOME*>/webserve/ODLA/apps/ODLA.war/htmldoc/eng will be re-indexed. However, files under other languages, such as Swedish (sve) or Japanese (jpn), will not be re-indexed.

3. Select the Advanced Search link.

The following page appears:

PeopleBooks Advanced Search page

Use the options on this page to perform a full-text search from all PeopleBooks folders installed under the ODL folder:

- Search for area

Enter words in this field for search criteria, select the desired Match option, and click the Search button to begin.

- Match: All words

The search engine will return results for HTML pages that contain all these words.

- Match: Any words

The search engine will return results for HTML pages that contain any of these words.

- Match: Exact phrase

The search engine will return results for HTML pages that contain all the words typed in this field, in the exact order you typed them.

- Match: Query syntax

Click the Help link on the Advanced Search page for detailed instructions.

- Limit by: Don't show results containing this word or phrase
Use this field to explicitly exclude words from use as search criteria.
- Limit by: Show results where the words are
Use this drop-down list to return results only where search criteria appears anywhere on the page, or in the topic title.
- Limit by: Product line
Use this drop-down list to select a specific product line as search criteria.
- Limit by: Language
Use this drop-down list to limit your search to one or more languages. You will only see languages in the list for contents that are actually installed under ODLA.
- Limit by: Select books
Use this field to select one or more books to search. Use CTRL+click to select more than one book.
- Results formatting: Summary
When the search executes, the result set will include summaries of each HTML page.
- Results formatting: Index term
When the search executes, the result set will include related terms for further search, if desired.
- Results formatting: Score
When the search executes, the result set will include a score for each link, indicating its relevance to the term searched.
- Results formatting: Hits Per Page
Use this drop-down list to determine how many links appear on one result set page. The options are 10, 20, 50 and 100.

4. Select the Migrate Documents link to migrate documents from an existing PeopleBooks website.

See the next section for information on the Migrate Documents link.

See Migrating Previous Versions of PeopleBooks.

Indexes are created for each language folder level in the directory `<ODLS_HOME>/webserv/ODLA/apps/ODLA.war/WEB-INF/index`.

The ODL application creates an individual index name from the URL as follows:

1. Begin with the URL, for example `http://<myserver>:<port>/ODLA/folder1/els9swpbr0_final/sve`.
2. Remove "http://", the server name `<myserver>`, and `<port>`, as follows:
`ODLA/folder1/els9swpbr0_final/sve`
3. Replace the special characters with the appropriate escape characters. In this example, `%2F` replaces the slashes:
`ODLA%2Ffolder1%2Fels9swpbr0_final%2Fsve`

While indexes are available for each top folder and language (example: `html/doc/eng`), a user can search all indexes at the same time.

Task D-5: Migrating Previous Versions of PeopleBooks

If you would like to migrate PeopleBooks that reside in an existing PeopleBooks website (under PSOL structure on an attached drive), you can do so by using a tool that is available through the ODLA site. In the following instructions, you first initiate the migration tool and then remove the online documentation library.

To use the migration tool:

1. Open the Create Index page in a browser as described in the previous section.

See Creating and Recreating Search Collections.

You can also open the migration page directly by entering this URL in a browser:

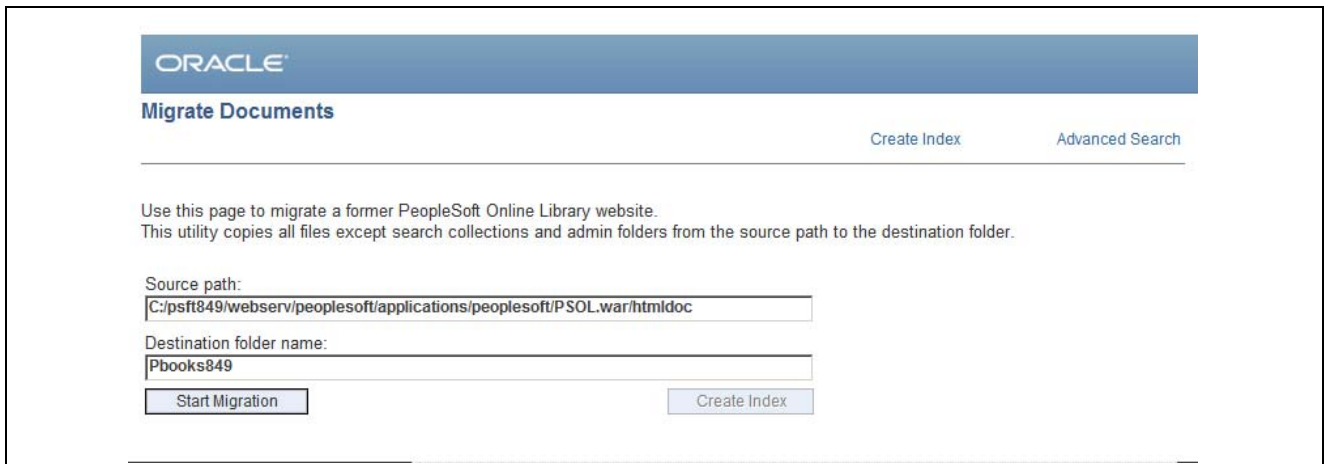
`http://<peoplebooks_host>:<ODLS_port>/ODLA/admin/Migrate.`

2. On the Create Index page, click Migrate Documents.



Create Index page with Migrate Documents link

3. On the Migrate Documents page, enter the full path to the old PeopleBooks site in the Source path field. Enter the Destination folder name, which is PBooks849 in this example, and then click Start Migration.



PeopleBooks Migrate Documents page

4. Click Create Index after the migration process completes and the Create Index button becomes enabled. This takes you to the Create index page and the index process for migrated documents starts automatically.
5. Click Advanced Search after the index process completes to confirm the documents migrated successfully.
6. To open the ODLA web site for the migrated documents, use this URL:

`http://<web_server>:<ODLD_port>/ODLA/<Destination_folder_name>/index.htm.`

For example: <http://myserver:6460/ODLA/Pbooks849/index.htm>.

APPENDIX E

Installing Software for PS/nVision Drilldowns

This appendix 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 *Enterprise PeopleTools 8.51 PeopleBook: 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 *Enterprise PeopleTools 8.51 PeopleBook: PS/nVision*, "Running PS/nVision Report on the Web."

Here is the way the two drilldown add-ins work with the supported version of Microsoft Excel 2007:

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 E-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 E-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 E-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 on the Microsoft Excel Environment

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
- Visual Studio Tools for Microsoft Office SE Runtime (VSTO add-in)
- Microsoft Office 2007 Primary Interop Assemblies
- nVisionDrill add-in

In addition, 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.

Understanding Security for DrillDown Using nVisionDrill VSTO Add-in

Since users can perform drilldown without having to access PeopleSoft Pure Internet Architecture pages, they must be signed into a PeopleSoft Pure Internet Architecture system when they drill down. Because the parent report is not necessarily generated at the time of drilldown, PS/nVision security mechanisms ensure that only valid PS/nVision users (not just valid PeopleSoft users) can perform drilldown from PS/nVision reports.

After the nVisionDrill VSTO add-in is installed on a Microsoft Excel environment, it will be available to all Microsoft Excel users. Hence, the functionality of the nVisionDrill VSTO add-in can be accessed only by PS/nVision users. When users run the nVisionDrill VSTO add-in for the first time, they will be prompted for a user ID and password. If users have a valid user ID and password, they are able to generate subreports using the nVisionDrill VSTO add-in.

When users repeat the functionality from the same report instance, they will not be prompted for the credentials again because they would have already been authenticated. However, when users repeat the same functionality from the drilldown reports that were generated, they will be prompted for the credentials again because each drilldown report is opened in a new Microsoft Excel instance.

Note. All web service calls between the Microsoft Excel and PeopleSoft applications are SSL-enabled. You must set up and configure Integration Broker to use the PS/nVision DrillDown feature as a web service.

Task E-2-1: Installing the nVisionDrill Add-in on the Microsoft Excel Environment

To install the nVisionDrill VSTO add-in on the Microsoft Excel Environment:

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.

Note. The files vstor.exe and o2007pia.msi are available in *PS_HOME\setup\nVisionDrill*.

Task E-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 *Enterprise PeopleTools 8.51 PeopleBook: Global Technology*, "Translating PeopleSoft Applications."

Task E-4: Setting Up PeopleSoft Integration Broker for Using Web Service Capability with nVisionDrill Add-in

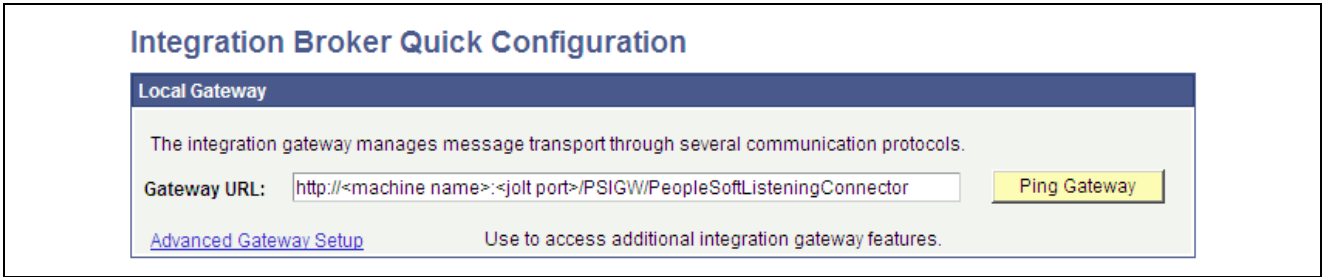
You must set up report node configuration to enable PS/nVision DrillDown to use web services because PS/nVision DrillDown uses HTTPS Report Node as prerequisite distribution node.

To set up Integration Broker for using web service capability with PS/nVision DrillDown:

1. Select PeopleTools, Integration Broker, Configuration, Quick Configuration.
2. Ensure the gateway URL points to the PIA web server that is being used.

Note. The Gateway URL must include the complete URL with domain name of the process scheduler and the HTTPS port number.

This example shows the top portion of the Integration Broker Quick Configuration page showing the Gateway URL field:



Integration Broker Quick Configuration

Local Gateway

The integration gateway manages message transport through several communication protocols.

Gateway URL:

[Advanced Gateway Setup](#) Use to access additional integration gateway features.

Integration Broker Quick Configuration page portion

3. Ping the gateway to get a success message.

If this environment is new, you might have to ping the gateway more than one time.

4. Select PeopleTools, Integration Broker, Service Operations Monitor, Administration, Domain Status.
5. Purge the unnecessary domains and enable the required domain.

You should be able to see three dispatchers under the dispatcher status. This is required for running asynchronous requests through Integration Broker.

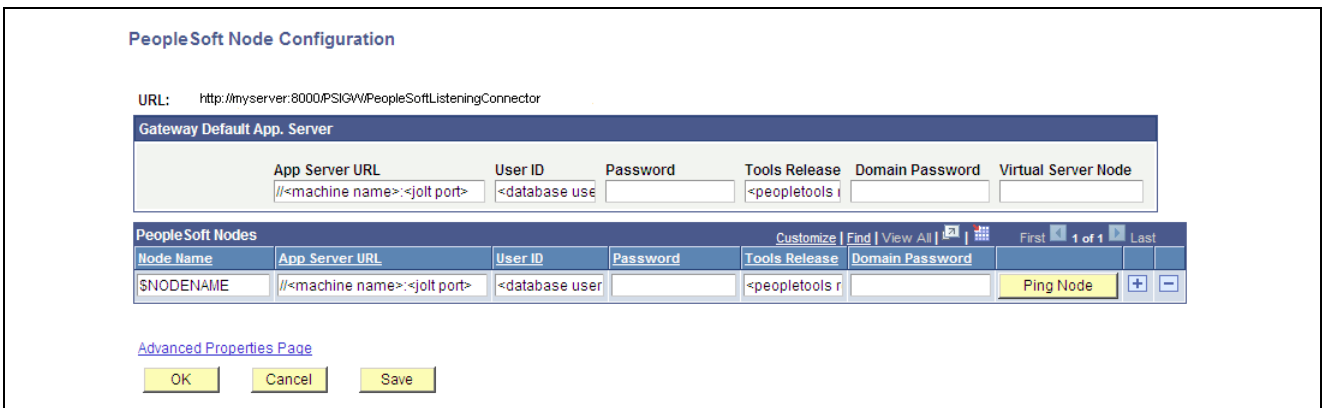
Note. PeopleSoft Integration Broker must process all nVision web service requests that are sent from nVisionDrill VSTO add-in, so the Local PeopleSoft Node of PeopleSoft Integration Broker gateway must include three dispatchers.

6. Set the node configuration.

See *Enterprise PeopleTools 8.51 PeopleBook: Integration Broker Administration*.

The node information is available by pressing CTRL+J on the PeopleSoft Node Configuration page.

This example shows the PeopleSoft Node Configuration page:



PeopleSoft Node Configuration

URL:

Gateway Default App. Server

App Server URL	User ID	Password	Tools Release	Domain Password	Virtual Server Node
//<machine name>:<jolt port>	<database user>		<peopletools r>		

PeopleSoft Nodes

Node Name	App Server URL	User ID	Password	Tools Release	Domain Password	Virtual Server Node	
SNODENAME	//<machine name>:<jolt port>	<database user>		<peopletools r>			Ping Node + -

[Advanced Properties Page](#)

PeopleSoft Node Configuration page

7. Ping the node; you should get a successful message.
8. For the Anonymous node, set a valid PS/nVision user ID as the default user ID.

In this example, *QEMGR* is set as the default user ID:

Node Definitions		Connectors	Portal	WS Security	Routings
Node Name:	ANONYMOUS				Copy Node
*Description:	Used internally by IB system.				Rename Node
*Node Type:	External	☐ Default Local Node ☐ Local Node ☒ Active Node ☐ Non-Repudiation ☒ Segment Aware			Delete Node
*Authentication Option:	None				
*Default User ID:	QEMGR				
WSIL URL:					
Hub Node:					
Master Node:					
Company ID:					
IB Throttle Threshold:					
Image Name:					
Codeset Group Name:					
External User ID:					
External Password:					
External Version:					
Save		Contact/Notes		Properties	

Node Definition page with QEMGR set as the default user ID

Integration Broker is now set up for using web service capability with PS/nVision Drilldown.

Note. On the server side where the PeopleSoft application resides, the usual logging provided by Integration Broker, which can trace the incoming and outgoing flow of requests and responses, is provided. PS/nVision also provides its own log files in %PS_SERVDIR%\log_output.

See *Enterprise PeopleTools 8.51 PeopleBook: PeopleSoft Integration Broker Administration*, "Getting Started with PeopleSoft Integration Broker Administration."

APPENDIX F

Installing Web Application Deployment Tools

This appendix discusses:

- Prerequisites
- Installing the Web Application Deployment Tools on WebLogic in GUI Mode
- Installing the Web Application Deployment Tools on WebSphere in GUI Mode
- Installing the Web Application Deployment Tools on 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 6 must be installed and working properly. Your PATH environment variable must include an entry for Java 6 (for example, <java6>/bin). If you do not install Java 6 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 10.3.2 must be installed.

If you use IBM WebSphere as your web server, you must fulfill these requirements:

- Java 6 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 7.0.0.7 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"

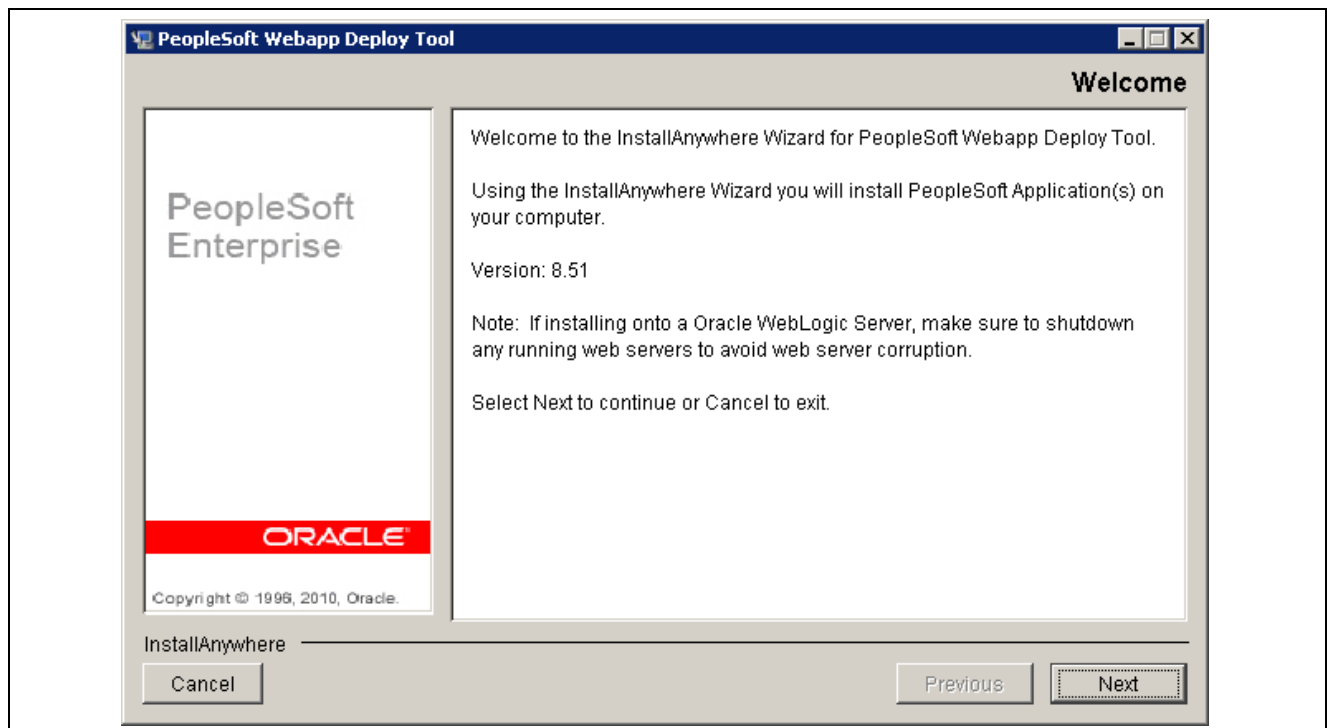
"Using the PeopleSoft Installer"

Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration.

Task F-1: Installing the Web Application Deployment Tools on WebLogic in GUI Mode

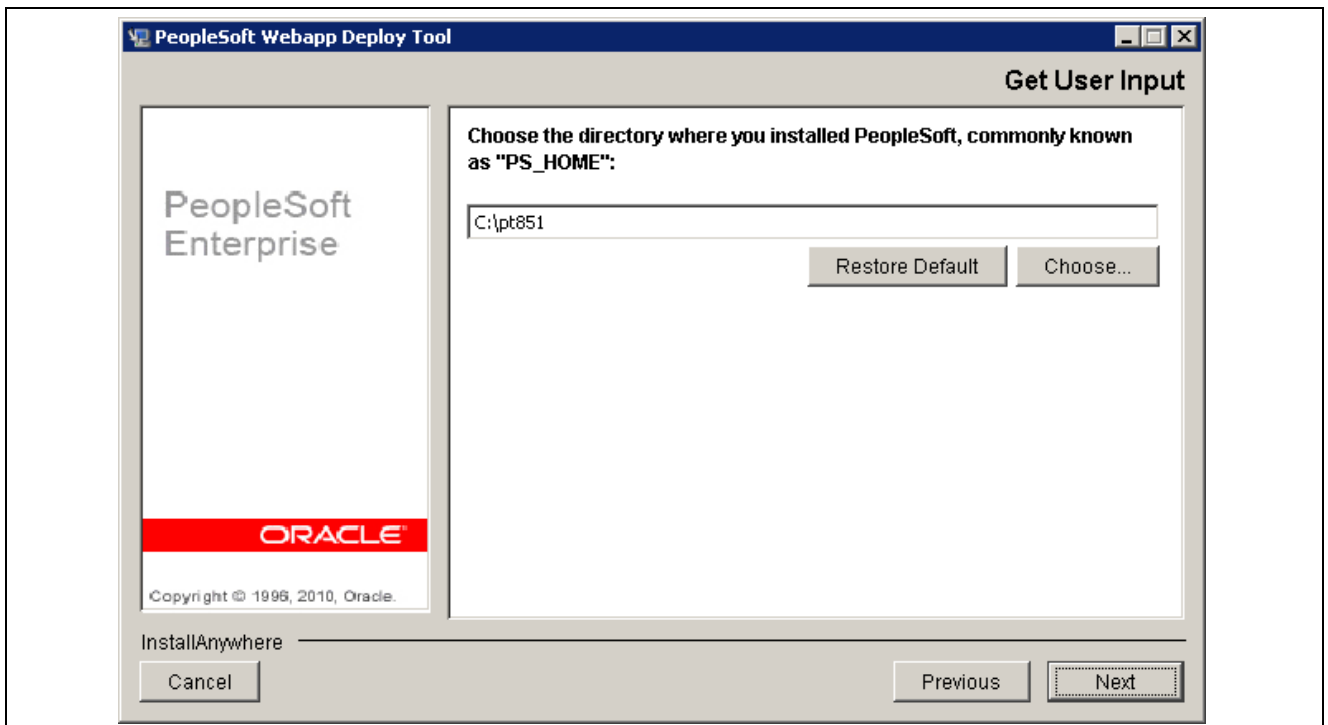
Use these instructions to install the Web Application Deployment Tools on Oracle WebLogic in GUI mode.

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.



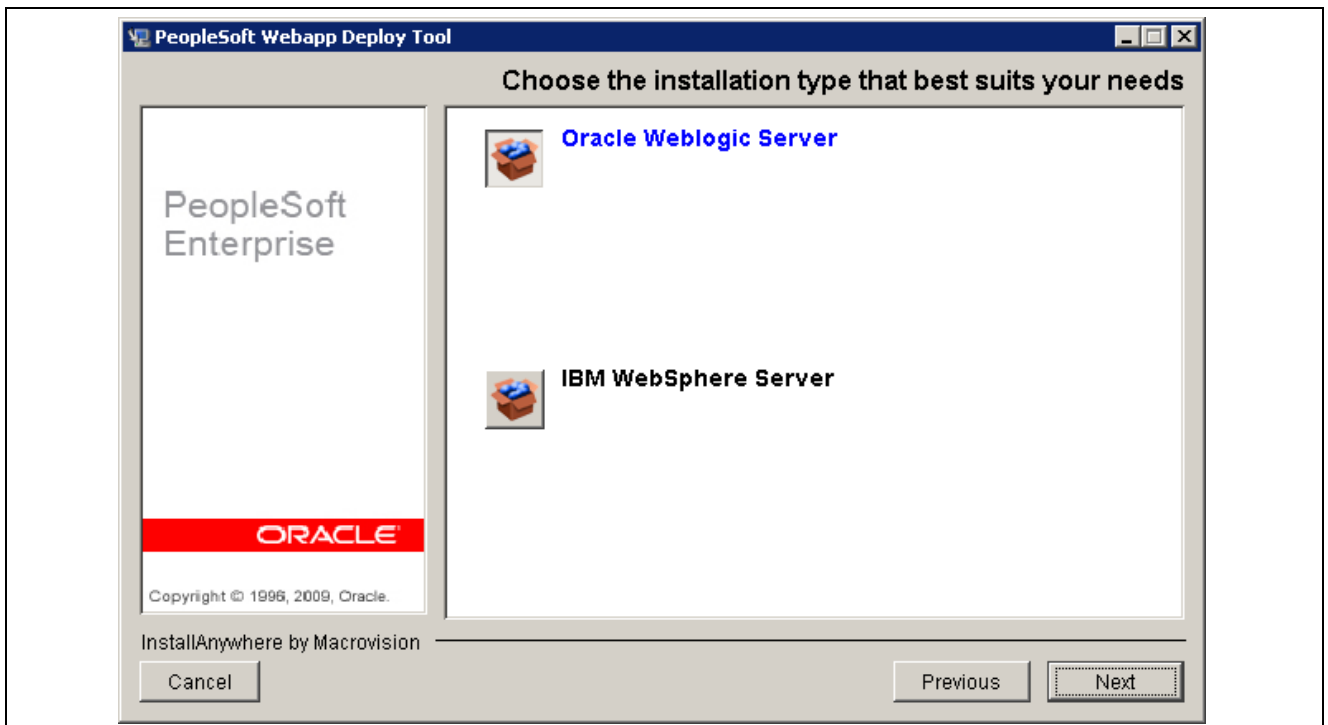
PeopleSoft Webapp Deploy Tool Welcome window

5. Enter the same *PS_HOME* directory that you specified when you ran the PeopleSoft PeopleTools Installer.



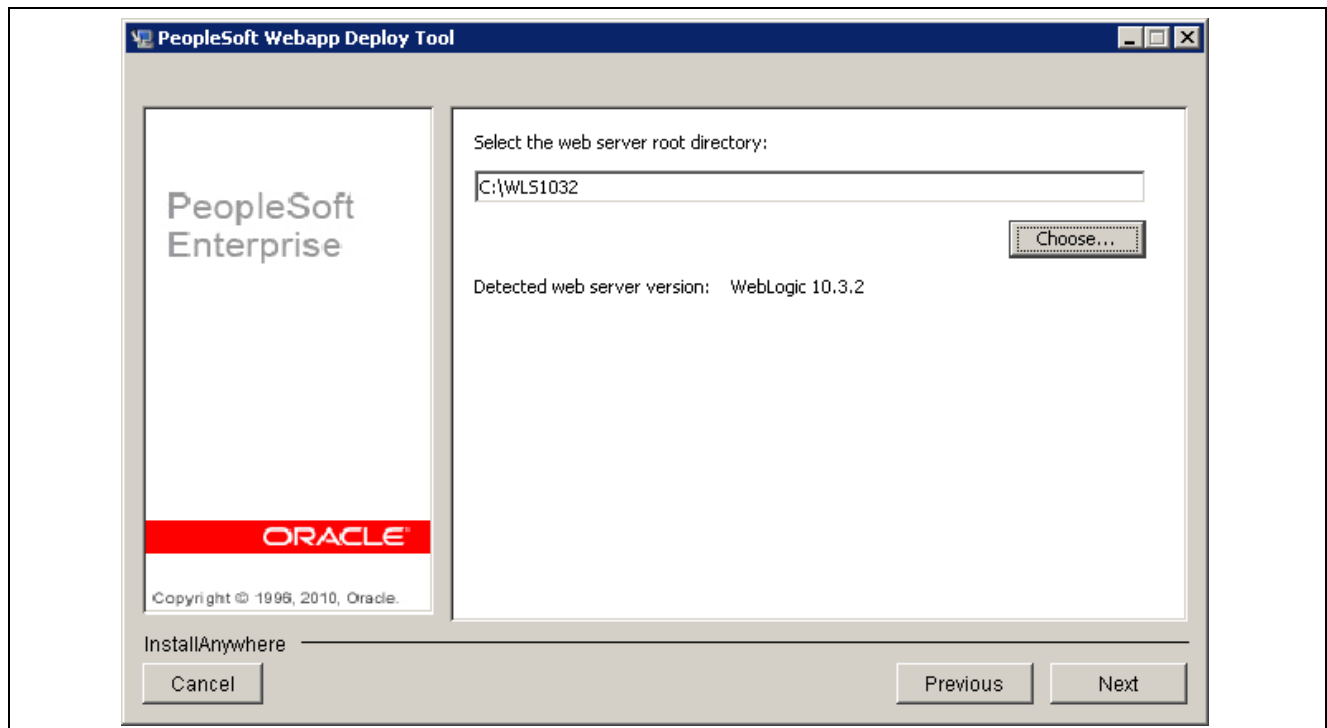
Entering PS_HOME for the WebApp Deploy Tool installation

6. Select Oracle Weblogic Server and click Next.



Selecting Oracle Weblogic Server for the PeopleSoft Webapp Deploy Tool installation

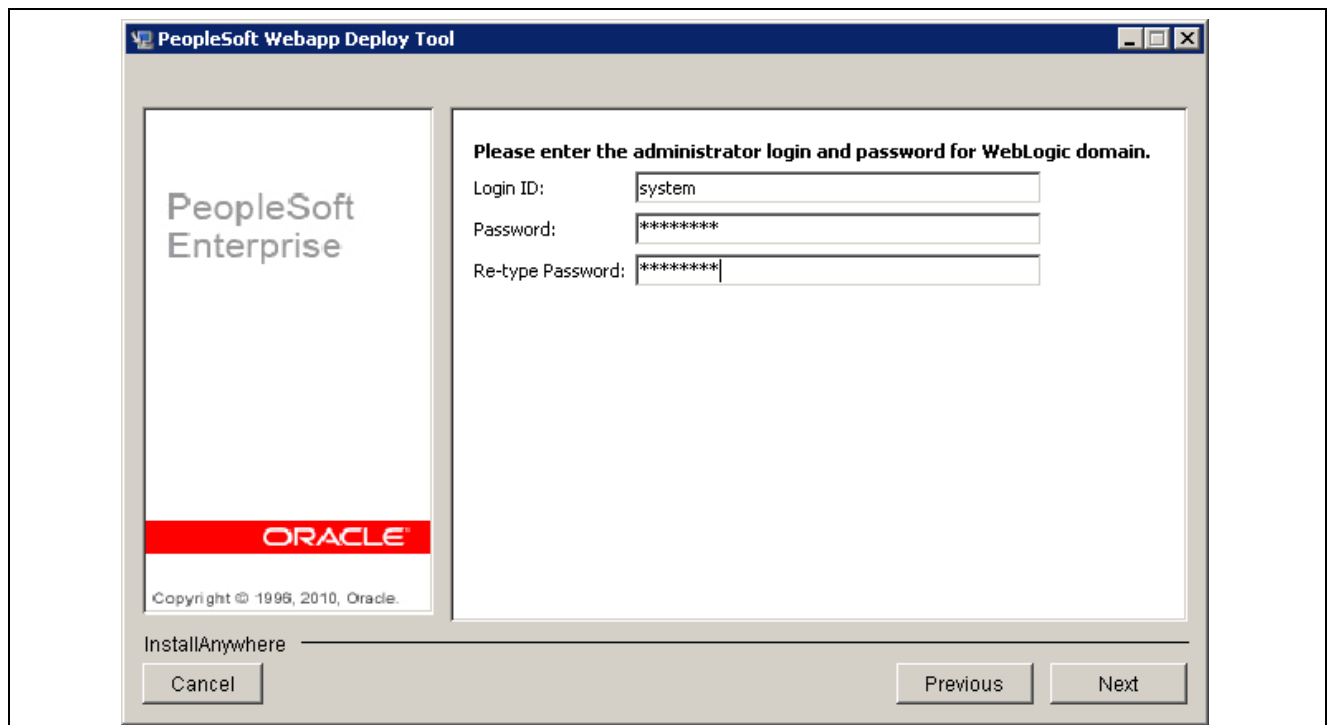
7. Specify the root directory where you installed Oracle WebLogic, and click Next.



Specifying the Oracle WebLogic root directory for the PeopleSoft Webapp Deploy Tool installation

8. Enter the login ID and password for the new domain that you are creating. Click Next to continue.

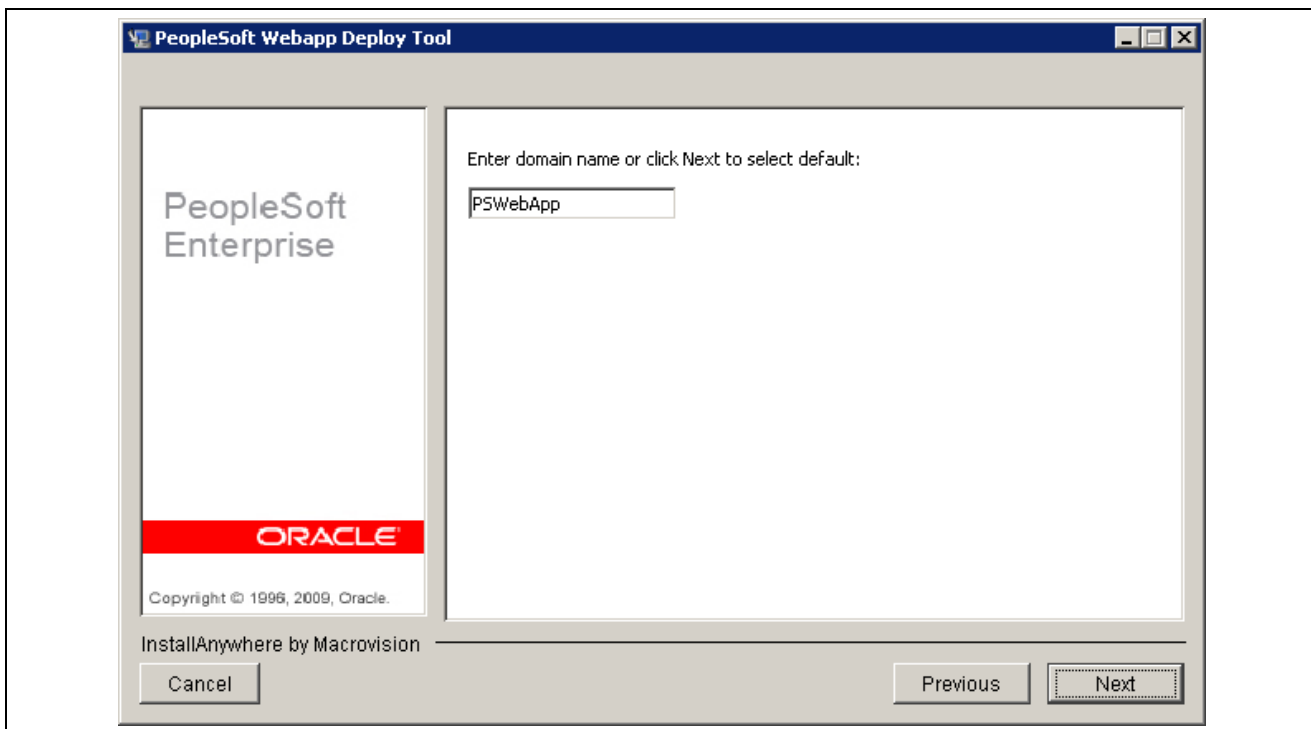
Note. The default login ID is system, and the default password is Passw0rd (with a capital “P” and zero rather than the letter “o”). The password must be at least 8 alphanumeric characters with at least one number or special character.



Entering the WebLogic domain administrator login and password for the PeopleSoft Webapp Deploy Tool installation

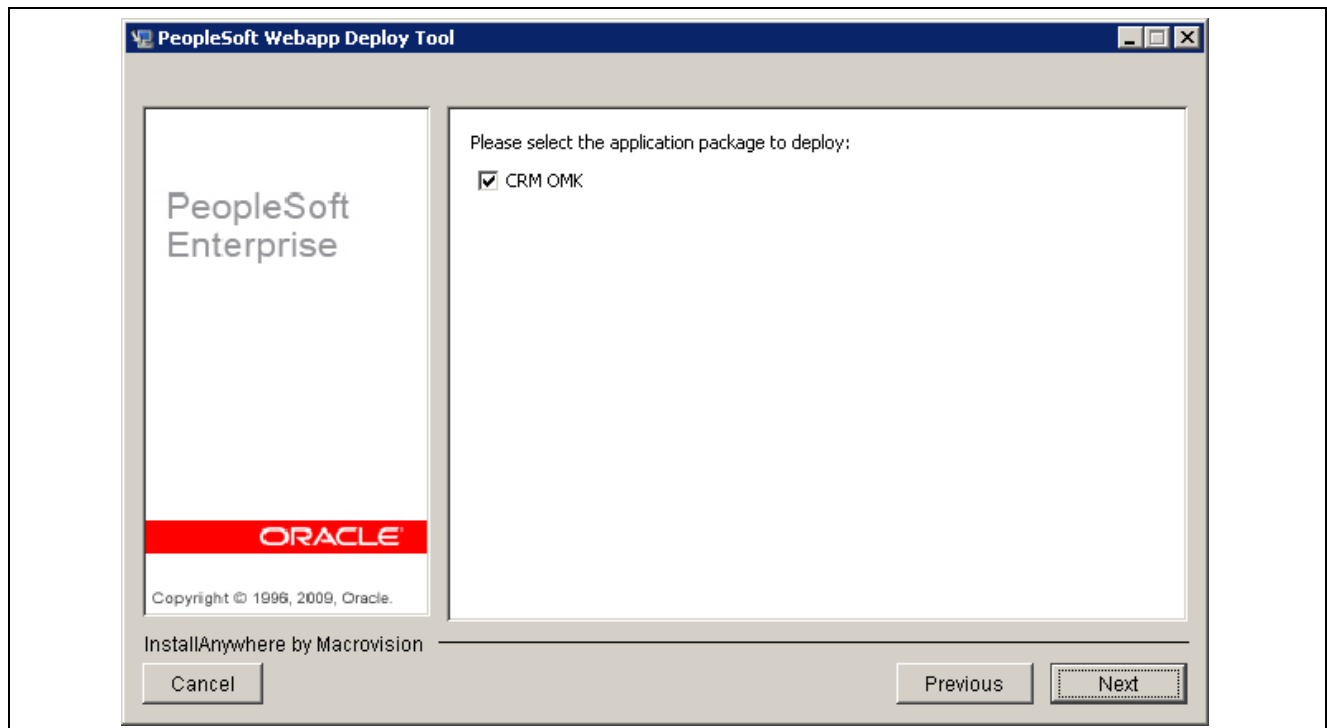
9. Enter a name for the Web Application Deploy domain, or accept the default name.
Use a fully qualified domain name, and do not use an IP address. Click Next to continue.

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.



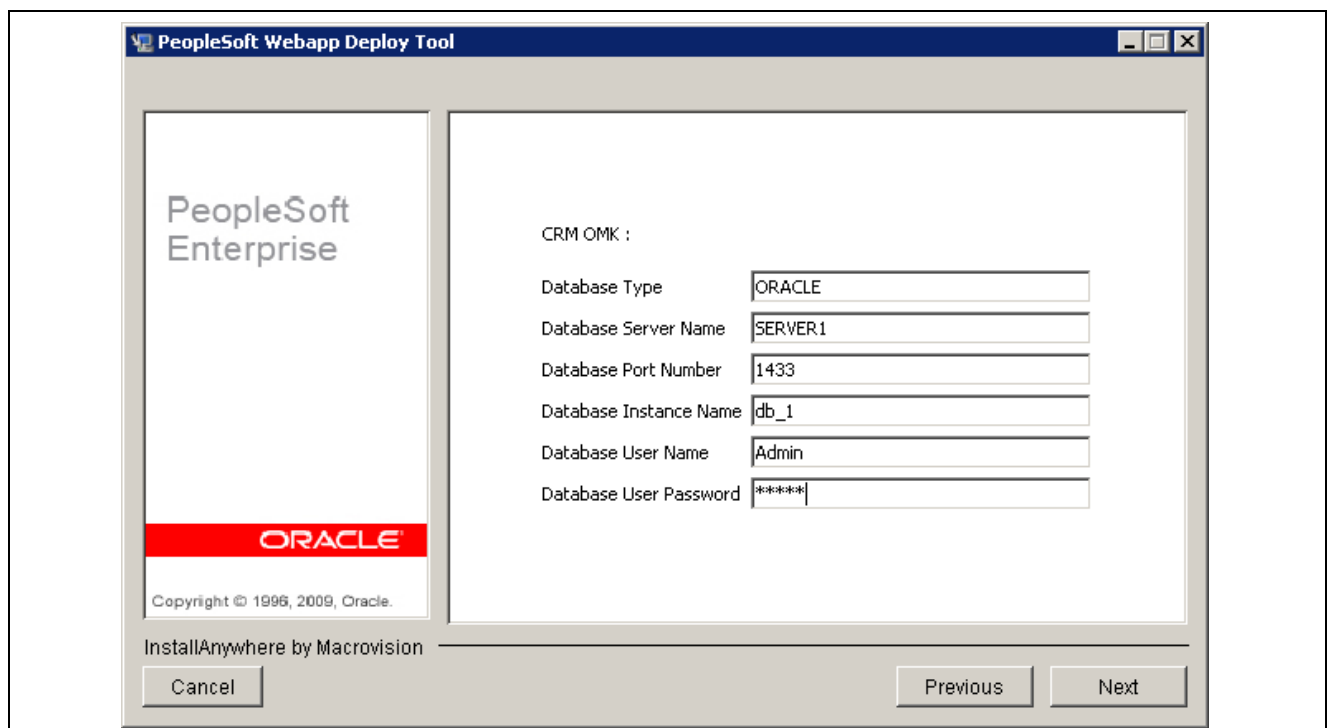
Entering domain name for the PeopleSoft Webapp Deploy Tool installation

10. 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.*



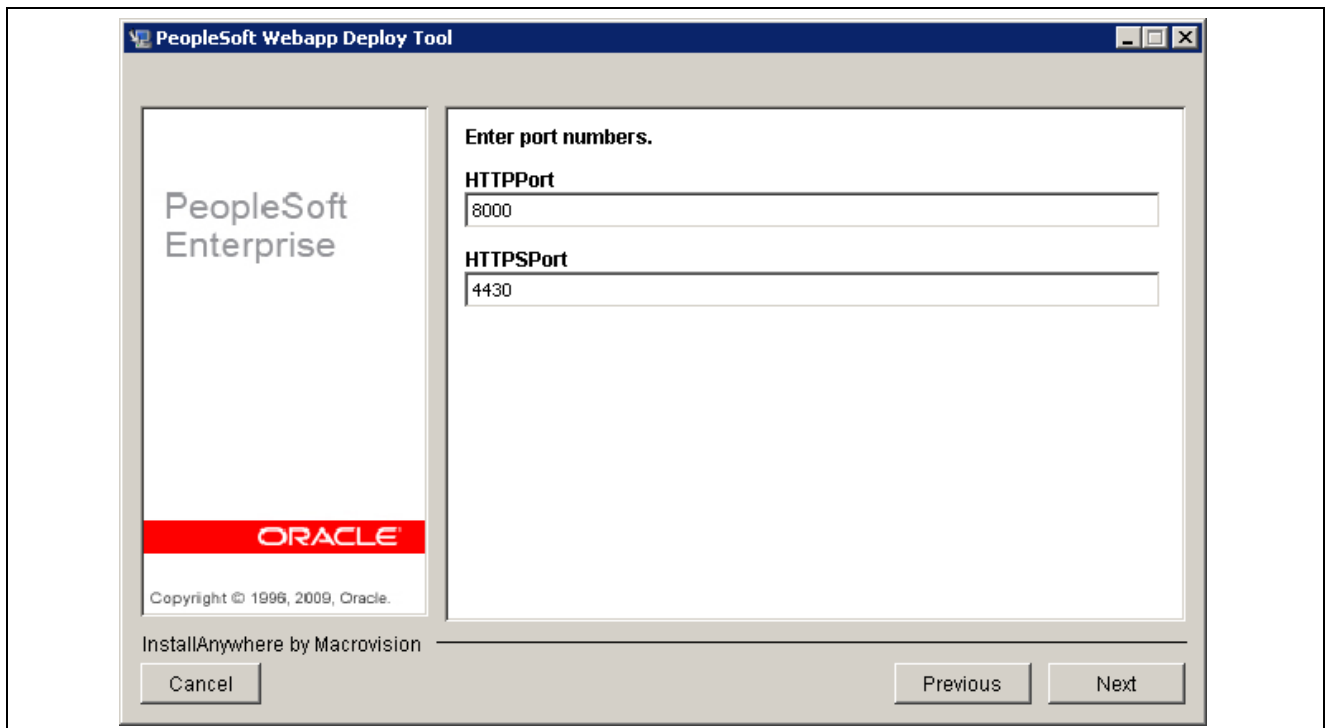
Selecting application packages for the PeopleSoft Webapp Deploy Tool installation

11. If the application(s) you selected in step 10 requires additional information, a window appears with entry fields for the required information. For example:



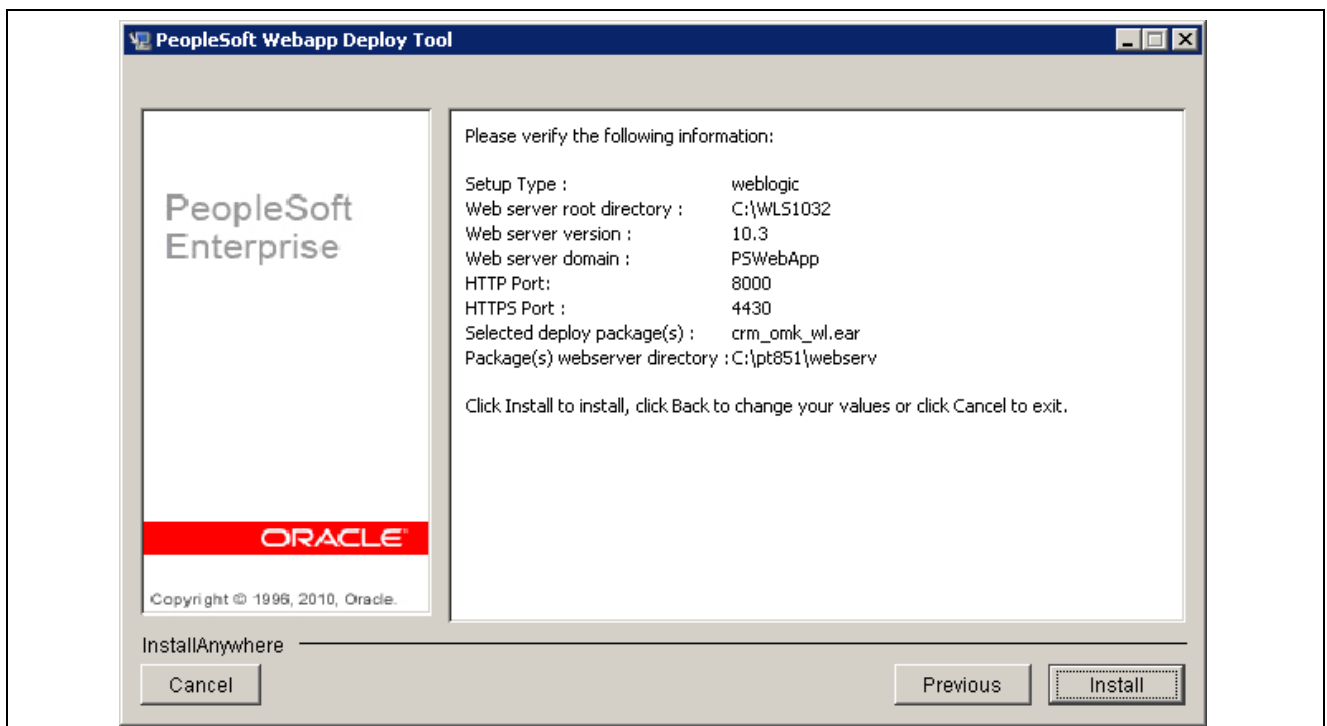
Specifying application information for the PeopleSoft Webapp Deploy Tool installation

12. Enter HTTP and HTTPS port numbers. Click Next to continue.



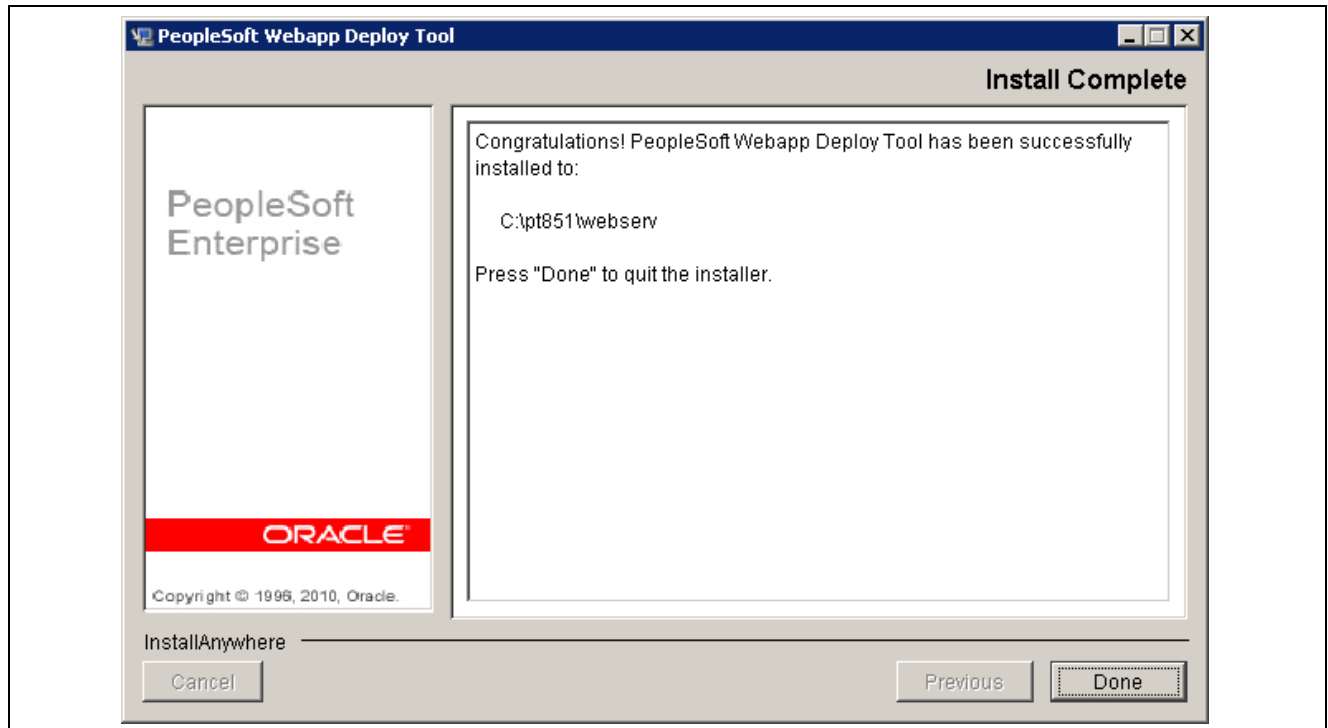
Entering port numbers for the PeopleSoft Webapp Deploy Tool installation

13. Verify your installation information 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

14. A confirmation screen appears when the installation completes. Click Done to exit the install shield wizard.

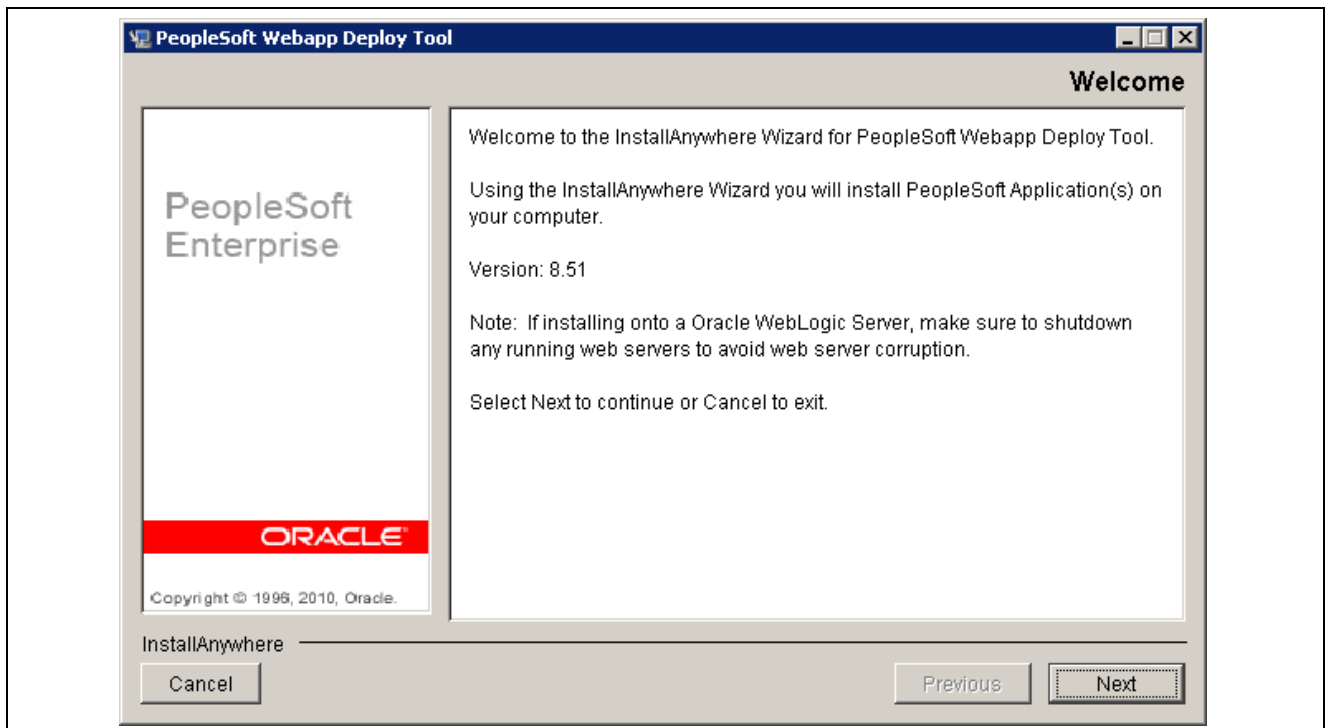


Final confirmation for the PeopleSoft Webapp Deploy Tool installation

Task F-2: Installing the Web Application Deployment Tools on WebSphere in GUI Mode

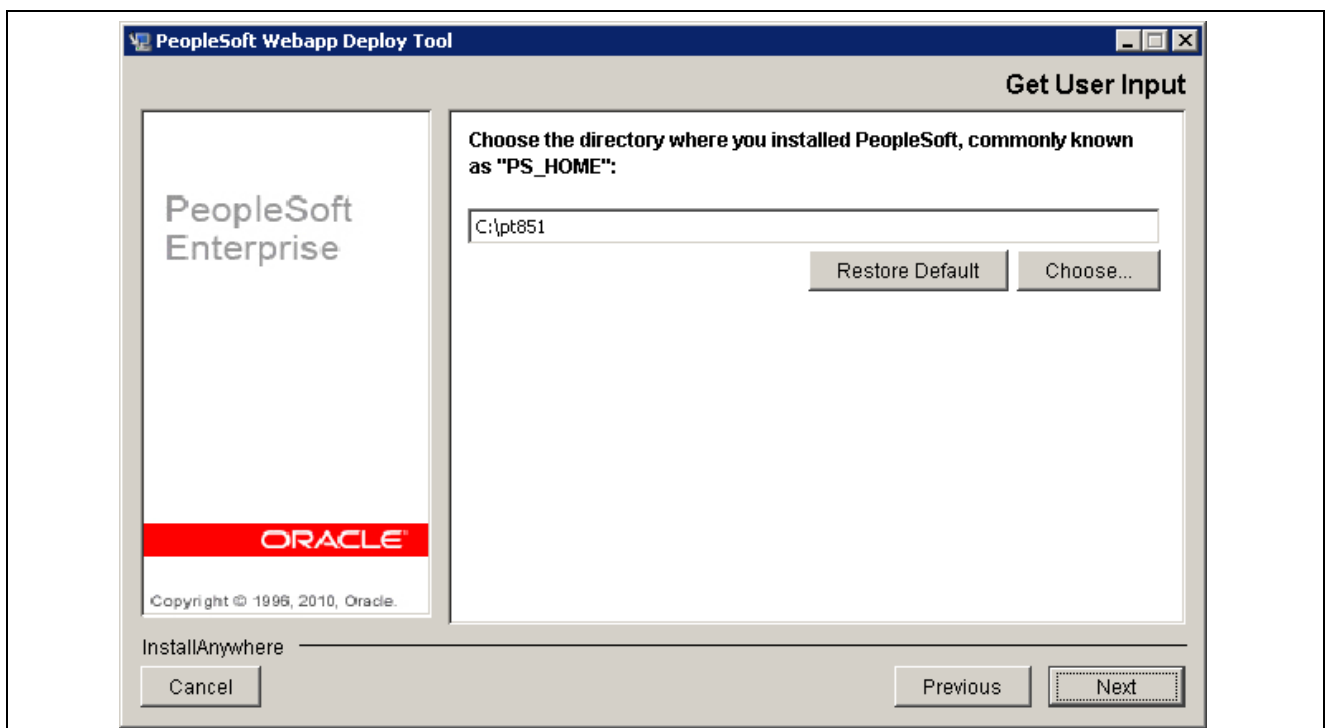
Use these instructions to install the Web Application Deployment Tools on WebSphere in GUI mode.

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 V7.0, 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 page.



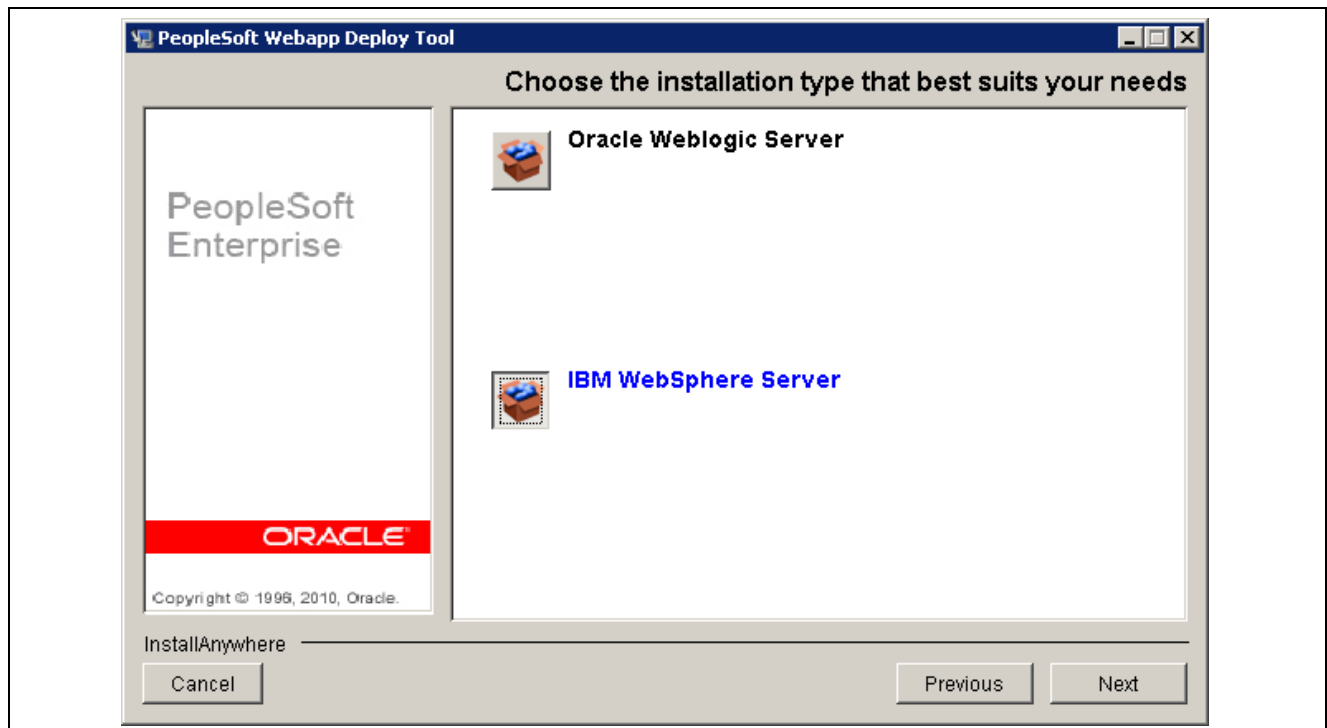
PeopleSoft Webapp Deploy Tool welcome window

6. Enter the same *PS_HOME* directory that you specified when you ran the PeopleSoft PeopleTools Installer and then click Next.



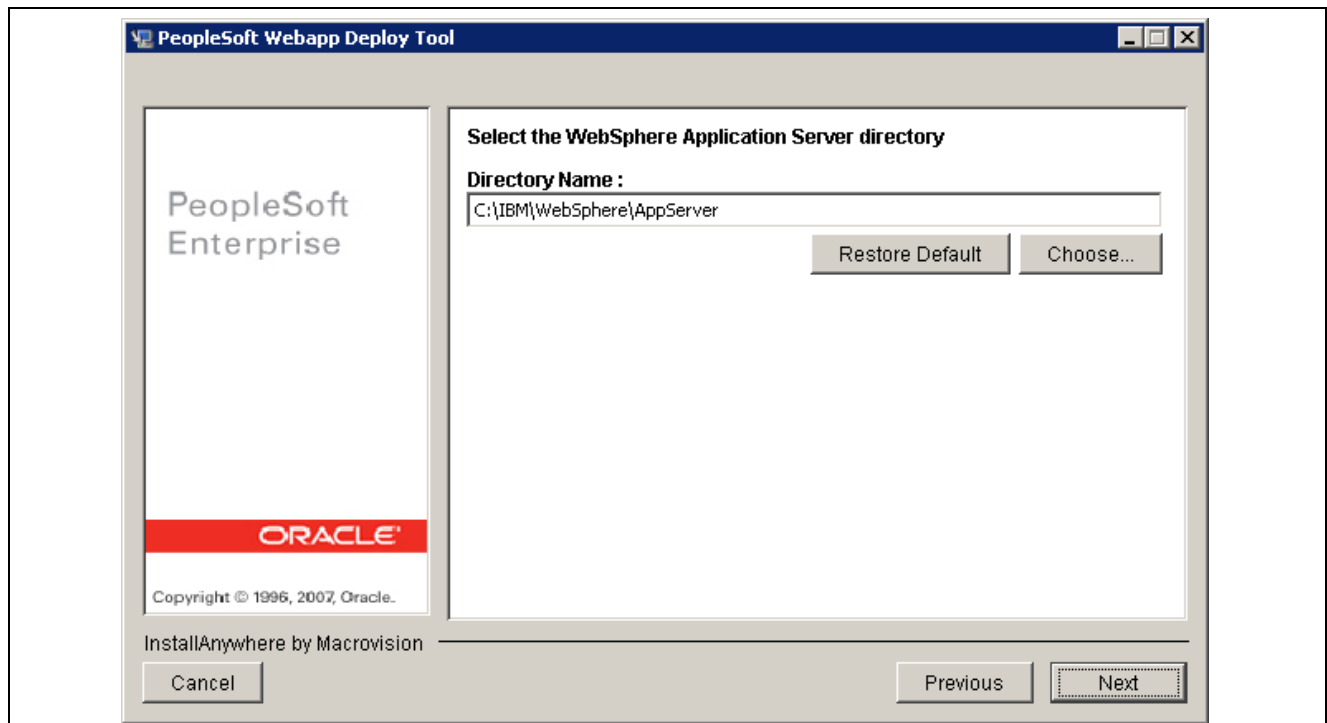
Entering PS_HOME on the PeopleSoft Webapp Deploy Tool window

7. Select IBM WebSphere Server and click Next.



Selecting IBM WebSphere on the PeopleSoft Webapp Deploy Tool window

8. Specify the root directory where you installed WebSphere Application server.



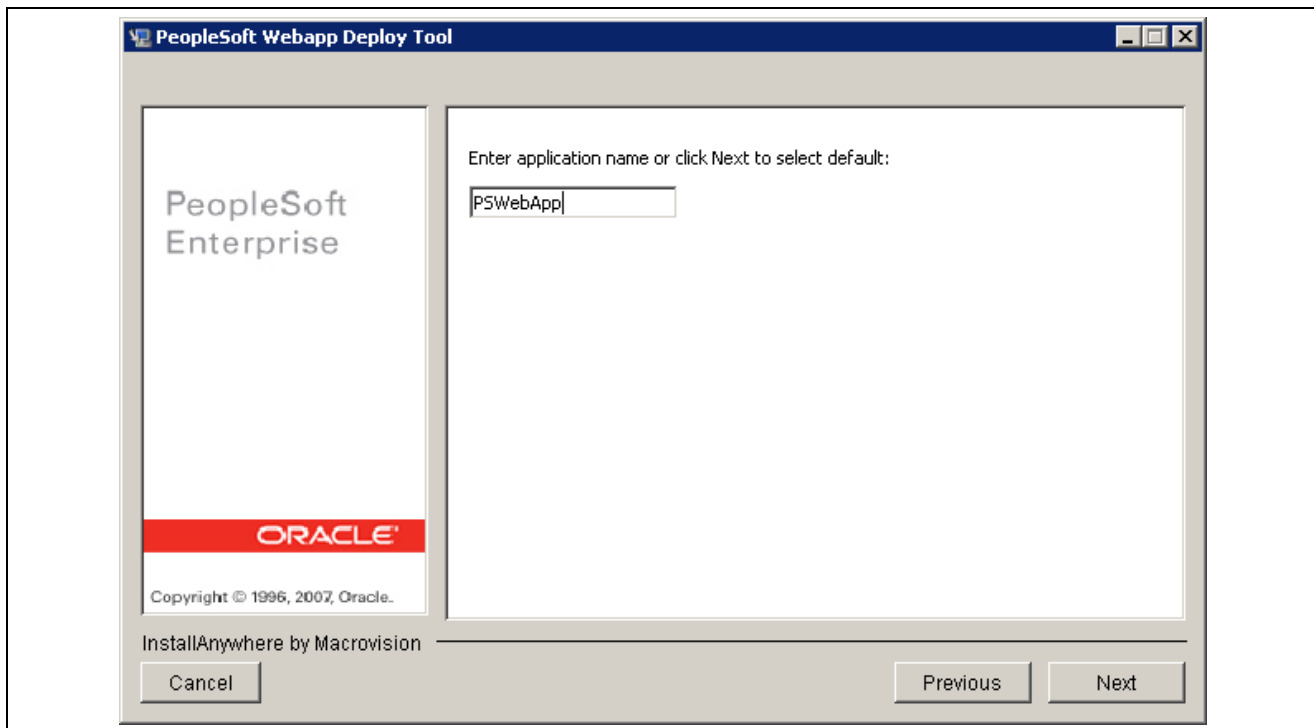
Specifying the WebSphere directory on the PeopleSoft Webapp Deploy window

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 *Enterprise PeopleTools 8.51 PeopleBook: System and Server Administration*

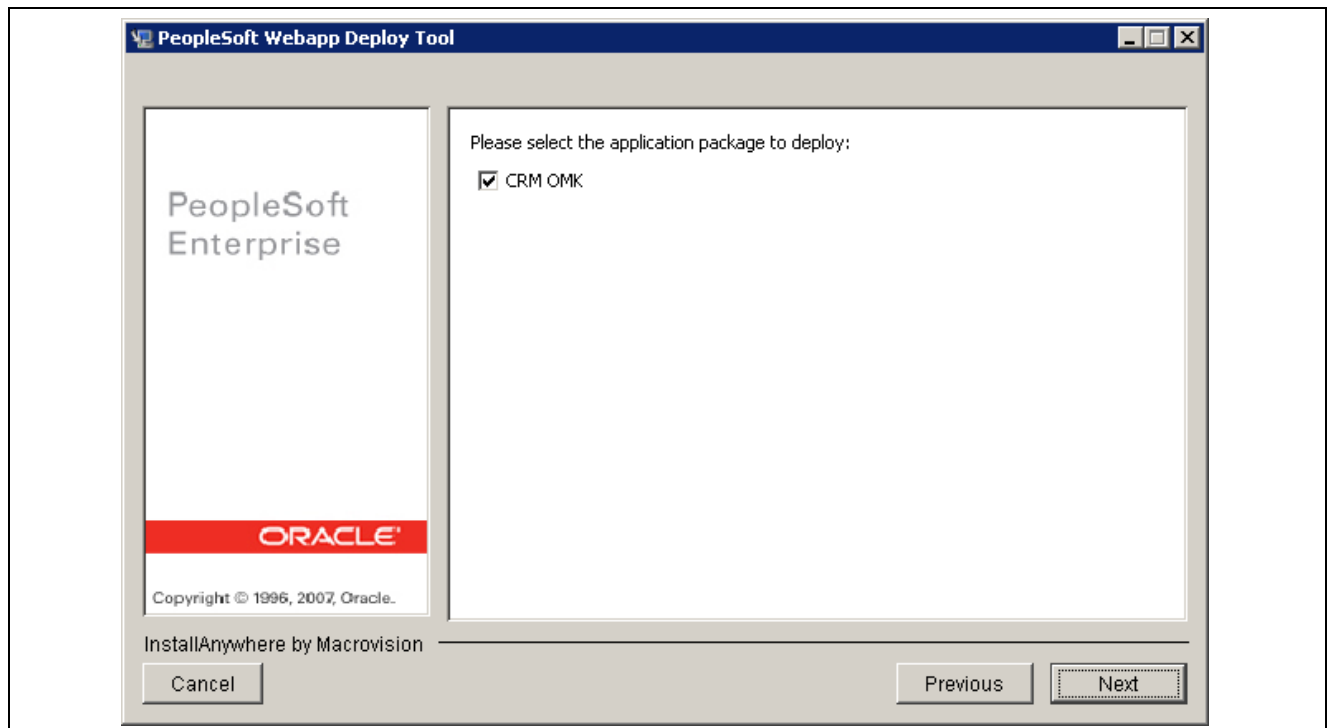
9. Enter a name for the Web Application Deploy domain, or accept the default name. Use a fully qualified domain name, and do not use an IP address. Click Next to continue.

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.



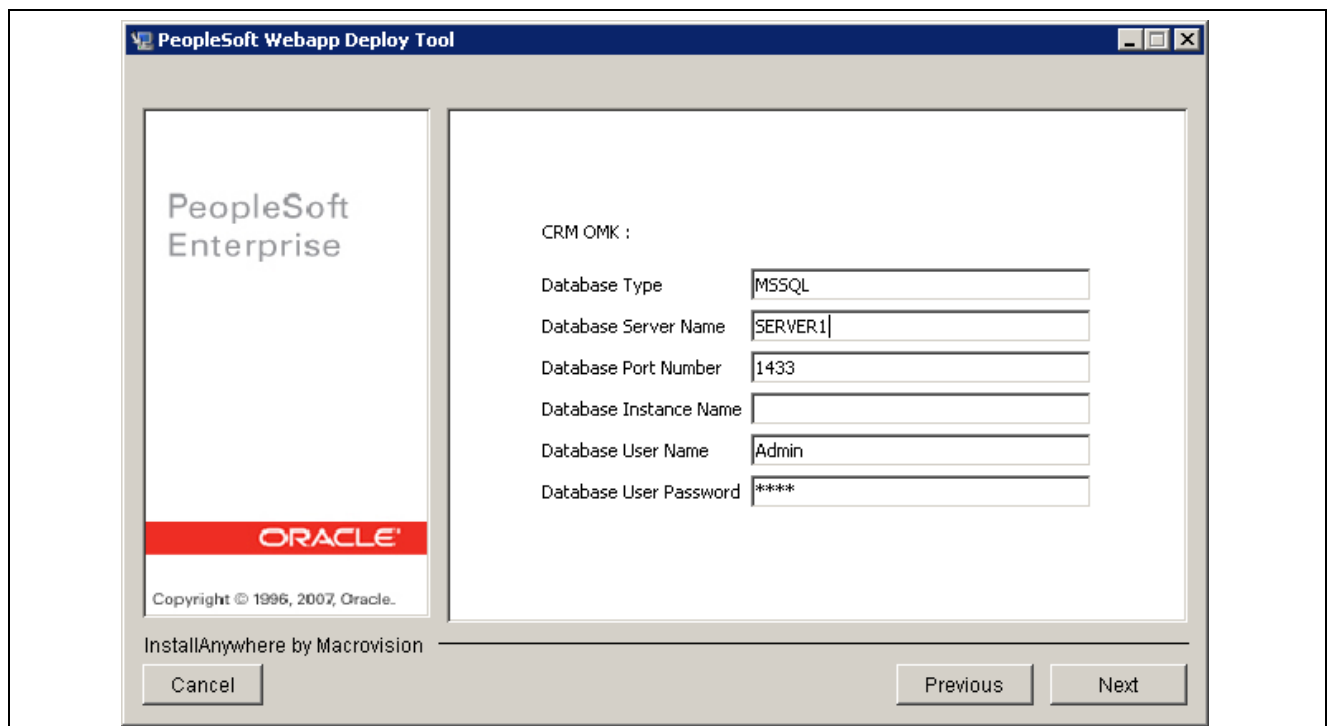
Entering application name on the PeopleSoft Webapp Deploy Tool window

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.*



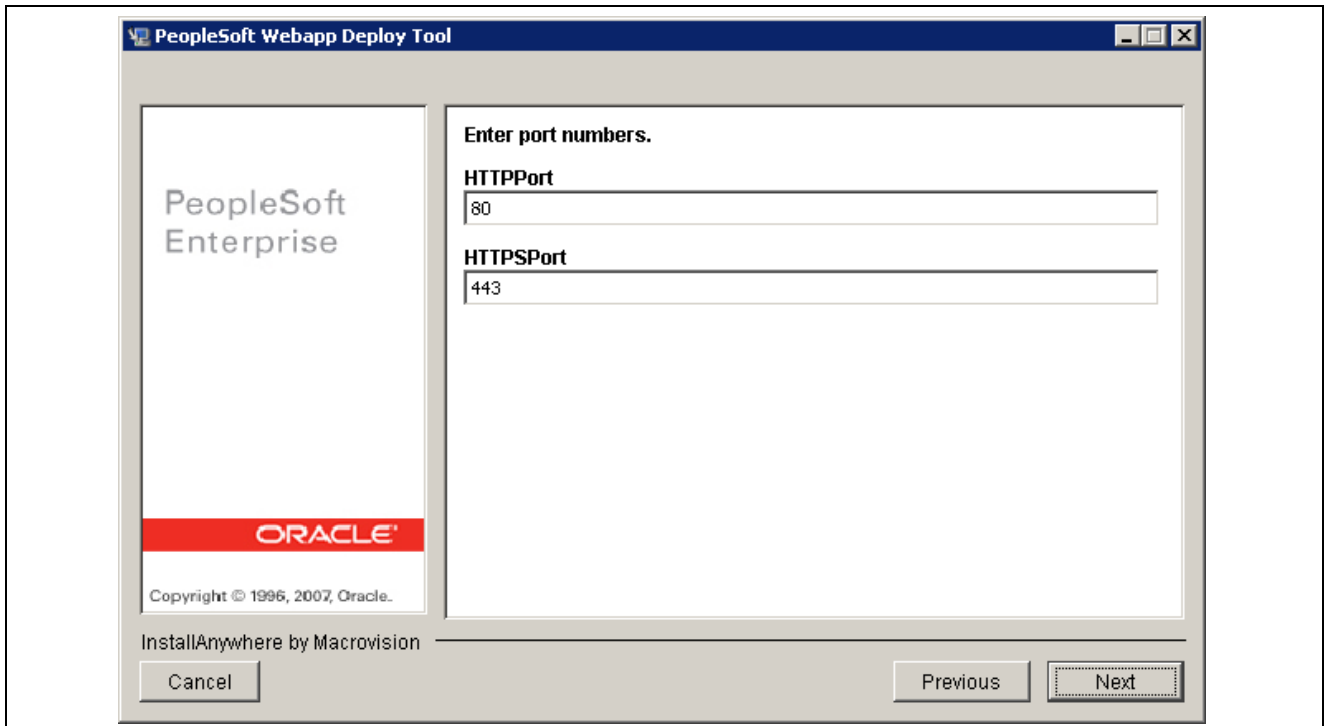
Selecting application packages on the PeopleSoft Webapp Deploy Tool window

11. If the application(s) you selected in the previous step requires additional information, a window appears with entry fields for the required information. For example:



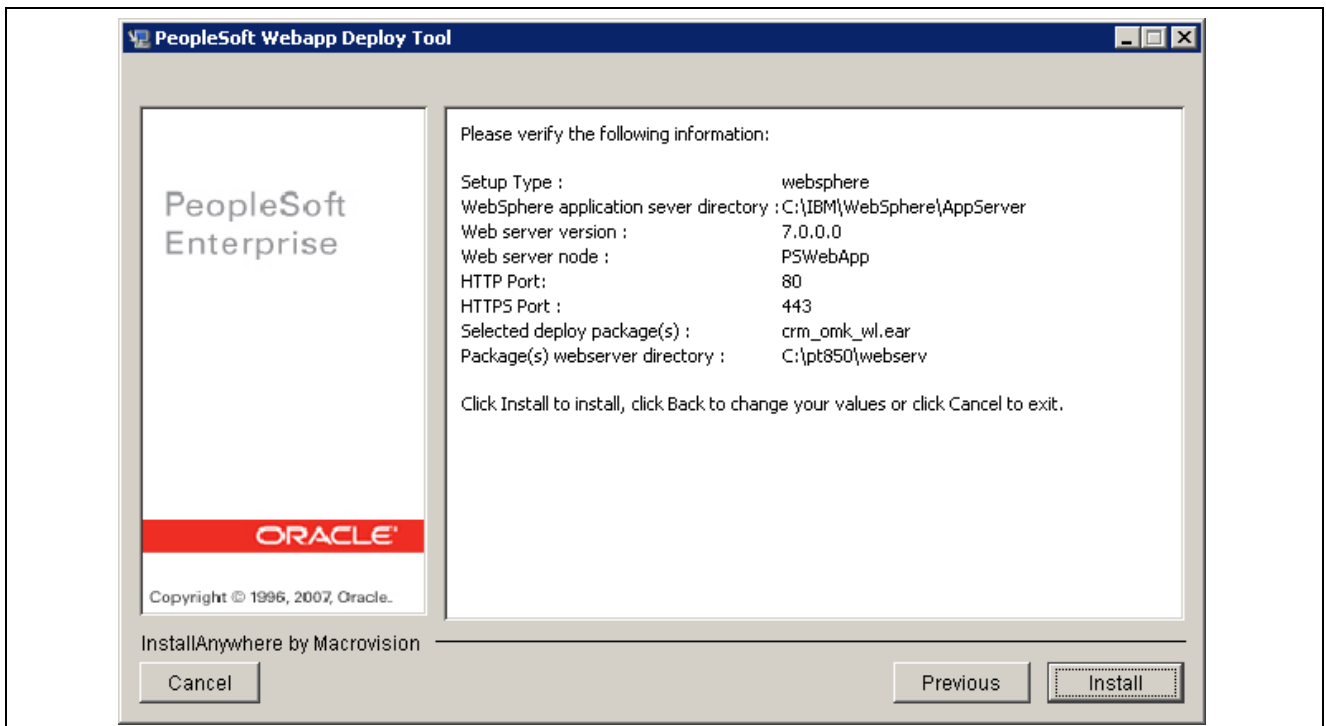
Specifying application information on the PeopleSoft Webapp Deploy Tool window

12. Enter HTTP and HTTPS port numbers. Click Next to continue.



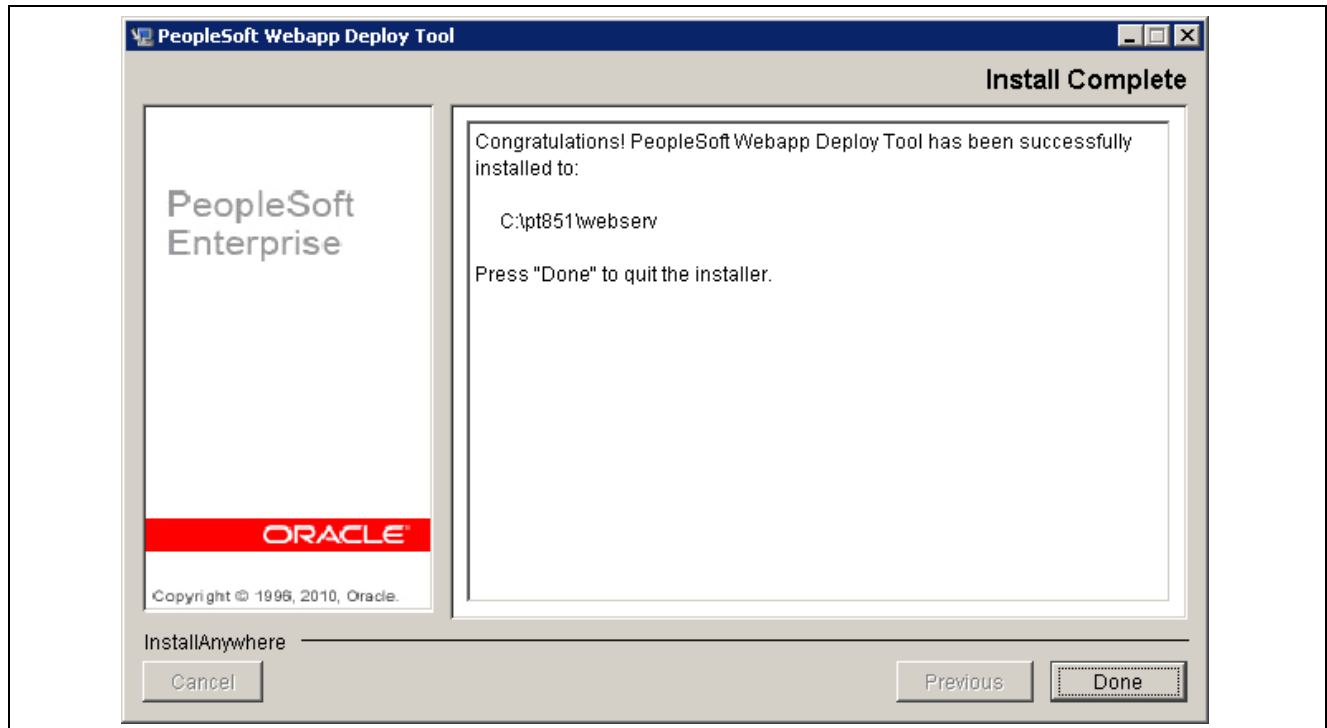
Entering port numbers on the PeopleSoft Webapp Deploy window

13. Verify your installation information 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

14. A window appears with a progress indicator. A confirmation screen appears when the installation completes. Click Done to exit the install shield wizard.



Confirming installation on the PeopleSoft Webapp Deploy Tool window

Task F-3: Installing the Web Application Deployment Tools on 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, and the default password is Passw0rd (with a capital "P" and zero rather than the letter "o"). 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:

[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. If the application(s) you selected in step 10 requires additional information, supply the necessary information at the next prompt. For example:

CRM OMK :

Database Type

[MSSQL]

Database Server Name

[]

Database Port Number

[0]

Database Instance Name

[]

Database User Name

[Admin]

Database User Password

[]

13. Enter HTTP and HTTPS port numbers.

Enter port numbers.

HTTP Port : [80] 8091

HTTPS Port : [443] 4431

14. 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 :10.3.2

Web server domain : PSWebApp

HTTP Port : 8091

HTTPS Port : 4431

Selected deploy package(s) : CRM Package.ear

Package(s) webserver directory : /opt/PS_HOME/webserv

15. 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.

Note. You can choose to deploy at a later time using the same commands.

Task F-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 *Enterprise PeopleTools 8.51 PeopleBook: 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. Use a fully qualified domain name, and do not use an IP address. Press */* 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
[MSSQL]

Database Server Name

[]

Database Port Number

[0]

Database Instance Name

[]

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] 8091

HTTPS Port: [443] 4431

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 F-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 locations:

- If you installed on Oracle WebLogic, the log file is found in <PIA_HOME>/webserv/<domain_name>logs/*.log
- If you installed on IBM WebSphere, look in <WAS_HOME>/appserver/log/<server_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.

APPENDIX G

Relinking SQR on UNIX

This appendix discusses:

- Understanding SQR Relinking
- Relinking SQR on UNIX
- Relinking SQR on HP-UX

Understanding SQR Relinking

PeopleSoft SQR is now linked with Unicode libraries and therefore no longer requires relinking with Unicode libraries. PeopleSoft SQR uses dynamic linking for database connectivity libraries and should not require relinking to support new versions of database connectivity. The exception to this rule is if the PeopleTools release spans multiple RDBMS versions and the database connectivity changes the names or functionality of required libraries in the new release. In addition, relinking may be required for invoking an external application's APIs using the UFUNC.C interface, as described in the SQR for PeopleSoft Developers PeopleBook.

See *Enterprise PeopleTools 8.51 PeopleBook: SQR for PeopleSoft Developers*, "Using Interoperability Features."

For example, PeopleTools 8.51 is currently supported on Oracle 10g. Based on the timing of our release we built the SQR modules for a specific PeopleSoft release with the lowest supported RDBMS version. For PeopleSoft PeopleTools 8.51 and higher, the minimum supported Oracle version is Oracle 10g (10.2.0.x.x). This means PeopleSoft SQR will work right out of the box on Oracle 10g (no relink required).

Note. For PeopleSoft PeopleTools 8.50 and higher and Oracle RDBMS, the only platform upon which SQR needs to be relinked is HP-UX. Relinking on HP-UX is described in detail later in this appendix.

Task G-1: Relinking SQR on UNIX

Here's a high-level overview of what you need to do, on a UNIX platform, to relink SQR:

1. Export the following environment variables:
 - SQRDIR, the location of the SQR executable.
 - PS_HOME, the PeopleSoft home directory.
 - PS_DB, the platform identifier variable:
SYB for Sybase
2. Export the database install home directory:

SYBASE

3. Add SQRDIR to the library path.

```
export LD_LIBRARY_PATH=$SQRDIR:$LD_LIBRARY_PATH
```

or

```
export SHLIB_PATH=$SQRDIR:$SHLIB_PATH
```

4. Change directory to `<PS_HOME>/bin/sqr/<PS_DB>/lib`
5. Run `sqrmake`.

Note. The following section is a step-by-step example illustrating how to relink SQR on the HP-UX/Oracle platforms. Other OS-platform combinations work in a similar fashion.

Task G-2: Relinking SQR on HP-UX

To relink SQR on HP-UX:

1. If the `psconfig.sh` shell script has not been executed, check for SQR env variables and set them as necessary.

Note. If your `PS_HOME/psconfig.sh` correctly sets the environment variables described below, you can skip this step.

```
env | grep SQRDIR
SQRDIR=
export SQRDIR=/home/hp844901run/bin/sqr/ORA/bin

env | grep PS_HOME
PS_HOME=
export PS_HOME=/home/hp844901run

env | grep PS_DB
PS_DB=
export PS_DB=ORA

env | grep ORACLE_HOME
ORACLE_HOME=
export ORACLE_HOME=/products/oracle/b.10.2.0-64bit

export SHLIB_PATH=/home/hp844901run/bin/sqr/ORA/bin:$SHLIB_PATH
```

2. Recheck the SQR env:

```
sp-hp12:$ env | grep -i sqr

SHLIB_PATH=/home/hp844901run/bin/sqr/ORA/bin:/lib:/usr/lib:/usr/local/lib:/usr?
/lib/X11:/sqr/prod/dbx/4.3.4/bin:/tuxedo/prod/6.5-j1.2/lib:/cobol/prod/
svrexp-5.0_wp4/coblib:/pt/products/hpux-11-parisc/lib:/ds1/home/db2udb7/sqllib⇒
/lib
SQRDIR=/home/hp844901run/bin/sqr/ORA/bin
```

3. Relink SQR for Oracle 9i.

```

sp-hp12:$ sqrmake
        /usr/ccs/bin/ld -o sqr /usr/ccs/lib/crt0.o -u__exit -umain cpprt0.o⇒
        +s -s sqr.o rosette.o sqr.a libsti.a bcl.a pdf.a zlib.a -L. -lsqrbtunicode
-L/products/oracle/b.10.2.0-64bit/lib32 -L/products/oracle/b.10.2.0-64bit/rdbms⇒
/lib32 -lcldntsh -lpthread -lstd_v2 -lcsup_v2 -lm -lcl -lc /usr/lib/libdld.sl -
l:libcl.sl -l:librt.sl -lpthread -l:libnss_dns.1 -l:libdld.sl
        /usr/ccs/bin/ld -o sqrp /usr/ccs/lib/crt0.o -u__exit -umain cpprt0.o⇒
        +s -s sqrp.o rosette.o sqrp.a libsti.a bcl.a pdf.a zlib.a -L. -lsqrbtunicode
-lpthread -lstd_v2 -lcsup_v2 -lm -lcl -lc /usr/lib/libdld.sl -l:libcl.sl -l:⇒
librt.sl -lpthread -l:libnss_dns.1 -l:libdld.sl
        /usr/ccs/bin/ld -o sqrt /usr/ccs/lib/crt0.o -u__exit -umain cpprt0.o⇒
        +s -s sqrt.o rosette.o sqrt.a libsti.a bcl.a pdf.a zlib.a -L. -lsqrbtunicode
-L/products/oracle/b.10.2.0-64bit/lib32 -L/products/oracle/b.10.2.0-64bit/rdbms⇒
/lib32 -lcldntsh -lpthread -lstd_v2 -lcsup_v2 -lm -lcl -lc /usr/lib/libdld.sl -
l:libcl.sl -l:librt.sl -lpthread -l:libnss_dns.1 -l:libdld.sl
sp-hp12:$

```

4. Validate the relinked SQR executable:

Once linked, cd to \$SQDIR

```
sp-hp12:$ cd $SQDIR
```

```
sp-hp12:$ pwd
```

```
/home/hp844901run/bin/sqr/ORA/bin
```

Validate SQR executable

```
sp-hp12:$ sqr -id
```

SQR for PeopleSoft/8.44/HP 9000/HPUX B.11.00/Oracle 8.0.6/Jun 25 2002

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SQR is a registered trademark.

Any other brand and product names used herein may be trademarks or registered trademarks of their respective companies.

```
sp-hp12:$
```

```
sp-hp12:$ sqr
```

SQR for PeopleSoft V8.51

SQR for PeopleSoft [program] [username/password] [-flags...] [pars...] [@file..]

where

```

    program = Report filename
    username = Database username
    password = Database password

    -A = Append to existing output file
    -Bn = Fetch n rows at a time
    -Burst:{xx} = Generate .LIS using specified burst mode (S,T or P)
    -Dn = Display report while processing, pause every n lines
    -DEBUGxx = Compile #DEBUG[x] lines
    -DNT:{xx} = Set the default numeric type (Decimal,Integer,Float)
    -E[file] = Direct errors to {program}.ERR or specified file
    -EH_BQD[:file] = Create BQD file or set linkage for Enhanced HTML
    -EH_APPLETS:dir = Set applets directory name for Enhanced HTML
    -EH_BROWSER:{xx} = Specify target browser for Enhanced HTML
    -EH_CSV[:file] = Create CSV file or set CSV linkage for Enhanced HTML
    -EH_CSVONLY = Create CSV file but do not create HTML file
    -EH_ICONS:dir = Set icons directory name for Enhanced HTML
    -EH_IMAGES:dir = Set images directory name for Enhanced HTML
    -EH_KEEP = Copy (not move) files when used with -EH_ZIP
    -EH_FULLHTML:{xx} = Specify the level of the generated Enhanced HTML
    -EH_LANGUAGE:{xx} = Specify language for Enhanced HTML navigation bar
    -EH_PDF = Set PDF linkage for Enhanced HTML
    -EH_SCALE:nn = Set scaling factor for Enhanced HTML
    -EH_XIMG = Do not remove directory path from IMAGE reference
    -EH_XML[:file] = Set XML linkage for Enhanced HTML
    -EH_ZIP[:file] = Move files to ZIP container file
    -F[dir/file] = Use [dir]{program}.LIS or specified file for output
    -Idir_list = Directory list to be searched for include files
    -ID = Display copyright banner
    -KEEP = Keep the .SPF file(s) after program run
    -LL{s|d}{c|i} = Load-Lookup: S=SQR, D=DB, C=Case Sensitive, I=Insensitive
    -Mfile = Maximum sizes declared in file
    -NOLIS = Do not generate .LIS file(s) from .SPF file(s)
    -O[file] = Direct log messages to console or specified file
    -PRINTER:{xx} = Printer mode: EP, EH, HT, LP, HP, PD, or PS
    -RS = Save run time file in {program}.sqt
    -RT = Use run time file (skip compile)
    -S = Display cursor status at end of run
    -Tn = Test report for n pages, ignore 'order by's
    -XB = Do not display the program banner
    -XI = Do not allow user interaction during program run
    -XL = Do not logon to database (no SQL in program)
    -XLFF = Do not generate trailing report form feed
    -XTB = Do not trim blanks from LP .LIS files

```



```

-XNAV = Do not put navigation bar into .HTM file
-XTOC = Do not generate Table Of Contents
-ZEN{name} = Set default encoding name
-ZIF[file] = Complete pathname of the initialization file to use
-ZMF[file] = Complete pathname of the message file to use
  pars = Report parameters for ASK and INPUT commands
  @file = File containing report parameters, one per line

```

```
sp-hp12:$
```

5. Change directory (CD) to the actual location of \$PS_HOME to set the PeopleSoft env with the correct SQR ENV.

```

sp-hp12:$ . ./psconfig.sh
sp-hp12:$

```

6. Test SQR from the UNIX command line, entering the access ID and password for the database <DBNAME>.

Note. Remember that this example is specifically for Oracle database platforms. The commands for other RDBMS platforms may be different.

```

sp-hp12:$ sqr $PS_HOME/sqr/xrffwin <ACCESS_ID>/<ACCESS_PSWD>@<DBNAME> -ZIF$PS_⇒
HOME/sqr/pssqr.unx
SQR for PeopleSoft V8.51
Database Name (Optional, Press ENTER to continue):
Process Instance (Optional, Press ENTER to continue):

SQR for PeopleSoft: End of Run.
sp-hp12:$

```


APPENDIX H

Using the XSLT Mapper with Oracle BPEL Process Manager

This appendix discusses:

- Understanding the XSLT Mapper
- Installing the Needed Version of JDeveloper
- Setting Up the XSLT Mapper

Understanding the XSLT Mapper

The Extensible Stylesheet Language Transformation (XSLT) mapper is intended for application developers and consultants who write PeopleSoft Application Engine programs of type “transform.” The XSLT mapper allows you to write transformation programs without hard-coding each XSLT step. The XSLT mapper is integrated with JDeveloper. Install any of the supported JDeveloper versions (10.1.2, 10.1.3, or 11gR1) and specify the JDeveloper location in PeopleSoft Configuration Manager.

This section assumes that you have installed the PeopleSoft workstation.

See Also

"Setting Up the Install Workstation"

Enterprise PeopleTools 8.51 PeopleBook: Integration Broker, "Applying Filtering, Transformation and Translation"

Task H-1: Installing the Needed Version of JDeveloper

To download JDeveloper, and for installation instructions, refer to the Oracle JDeveloper web site.

See Oracle JDeveloper web site, <http://www.oracle.com/technology/products/jdev/index.html>

Task H-2: Setting Up the XSLT Mapper

To use the XSLT mapper, use PeopleSoft Configuration Manager to specify the installation directory and classpath for JDeveloper.

See *Enterprise PeopleTools 8.51 PeopleBook: Integration Broker*, "Developing Transforms Using Oracle XSL Mapper."

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