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PeopleSoft Enterprise FSCM 9.1 Mobile Inventory Management Installation Guide

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PeopleSoft Enterprise FSCM 9.1 Mobile Inventory Management
Installation Guide
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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, available on My Oracle Support.

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 Enterprise CRM.

To find the installation documentation for PeopleSoft PeopleTools or for your PeopleSoft application, go to My Oracle Support.

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.

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- PeopleSoft windows, menus, and pages, and how to modify them.
- Microsoft Windows.

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

See My Oracle Support

Typographical Conventions

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

Convention	Description
`Monospace`	Indicates a PeopleSoft 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.
Italics	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 *O*.
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 *See* 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 *See Also* 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.
Note. Note text.	Text that begins with *Note.* indicates information that you should pay particular attention to as you work with your PeopleSoft system.

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Convention	Description
Important! Important note text.	A note that begins with *Important!* 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 *Warning!* contains critical configuration information or implementation considerations; for example, if there is a chance of losing or corrupting data. Pay close attention to warning messages.

Products

This documentation may refer to these products and product families:

- Oracle® BPEL Process Manager
- Oracle® Enterprise Manager
- Oracle® 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

Note. This documentation may refer 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.

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Related Information

Oracle provides reference information about PeopleSoft PeopleTools and your particular PeopleSoft application. The following documentation is available on Oracle Technology Network:

- PeopleSoft 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.

See http://www.oracle.com/technology/documentation/psftent.html to access PeopleSoft PeopleBooks on Oracle Technology Network.

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, 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.

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CHAPTER 1

Installing PeopleSoft Enterprise FSCM 9.1 Mobile Inventory Management

This chapter discusses:

- Understanding the PeopleSoft Enterprise FSCM 9.1 Mobile Inventory Management Product
- Prerequisites
- Using Oracle E-Delivery to Obtain Installation Files
- Installing the Oracle WebLogic Server for Mobile
- Installing the Oracle Application Developer Framework for PeopleSoft Mobile Inventory Management
- Installing PeopleSoft Mobile Inventory Management
- Applying the PeopleSoft Mobile Inventory Management Authentication Provider
- Installing the PeopleSoft Database
- Deploying the Mobile Application to Oracle Application Developer for an Oracle WebLogic Server
- Undeploying the Mobile Application

Understanding the PeopleSoft Enterprise FSCM 9.1 Mobile Inventory Management Product

The PeopleSoft Mobile Inventory Management product provides tools that integrate handheld bar code data collection devices with the PeopleSoft Supply Chain Management system, providing improved efficiency and cost savings. Oracle Application Developer Framework is used with the PeopleSoft Integration Broker and PeopleSoft Component Interfaces (CIs) to enable this process. The Oracle Application Developer Framework software is part of Oracle Fusion Middleware.

PeopleSoft CIs are PeopleTools components that enable exposure of a PeopleSoft component for synchronous access from another application and act as a web service in the PeopleTools Integration Broker. Web services are then published through the PeopleSoft Integration Broker and can pass transaction data between PeopleSoft applications and additional component (third-party) applications.

For more information on setting up PeopleSoft application servers and web services, refer to the task *"Installing the PeopleSoft Database"* later in this document, as well as the following reference documents that are available on My Oracle Support:

See *PeopleSoft Enterprise PeopleTools 8.50 PeopleBook: System and Server Administration guide, for your database platform.*

See *PeopleSoft Enterprise FSCM 9.1 Mobile Inventory Management* user guide documentation.

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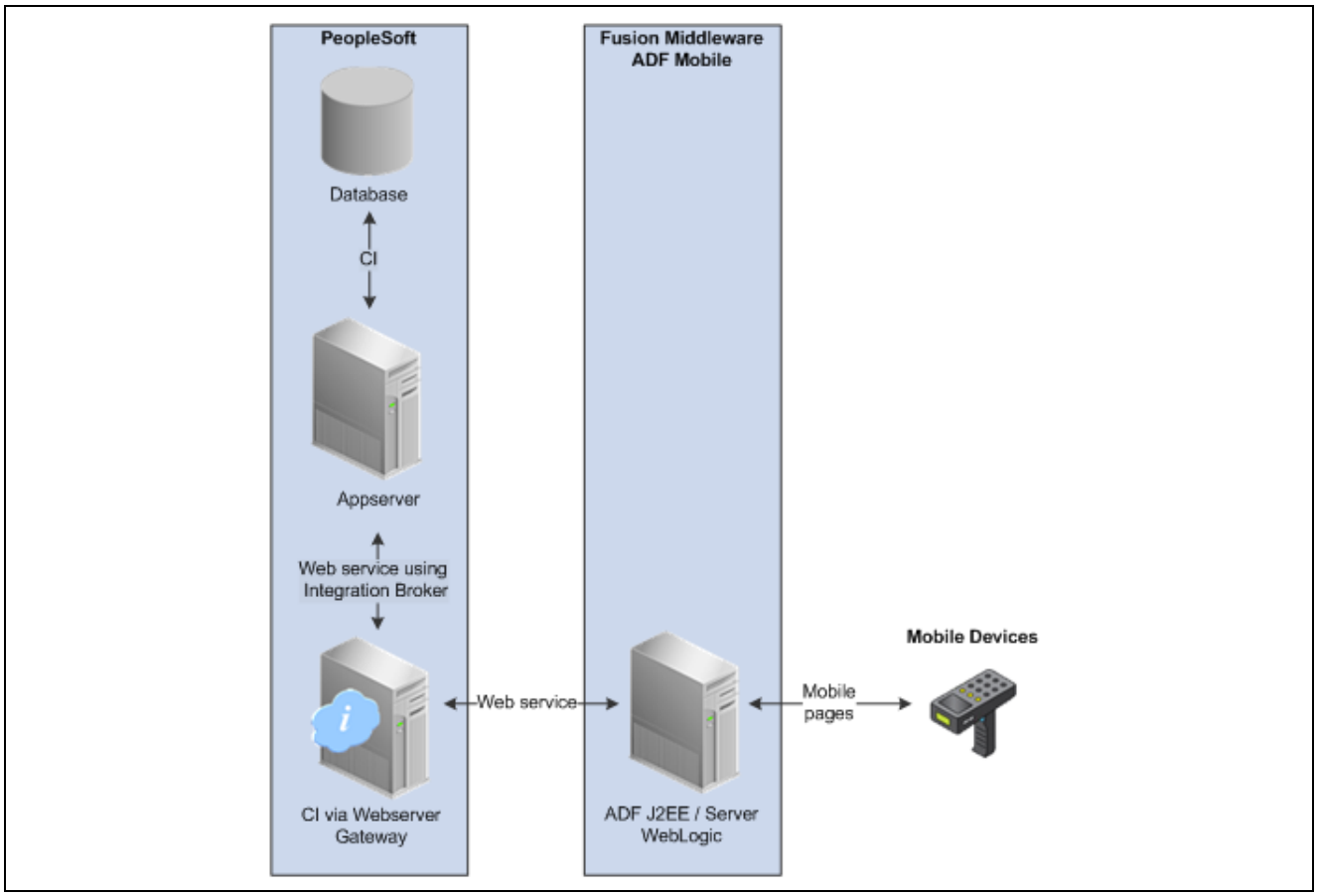
The following diagram illustrates the interface between PeopleSoft and mobile devices:



Overview of the interface between PeopleSoft and mobile devices

Prerequisites

The following requirements must be met before you install the PeopleSoft Enterprise FSCM 9.1 Mobile Inventory Management product:

- PeopleSoft Enterprise PeopleTools 8.50.07 or higher.

  To run PeopleSoft Enterprise FSCM 9.1 Mobile Inventory Management, you must be using PeopleSoft PeopleTools 8.50.07 or higher.

  For more information and details on how to install PeopleSoft PeopleTools:

  See *PeopleSoft Enterprise PeopleTools 8.50 Installation Guide for your database platform.*

  Oracle recommends that you check My Oracle Support for the latest PeopleSoft PeopleTools patches.

  See My Oracle Support

- PeopleSoft Enterprise FSCM 9.1 Application.

  To run PeopleSoft Mobile Inventory Management 9.1, you must be using PeopleSoft Enterprise Financials/Supply Chain Management 9.1 Feature Pack March 2011, PeopleSoft Enterprise Financials/Supply Chain Management 9.1 Maintenance Pack 5, or Bundle #9.

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- PeopleSoft FSCM 9.1 Feature Pack March 2011, PeopleSoft FSCM 9.1 Maintenance Pack 5 or Bundle 9 must be applied.

  When running Bundle 9, resolution UPD860191 is also required as a *post* requisite to Bundle 9.

  Resolution UPD860191 is included in PeopleSoft FSCM 9.1 Feature Pack March 2011 and PeopleSoft FSCM 9.1 Maintenance Pack 5.

- Resolution UPD860433 (included in the PeopleSoft Mobile Inventory Management CD/Oracle E-Delivery download) is required.

  Refer to the task in this document titled *Applying Prerequisite Project UPD860433 (Pre-Bundle 10 Only)*. This project is included in Bundle 10, so you are only required to separately install the project pre-Bundle 10.

- The current 64-bit Java, if you are installing on a 64-bit server.

  Go to www.java.com to download the current 64-Bit Java to use with the PeopleSoft Mobile Inventory Management installation.

- Oracle Application Developer 11.1.1.4.

  Before you install PeopleSoft Mobile Inventory Management 9.1, you must have already completed the installation of Oracle Application Developer 11.1.1.4 on an Oracle WebLogic 10.3.4 Server instance. You can access the complete Oracle Application Developer 11.1.1.4 Installation Guide and the complete Oracle WebLogic 10.3.4 Installation Guide from the Oracle Fusion Middleware Documentation Library, located at: http://download.oracle.com/docs/cd/E12839_01/index.htm

  See *Oracle Application Developer 11.1.1.4 Installation Guide*

  See *Oracle WebLogic 10.3.4 Installation Guide*

- PeopleSoft Inventory 9.1.

  Before you install PeopleSoft Mobile Inventory Management 9.1, you must have already completed the installation and set up of PeopleSoft Inventory 9.1.

- PeopleSoft Purchasing 9.1.

  Before you install PeopleSoft Mobile Inventory Management 9.1, you must have already completed the installation and set up of PeopleSoft Purchasing 9.1. This is *only* required if you plan to use receiving and delivery.

- Run audit reports to clean your target databases.

  Oracle recommends that you run audit reports to ensure that your target databases are clean, before beginnning the installation process.

For hardware and software information, you can refer to the following documents that are available on My Oracle Support and Oracle Technology Network:

See *PeopleSoft Enterprise PeopleTools 8.50 Installation guide, for your database platform.*

See *PeopleSoft Enterprise PeopleTools 8.50 Hardware and Software Requirements guide, for your database platform.*

See *PeopleSoft Enterprise FSCM 9.1 Mobile Inventory Management Hardware and Software Requirements guide.*

See *PeopleSoft Enterprise Financials/Supply Chain Management 9.1 Hardware and Software Requirements guide.*

See *Oracle Application Development Framework 11.1.1.4 Hardware and Software Requirements guide.*

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Task 1-1: Using Oracle E-Delivery to Obtain Installation Files

Before beginning the installation, you must obtain the PeopleSoft Enterprise FSCM 9.1 Mobile Inventory Management installation software by downloading the necessary zip files from the Oracle E-Delivery web site. Use the documentation available on Oracle E-Delivery to ensure that you obtain all of the zip files that are required for your environment.

See http://edelivery.oracle.com

Task 1-2: Installing the Oracle WebLogic Server for Mobile

This section discusses:

- Understanding the Oracle WebLogic Server Installation for Mobile
- Installing the Oracle WebLogic Server for PeopleSoft Mobile Inventory Management

Understanding the Oracle WebLogic Server Installation for Mobile

Oracle Application Developer for Mobile is installed on top of the Oracle WebLogic Server. Therefore, you must first install the Oracle WebLogic Server.

The Oracle WebLogic Server supports the Oracle Application Developer and the Application Developer Mobile browser that extends Oracle Application Developer to browsers running on mobile devices. The following steps detail a *general* installation of the Oracle WebLogic Server for PeopleSoft Mobile Inventory Management.

Note. Access the complete installation guides for Oracle WebLogic 10.3.4 and Oracle Application Developer 11.1.1.4 from the Oracle Fusion Middleware Documentation Library, located at: http://download.oracle.com/docs/cd/E12839_01/index.htm

Task 1-2-1: Installing the Oracle WebLogic Server for PeopleSoft Mobile Inventory Management

To install the Oracle WebLogic Server for PeopleSoft Mobile Inventory Management:

Note. You can access the complete installation guide for the Oracle WebLogic Server 10.3.4 from the Oracle Fusion Middleware Documentation Library, located at: http://download.oracle.com/docs/cd/E12839_01 /index.htm

1. Download the installation files from Oracle E-Delivery.

   See the task titled *"Using Oracle E-Delivery to Obtain Installation Files"* to access the necessary installation files for your environment.

   See http://edelivery.oracle.com

2. Double-click the executable file to start the Oracle Installer Wizard that launches the Oracle WebLogic Server 11g R1.

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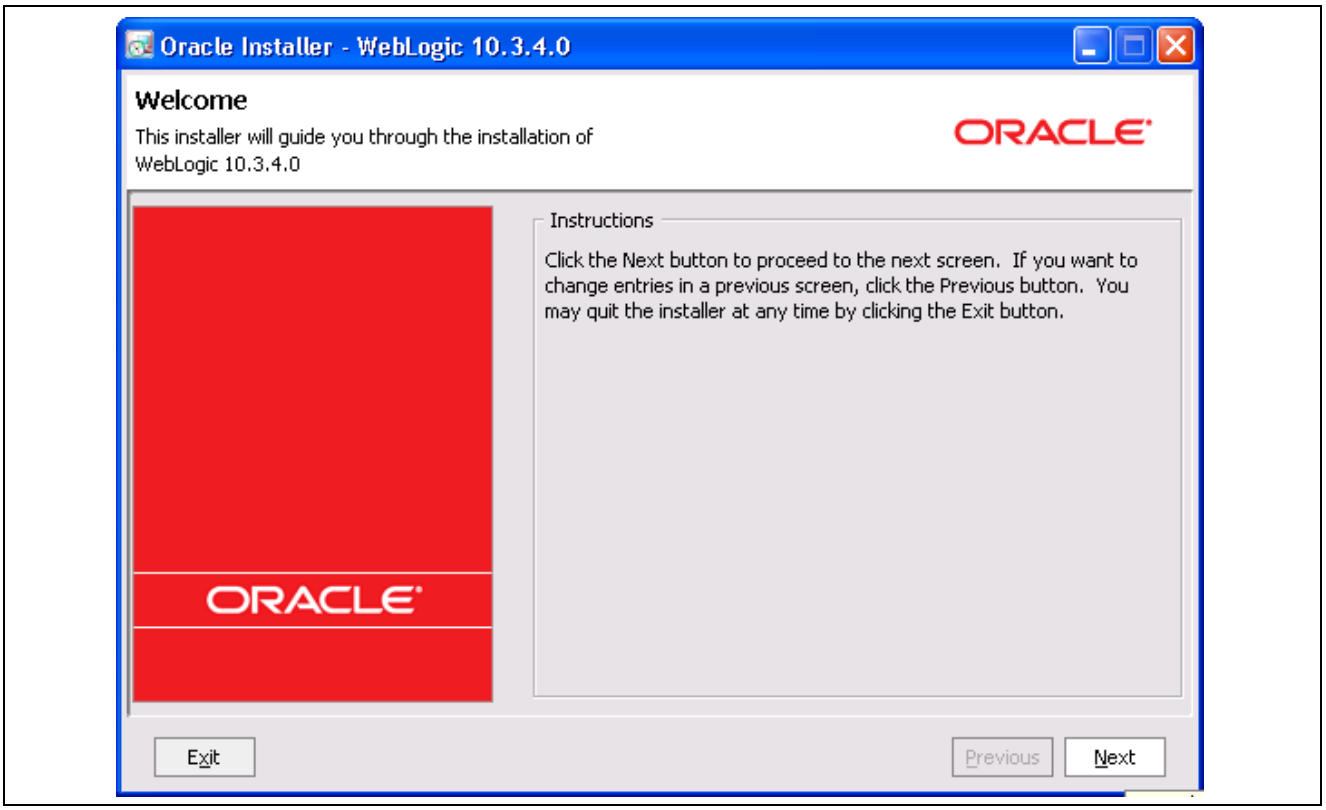
The Oracle Installer - WebLogic 10.3.4.0 Welcome page appears, as shown in the following example:



Oracle Installer - WebLogic 10.3.4.0 Welcome page

3. On the Welcome page, click Next.

   The Oracle Installer WebLogic - Choose Middleware Home Directory page appears, as shown in the following example:

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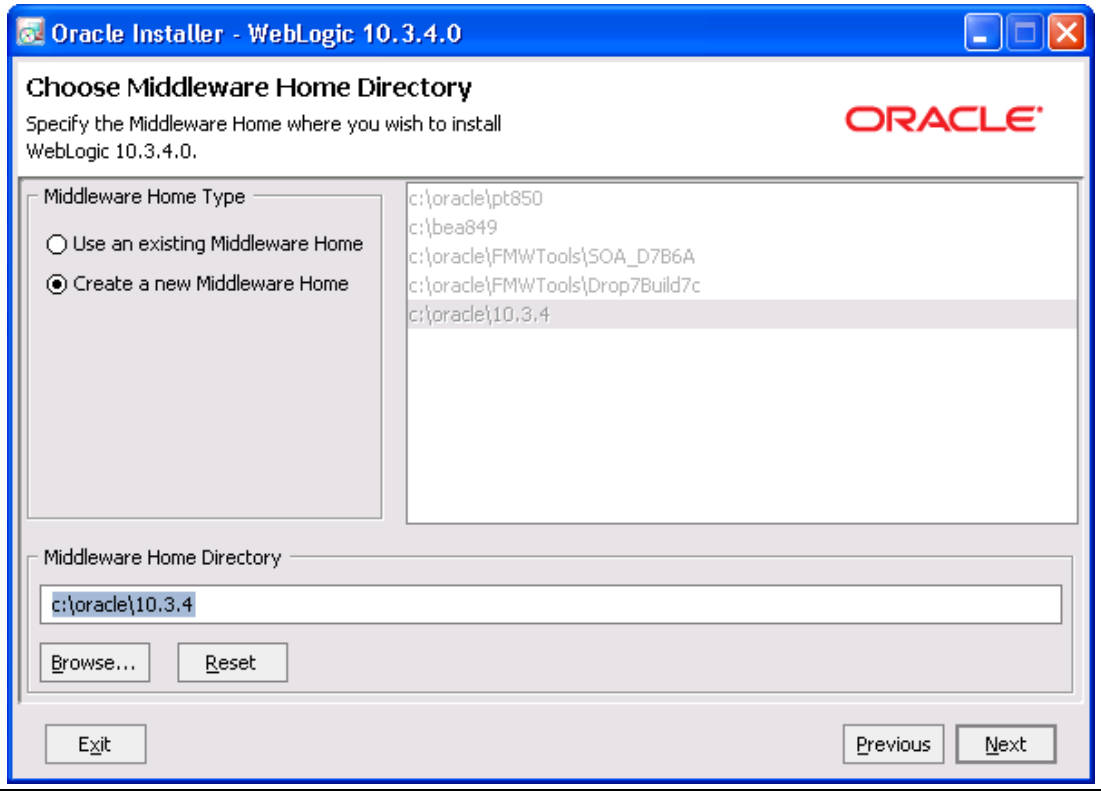

Oracle Installer - WebLogic 10.3.4.0 Choose Middleware Home Directory page

4. On the Choose Middleware Home Directory page, do the following:
   - Select the option *Create a new Middleware Home*.
   - In the Middleware Home Directory field, enter a value.

     For example: *c:\oracle\10.3.4*
5. Click Next.

   The Oracle Installer WebLogic - Register for Security Updates page appears, as shown in the following example:

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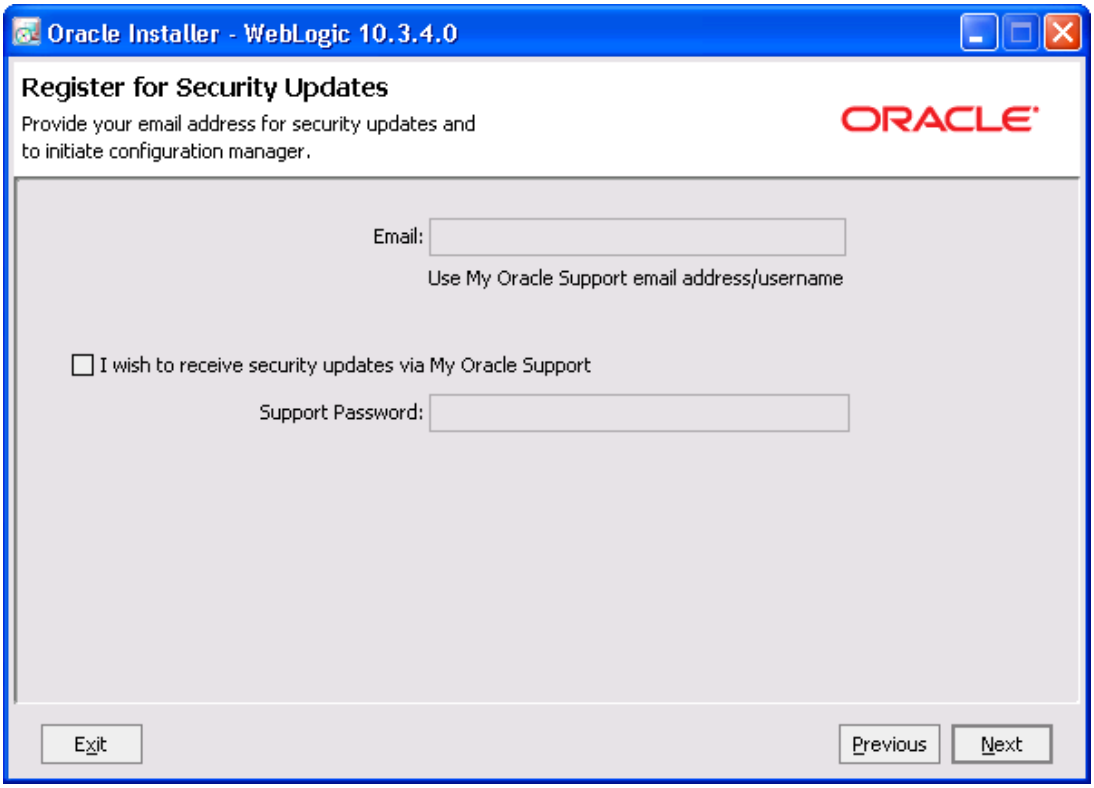

Oracle Installer - WebLogic 10.3.4.0 Register for Security Updates page

6. On the Register for Security Updates page, no action is required. Click Next.

   The Oracle Installer WebLogic - Choose Install Type page appears, as shown in the following example:

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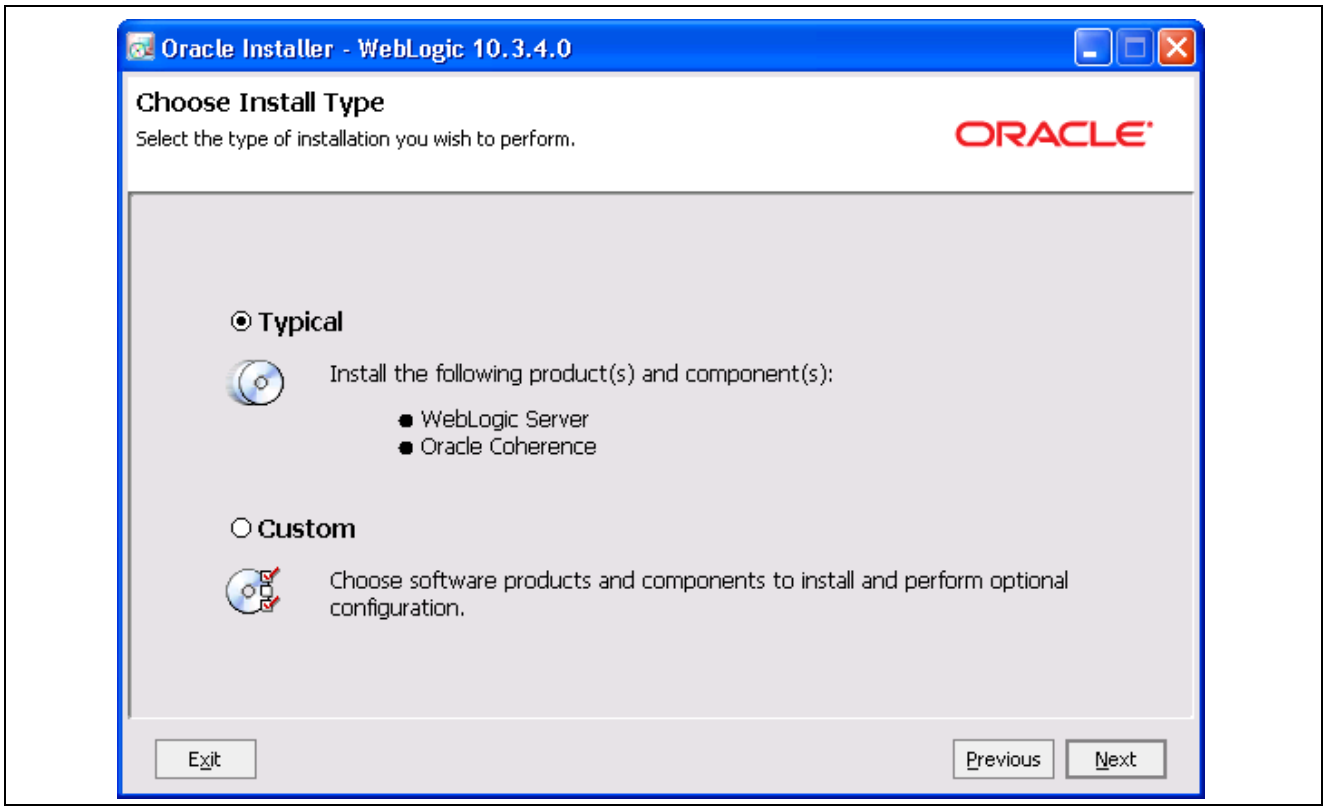

Oracle Installer - WebLogic 10.3.4.0 Choose Install Type page

7. On the Choose Install Type page, select the *Typical* option, and then click Next.

   The Oracle Installer WebLogic - Choose Product Installation Directories page appears, as shown in the following example:

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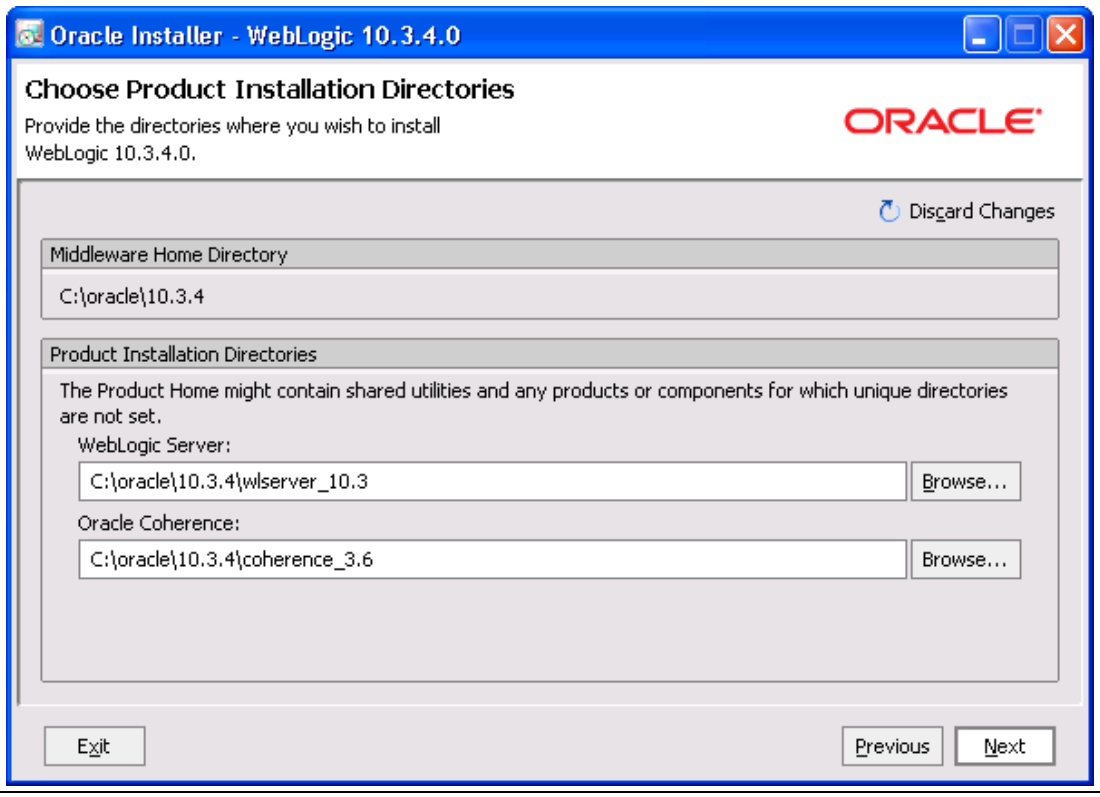


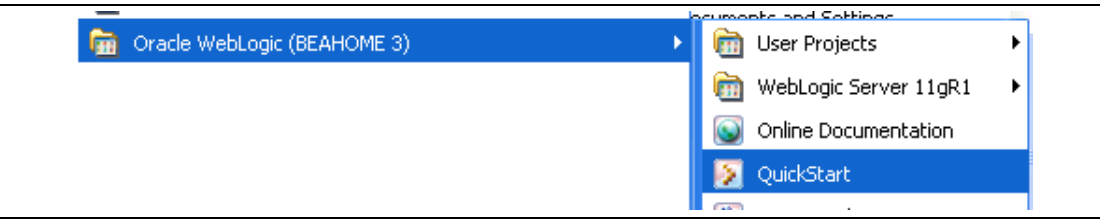
Oracle Installer - WebLogic 10.3.4.0 Choose Product Installation Directories page

8. On the Choose Product Installation Directories page, in the WebLogic Server field, browse to the directories where you want to install Oracle WebLogic. Click Next.

   For a *general* installation, you can accept the default for the Oracle Coherence field.

   Note. For more information and details about Oracle Coherence and the Oracle WebLogic Server installation, access the complete Oracle WebLogic Server 10.3.4 Installation Guide from the Oracle Fusion Middleware Documentation Library, located at: http://download.oracle.com/docs/cd/E12839_01/index.htm

9. Use the menu options from the Program Group to select Oracle WebLogic, QuickStart, as shown in the following example:



Oracle WebLogic - Menu navigation from the Program Group to access QuickStart

The WebLogic Platform 10.3.4.0 - QuickStart page appears, as shown in the following example:

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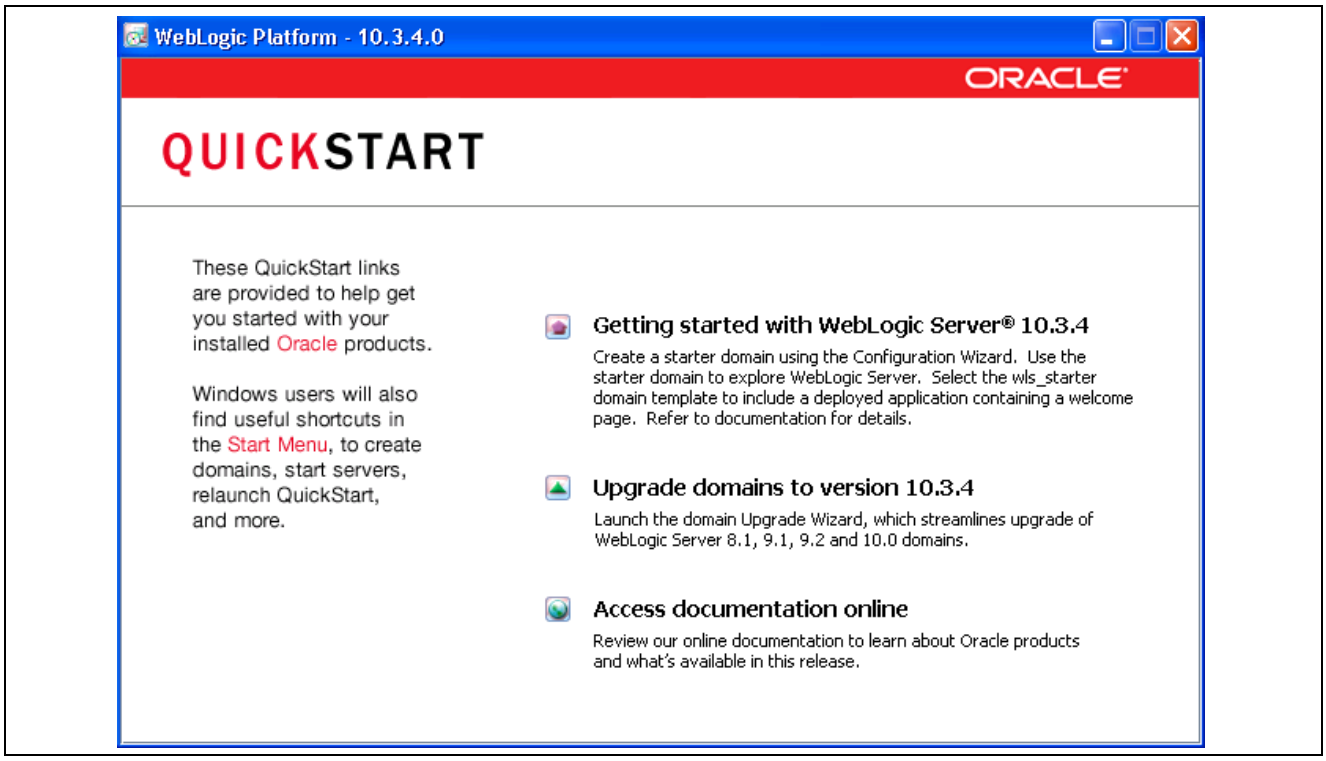

WebLogic Platform 10.3.4.0 - QuickStart page

10. On the WebLogic QuickStart page, click the *Getting Started with WebLogic Server 10.3.4* option. This runs the QuickStart Configuration Wizard to define a New Domain called *database_domain*.

    Note. If you plan to run multiple domains, you can use *database* as part of the name when you define your domain name.

    The Fusion Middleware Configuration Wizard - Welcome page appears, as shown in the following example:

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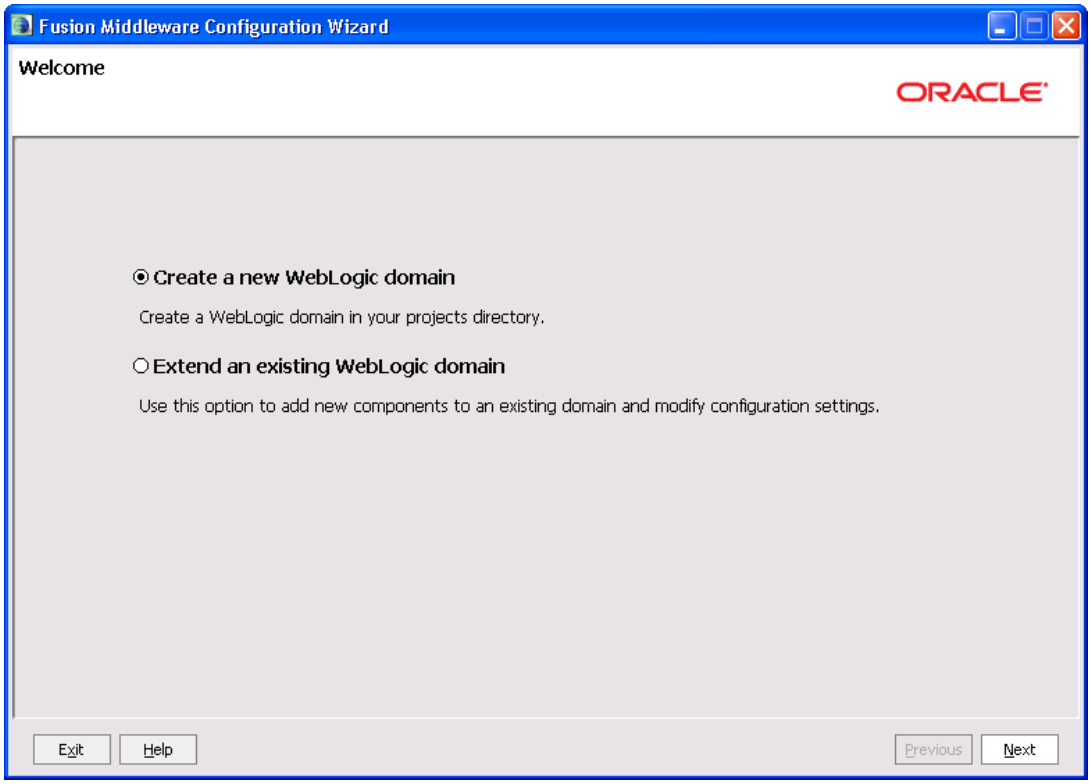

Fusion Middleware Configuration Wizard - Welcome page

11. On the Welcome page, select the option *Create a new WebLogic domain*. Click Next.

    The Fusion Middleware Configuration Wizard - Select Domain Source page appears, as shown in the following example:

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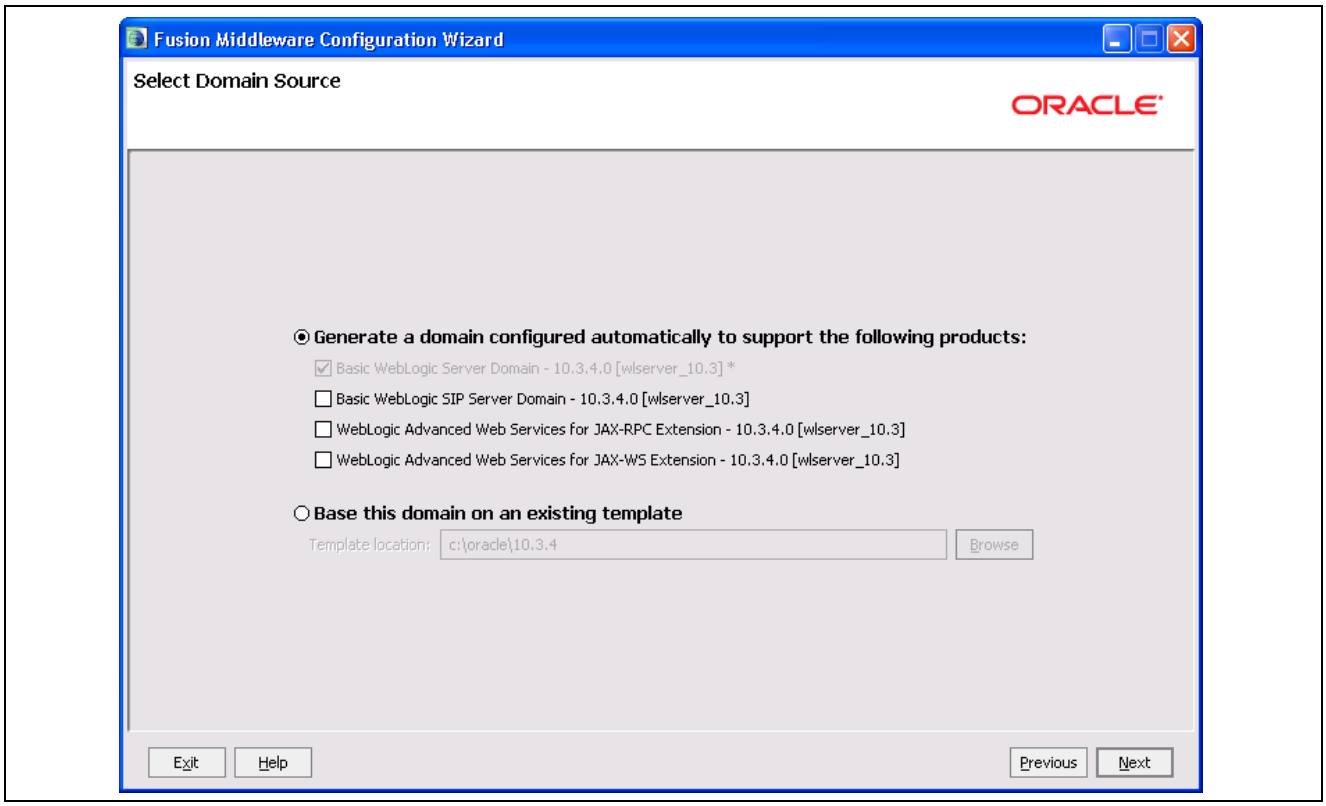

Fusion Middleware Configuration Wizard - Select Domain Source page

12. On the Select Domain Source page, do the following:
    - Select the option *Generate a domain configured automatically to support the following products*.
    - Select the option *Basic WebLogic Server Domain 10.3.4 (wlserver_10.3)*.
13. Click Next.

    The Fusion Middleware Configuration Wizard - Specify Domain Name and Location page appears, as shown in the following example:

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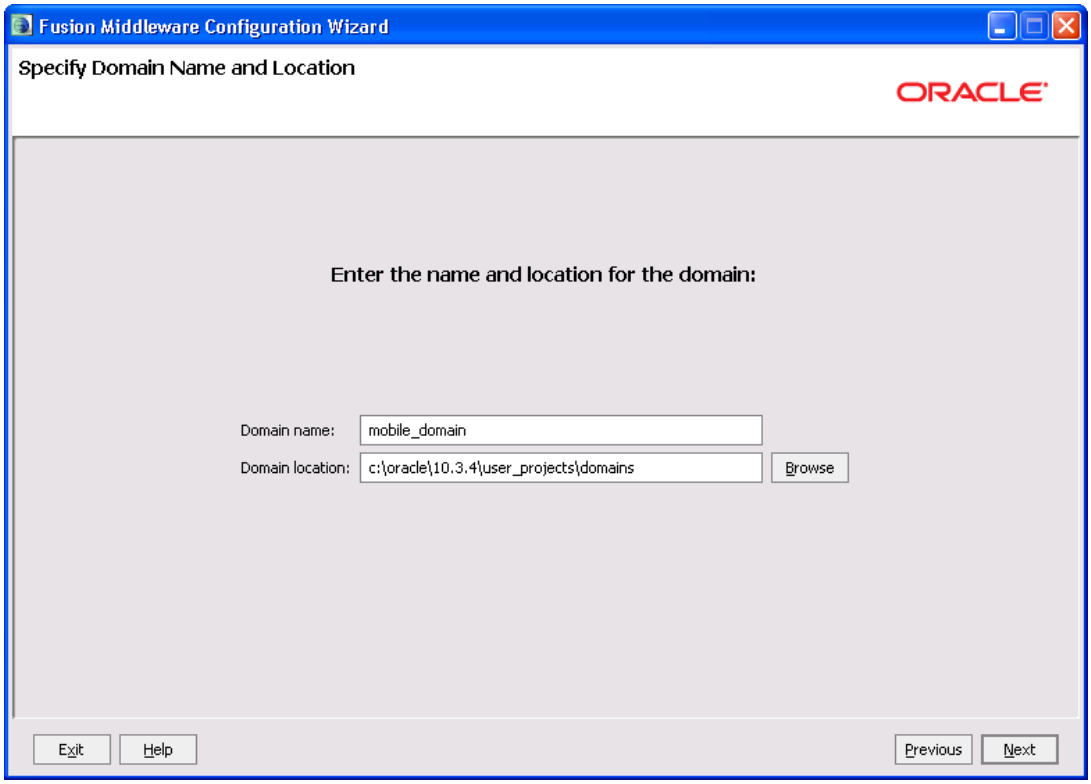

Fusion Middleware Configuration Wizard - Specify Domain Name and Location page

14. On the Specify Domain Name and Location page, change the default domain name and location to specify *your* domain name and location. Click Next.

Important! Be sure to make note of your domain name and location. This information is required in later steps.

The Fusion Middleware Configuration Wizard - Configure Administrator User Name and Password page appears, as shown in the following example:

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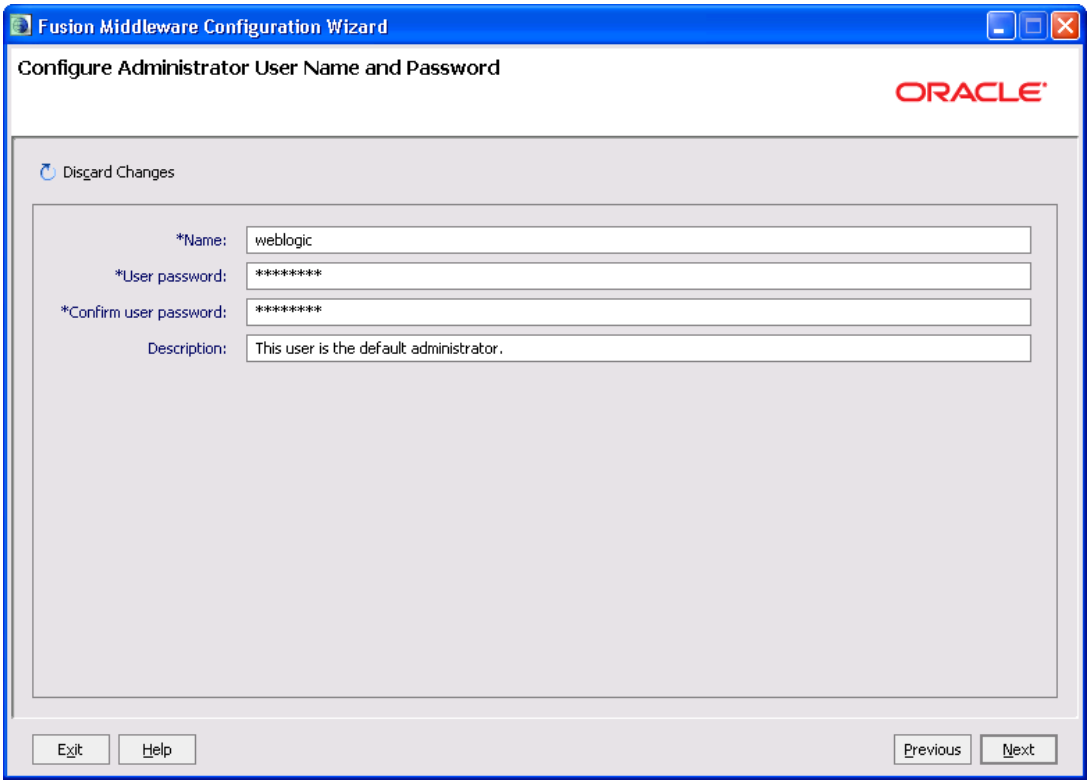

Fusion Middleware Configuration Wizard - Configure Administrator User Name and Password page

15. On the Configure Administrator User Name and Password page, enter your user name and password. Click Next.

    The Fusion Middleware Configuration Wizard - Configure Server Start Mode and JDK page appears, as shown in the following example:

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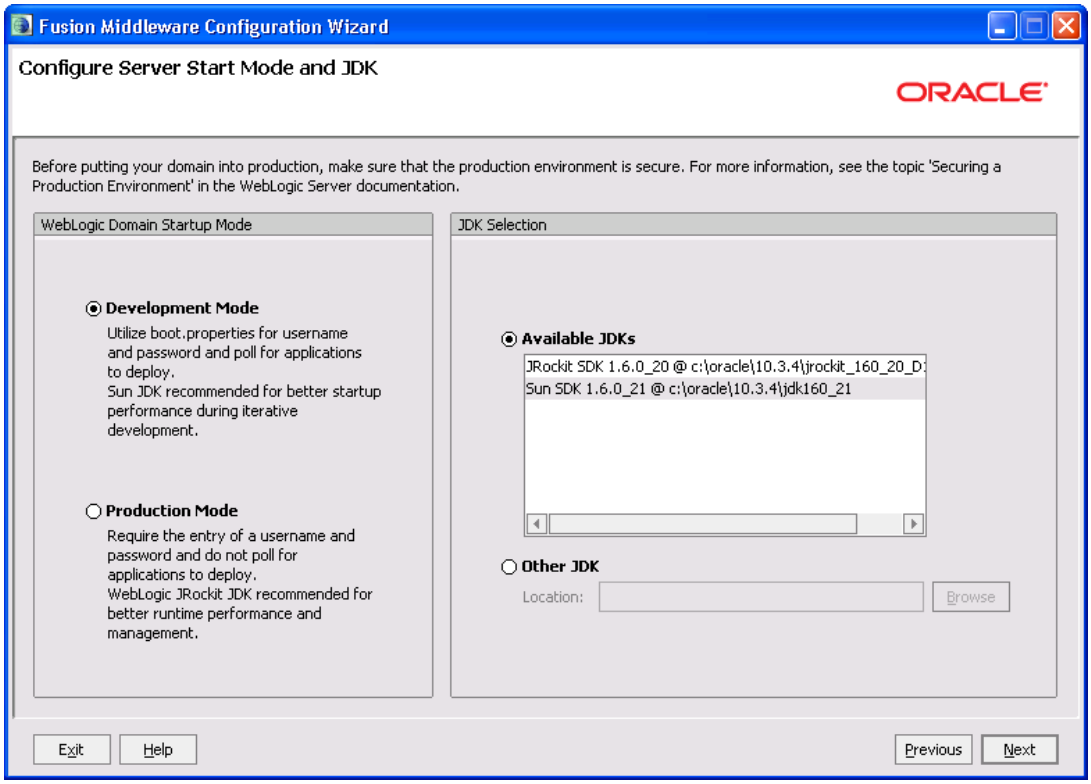

Fusion Middleware Configuration Wizard - Configure Server Start Mode and JDK page

16. On the Configure Server Start Mode and JDK page, accept the default options *Development Mode* and *Available JDKs* and click Next.

    The Fusion Middleware Configuration Wizard - Select Optional Configuration page appears, as shown in the following example:

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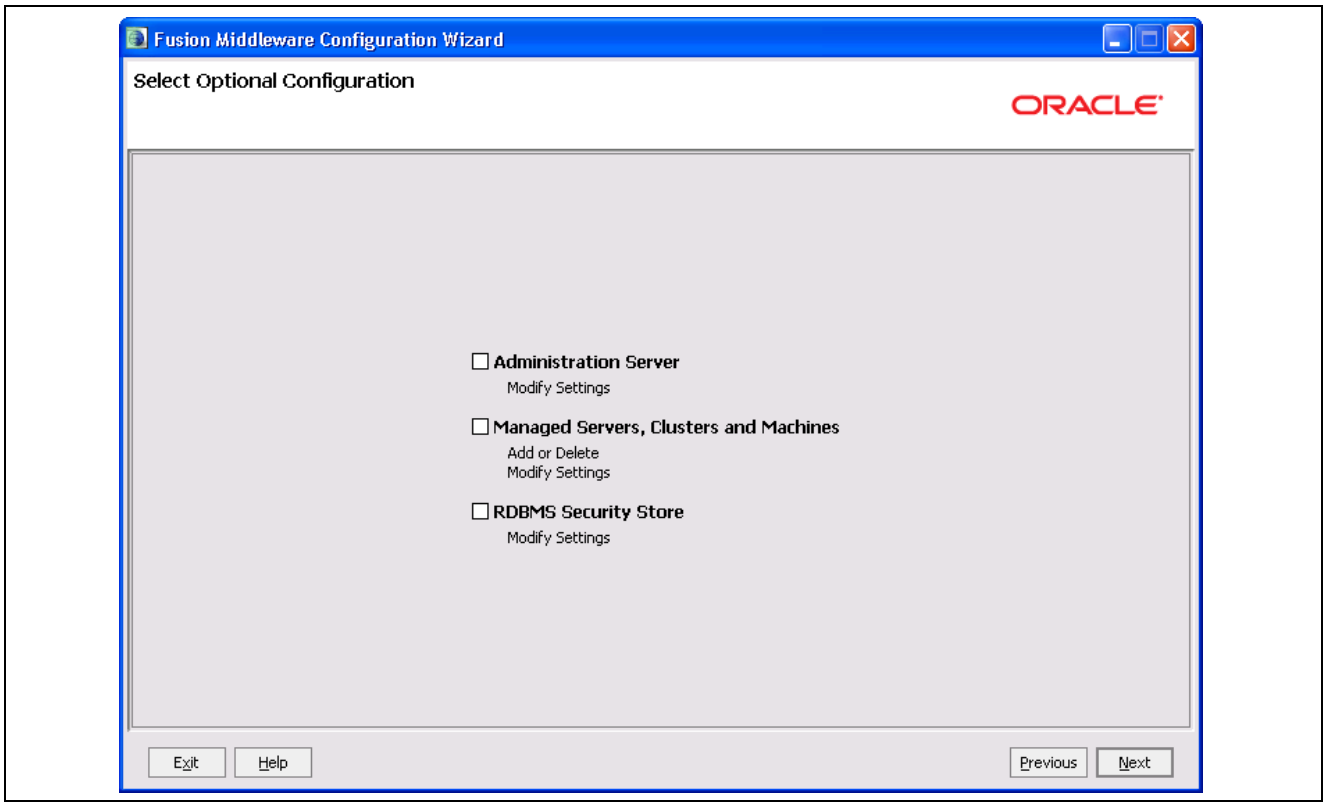

Fusion Middleware Configuration Wizard - Select Optional Configuration page

17. On the Select Optional Configuration page, no action is required. Click Next.

    Click Next until you reach the Fusion Middleware Configuration Wizard - Configuration Summary page, as shown in the following example:

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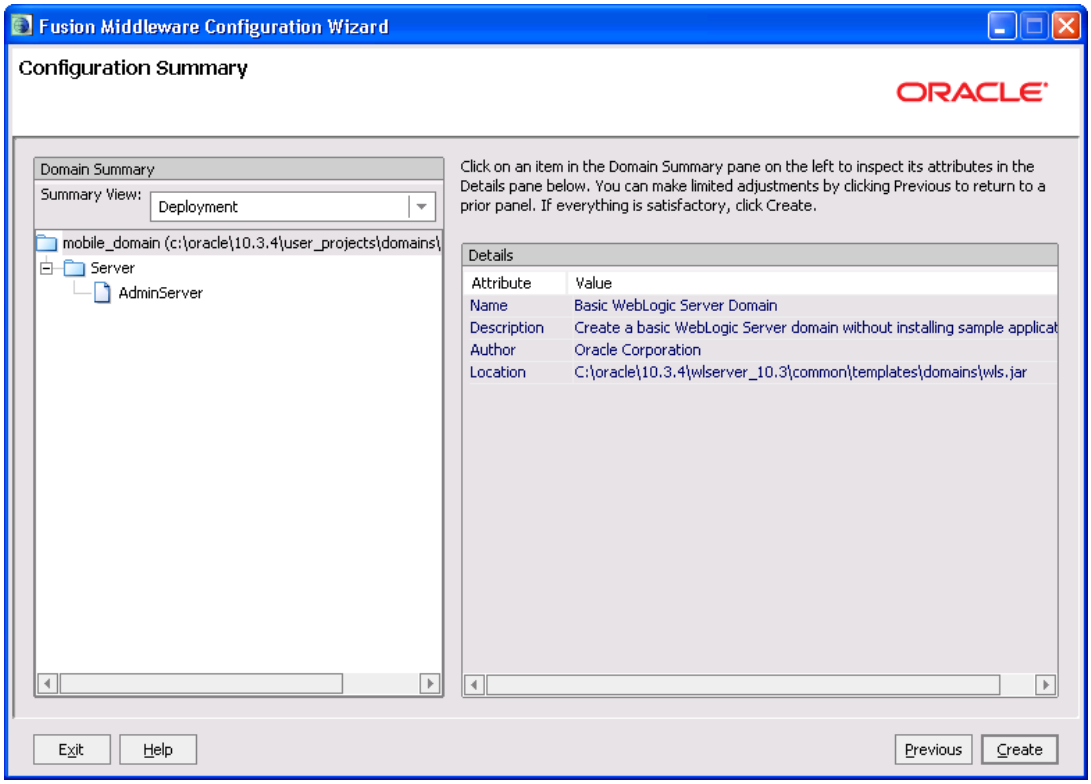

Fusion Middleware Configuration Wizard - Configuration Summary page

18. On the Configuration Summary page, click an item in the domain summary pane on the left to review the configuration details that you defined.

    If you need to make corrections, click the Previous button and modify your details.

19. After you confirm and adjust the configuration details, click the Create button.

    The Fusion Middleware Configuration Wizard - Creating Domain page appears showing the domain creation progress, as shown in the following example:

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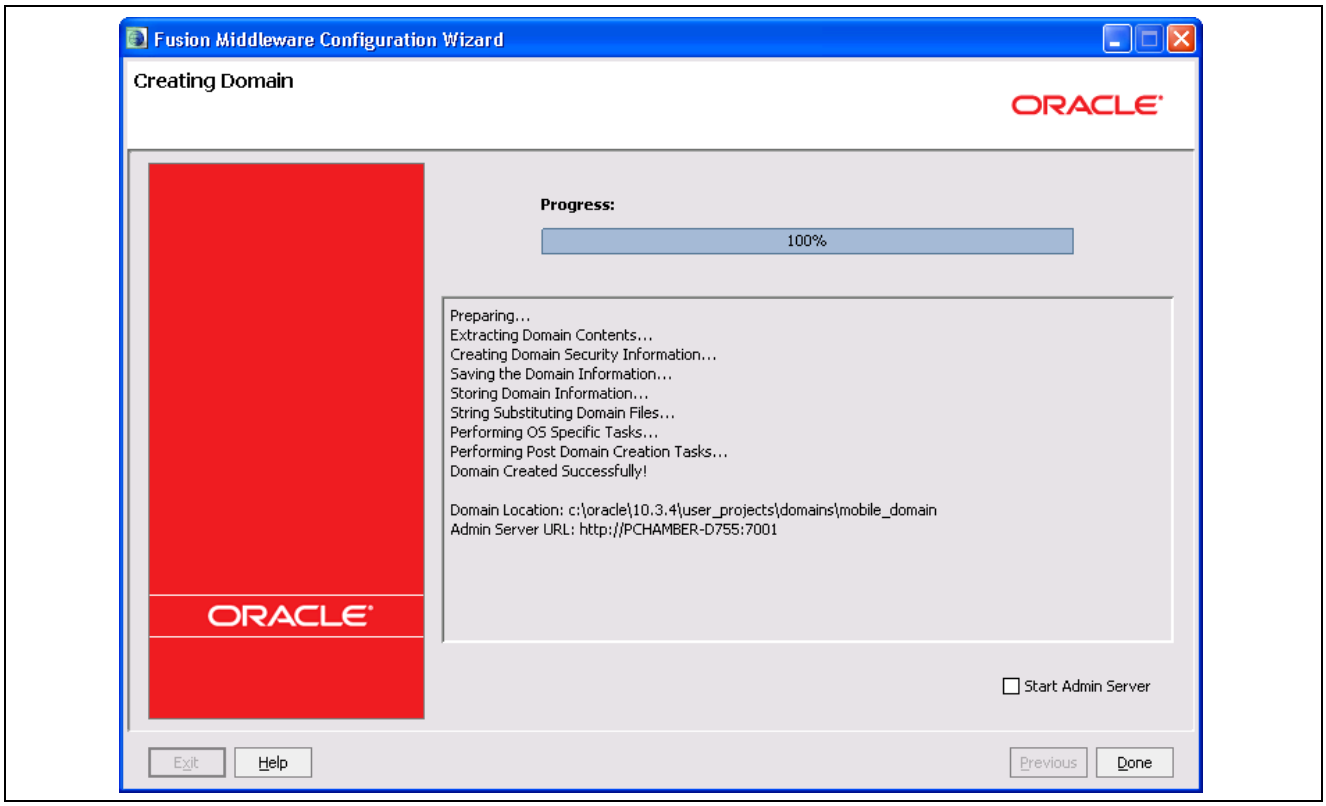

Fusion Middleware Configuration Wizard - Creating Domain progress page

20. On the Create Domain progress page, click Done when the domain creation progress reaches 100% and the Done button becomes enabled.

Task 1-3: Installing the Oracle Application Developer Framework for PeopleSoft Mobile Inventory Management

This section discusses:

- Understanding the Oracle Application Developer Framework Installation for PeopleSoft Mobile Inventory Management
- Installing the Oracle Application Developer Framework for PeopleSoft Mobile Inventory Management

Understanding the Oracle Application Developer Framework Installation for PeopleSoft Mobile Inventory Management

This task discusses the installation of Oracle Application Developer Framework for use with PeopleSoft Mobile Inventory Management. You must configure and activate the Oracle WebLogic Server to pass data between PeopleSoft and the mobile devices. Refer to the earlier task *"Installing the Oracle WebLogic Server for Mobile."*

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A Java-enabled web server is required to extend the PeopleSoft architecture to the internet and intranet. When you install the PeopleSoft Pure Internet Architecture on the web server, you install a collection of PeopleSoft Java servlets designed to handle a wide range of PeopleSoft transactions that originate from the internet or intranet. PeopleSoft PeopleTools provides and supports the Oracle WebLogic Server for use within your PeopleSoft implementation.

Oracle WebLogic is a server software application that runs on a middle-tier between back-end databases (in this case, the PeopleSoft database) and related applications and browser-based thin clients (in this case, mobile devices). The Oracle WebLogic Server supports the Oracle Application Developer and the Application Developer Mobile browser that extends Oracle Application Developer to browsers running on mobile devices. The following steps detail a *general* installation of the Oracle Application Developer Runtime for PeopleSoft Mobile Inventory Management.

Note. Access the complete installation guides for Oracle WebLogic 10.3.4 and Oracle Application Developer 11.1.1.4 from the Oracle Fusion Middleware Documentation Library, located at: http://download.oracle.com/docs/cd/E12839_01/index.htm

---

Note. The Oracle Application Developer Runtime is only installed one time per Oracle WebLogic Server installation.

Task 1-3-1: Installing the Oracle Application Developer Framework for PeopleSoft Mobile Inventory Management

To install the Oracle Application Developer 11.1.1.4 Runtime for PeopleSoft Mobile Inventory Management:

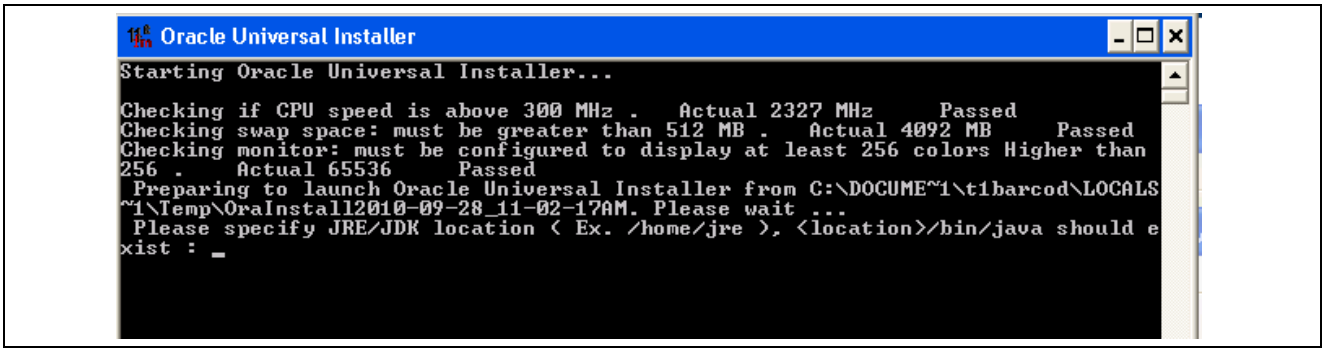
Note. You can access the complete installation guide for the Oracle Application Developer 11.1.1.4 from the Oracle Fusion Middleware Documentation Library, located at: http://download.oracle.com/docs/cd /E12839_01/index.htm

---

1. Double-click the Oracle Application Developer *setup.exe* file from your Oracle E-Delivery download.

   This starts the Installation Wizard.

   The Oracle Universal Installer command window appears, as shown in the following example:



Oracle Universal Installer command window

2. In the command window, enter your JDK directory.

   For example: *c:\oracle\10.3.4\jdk160_21*

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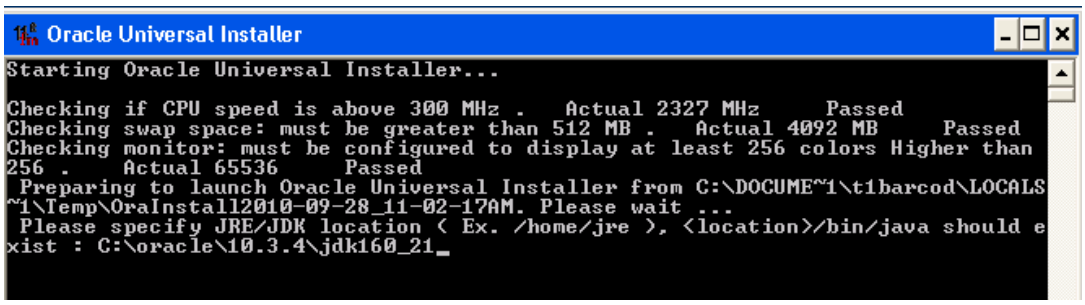
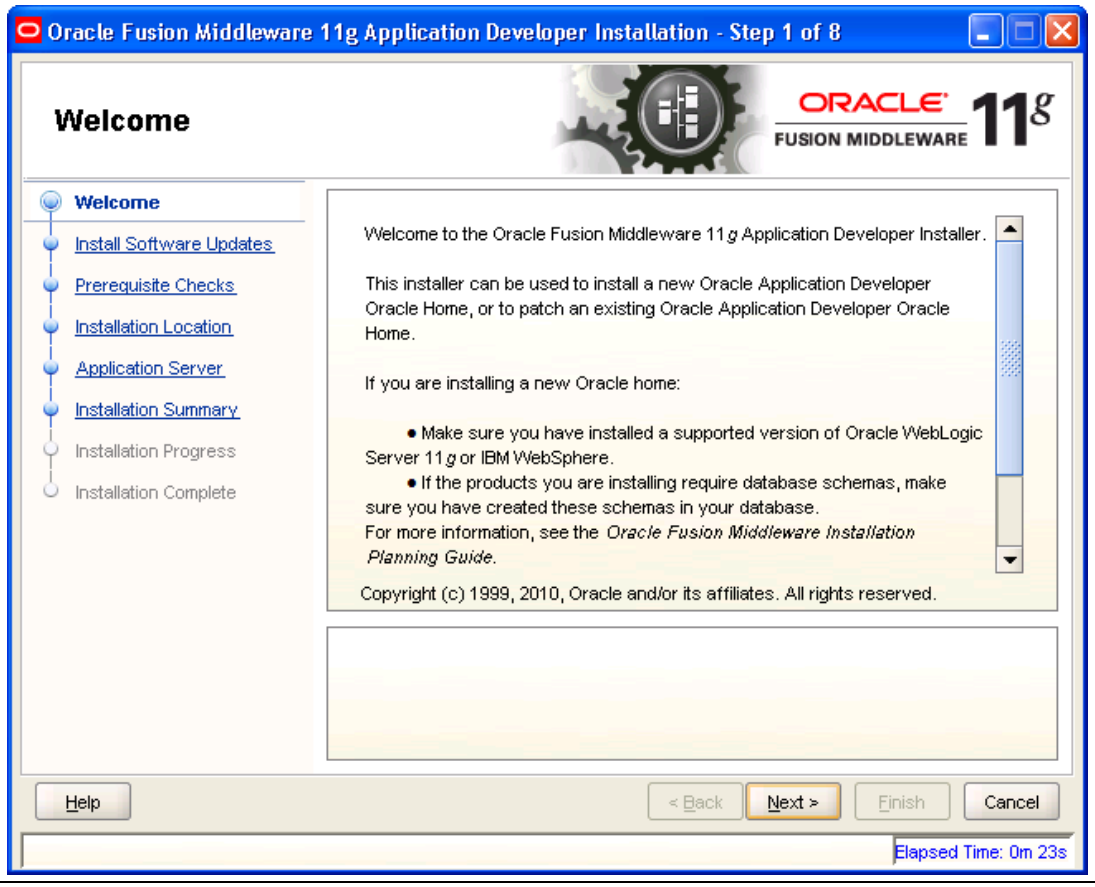
Note. If you are installing on a 64-bit server, you must download and install the appropriate 64-bit Java from www.java.com before you proceed with this installation.

See the section titled *"Prerequisites"* at the beginning of this document.



Oracle Universal Installer command window with JDK entry

The Oracle Fusion Middleware 11g Application Developer Installation - Welcome page appears (Step 1 of 8), as shown in the following example:



Oracle Fusion Middleware 11g Application Developer Installation - Welcome page (Step 1 of 8)

3. On the Welcome page, click Next.

   The Oracle Fusion Middleware Application Developer Installation - Install Software Updates page (Step 2 of 8) appears, as shown in the following example:

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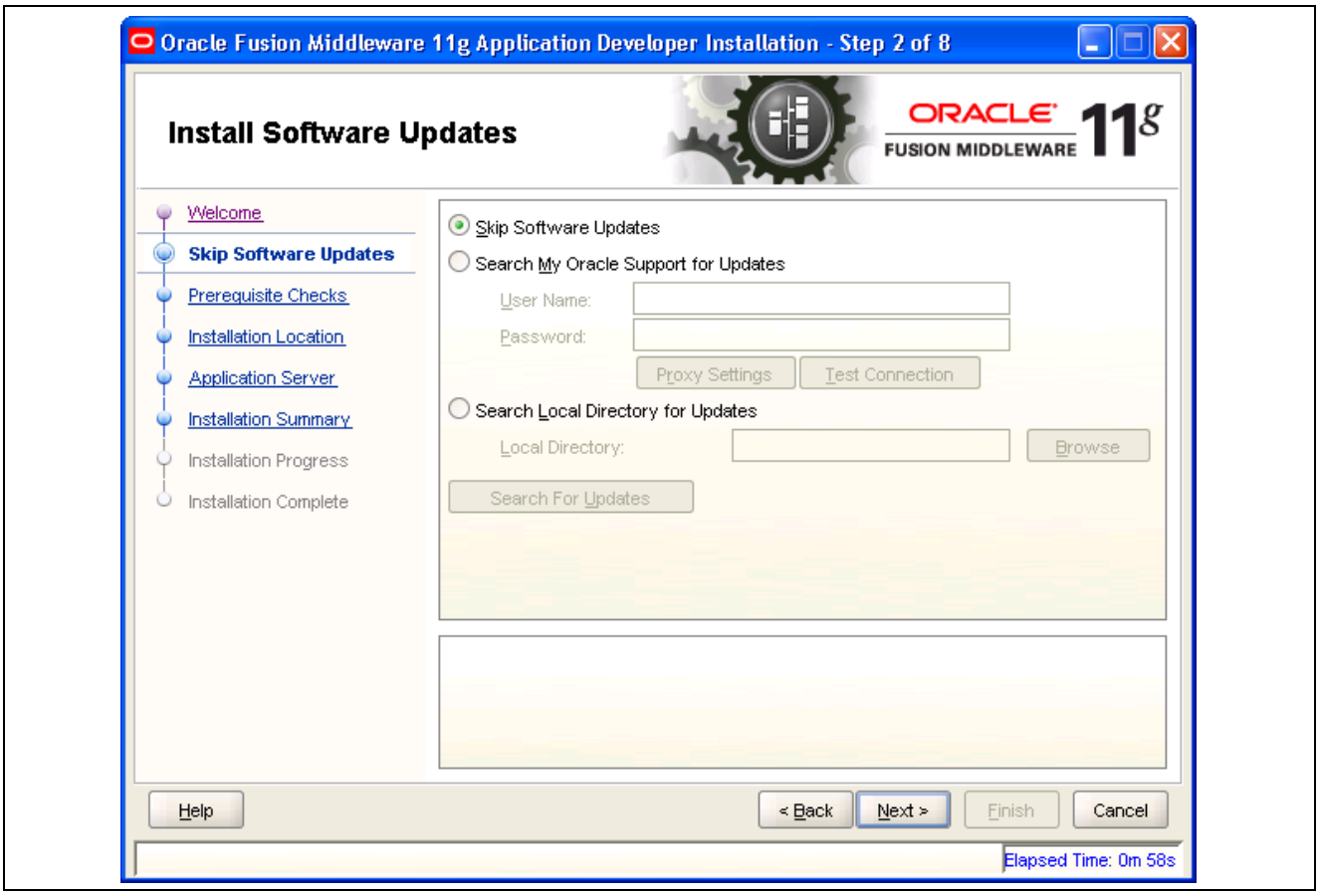

Oracle Fusion Middleware 11g Application Developer Installation - Install Software Updates page (Step 2 of 8)

4. On the Install Software Updates page, select the option *Skip Software Updates*. Click Next.

   The Oracle Fusion Middleware Application Developer Installation - Prerequisite Checks page (Step 3 of 8) appears, as shown in the following example:

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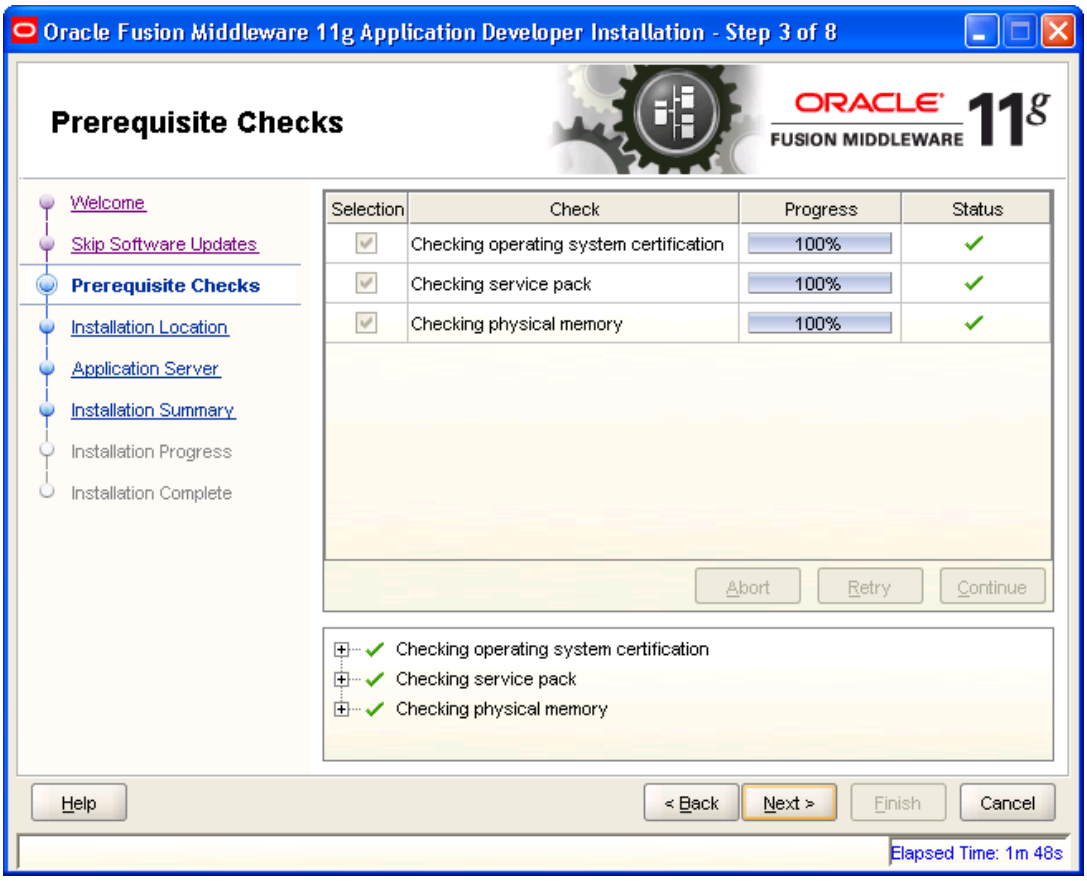

Oracle Fusion Middleware 11g Application Developer Installation - Prerequisite Checks page (Step 3 of 8)

5. On the Prerequisite Checks page, click Next.

   The Oracle Fusion Middleware Application Developer Installation - Specify Installation Location page (Step 4 of 8) appears, as shown in the following example:

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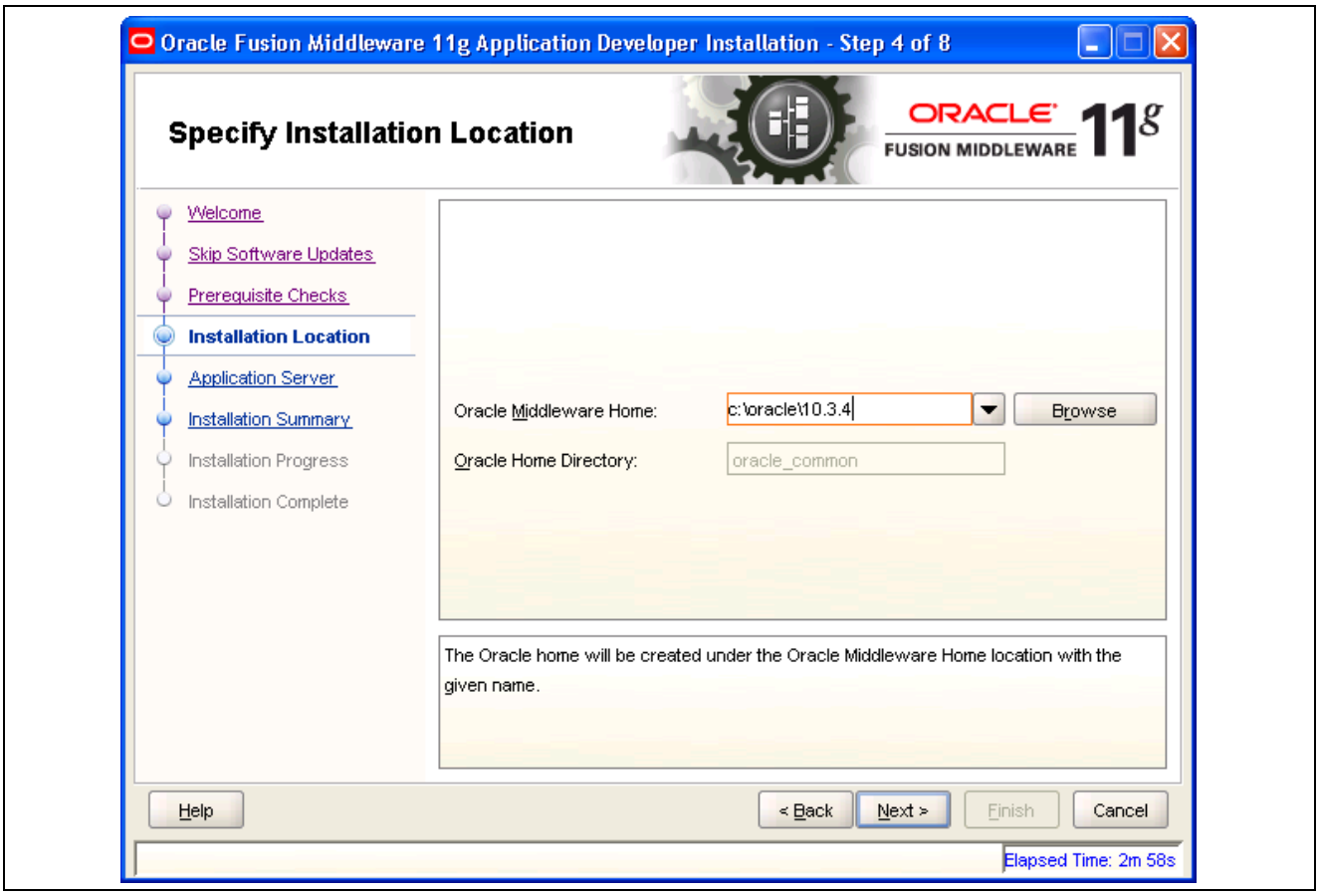

Oracle Fusion Middleware 11g Application Developer Installation - Specify Installation Location page (Step 4 of 8)

6. On the Specify Installation Location page, in the Oracle Middleware Home field, enter your Middleware Home location where the Oracle WebLogic Server is installed.

   For example: *c:\oracle\WLS10.3.4*

7. Click Next.

   The Oracle Fusion Middleware Application Developer Installation - Application Server page (Step 5 of 8) appears, as shown in the following example:

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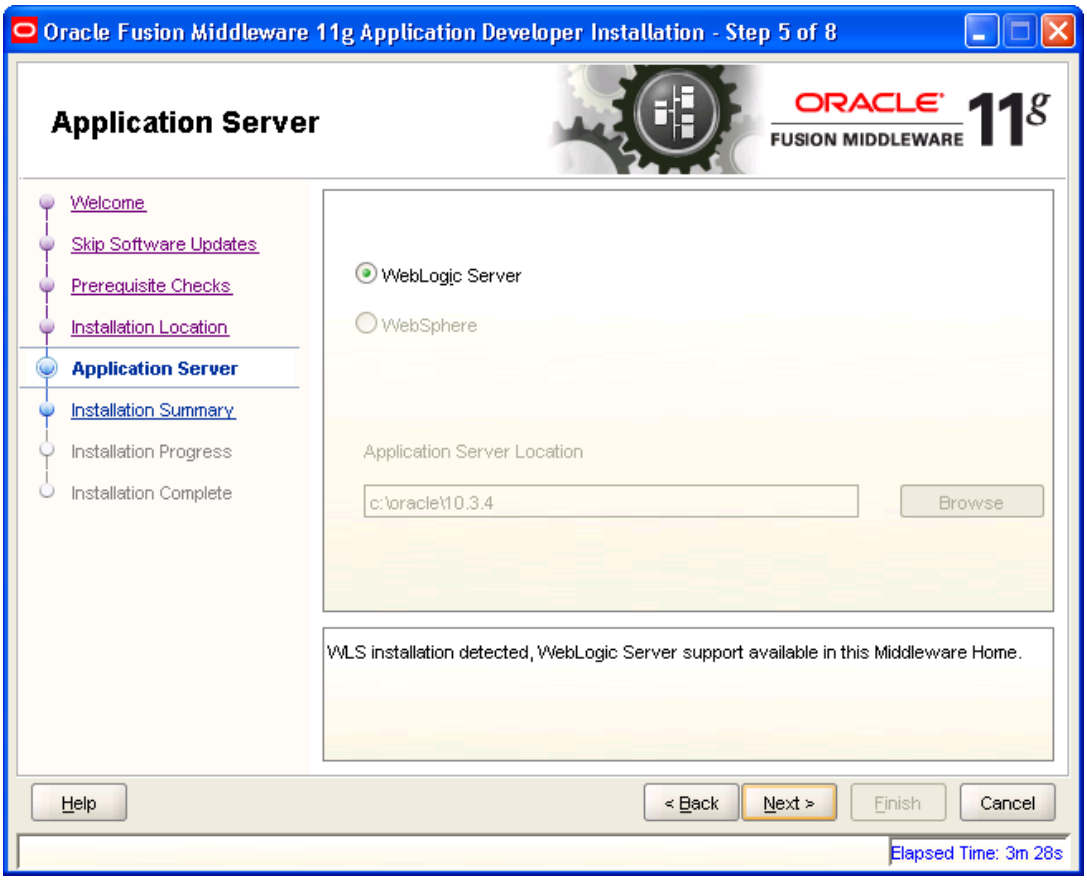

Oracle Fusion Middleware 11g Application Developer Installation - Application Server page (Step 5 of 8)

8. On the Application Server page, accept the defaults and click Next.

   The Oracle Fusion Middleware Application Developer Installation - Installation Summary page (Step 6 of 8) appears, as shown in the following example:

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Oracle Fusion Middleware 11g Application Developer Installation - Installation Summary page (Step 6 of 8)

9. On the Installation Summary page, review your installation details and then click the Install button.

   If you need to make a correction, click the Back button and modify your details.

   The Oracle Fusion Middleware Application Developer Installation - Installation Progress page (Step 7 of 8) appears, as shown in the following example:

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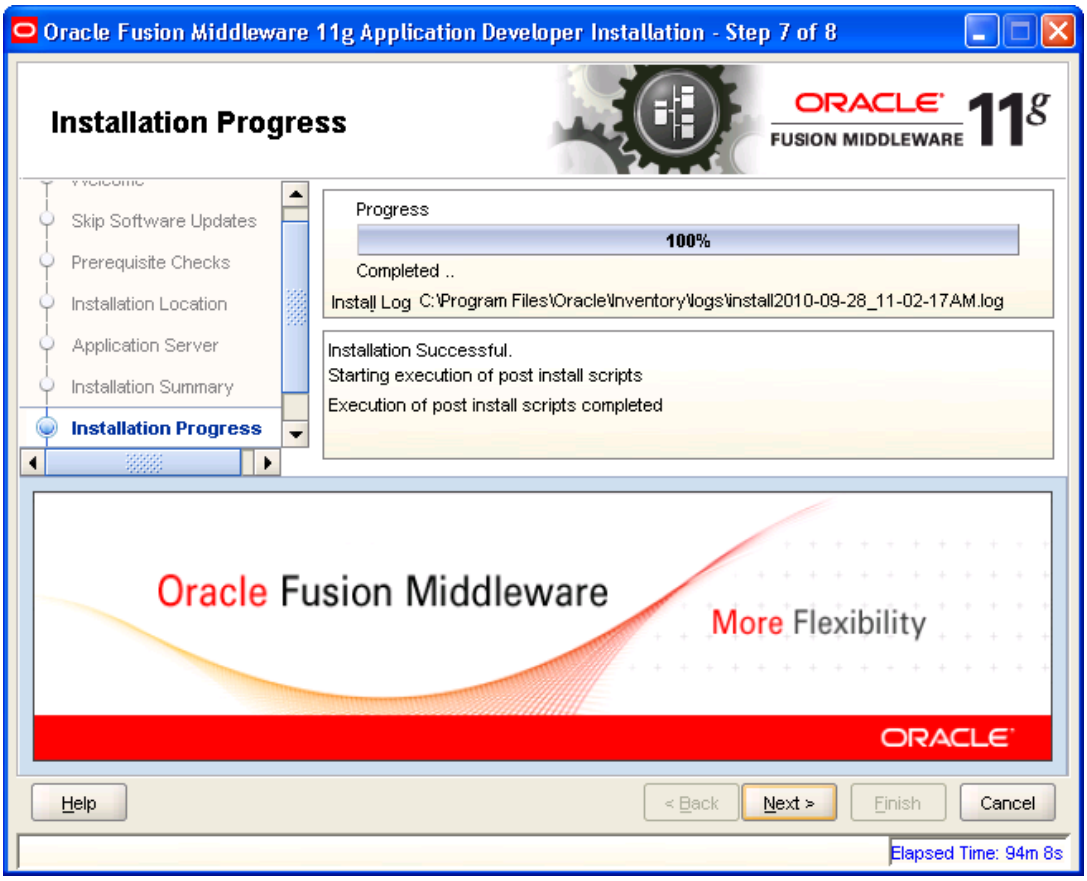

Oracle Fusion Middleware 11g Application Developer Installation - Installation Progress page (Step 7 of 8)

10. Click Next when the installation progress reaches 100% and the Next button becomes enabled.
11. Click Next until the Oracle Fusion Middleware Application Developer Installation - Installation Complete page (Step 8 of 8) appears, as shown in the following example:

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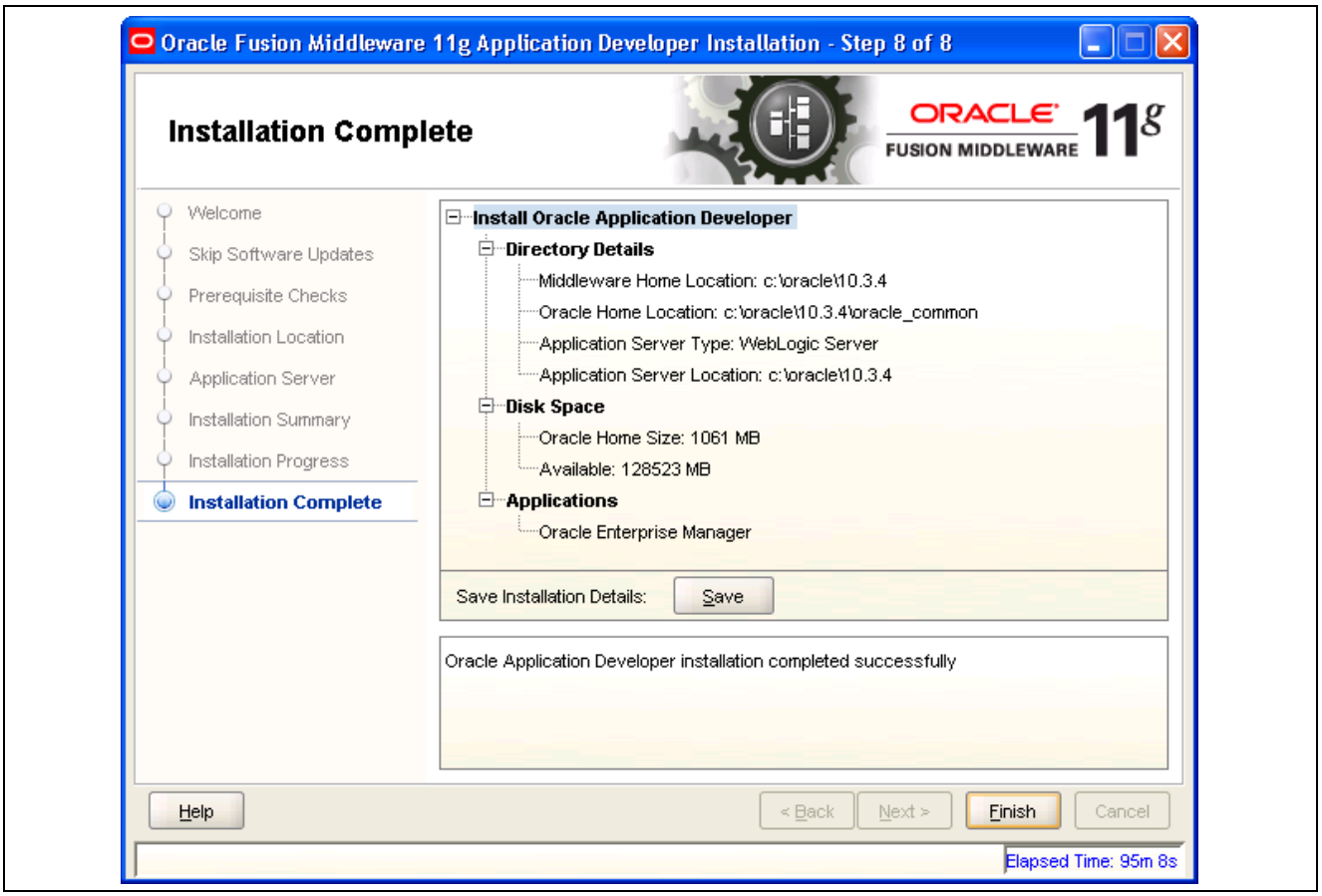
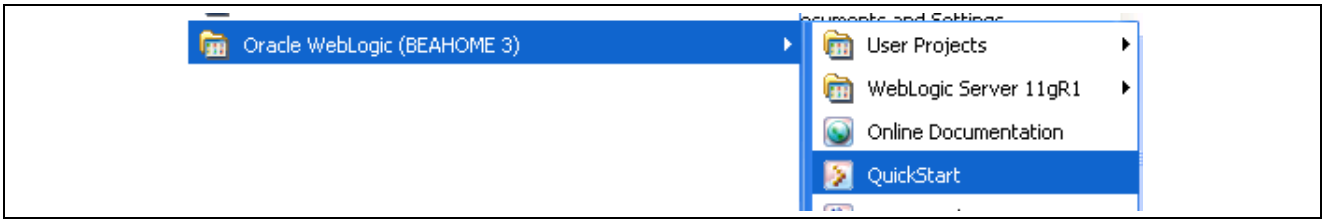


Oracle Fusion Middleware 11g Application Developer Installation - Installation Complete page (Step 8 of 8)

12. On the Installation Complete page, click Finish.
13. After installation, select Oracle WebLogic, QuickStart from the Program Group menu, as shown in the following example:



QuickStart menu navigation from the Program Group

The WebLogic Platform 10.3.4.0 - QuickStart page appears, as shown in the following example:

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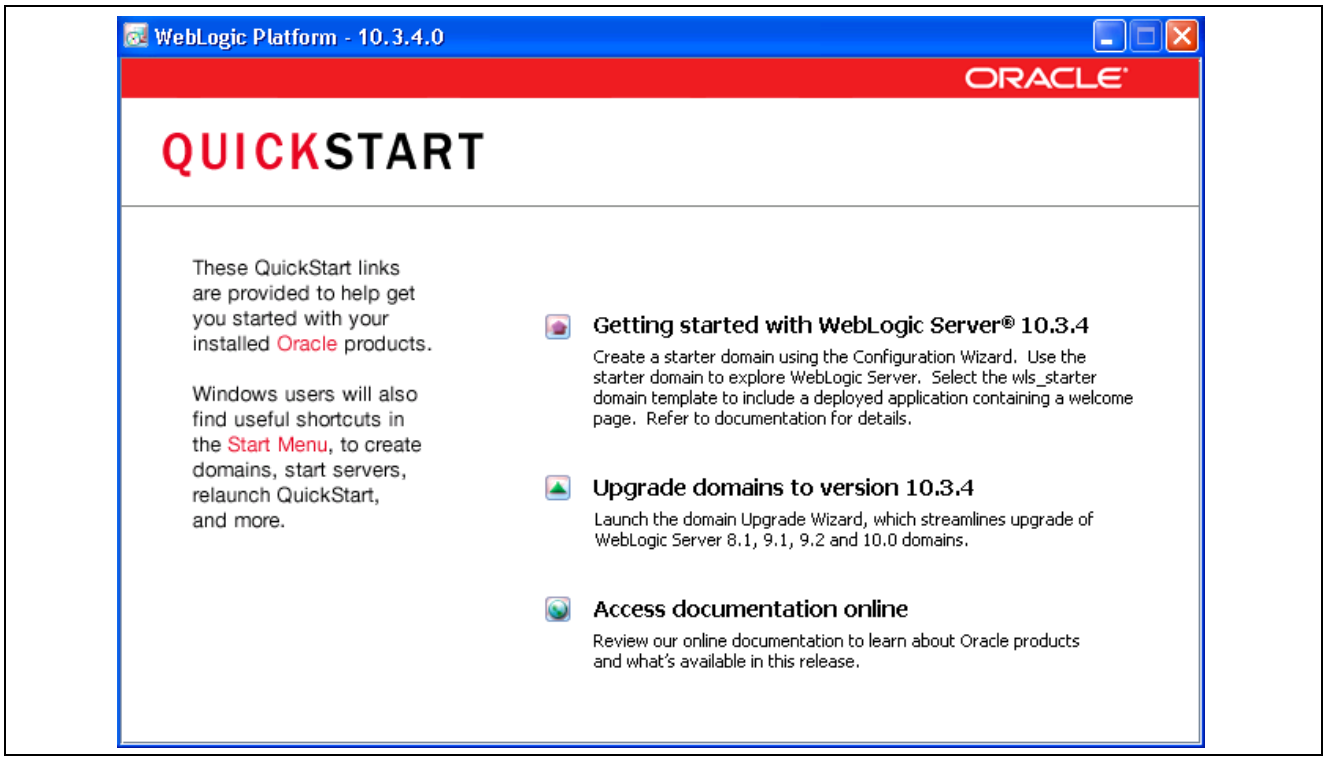

WebLogic Platform 10.3.4.0 - QuickStart page

14. On the QuickStart page, click the *Getting Started with WebLogic Server 10.3.4* option to extend the existing Oracle WebLogic Domain.

    The Fusion Middleware Configuration Wizard - Welcome page appears, as shown in the following example:

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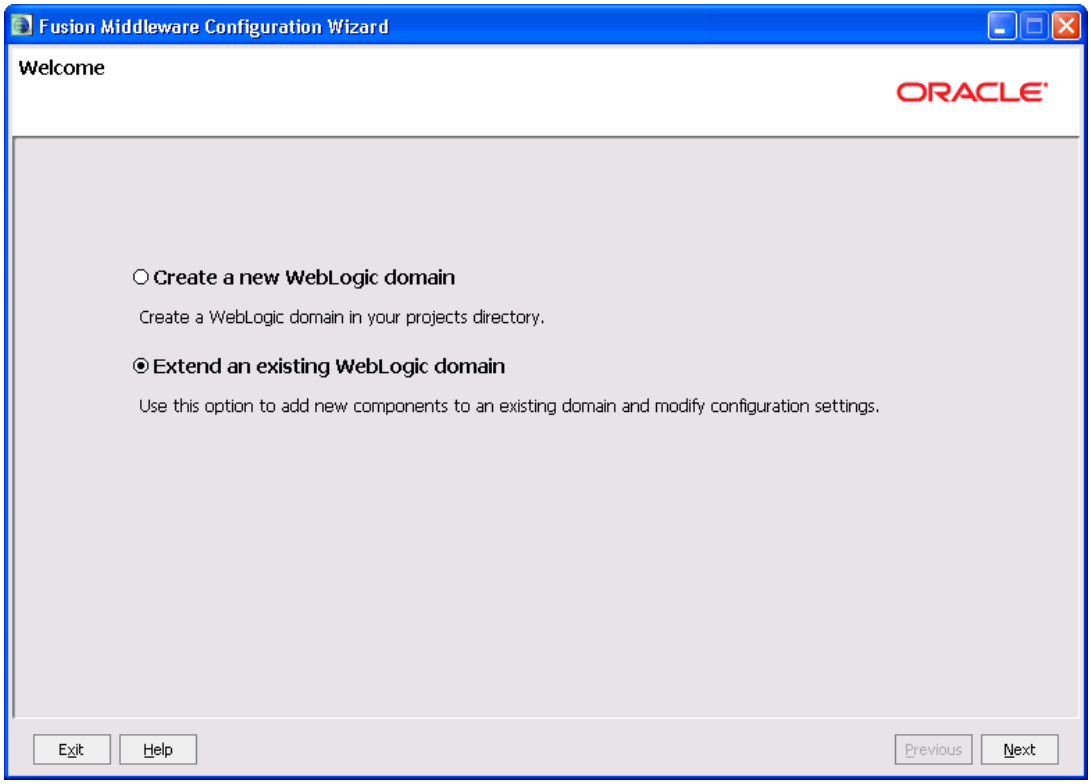

Fusion Middleware Configuration Wizard - Welcome page

15. On the Welcome page, select the option *Extend an existing WebLogic domain* and Click Next.

    The Fusion Middleware Configuration Wizard - Select a WebLogic Domain Directory page appears, as shown in the following example:

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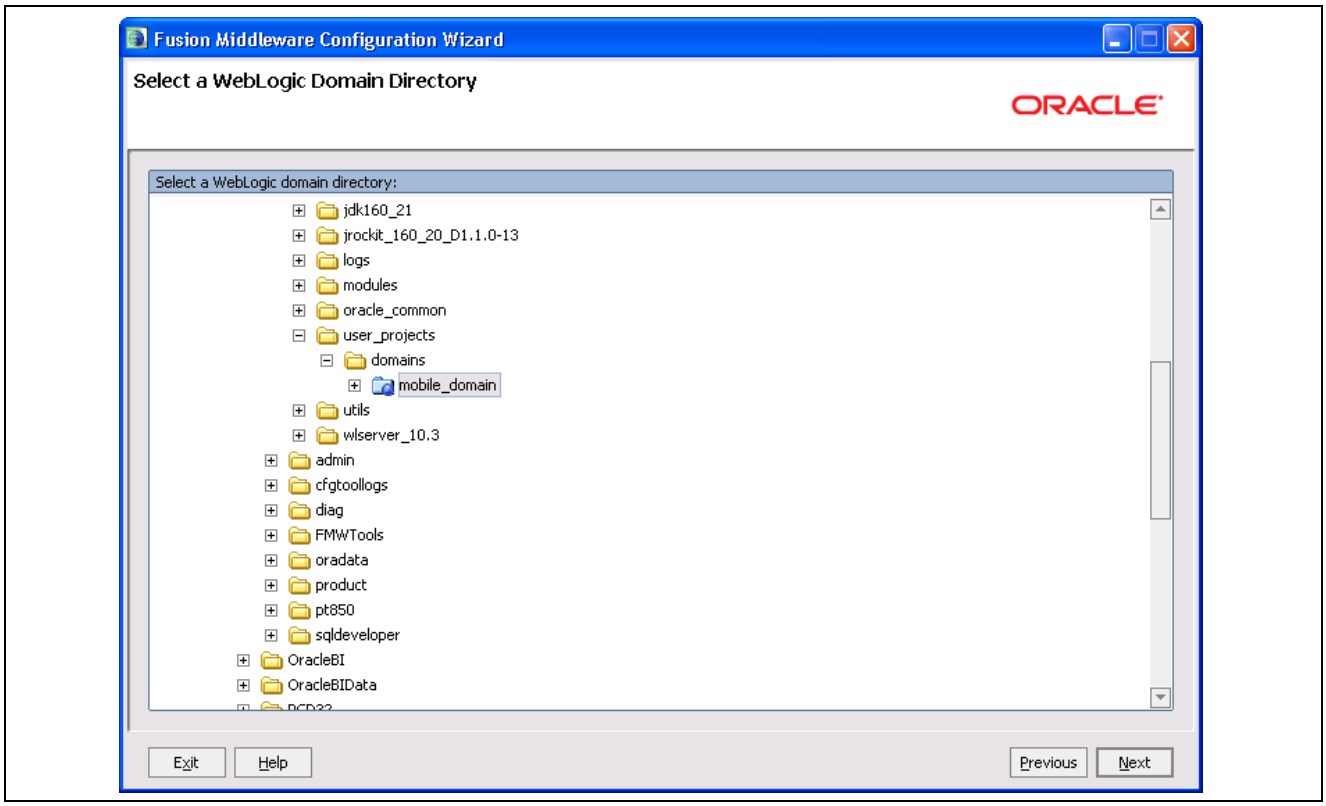

Fusion Middleware Configuration Wizard - Select a WebLogic Domain Directory page

16. On the Select a WebLogic Domain Directory page, select the Target Domain.

    For example: *Mobile_Domain*

    Click Next.

    The Fusion Middleware Configuration Wizard - Select Extension Source page appears, as shown in the following example:

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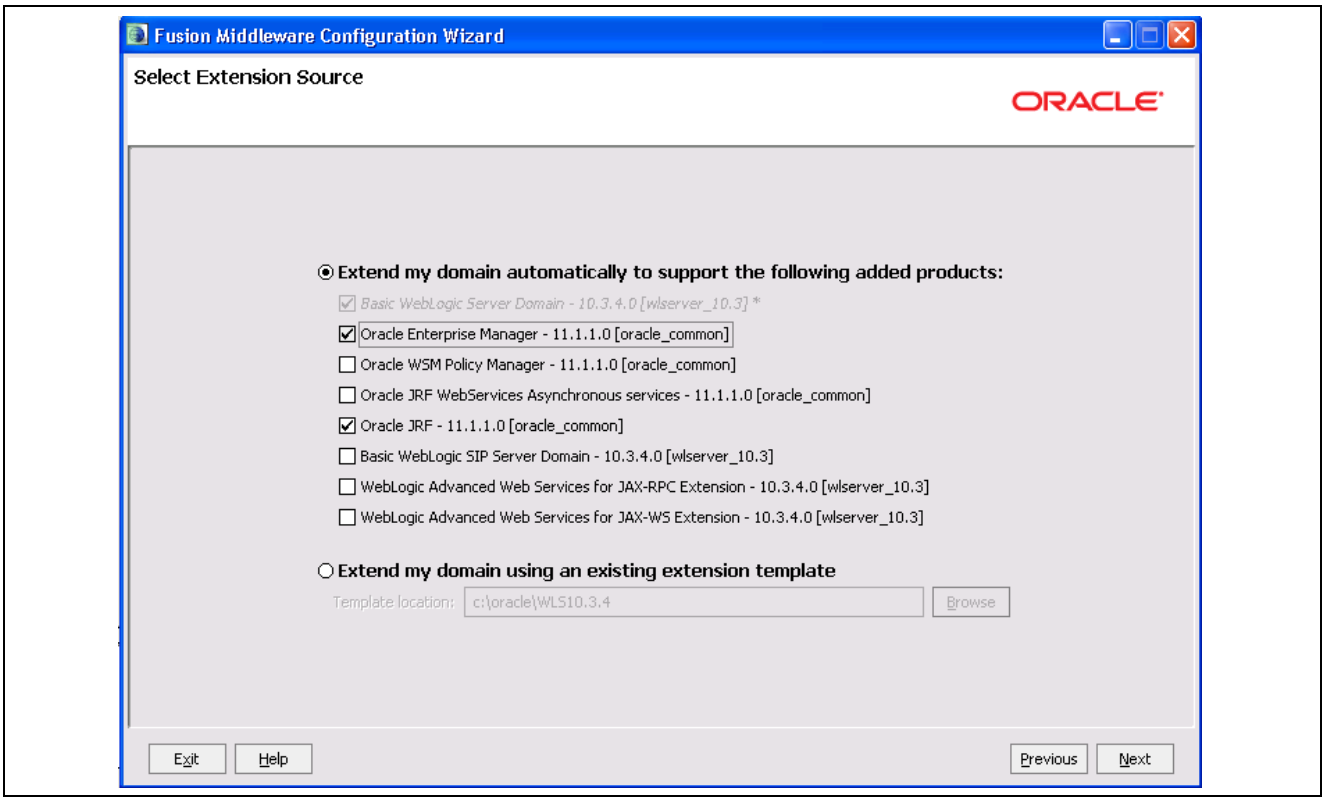

Fusion Middleware Configuration Wizard - Select Extension Source page

17. On the Select Extension Source page, do the following:
    - Select the option *Extend my domain automatically to support the following added products*.
    - Select the *Oracle Enterprise Manager – 11.1.1.0 [oracle_common]* check box.
    - Select the *Oracle JRF – 11.1.1.0 [oracle_common]* check box.
18. Click Next.

    The Fusion Middleware Configuration Wizard - Specify Domain Name and Location page appears, as shown in the following example:

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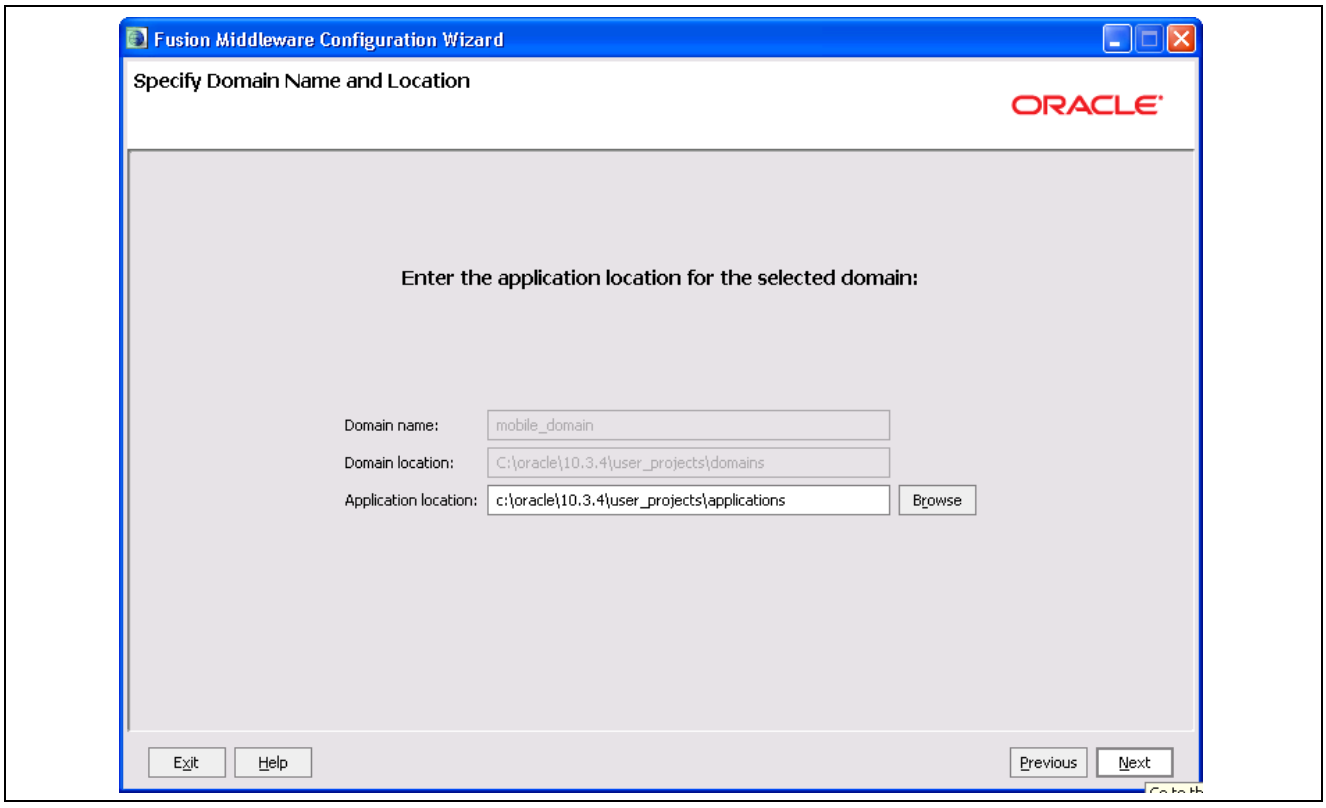

Fusion Middleware Configuration Wizard - Specify Domain Name and Location page

19. On the Specify Domain Name and Location page, click Next.

    In an earlier step you specified the domain name and the location that now populate these fields.

    The Fusion Middleware Configuration Wizard - Select Optional Configuration page appears, as shown in the following example:

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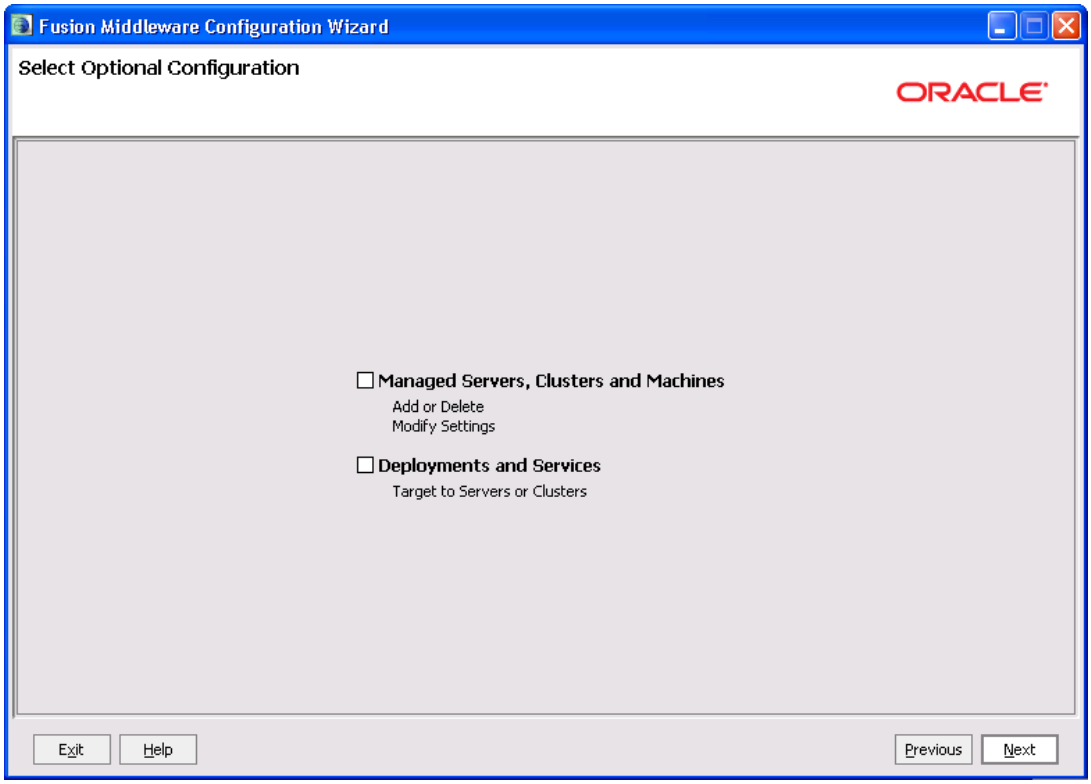

Fusion Middleware Configuration Wizard - Select Optional Configuration page

20. On the Select Optional Configuration page, no action is required. Click Next.

    The Fusion Middleware Configuration Wizard - Configuration Summary page appears, as shown in the following example:

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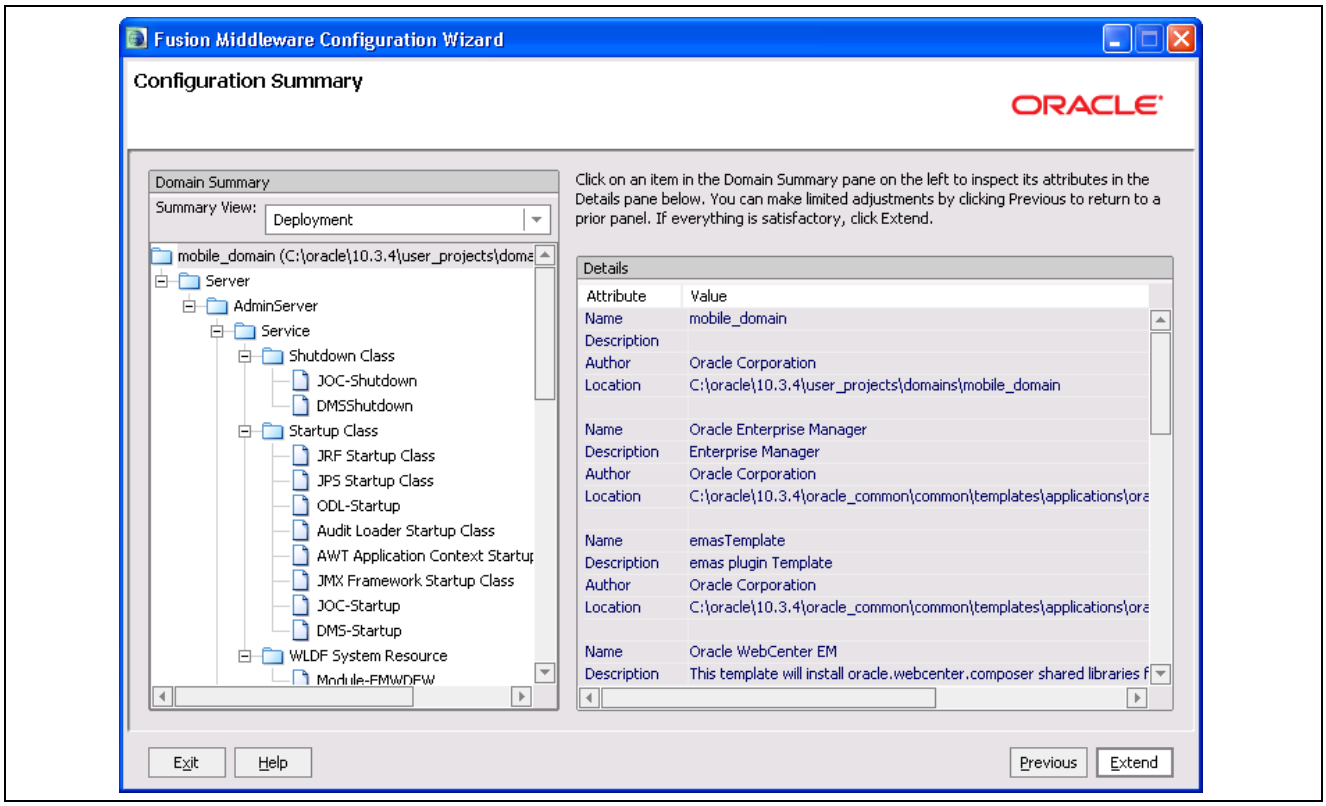

Fusion Middleware Configuration Wizard - Configuration Summary page

21. On the Configuration Summary page, review your configuration details, and then click the Extend button.

    If you need to make corrections, click the Previous button to go back and modify your details.

    The Fusion Middleware Configuration Wizard - Extending Domain page appears, as shown in the following example:

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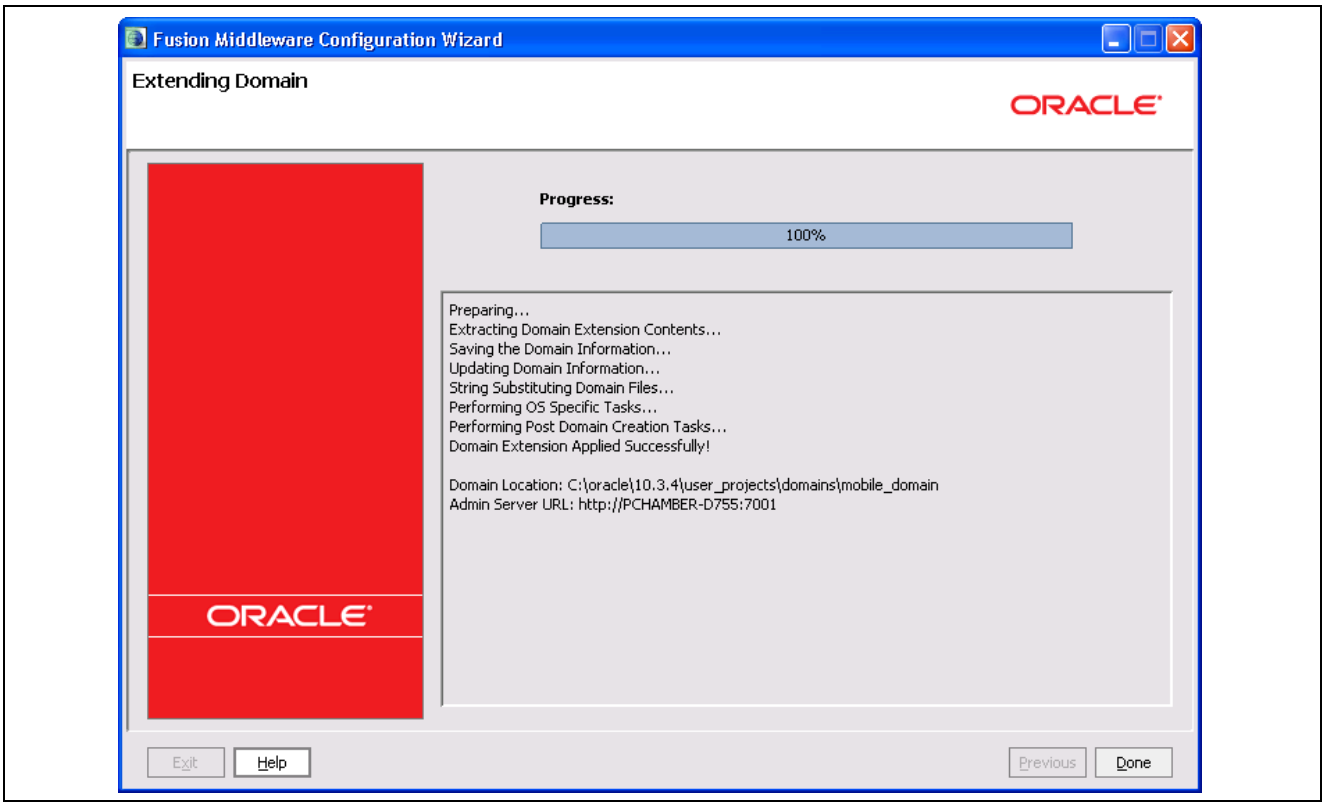


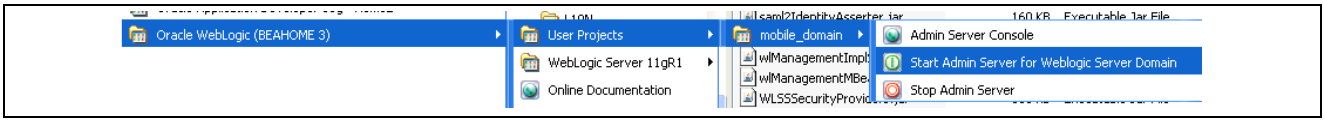
Fusion Middleware Configuration Wizard - Extending Domain page

22. On the Extending Domain page, click the Done button.

Note. You can create additional domains by following the same steps in the task "Installing the Oracle Application Developer Framework for PeopleSoft Mobile Inventory Management," except on the Welcome page you select the option *Create a new WebLogic domain*, instead of Extend a WebLogic domain (do this for each additional domain). Select the same options.

---

23. From the menu, start the Administration Server for the Oracle WebLogic Server domain by selecting Oracle WebLogic, User Projects, mobile_domain, Start Admin Server for WebLogic Server Domain, as shown in the following example:



Menu options to start Admin Server for the Oracle WebLogic Server

Task 1-4: Installing PeopleSoft Mobile Inventory Management

These steps detail the PeopleSoft Mobile Inventory Management installation.

To install PeopleSoft Mobile Inventory Management:

1. Double-click the PeopleSoft Mobile Inventory Management *SETUP.BAT* file from your Oracle E-Delivery download.

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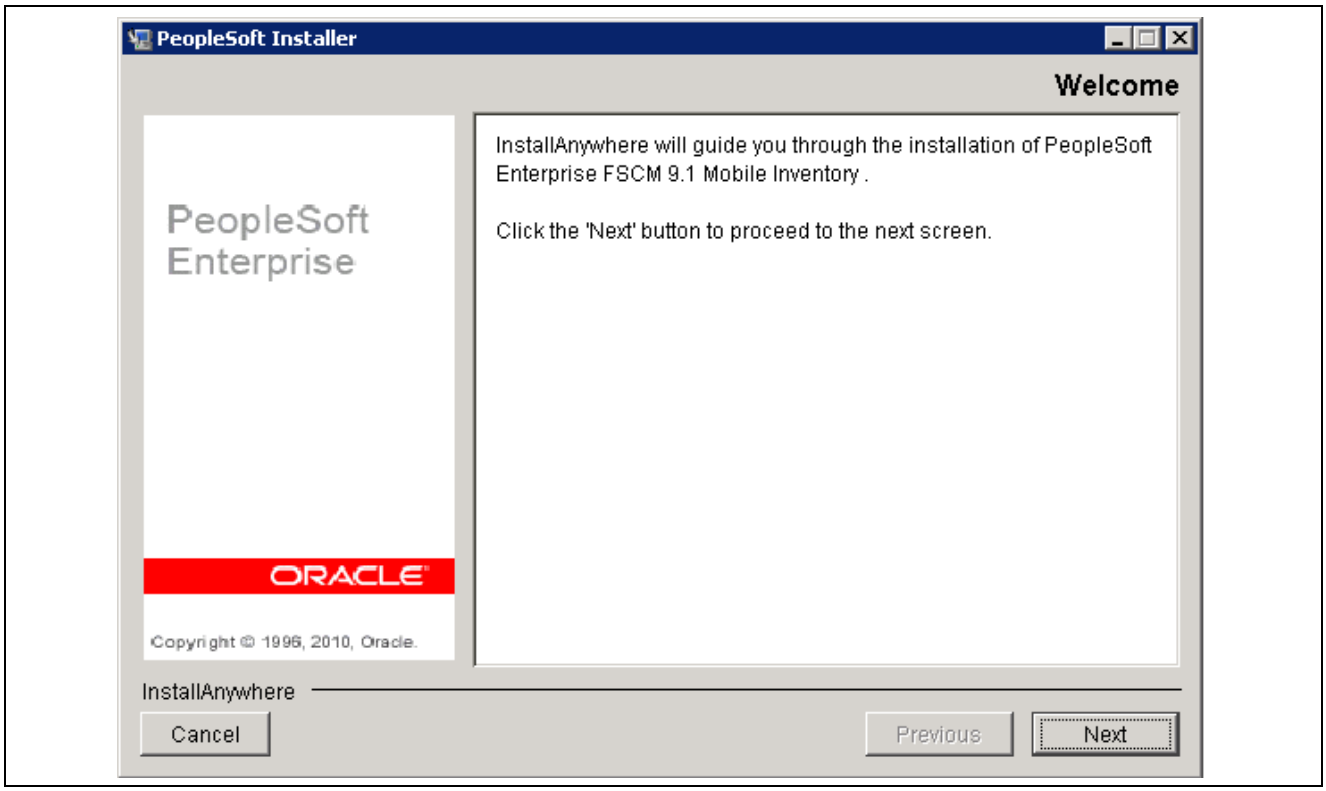
If prompted, enter the product license code that is contained in the product letter that you received with the PeopleSoft Mobile Inventory Management release.

The PeopleSoft Installer Welcome page appears, as shown in the following example:



PeopleSoft Installer - Welcome page

2. On the Welcome page, click Next.

   The PeopleSoft Installer License Agreement page appears, as shown in the following example:

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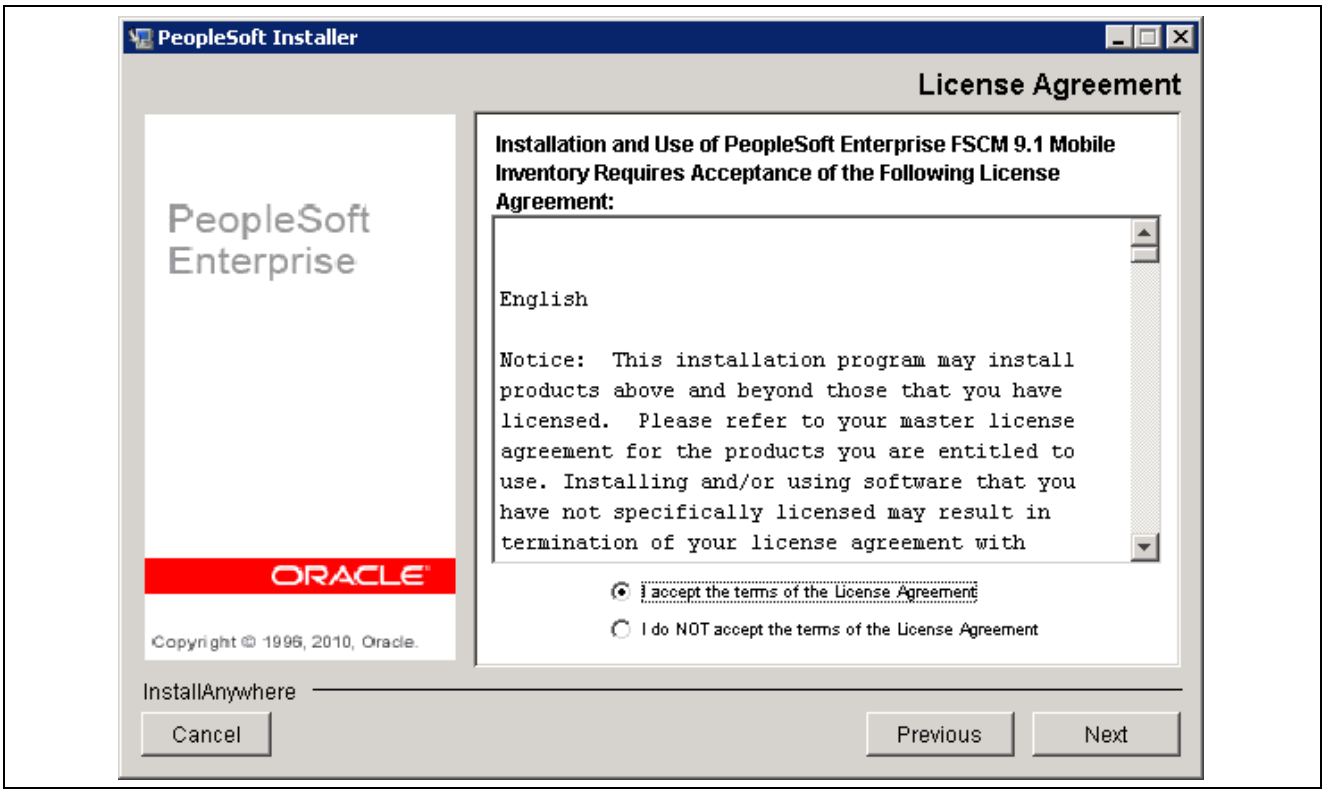

PeopleSoft Installer - License Agreement page

3. On the License Agreement page, read the License Agreement carefully and select one of the following:
   - I accept the terms of the License Agreement.

     Select this option to continue with the installation of PeopleSoft Mobile Inventory Management.
   - I do NOT accept the terms of the License Agreement.

     If you select this option, the PeopleSoft Installer ends the installation.
4. Click Next.

   The PeopleSoft Installer license code page appears.
5. On the License Code page, in the License Code field, enter your PeopleSoft license code.

   This code is delivered with your Oracle E-Delivery download and the product letter that you received upon licensing.
6. Click Next.

   The PeopleSoft Installer database platform option page appears, as shown in the following example:

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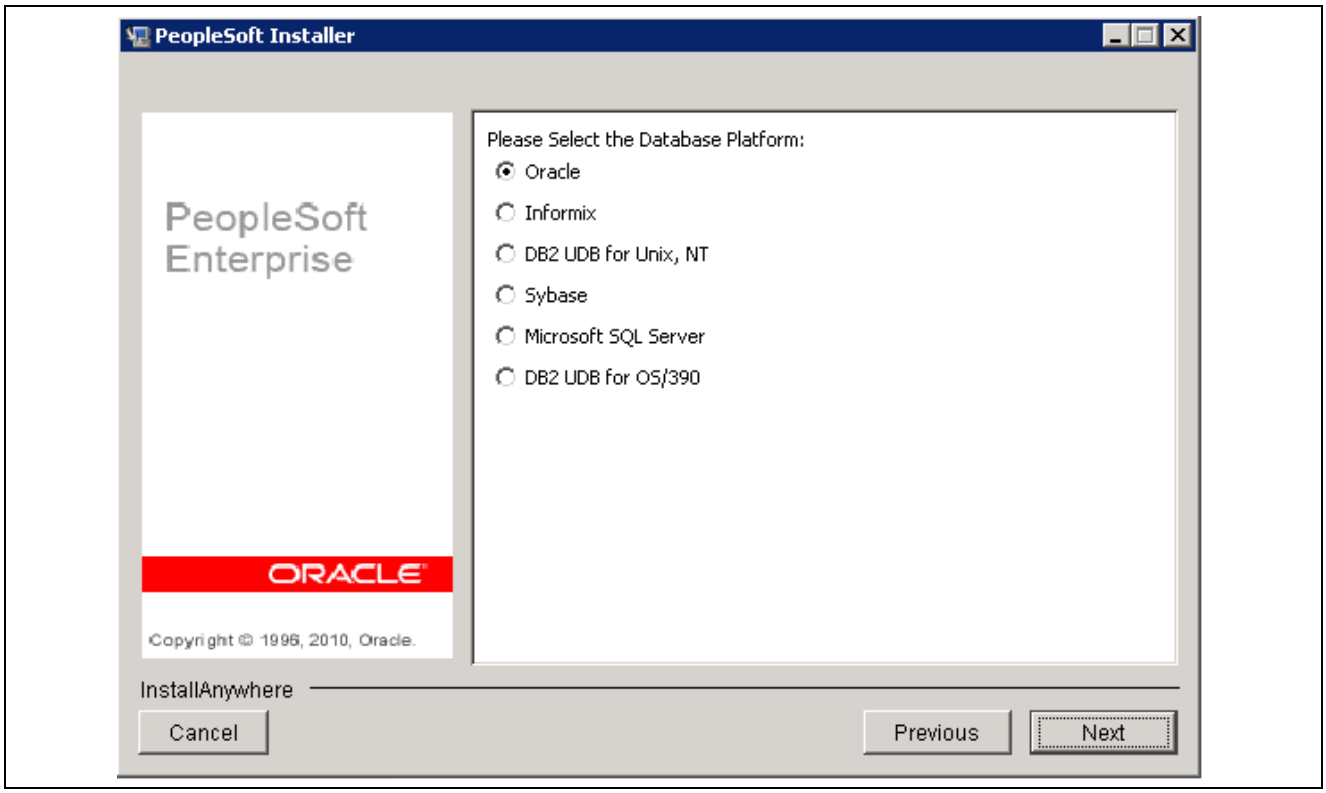

PeopleSoft Installer - Database platform option page

7. On the database platform option page, select the database platform that is based on your existing PeopleSoft FSCM 9.1 installation.

   For example: *Oracle*

8. Click Next.

   The PeopleSoft Installer Unicode or Non-Unicode database option page appears, as shown in the following example:

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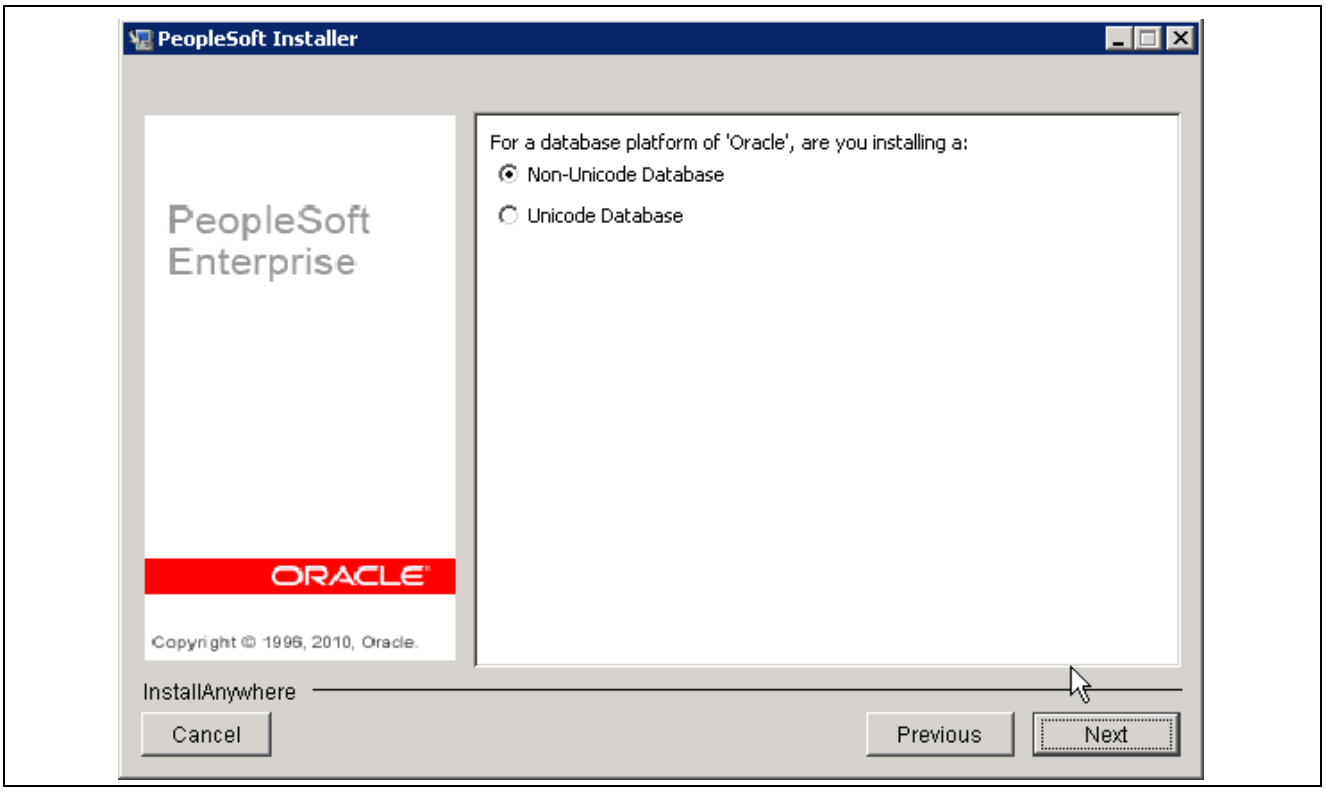

PeopleSoft Installer - Non-Unicode or Unicode database option page

9. On the unicode or non-unicode database option page, select your database type.

   For example: *Non-Unicode Database*

10. Click Next.

    The PeopleSoft Installer Oracle on Windows server option page appears, as shown in the following example:

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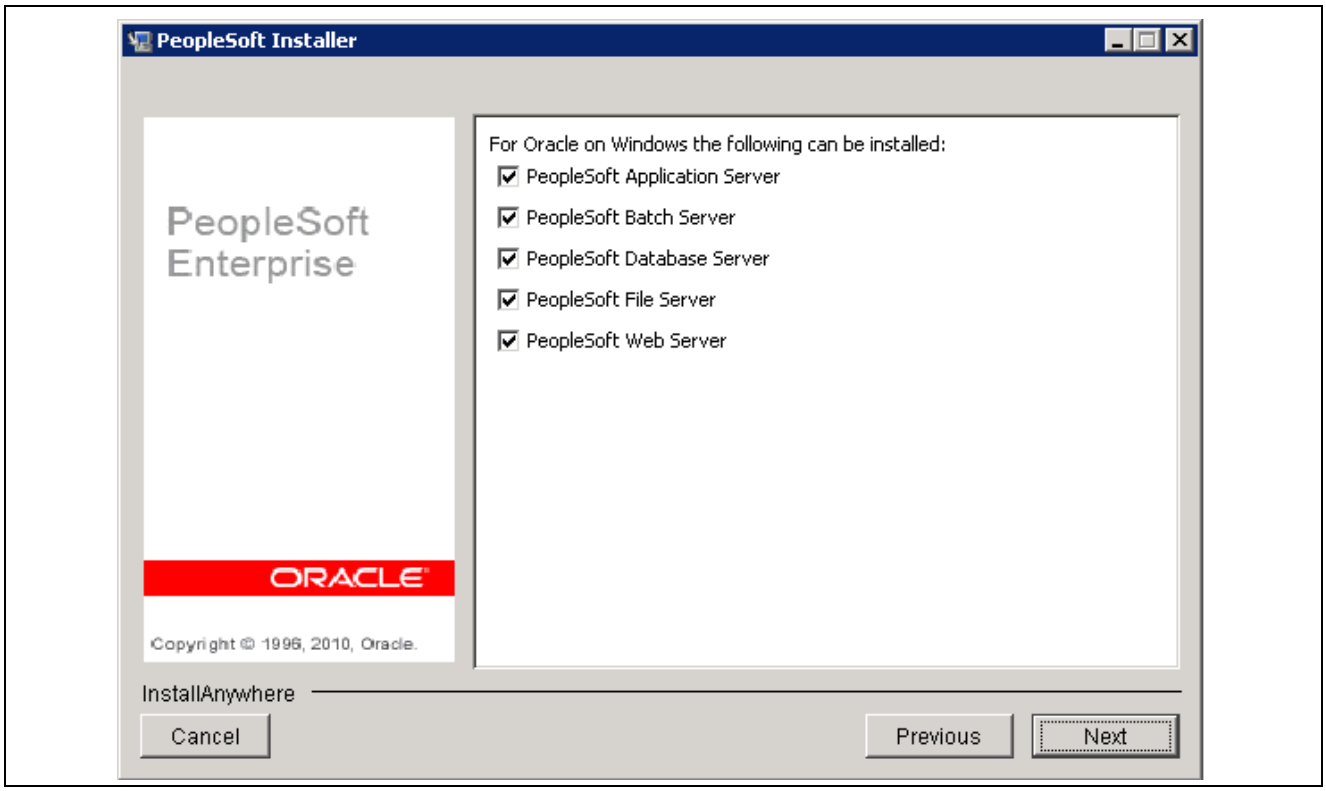

PeopleSoft Installer - Oracle on Windows server option page

11. On the Oracle on Windows server option page, select the following check boxes if they are not already selected by default:
    - PeopleSoft Application Server
    - PeopleSoft Batch Server
    - PeopleSoft Database Server
    - PeopleSoft File Server
    - PeopleSoft Web Server
12. Click Next.

    The PeopleSoft Installer Choose Install Folder page appears, as shown in the following example:

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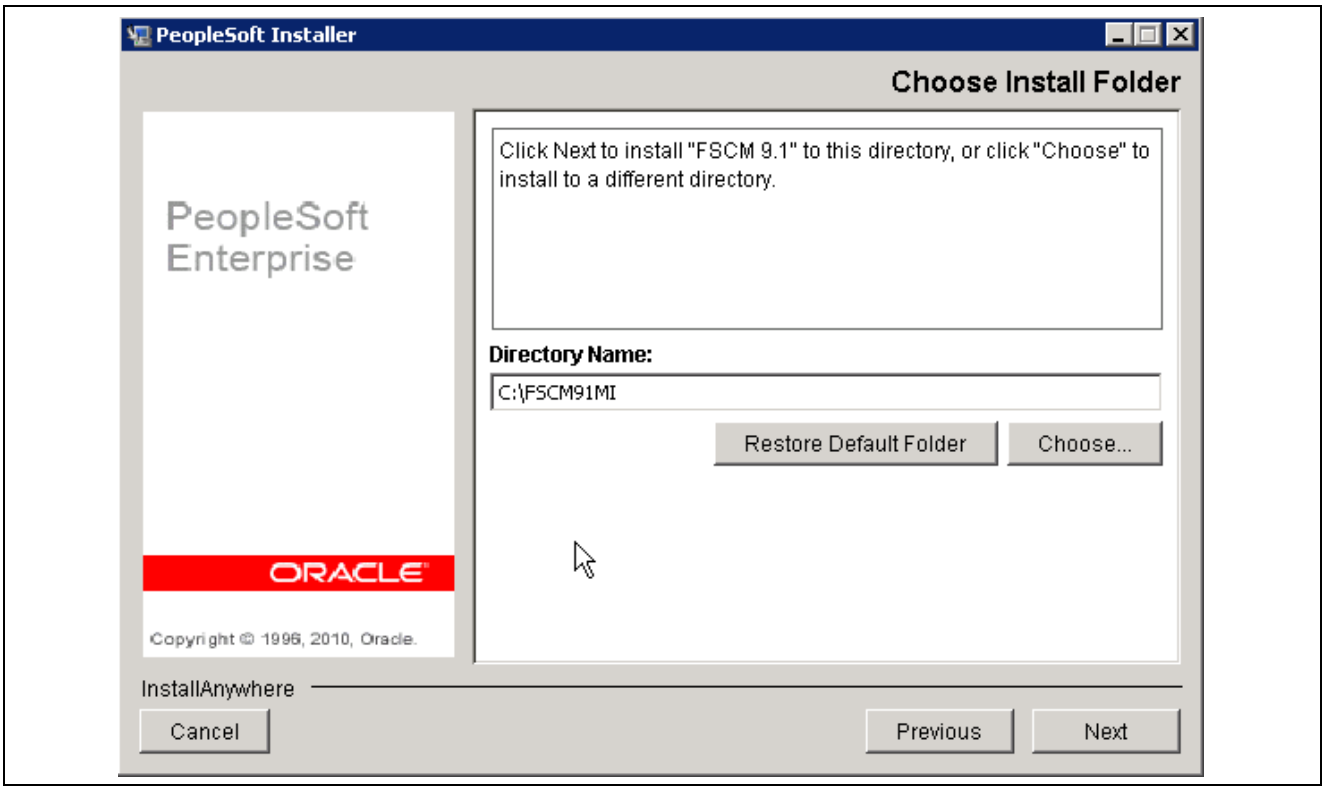

PeopleSoft Installer - Choose Install Folder page

13. On the Choose Install Folder page, in the Directory Name field, specify the directory where you want to install the application.

    For example: *C:\FSCM91MI*

    The directory that you select should be the one where you installed PeopleSoft Enterprise FSCM 9.1.

    If you need to change the drive letter or directory name, click the Choose button.

14. Click Next.

    The PeopleSoft Installer Choose Product Features page appears, as shown in the following example:

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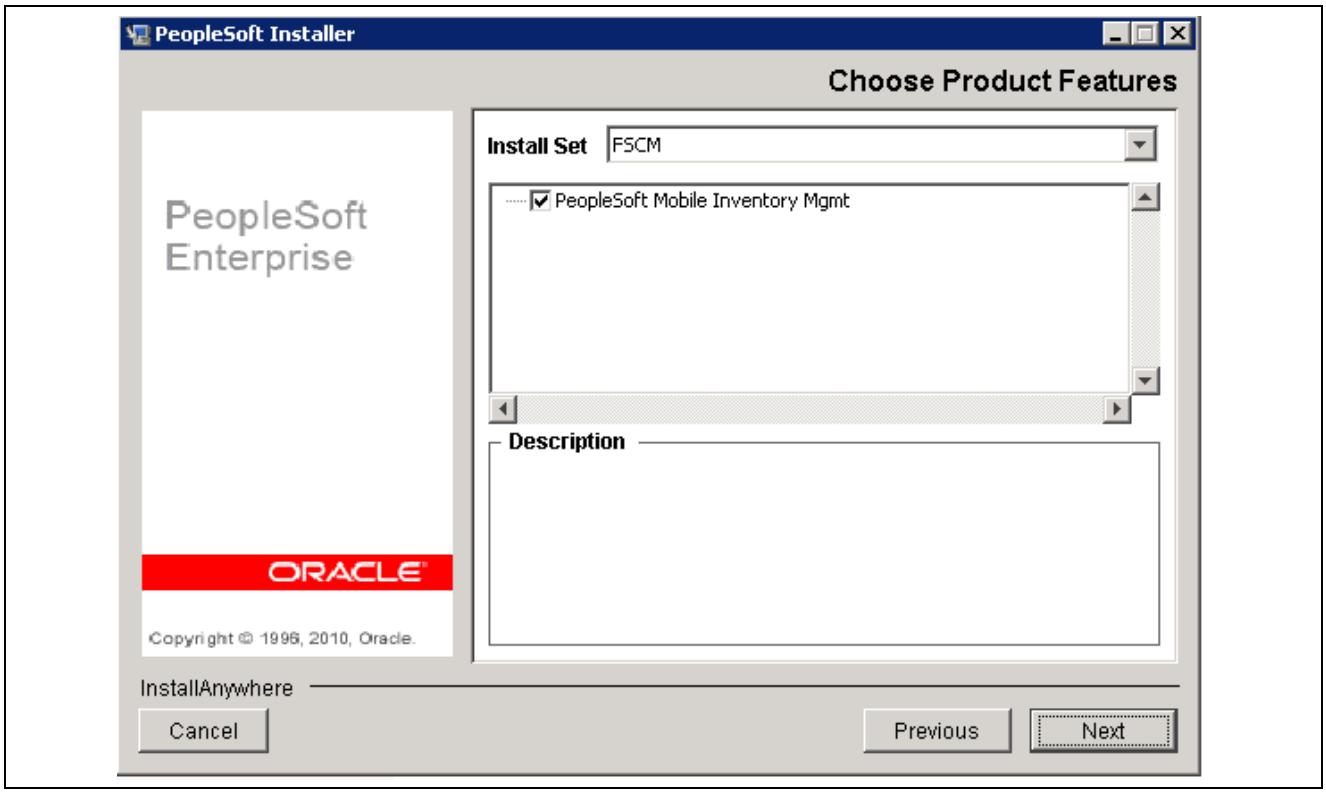

PeopleSoft Installer - Choose Product Features page

15. On the Choose Product Features page, select the PeopleSoft Mobile Inventory check box if it is not already selected.

Note. The PeopleSoft Setup program only displays the applications that you have licensed. If the application does not appear, it is possible that you made an error while entering the product license code during the installation. If the product is missing, restart the *SETUP.BAT* by double-clicking the executable file.

---

16. After you select the product, click Next.

    The PeopleSoft Installer confirmation summary page appears, as shown in the following example:

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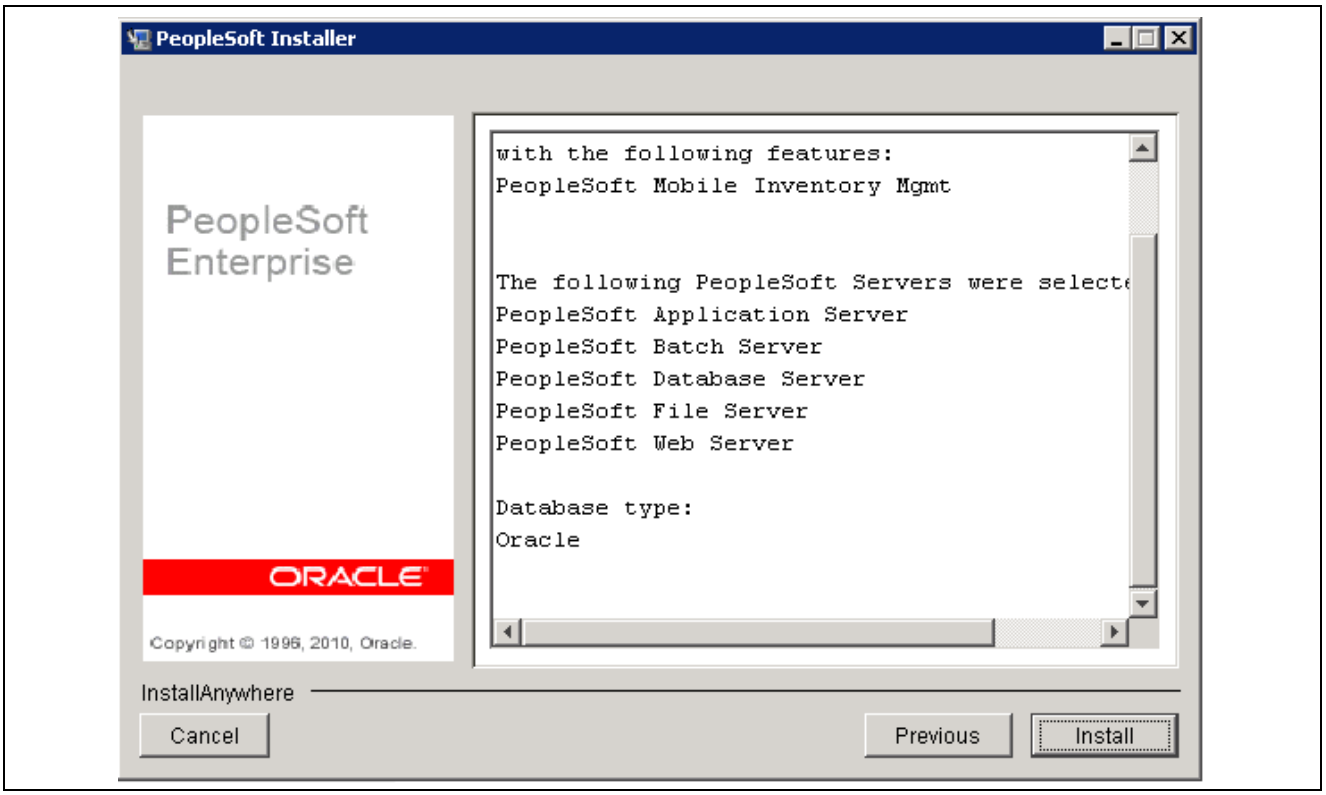

PeopleSoft Installer - Confirmation summary page

17. On the confirmation summary page, confirm your installation criteria.

    If the incorrect directory appears, click the Back button to return to the main page where you can specify the correct installation directory.

18. After you confirm or revise your installation criteria, click the Install button to proceed with the installation.

    The set up program begins the installation process for the files that are associated with the products that you selected.

    If you need to cancel the installation process, click the Cancel button or press the Esc key on your keyboard.

    After the installation completes, the PeopleSoft Installer Install Complete page appears, as shown in the following example:

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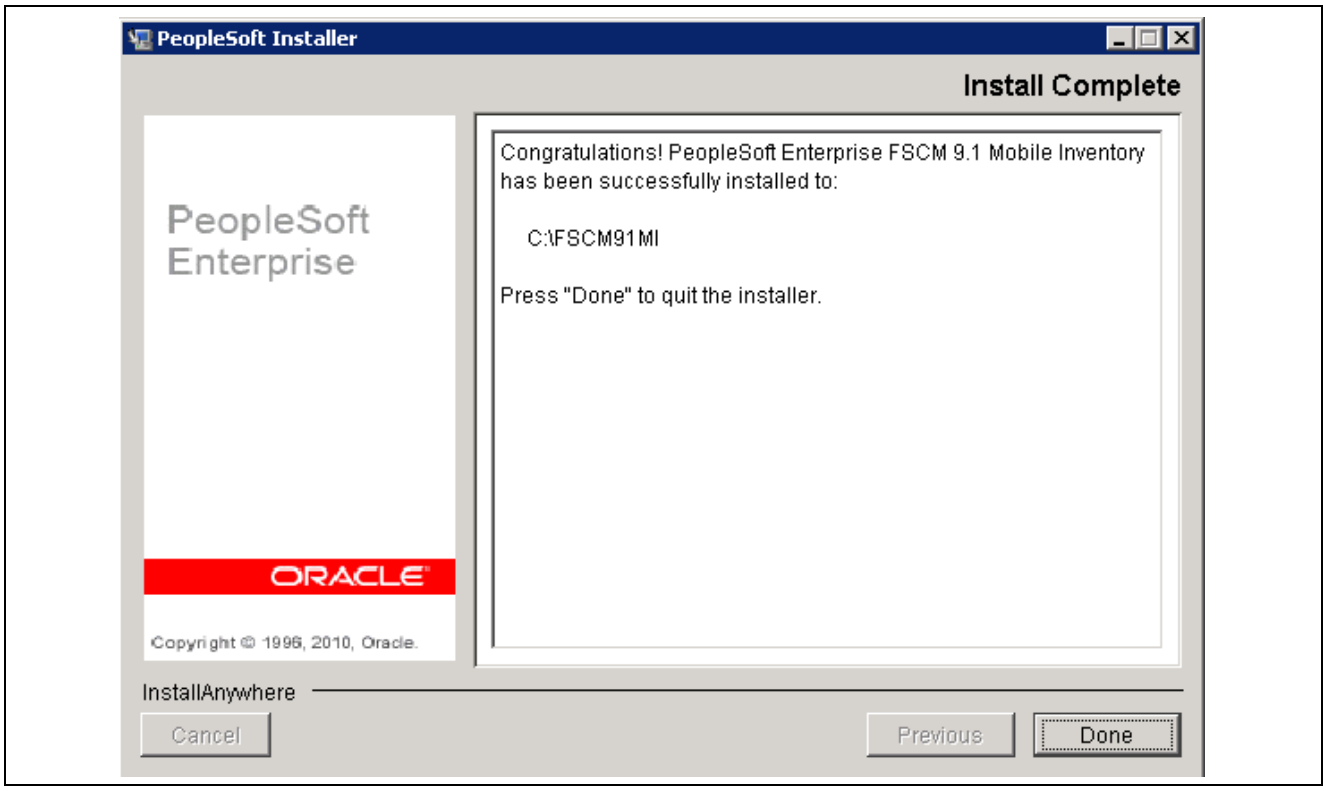

PeopleSoft Installer Install Complete page

19. On the Install Complete page, click the Done button to exit the installer.

Note. This documentation does not provide detailed information about the installation of application projects. Application projects are projects created by the applications team that may need to be copied, built and applied. For more detailed information, see the *PeopleSoft Enterprise PeopleTools 8.50* documentation for your database platform.

Task 1-5: Applying the PeopleSoft Mobile Inventory Management Authentication Provider

This section discusses:

- Prerequisites
- Applying the PeopleSoft Mobile Inventory Management Authentication Provider

The PeopleSoft Authentication Provider authenticates a user name and password by connecting to a PeopleSoft Application Server. With successful authentication, a Principal and Subject are created, identifying the authorized use of a secure web server session. The subject can be used to run a secure web session and provide WS-Security parameters for subsequent calls to the PeopleSoft system.

Prerequisites

Before you begin, verify that you meet the following requirements:

- Access to the *wlPSFTSecurityProviders.jar* file.

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The file location is in the <PS_HOME>\setup\oracle\adf\MobileInventory directory after you complete the installation in the previous task *"Installing PeopleSoft Mobile Inventory Management."*

- Access to the *psjoa.jar* file.

  The psjoa.jar file is delivered as part of PeopleSoft PeopleTools and must come from the version of PeopleTools that is running the application server. For Microsoft Windows installations, this file can be found in the <PS_HOME>\web\psjoa\ subdirectory. For Linux installations, this file can be found in the <PS_HOME>\appserv\classes\ subdirectory.

Task 1-5-1: Applying the PeopleSoft Mobile Inventory Management Authentication Provider

This section discusses:

- Copying the wlPSFTSecurityProviders.jar File
- Copying the PeopleSoft psjoa.jar File
- Adding the PeopleSoft Authentication Provider to the Active SecurityRealm

To apply the PeopleSoft Mobile Inventory Management Authentication Provider, you must perform the following steps specific to Microsoft Windows or UNIX to copy the necessary *.jar* files, and then add the authentication provider to the security realm.

Copying the wlPSFTSecurityProviders.jar File

The *PSFTSecurityProviders.jar* file is a Managed Bean (Mbean). Mbeans can be dynamically loaded and contain meta information that is understood by the Oracle WebLogic Server. All Mbeans that Oracle WebLogic uses are in the *%WL_HOME%\server\lib\mbeantypes* directory.

Note. The *%WL_HOME%* referred to here is <installation directory>+wlserver_10.3 directory, *not* the parent installation directory <installation directory>.

For example, c:\bea1034\wlserver_10.3

For Microsoft Windows:

Copy *wlPSFTSecurityProviders.jar* to %WL_HOME%\server\lib\mbeantypes

For UNIX:

Copy *wlPSFTSecurityProviders.jar* to *${WL_HOME}/server/lib/mbeantypes*

Copying the PeopleSoft psjoa.jar File

The PeopleSoft PeopleTools library file *psjoa.jar* must be accessible to the mobile application running on the Oracle WebLogic Server. The file *psjoa* is release dependent and *must* be the same PeopleSoft PeopleTools release as the version running on the application server.

You must copy this jar file from your PS_HOME to the Mobile Inventory Oracle WebLogic Server and place it into the *WL_HOME\server\lib\PeopleSoft* directory.

Important! Each time maintenance is applied, the file must be replaced. For example, if the PeopleSoft PeopleTools release changes from 8.50.07 to 8.50.12, a new version of the psjoa.jar file must be copied to the Oracle WebLogic Server.

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To copy the PeopleSoft psjoa.jar file to the %WL_HOME%\server\lib\PeopleSoft\ directory, perform the following steps specific to Microsoft Windows or UNIX:

1. Copy the psjoa.jar file to the *WL_HOME\server\lib\PeopleSoft* directory:

   For Microsoft Windows:

   - Access your Mobile Inventory Oracle WebLogic Server.
   - Create a PeopleSoft directory under %WL_HOME%\server\lib\
   - Copy the psjoa.jar file from your*PS_HOME\web\psjoa* to *%WL_HOME%\server\lib\PeopleSoft*

     For UNIX: (PS_HOME should be from a UNIX PeopleTools install)

   - Access your Oracle WebLogic Server for Mobile Inventory.
   - Create a PeopleSoft directory under %WL_HOME%/server/lib
   - Copy the psjoa.jar file from your *PS_HOME/appserv/classes* to *${WL_HOME}/server/lib/PeopleSoft/*
2. Update the Weblogic classpath. This can be done for the *entire* Weblogic install or for the *specific* Domain where PeopleSoft Mobile Inventory is installed. For Microsoft Windows, you update the file ending in *.cmd*, for UNIX you update the file ending in *.sh*.

   For Microsoft Windows, update the file ending in *.cmd*:

   - *Entire Weblogic:* Update the file *%WL_HOME%\common\bin\commEnv.cmd* and prepend the following to the WEBLOGIC_CLASSPATH environment variable.

     ```
     %WL_HOME%\server\lib\PeopleSoft\psjoa.jar
     ```

   - *Specific Domain:* Update the file *domain_path\bin\setDomainEnv.cmd* and prepend the preceding to the PRE_CLASSPATH environment variable.

     The psjoa.jar file must be a fully qualified path.

     Note. If there is no PRE_CLASSPATH variable, add it to the file.

     For example, set PRE_CLASSPATH=%WL_HOME%\server\lib\PeopleSoft\psjoa.jar

     ---

   For UNIX, update the file ending in *.sh*:

   - *Entire Weblogic:* Update the file *%WL_HOME%/common/bin/commEnv.sh* and prepend the following to the WEBLOGIC_CLASSPATH environment variable.

     ```
     ${WL_HOME}/server/lib/PeopleSoft/psjoa.jar
     ```

   - *Specific Domain:* Update the file *domain_path/bin/setDomainEnv.sh* and prepend the preceding to the PRE_CLASSPATH environment variable.

Adding the PeopleSoft Authentication Provider to the Active SecurityRealm

To add the PeopleSoft Authentication Provider to the active Security Realm:

1. Log in to the Oracle WebLogic Server Administration Console.
   a. Start the Integrated Oracle WebLogic Server instance from the menu by selecting Oracle WebLogic, User Projects, mobile_domain, Start Admin Server for WebLogic Server Domain, as shown in the following example:

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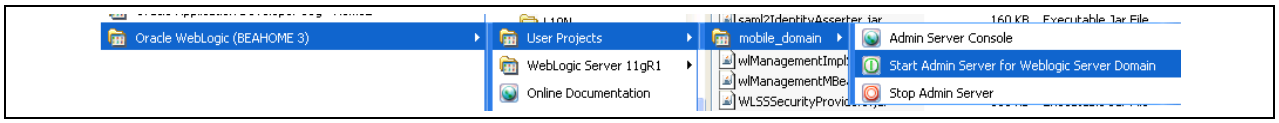
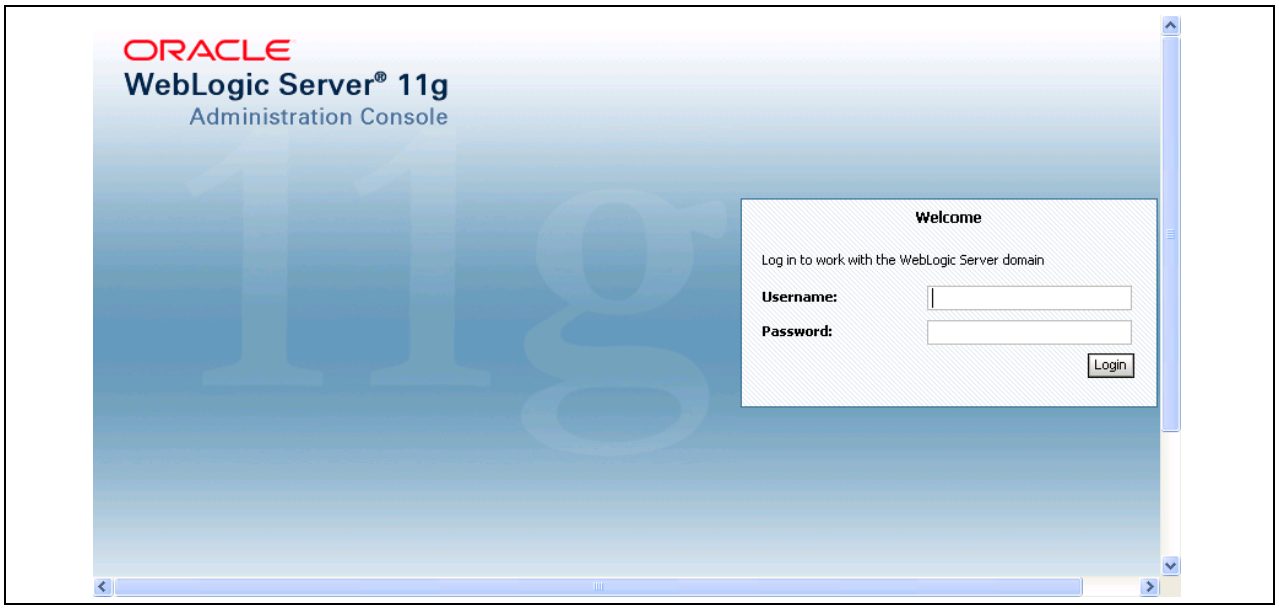


Menu navigation to start the Oracle WebLogic Server instance

b. In the browser instance, enter the location of the local host to start the Administration Console.

For example: *http://localhost:7001/console*

The Oracle WebLogic Server 11g Administration Console - Welcome and login page appears, as shown in the following example:



Oracle WebLogic Server 11g Administration Console - Welcome and Log in page

c. On the Welcome and login page, in the User ID field enter *weblogic*, and in the Password field enter a password (for example, *welcome1*).

The Oracle WebLogic Server Administration Console - Home page appears, as shown in the following example:

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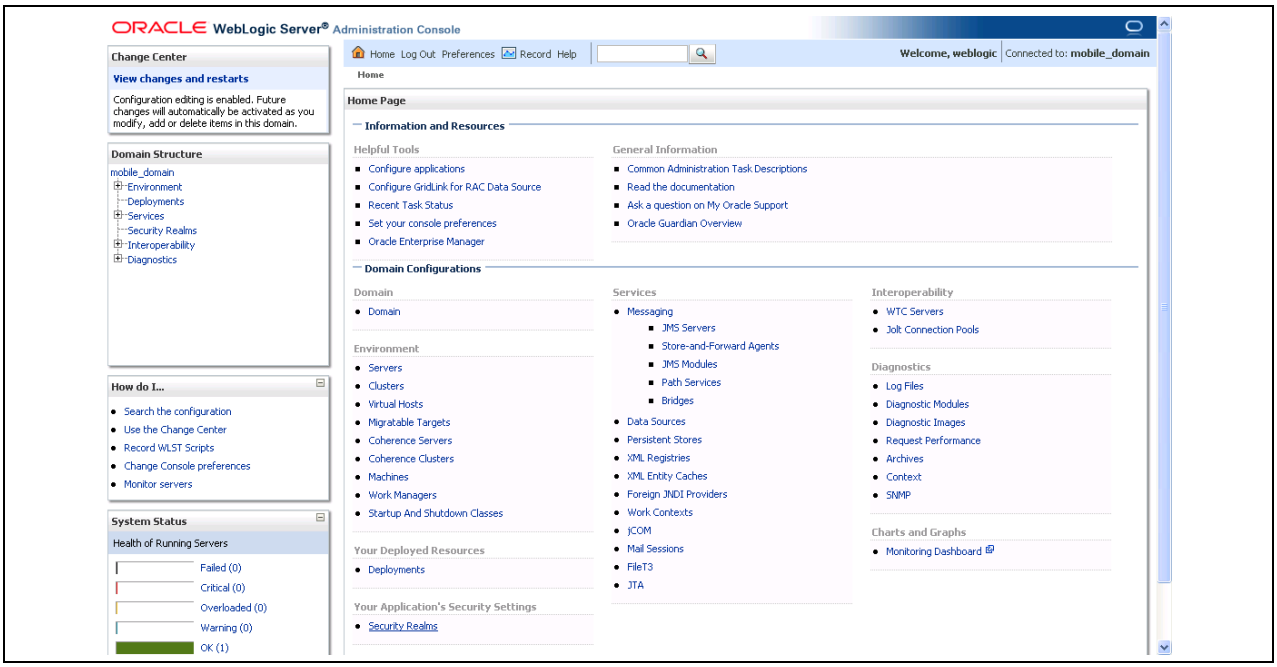

Oracle WebLogic Server Administration Console - Home page

2. On the Home page, click the *Security Realms* link under the section *Your Application's Security Settings*.

   The Oracle WebLogic Server Administration Console - Summary of Security Realms page appears, as shown in the following example:

Oracle WebLogic Server Administration Console - Summary of Security Realms page

3. On the Summary of Security Realms page, click the *myrealm* link, to open the default security realm.

   The Oracle WebLogic Server Administration Console - Authentication Providers page appears, as shown in the following example:

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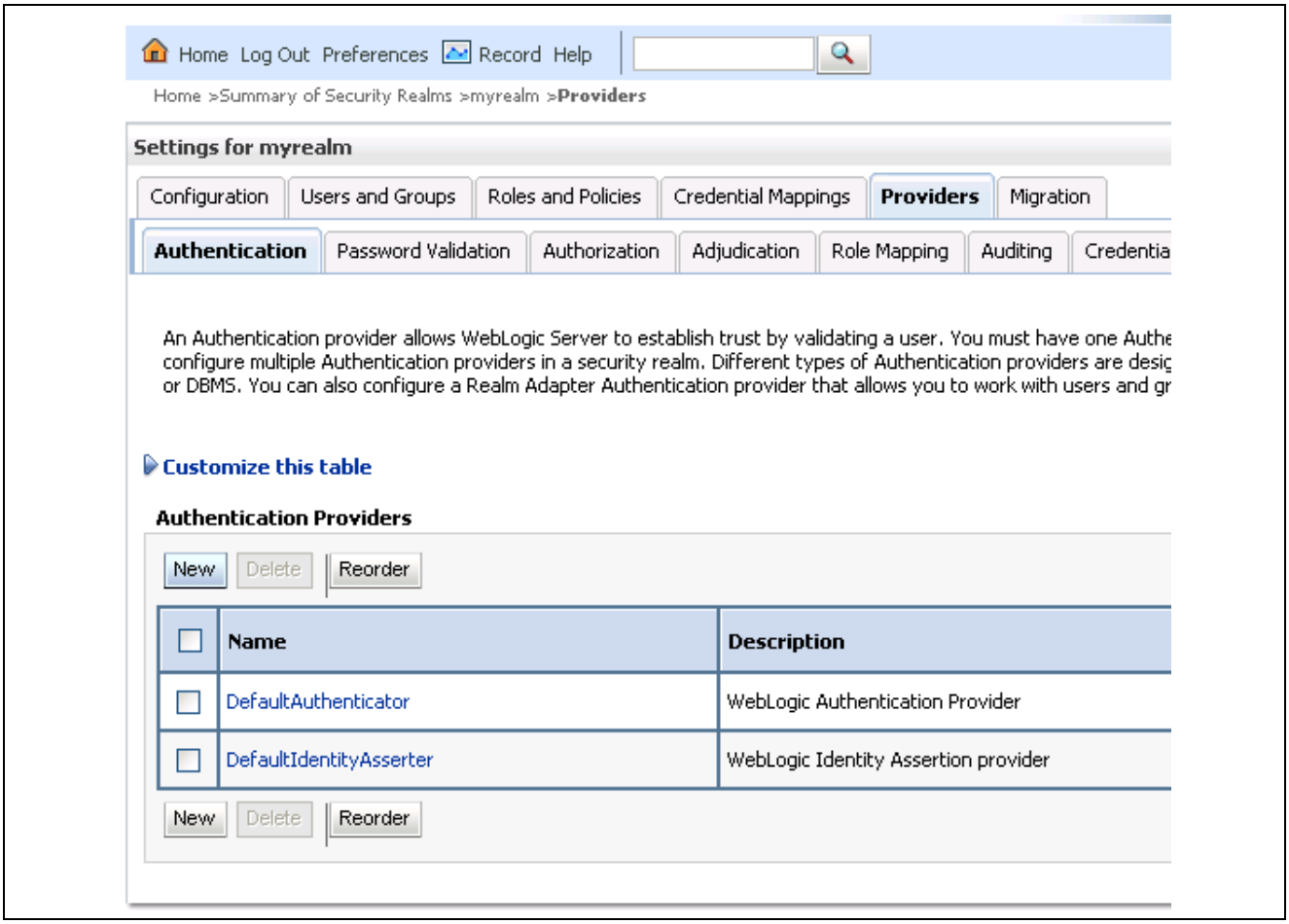

Oracle WebLogic Server Administration Console - Authentication Providers page

4. On the Authentication Providers page, select the Providers tab to access the Providers page and options.

   The Oracle WebLogic Server Administration Console - Providers page appears.

5. On the Providers page, select the Authentication tab and then click the *New* button in the Authentication Providers table.

   The Oracle WebLogic Server Administration Console - Create a New Authentication Provider page appears, as shown in the following example:

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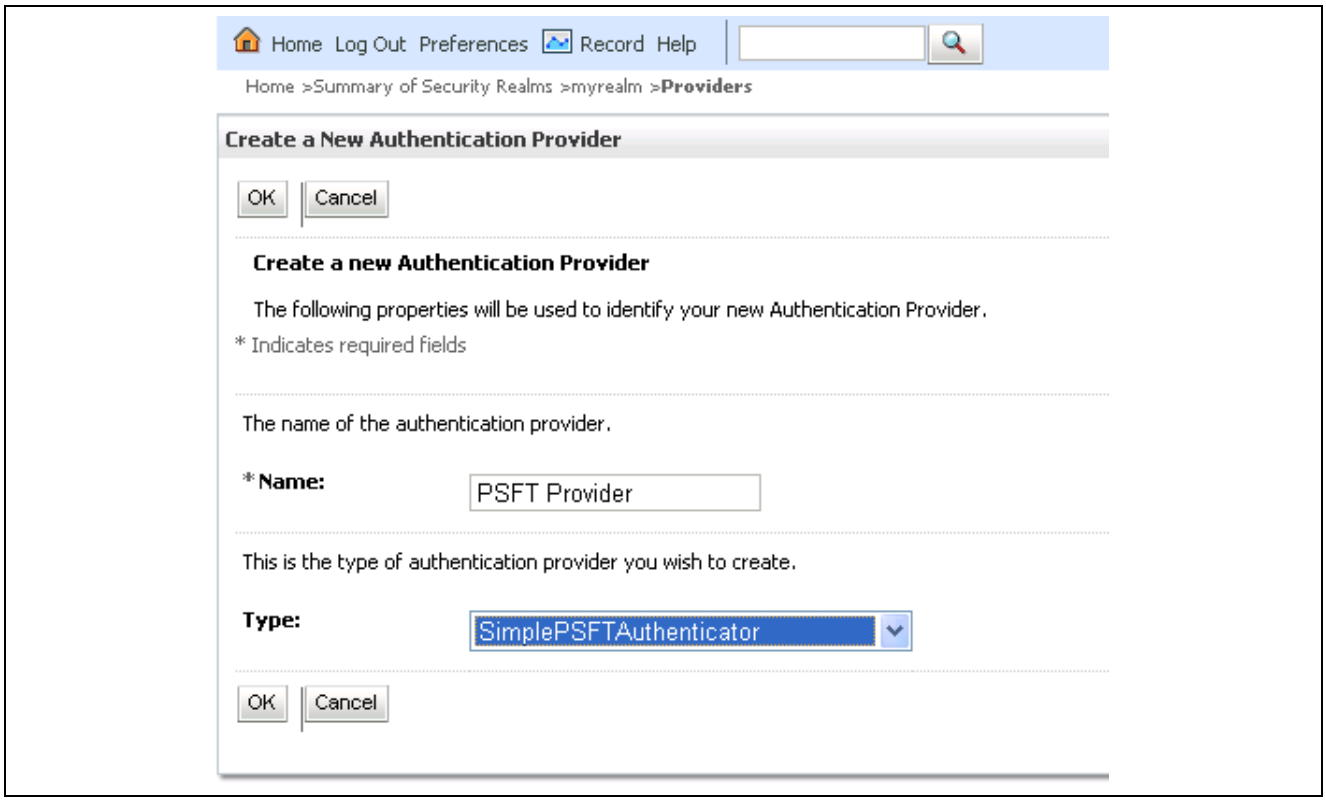

Oracle WebLogic Server Administration Console - Create a New Authentication Provider page

6. On the Create a New Authentication Provider page, do the following:
   a. In the Name field, enter a name for the PeopleSoft Provider.

      For example: *PSFT Provider*

      This name is for identification purposes only and does not need to match any specific value.

   b. From the Type drop-down list box, select *SimplePSFTAuthenticator*.

      If *SimplePSFTAuthenticator* is not available to select, return to the first step and verify that the file *wlPSFTSecurityProviders.jar* is located in the correct subdirectory.

   c. Click OK.

      You are returned to the Authentication Providers page.

      Alternatively, you can click the Providers link in the navigation at the top of the screen.

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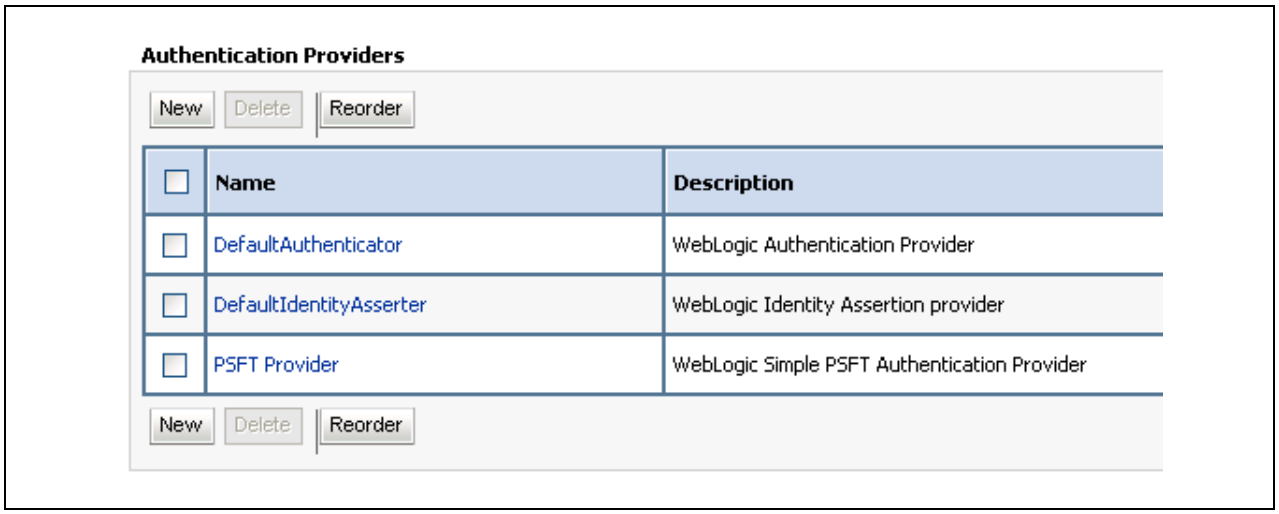
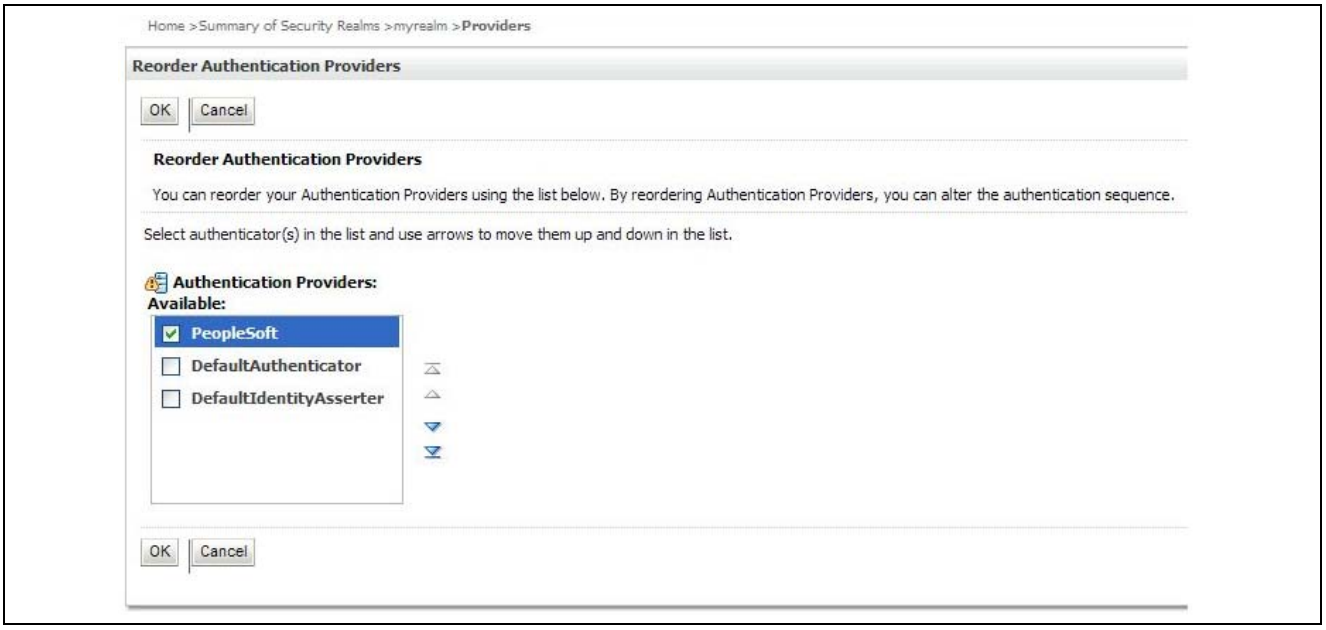


Oracle WebLogic Server Administration Console - Authentication Providers page

7. On the Authentication Providers page, click the Reorder button to access the Reorder Authentication Providers page, as shown in the following example:



Reorder Authentication Providers page

8. On the Reorder Authentication Providers page, do the following:
   a. Select the PSFT Provider check box and use the arrows to move the PSFT Provider to the top of the list.
   b. After the PSFT Provider reaches the top of the list, click OK to save the order.
9. On the Authentication Providers page, click the link for the PSFT provider that you just added (for example *PSFT Provider*) to access the properties for that provider.

   The Oracle WebLogic Server Administration Console - Settings for PSFT Provider page appears, as shown in the following example:

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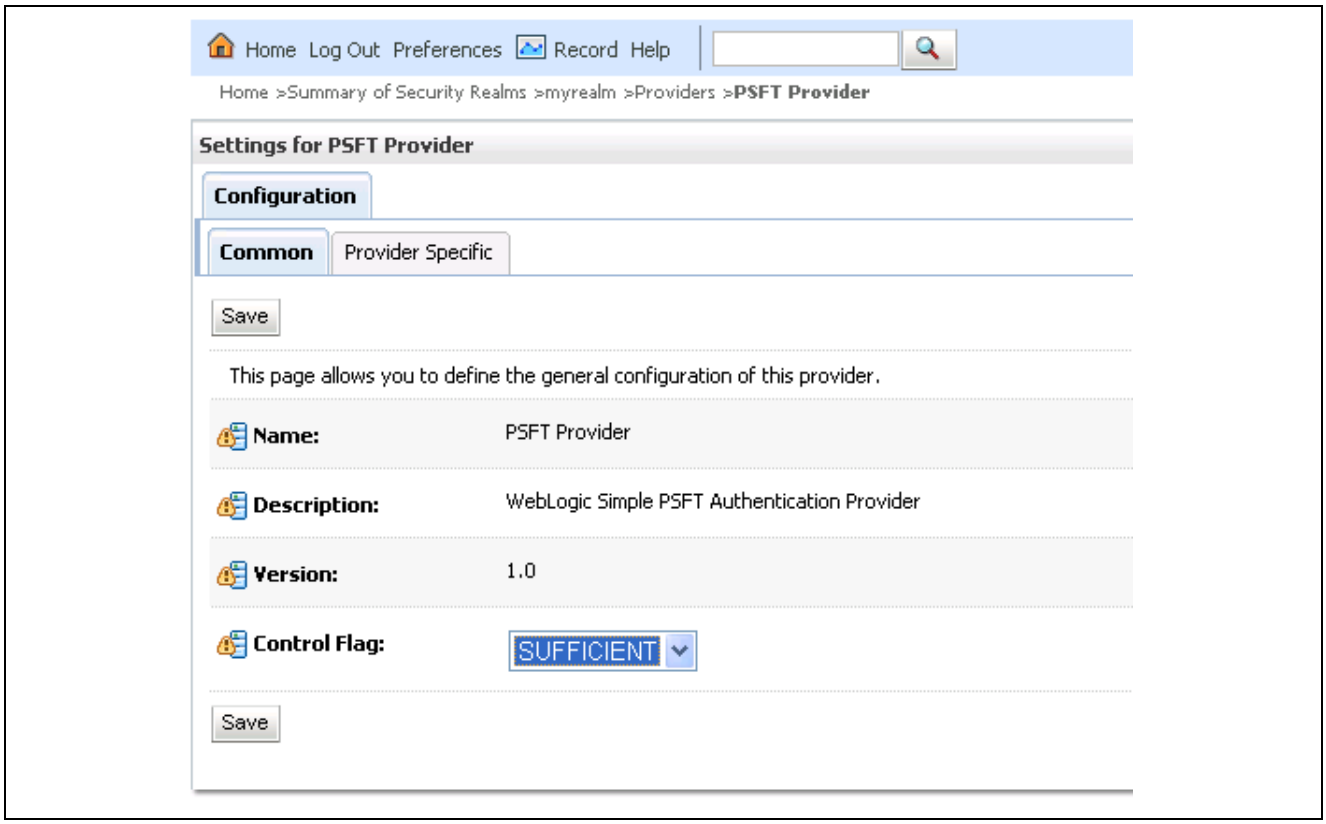


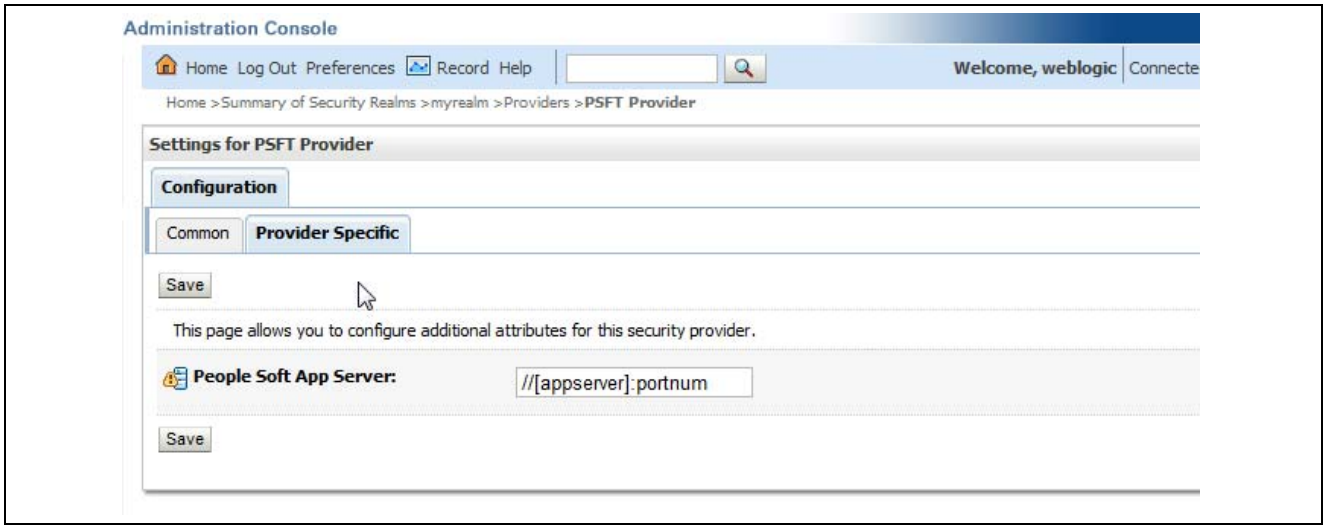
Oracle WebLogic Server Administration Console - Settings for PSFT Provider page

10. On the Settings for PSFT Provider - Configuration: Common page, select *SUFFICIENT* from the Control Flag drop-down list box for the PeopleSoft Provider, and then click Save.

    This specifies that a logon of true from the PSFT Provider is enough authentication to allow an application to run on the server.

11. Select the Provider Specific tab to access and configure the Provider Specific settings for the PSFT Authentication Provider.

    The Oracle WebLogic Server Administration Console - Settings for PSFT Provider: Provider Specific page appears, as shown in the following example:



Oracle WebLogic Server Administration Console - Settings for PSFT Provider: Provider Specific page

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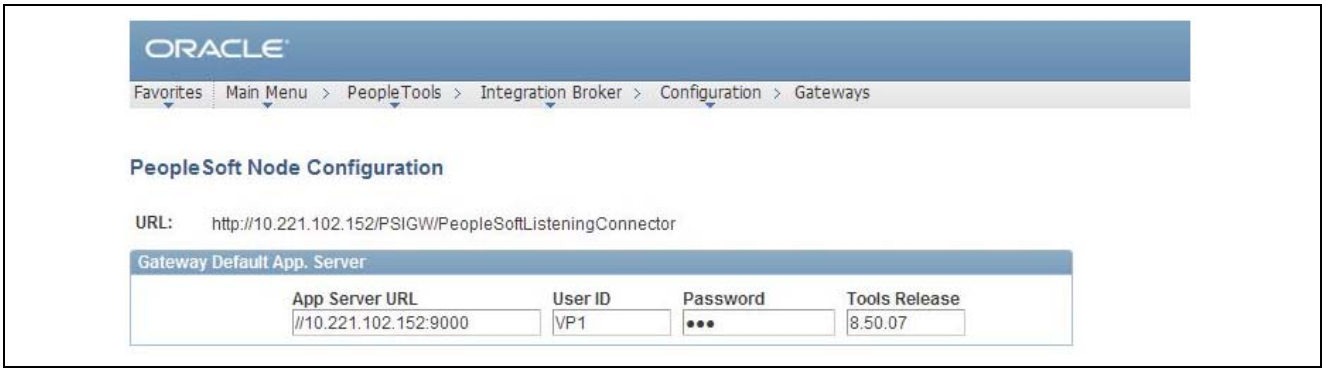
12. On the Settings for PSFTAuthenticator - Provider Specific page, do the following:
    - In the PeopleSoft App Server field, enter the machine name and port number (the jolt port number) for your PeopleSoft Application Server.
    - If your application servers are set up for *failover*, you can enter more than one application server and port number delimited by a semicolon.

    Important! Your application server *must* be the same PeopleSoft PeopleTools version as the psjoa.jar file that you copied to your web server.

    - If you are unsure of your application server and port number, you can find that information in the integration.properties file under the Jolt Connect section, or online on the Advanced Gateway Settings page for the Gateway Default App. Server.
13. Click Save.

    The following example shows where you can locate your application server and port number on the Advanced Gateway Settings page for the Gateway Default App. Server:



Advanced Gateway Settings page for the Gateway Default App. Server - Showing App Server URL and Port number

14. Click the Providers link in the navigation at the top of the screen to return to the Authentication Providers page.
15. On the Authentication Providers page, click the Default Authenticator link to access and configure the settings for the Default Authenticator.

    The Oracle WebLogic Server Administration Console - Settings for Default Authenticator page appears, as shown in the following example:

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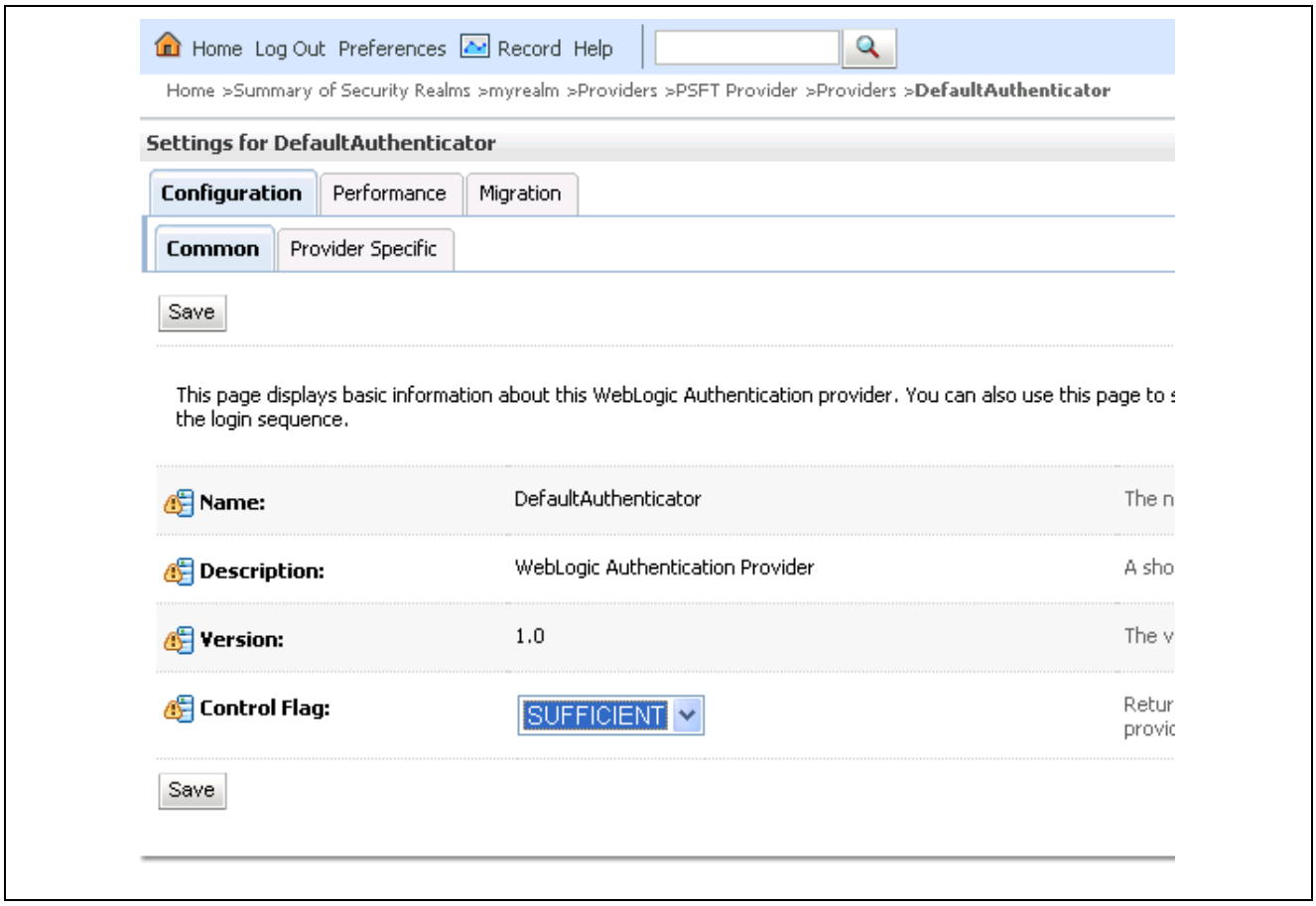

Oracle WebLogic Server Administration Console - Settings for DefaultAuthenticator page

16. On the Settings for Default Authenticator - Configuration: Common page, select *SUFFICIENT* from the Control Flag drop-down list box for the Default Provider, and then click Save.

    This specifies that a logon of true from the Default Provider is enough authentication to allow an application to run on the server. The Default Authenticator is set to *REQUIRED*. If you do not change this default setting, applications will not run unless the Default Authenticator validates the session.

17. Click the myrealm link in the navigation at the top of the screen to return to the myRealm page.

18. On the Settings for the myRealm page, select the Providers tab and then select the Password Validation tab, as shown in the following example:

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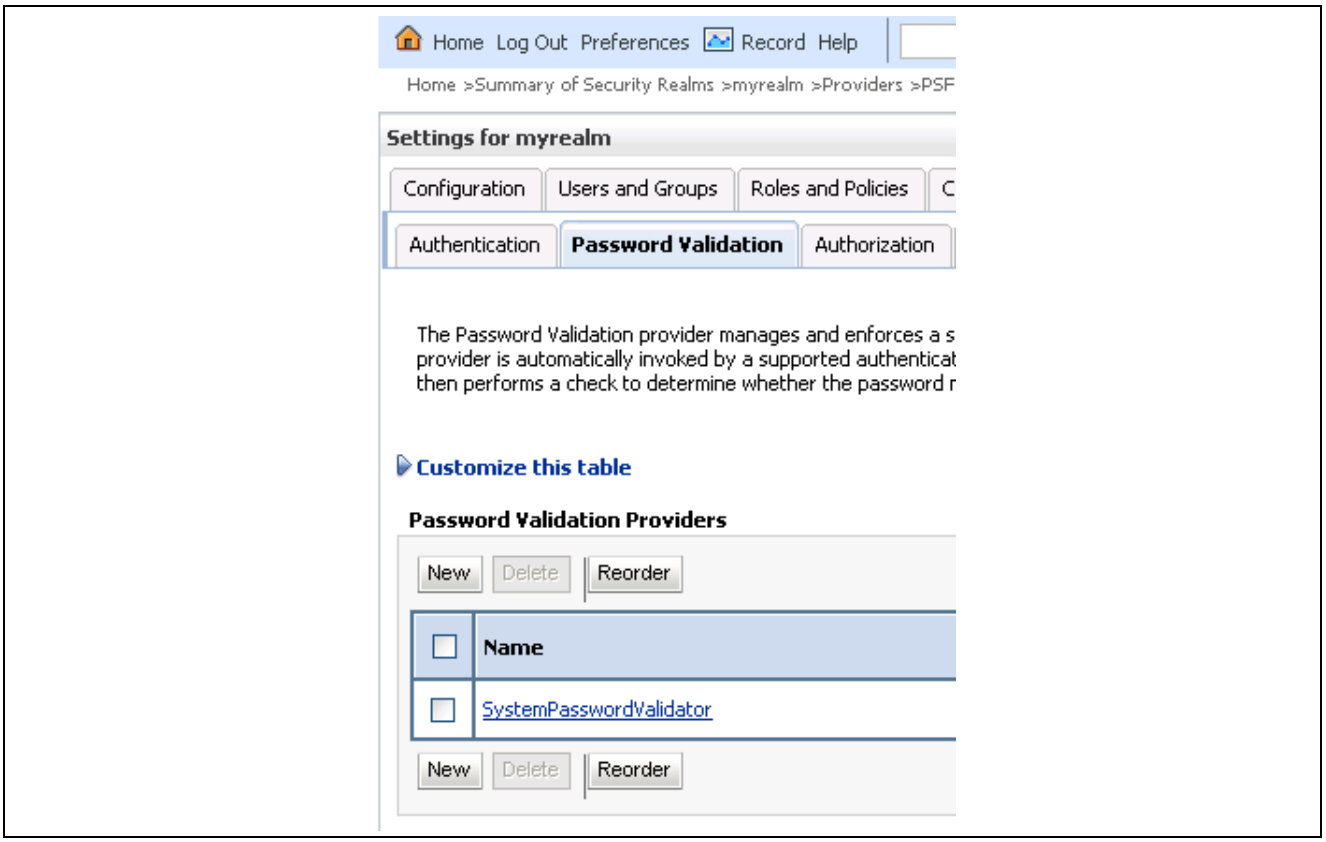

Oracle WebLogic Server Administration Console - Settings for MyRealm page

19. On the Settings for myrealm - Password Validation page, click the SystemPasswordValidator link to access the properties for that validator.

    The Oracle WebLogic Server Administration Console - Settings for SystemPasswordValidator page appears, as shown in the following example:

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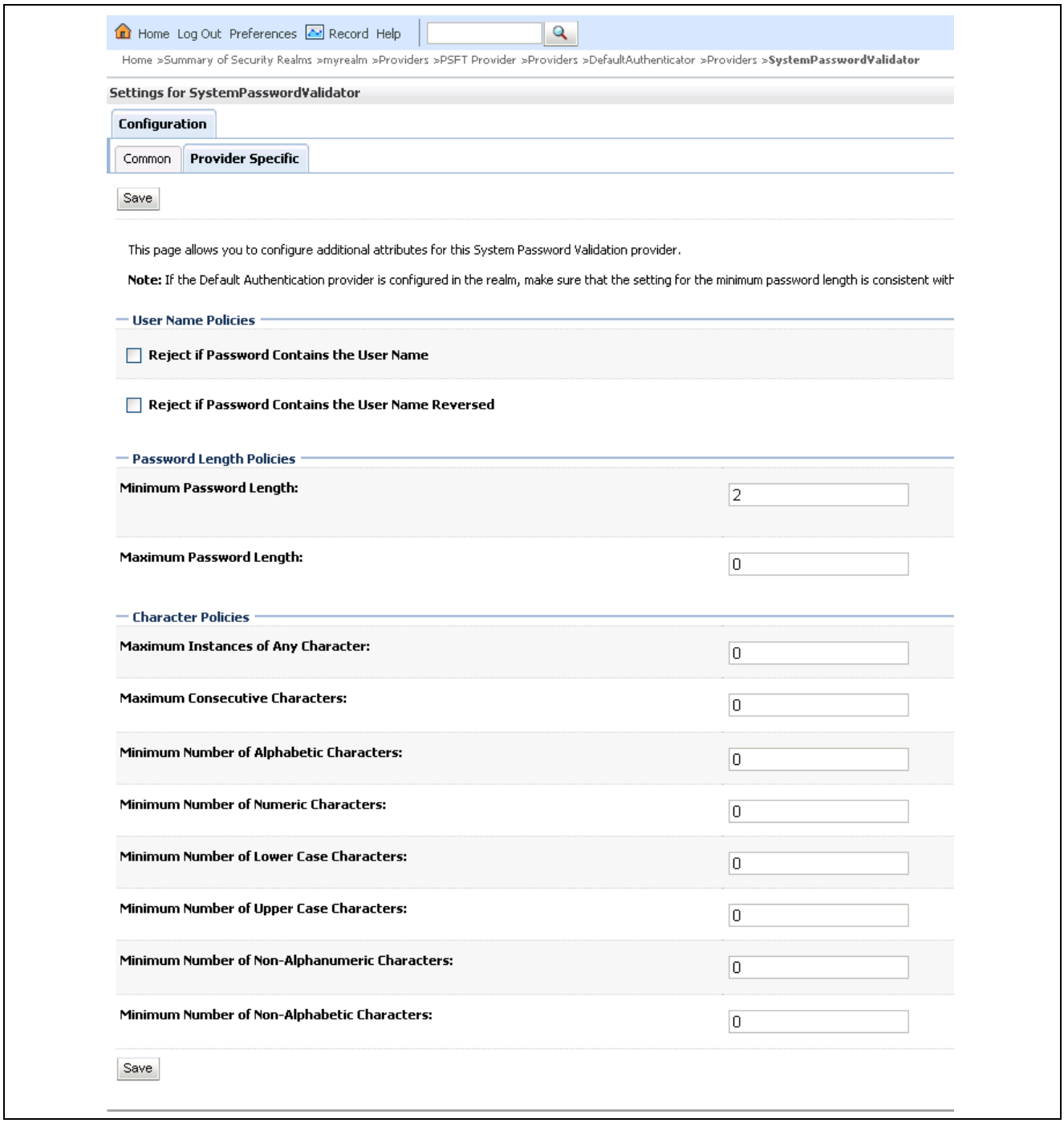

Oracle WebLogic Server Administration Console - Settings for SystemPasswordValidator page

20. On the Settings for SystemPasswordValidator page, select the Provider Specific tab and modify the properties as follows:
    - In the Minimum Password Length field, enter a value of *2*.
    - In the Minimum Number of Non-Alphabetic Characters field, enter a value of *0*.
    - Click Save.
21. To validate that the Jolt Connection is set up and working properly, add a Security Audit Log by performing the following steps *(Optional)*:

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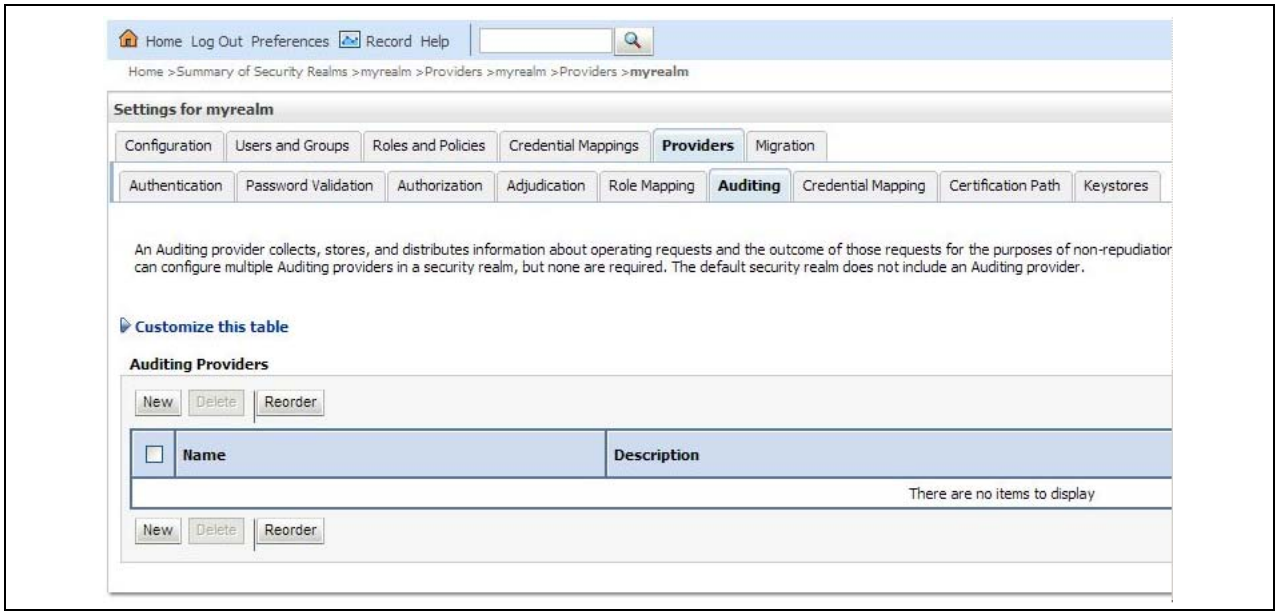
Note. Setting up a Security Audit Log is *optional* and not required to run PeopleSoft Mobile Inventory Management, however; it could be useful in tracking down connection errors, particularly after PeopleSoft PeopleTools upgrades.

a. From the Provider's page, select the Auditing tab to access the Auditing Providers page, as shown in the following example:



Settings for myrealm - Auditing Providers page

b. On the Auditing Providers page, click the New button to access the Create a New Auditing Provider setup page, as shown in the following example:

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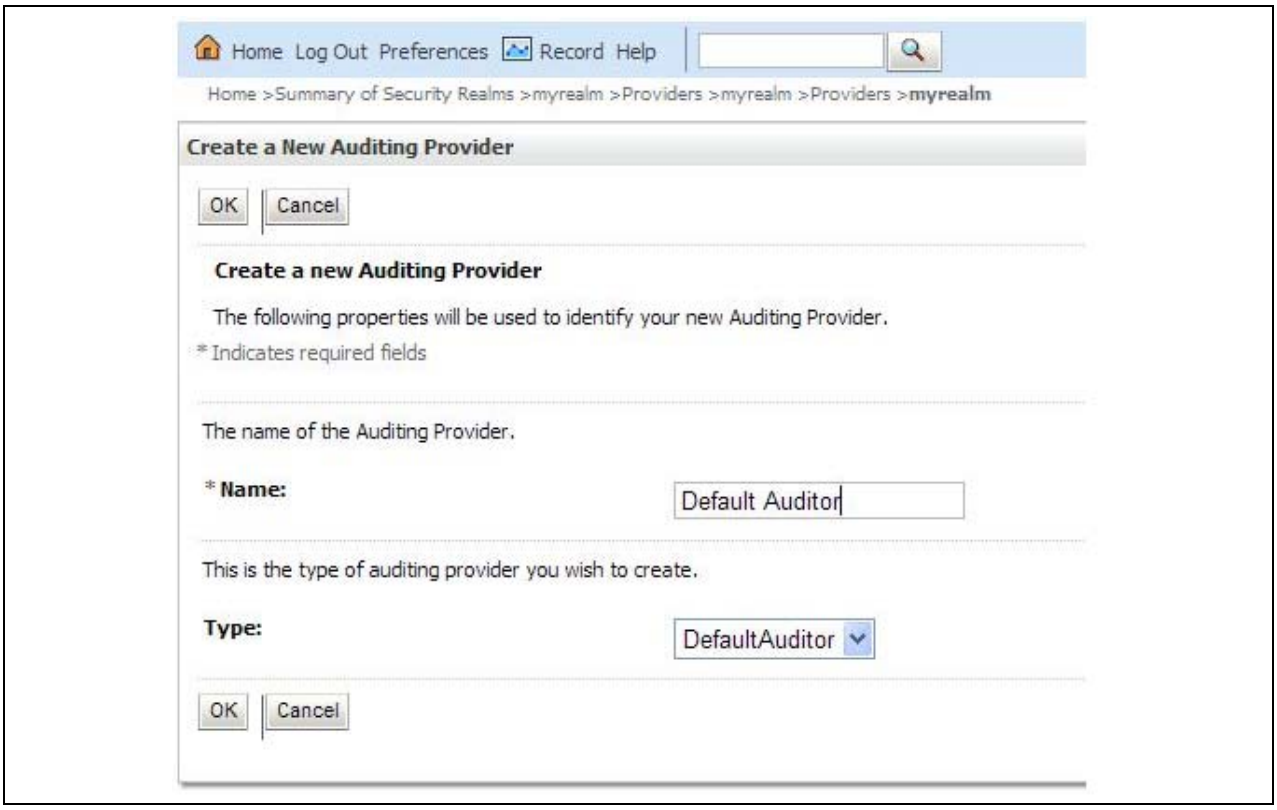

Create a New Auditing Provider page

c. On the Create a New Auditing Provider page, in the Name field enter *Default Auditor*, and in the Type field select *Default Auditor* from the drop-down list box.

d. Click OK.

e. On the Provider Specific page for the Default Auditor that you just created, in the Severity field select *Failure* from the drop-down list box, as shown in the following example:

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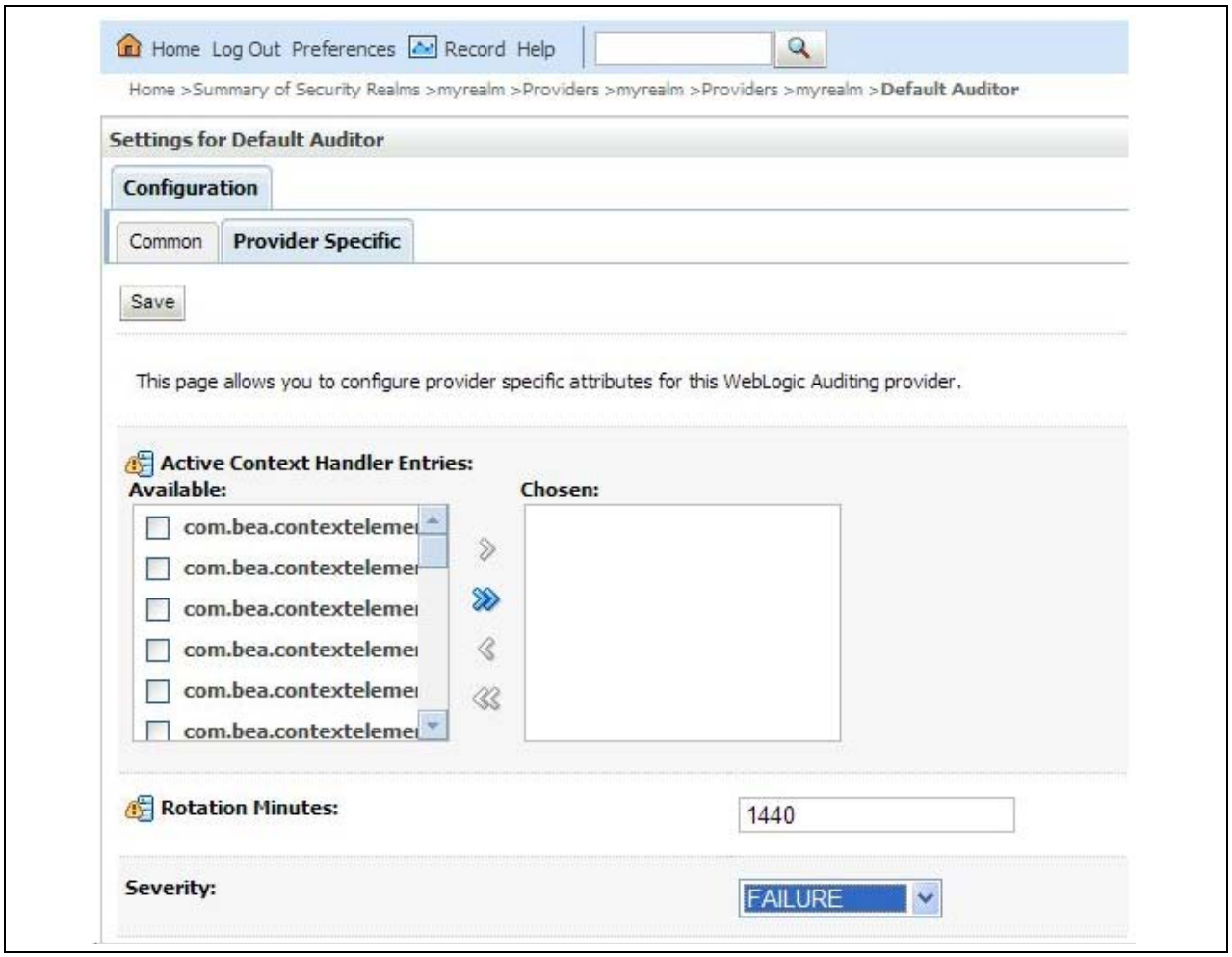

Settings for Default Auditor - Configuration: Provider Specific page

Selecting a severity level of *Failure* logs any failure to connect from the Authentication Provider to the PeopleSoft Application Server using the Jolt Connection.

f. Click Save.

22. Log out and cycle the Oracle WebLogic Server instance.

    This enables the PSFT Authentication Provider to install properly.

23. Restart the Oracle WebLogic Server instance.

Task 1-6: Installing the PeopleSoft Database

This section discusses:

- Understanding the PeopleSoft Mobile Inventory Management Installation and Set Up Within PeopleSoft
- Applying Prerequisite Project UPD860433 (Pre-Bundle 10 Only)
- Setting Up Integration with the PeopleSoft System
- Setting Up PeopleSoft Mobile Inventory Management in PeopleSoft Integration Broker

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- Granting Security to PeopleSoft Mobile Inventory Management Objects
- Rebooting the PeopleSoft Application Server
- Verifying PeopleSoft Integration Broker is Web Service Enabled for the PeopleSoft FSCM 9.1 Database
- Setting Installation Options

Understanding the PeopleSoft Mobile Inventory Management Installation and Set Up Within PeopleSoft

To use PeopleSoft Mobile Inventory Management you must complete the set up steps within your PeopleSoft environment. These steps customize PeopleSoft Mobile Inventory Management to your specific needs by setting up servers, identifying users, default values, mobile screen settings, and activating the integration points.

For more information on setting up PeopleSoft application servers and web services, refer to the following reference documents that are available on My Oracle Support:

See *PeopleSoft Enterprise PeopleTools 8.50 PeopleBook: System and Server Administration guide, for your database platform.*

See *PeopleSoft Enterprise FSCM 9.1 Mobile Inventory Management* user guide documentation.

Task 1-6-1: Applying Prerequisite Project UPD860433 (Pre-Bundle 10 Only)

Understanding Applying Prerequisite Project UPD860433 (Pre-Bundle 10 Only)

This installation is only required for PeopleSoft FSCM 9.1 Feature Pack March 2011 and PeopleSoft FSCM 9.1 Maintenance Pack 5 and Bundle 9. This project is incorporated into Bundle 10, so only required *pre*-Bundle 10.

Copying the PeopleSoft Mobile Inventory Management Project to the PeopleSoft FSCM 9.1 Database (Pre-Bundle 10 Only)

After you complete the PeopleSoft Mobile Inventory Management 9.1 installation process (from Oracle E-Delivery), the PRJ860433 project is located in the <PS_HOME>\Projects\UPD860433 directory for PeopleSoft PeopleTools.

To copy the PRJ860433 project into the PeopleSoft FSCM 9.1 database:

1. Sign in to the PeopleSoft FSCM 9.1 database using PeopleSoft Application Designer.
2. Select Tools, Copy Project, From File.
3. For your Import Directory, browse to the folder <PS_HOME>\Projects\UPD860433.
4. Highlight the PRJ860433 project, and click Select.
5. Click Options and on the Copy options tab, ensure that the English and Common options are selected.
6. Click OK.
7. Click Select All to ensure that all of the object types are selected.
8. Click Copy.

Building the PRJ860433 Project (Pre-Bundle 10 Only)

This step synchronizes the physical database structure for the tables in the PRJ860433 project.

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To build the PRJ860433 project:

1. In PeopleSoft Application Designer, open the PRJ860433 project and select Build and Project.
2. From the Build Options menu select Create/Alter Tables, and from the Build Execute Options menu select Execute and build script.
3. For the Alter Tables Settings, select the following options:
   - Drop Column if Data Present.
   - Truncate data if field too short.
   - Alter any (Select all).
   - Alter by table rename.
4. Click Settings and select the following:
   - On the Create tab, select Skip table if it already exists.
   - On the Logging tab, select Fatal errors and warnings, Log to output window, and Log to file.
   - On the Scripts tab, select Specify the output script file name.
5. Click OK to exit the Build Settings dialog box.
6. Click the Build button.

   You should receive no errors or warnings.
7. In PeopleSoft Application Designer, again using the PRJ860433 project, select Build and Project.
8. From the Build Options menu select Create Views, and from the Build Execute Options menu select Execute and build script.
9. Click Settings and select the following:
   - On the Create tab, select Recreate View if it already exists.
   - On the Logging tab, select Fatal errors and warnings, Log to output window, and Log to file.
   - On the Scripts tab, select Specify the output script file name.
10. Click OK to exit the Build Settings dialog.
11. Click Build.

    You should receive no errors or warnings.

Installing Additional Database Changes Using PeopleSoft Data Mover (Pre-Bundle 10 Only)

Run the DMS scripts for PeopleSoft Mobile Inventory Management 9.1 in PeopleSoft Data Mover to install additional database changes. These DMS scripts are listed in the following table:

DMS File Name	Data File	Description
UPD860433_SYSDATA.DMS	UPD860433_SYSDATA.DAT	System Data

The DMS and Data file are located in the scripts and data directory respectively.:

<PS_HOME>\scripts\upd860433_sysdata.dms

<PS_HOME>\data\upd860433_sysdata.dat

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Important! After you open the DMS script in PeopleSoft Data Mover, you need to qualify the location of the DAT file.

For Example:

set input c:\pt850\data\UPD860433_SYSDATA.dat;

Task 1-6-2: Setting Up Integration with the PeopleSoft System

This section discusses:

- Configuring the PeopleSoft Integration Broker for the Gateway
- Configuring the PeopleSoft Integration Broker for Web Services
- Configuring the PeopleSoft Integration Broker Domain
- Activating GETWSDL Service Operation Routing

The following steps detail the set up and integratation with your PeopleSoft system for use with PeopleSoft Mobile Inventory Management.

Configuring the PeopleSoft Integration Broker for the Gateway

You must update the PeopleSoft Integration Broker Gateway to recognize your PeopleSoft application server.

To configure the PeopleSoft Integration Broker Gateway:

1. Log in to your PeopleSoft application.
2. Select PeopleTools, Integration Broker, Configuration, Quick Configuration.

   The Integration Broker Quick Configuration page appears, as shown in the following example:

Integration Broker Quick Configuration page

3. Complete the URL by replacing the <*webserver:port*> tokens with your Gateway webserver name and port.
4. Click Save.

   The message “The Gateway URL has changed. Connector information will be refreshed” appears. Click OK.
5. Click the Ping Gateway button.

   The Peoplesoft Integration Gateway page should appear in a new browser window. Close the window.
6. Click the Advanced Gateway Setup link to open the Gateways page.

   The Gateways page appears.
7. On the Gateways page, click the Gateway Setup Properties link.

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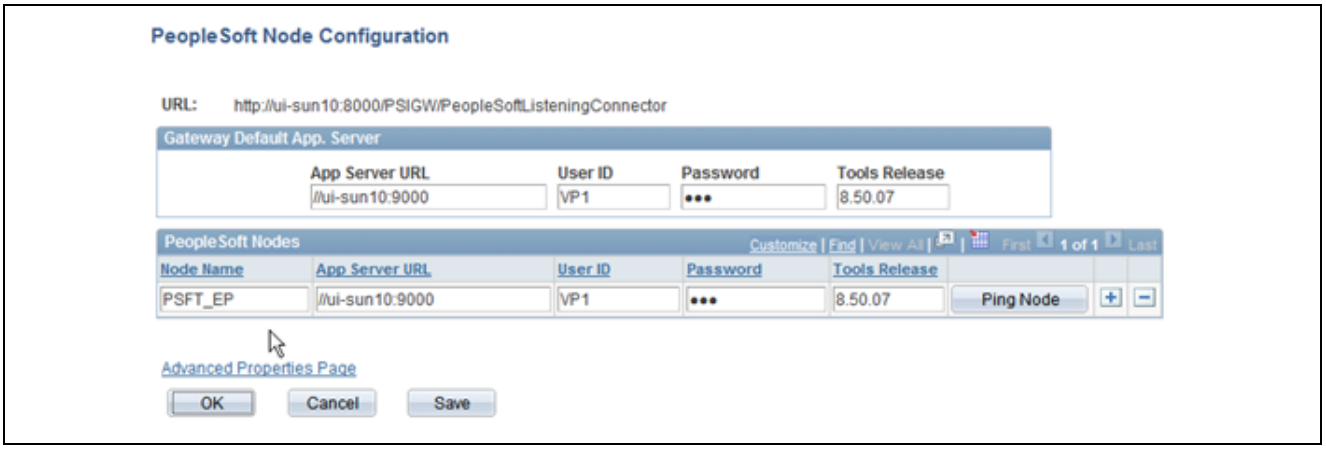
The system prompts you to enter a user ID and password.

8. In the User ID field, enter *administrator* and in the Password field, enter *password*.

   The PeopleSoft Node Configuration page appears, as shown in the following example:



PeopleSoft Node Configuration page

9. On the Peoplesoft Node Configuration page, in the Gateway Default App. Server section, do the following:
   a. In the App Server URL field, enter your application server name and port.
   b. In the User ID and Password fields, enter the user ID and password of a SuperUser in your system (typically *VP1/VP1*).
   c. In the Tools Release field, enter the complete PeopleSoft PeopleTools version that you are running.

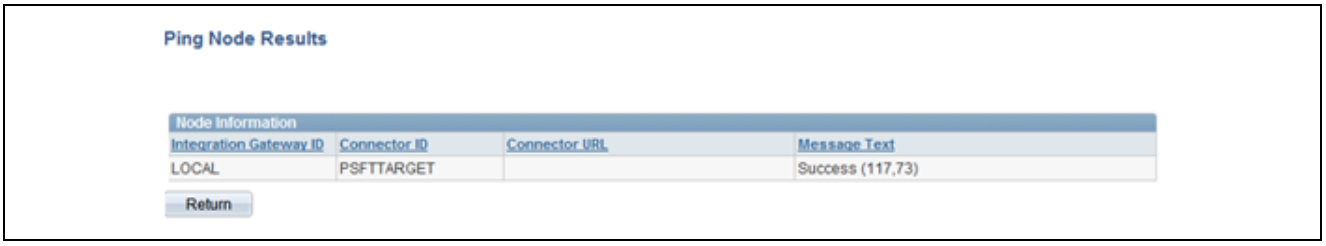
      For example: *8.50.07*

10. In the PeopleSoft Nodes section, in the Node Name field, enter the local node name, *PSFT_EP*.
11. Configure the remaining fields for the local node as follows:
    a. In the App Server URL field, enter your application server name and port.
    b. In the User ID and Password fields, enter the user ID and password of a SuperUser in your system (typically *VP1/VP1*).
    c. In the Tools Release field, enter the complete PeopleSoft PeopleTools version that you are running.

       For example: *8.50.07*

12. Click Save.
13. Click the Ping Node button on the Local Node and verify that it returns a response of Success.

    The Ping Node Results page appears showing Success in the Message Text column.



Ping Node Results page

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Configuring the PeopleSoft Integration Broker for Web Services

To set up the service configuration for web services:

1. Select PeopleTools, Integration Broker, Configuration, Quick Configuration.

   The Integration Broker Quick Configuration page appears.

2. On the Quick Configuration page, click the Service Configuration link to access the Service Configuration page.

3. On the Service Configuration page, complete the Target Location URL (as shown in the previous example) by replacing the <*machine:port*> tokens with your Gateway name and port. In addition, replace the <defaultlocalnode> with the default local node.

   Do the following:

   a. Enter the machine name where PeopleSoft PeopleTools is installed.

   b. Enter the HTTP port number for the web server.

   c. Append the default local node to the end (PSFT_EP is the default value).

      The following example uses ui-sun10, 8000 and PSFT_EP:

      http://ui-sun10:8000/PSIGW/PeopleSoftServiceListeningConnector/PSFT_EP

      You will use this URL and port during the deployment step of PeopleSoft Mobile Inventory Management.

4. If the system prompts you to update UDDI servers, click Yes.

Configuring the PeopleSoft Integration Broker Domain

To process asynchronous messages, one application server domain must be active. If inactive, use the Domain Status drop-down list box to activate the appropriate domain.

Note. The application server should be setup and configured with Pub/Sub turned On.

Before you can use the pub/sub system, you must activate the domain on which a pub/sub server resides.

To activate a domain:

1. Select PeopleTools, Integration Broker, Service Operations Monitor, Administration, Domain Status.

   The Domain Status page appears.

2. In the Domains group box, do the following:

   a. Locate the row that lists the machine where the domain resides that you want to activate.

   b. In the Domain Status field, select *Active* from the drop-down list box.

3. Click the Update button.

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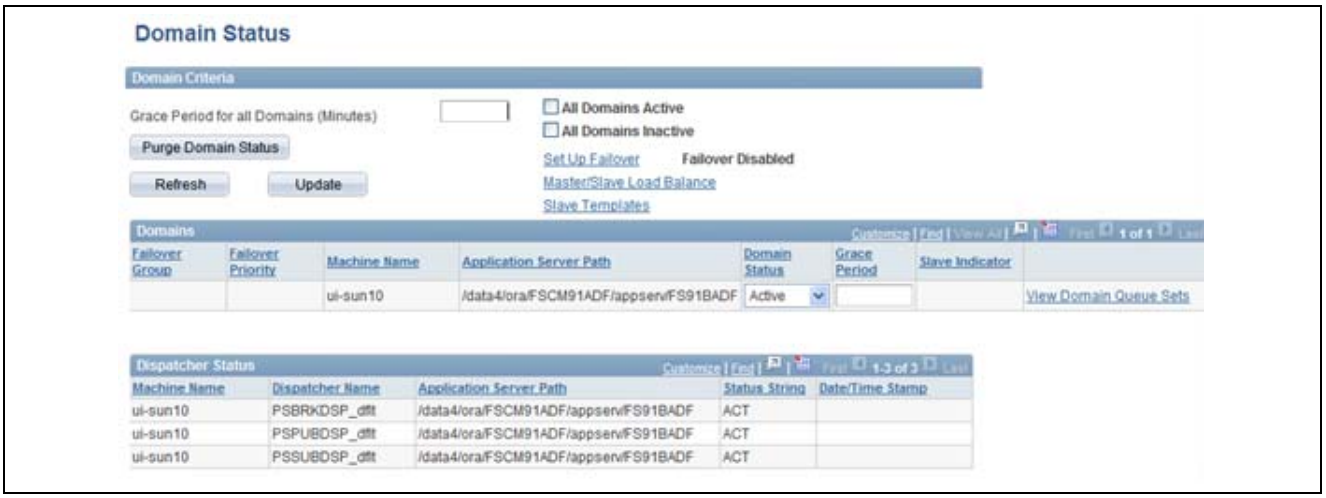


Domain Status page

Activating GETWSDL Service Operation Routing

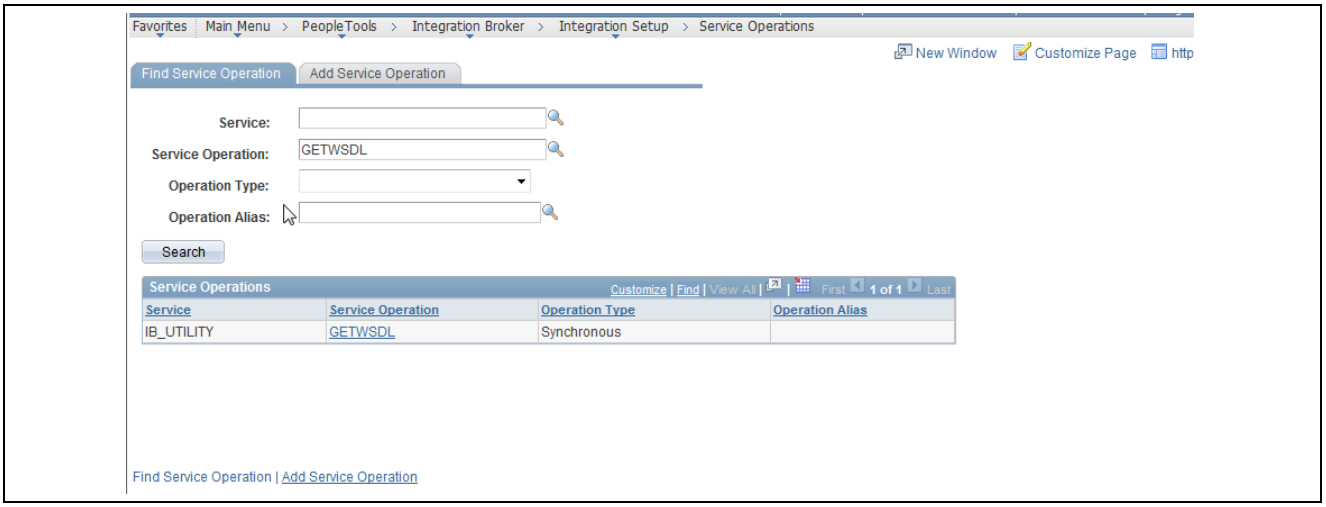
To activate the GETWSDL service operation routing:

1. Select PeopleTools, Integration Broker, Integration Setup, Service Operations.

   The Service Operations search page appears.

2. On the Service Operations search - Find Service Operation page, in the Service Operation field, enter *GETWSDL*.

3. In the search results grid, click the GETWSDL link to access the GETWSDL service operation of the IB_UTILITY service, as shown in the following example:



Service Operations - Find Service Operation search page

4. On the Service Operations General page for GETWSDL, select the Routings tab to access the Routings page for GETWSDL, as shown in the following example:

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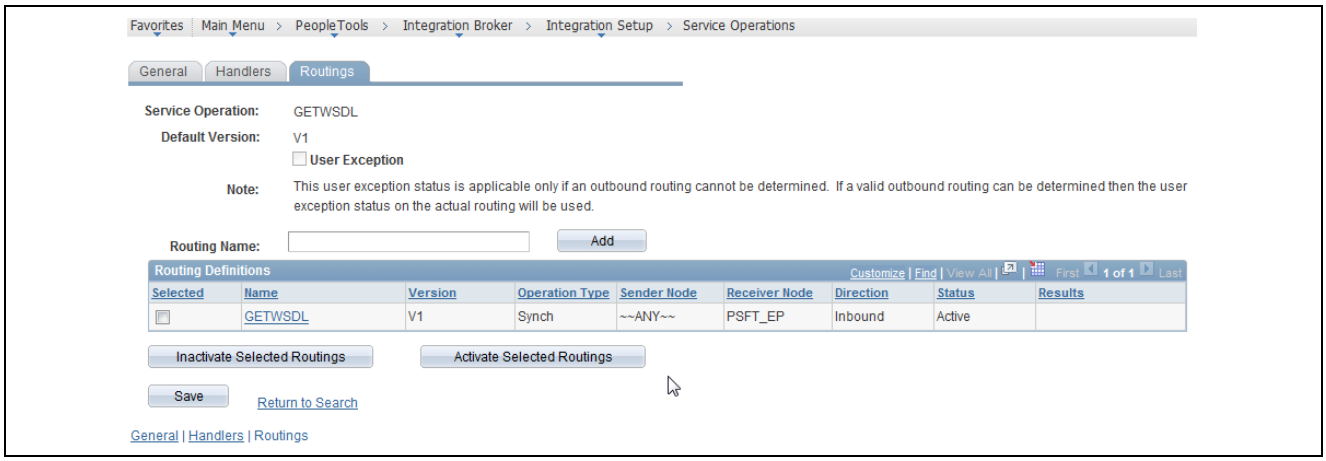

Service Operations - Routings page for GETWSDL

5. On the Routings page, in the Routing Definitions group box, select the check box next to GETWSDL to activate the Inbound routing (if it is not already showing a Status of Active).
6. Click the Activate Selected Routing button.
7. Click Save.

Task 1-6-3: Setting Up PeopleSoft Mobile Inventory Management in PeopleSoft Integration Broker

The integration between PeopleSoft and the mobile device involves the use of service operations within the PeopleSoft Integration Broker. The following table lists the services with their corresponding description, used by task flow and component interface that PeopleSoft Mobile Inventory Management uses:

Services	Description	Used by Task Flows	Component Interface
MIN_CART_COUNT_GET	Get Par Locations for Mobile	Par Count	CART_COUNT_INV
MIN_CART_COUNT_GET	Get Par Locations for Mobile	Par Count Ad Hoc	CART_COUNT_INV
MIN_CART_COUNT_SAVE	Save Par Locations for Mobile	Par Count	CART_COUNT_INV
MIN_CART_COUNT_SAVE	Save Par Locations for Mobile	Par Count Ad Hoc	CART_COUNT_INV
MIN_COUNTING_EVENT_VALIDATE	Inventory Counting Event Validation	Guided Count	N/A
MIN_COUNTING_EVENT_VALIDATE	Inventory Counting Event Validation	Count By Item	N/A
MIN_COUNTING_EVENT_VALIDATE	Inventory Counting Event Validation	Count By Location	N/A
MIN_COUNTING_EVENT_VALIDATE	Inventory Counting Event Validation	Manual Count	N/A
MIN_COUNTING_EVENT_GET	Inventory Counting Event Get	Guided Count	N/A
MIN_COUNTING_EVENT_GET	Inventory Counting Event Get	Count By Item	N/A

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Services	Description	Used by Task Flows	Component Interface
MIN_COUNTING_ EVENT_GET	Inventory Counting Event Get	Count By Location	N/A
MIN_COUNTING_ EVENT_GET	Inventory Counting Event Get	Manual Count	N/A
MIN_COUNTING_ EVENT_SET	Inventory Counting Event Set	Guided Count	COUNT_INV_CI used by Guided Count, Count by Item and Count by Location.
MIN_COUNTING_ EVENT_SET	Inventory Counting Event Set	Count By Item	COUNT_INV_CI used by Guided Count, Count by Item and Count by Location.
MIN_COUNTING_ EVENT_SET	Inventory Counting Event Set	Count By Location	COUNT_INV_CI used by Guided Count, Count by Item and Count by Location.
MIN_COUNTING_ EVENT_SET	Inventory Counting Event Set	Manual Count	COUNT_INV_INF used by Manual Count.
MIN_EXPRESS_ISSUE	Express Issue for Mobile	Express Issue	EXPRESS_ISSUE_INV_CI
MIN_EXPRESS_ISSUE_ VALIDATE	Express Issue fo Mobile Validation	Express Issue	N/A
MIN_ITEM_STK_INQ	Item Stock Inquiry for Mobile	Item Stock Inquiry	PUTAWAY_INQ_INV
MIN_LOOKUP_ GENERIC_GET	Generic Lookup for Mobile	All	N/A
MIN_MENU	Mobile Menu Service	All	N/A
MIN_NPRCPT_SAVE	Mobile Non-PO Receipt Service	Receiving	MIN_NPO_RECV_CI
MIN_NPRCPT_SAVE	Mobile Non-PO Receipt Service	Receiving Ad Hoc	MIN_NPO_RECV_CI
MIN_OPTIONS	Mobile Inventory Options	All	N/A
MIN_PROMPT_EDIT	Prompt table Edit Service	Receiving PO	N/A
MIN_PROMPT_EDIT	Prompt table Edit Service	Receiving Ad Hoc	N/A
MIN_RCPT_CNTR_GET	Mobile Receiving Get	Receiving PO	PO_RECEIPT_CI
MIN_RCPT_CNTR_SAVE	Mobile Receiving Save	Receiving PO	MIN_PO_RECV_CI
MIN_RECV_DELIVERY	Mobile Delivery Get	Delivery	RECV_DELIVERY_CI
MIN_RECV_DELIVERY_ SAVE	Mobile Delivery Save	Delivery	RECV_DELIVERY_CI

To activate the synchronous service operations for PeopleSoft Mobile Inventory Management, complete the following steps in the PeopleSoft Integration Broker for each service listed in the preceding table:

1. Activate the service operation:
   a. Select PeopleTools, Integration Broker, Integration Setup, Service Operations.

      The Service Operations - General page appears, as shown in the following example:

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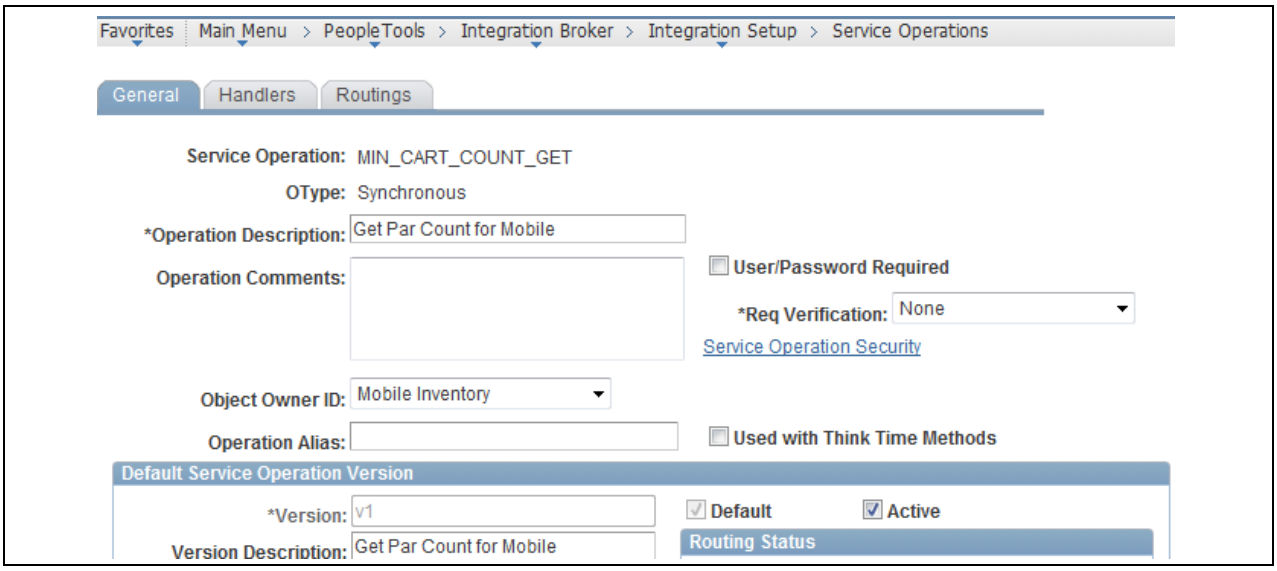


Service Operations - General page

b. On the Service Operations - General page, in the Default Service Operation Version group box, select the *Active* check box for the applicable service operation version.

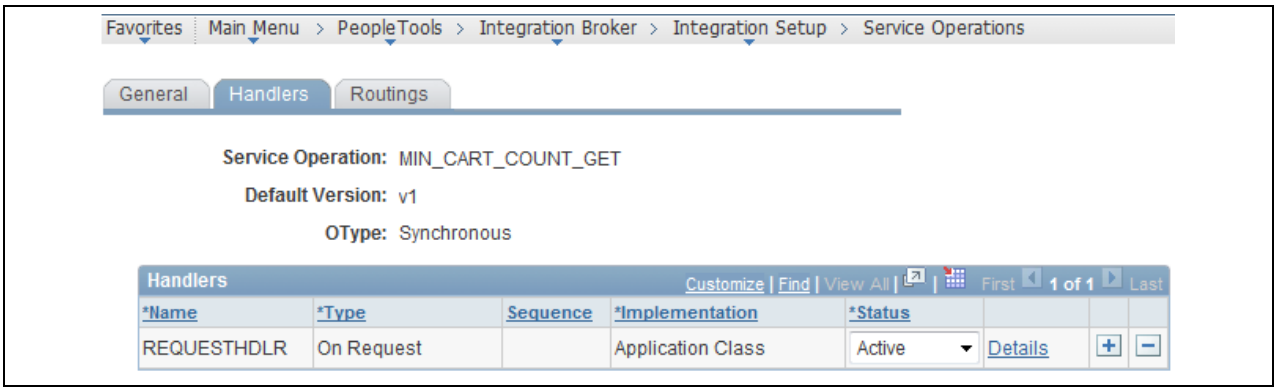
For example: *v1*

c. If the desired version is not the default version for the service operation, you must also activate the default version.

2. Activate the service operation handlers:

a. Select PeopleTools, Integration Broker, Integration Setup, Service Operations.

The Service Operations - Handlers page appears, as shown in the following example:



Service Operations - Handlers page

b. On the Service Operations - Handlers page, in the Handlers group box, select *Active* from the Status drop-down list box for all required handlers.

c. For inbound synchronous service operations, activate the OnRequest handler.

3. Activate the service operation routings:

a. Select PeopleTools, Integration Broker, Integration Setup, Service Operations.

The Service Operations - Routings page appears, as shown in the following example:

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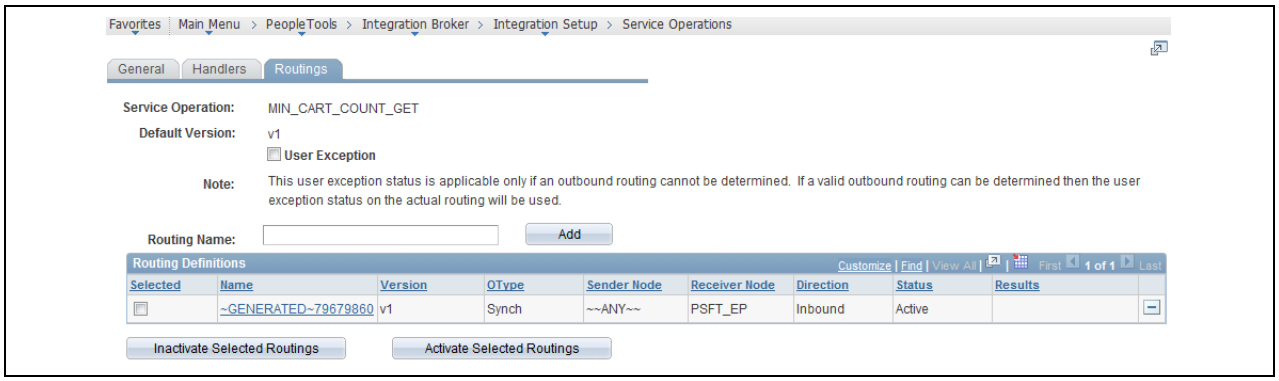

Service Operations - Routings page

b. On the Service Operations - Routings page, activate a routing definition for each node that sends or receives data.

   To activate a routing, select the check box next to the routing definition and click the Activate Selected Routings button. You must activate at least one routing if the data is being sent in an XML format.

c. Activate an inbound routing to receive data into PeopleSoft.

See *PeopleSoft Enterprise PeopleTools 8.50 PeopleBook: PeopleSoft Integration Broker*.

Task 1-6-4: Granting Security to PeopleSoft Mobile Inventory Management Objects

This section discusses:

- Adding the MIN_MENU Menu to the ALLPAGES Permission List
- Granting Authority to ALLPAGES
- Setting Up the Default SuperUser VP1 to Access the MIN Adminstrator Role
- Granting Security to PeopleSoft Mobile Inventory Management Objects

Use the Portal Security Sync from PeopleSoft Pure Internet Architecture to grant security to PeopleSoft Mobile Inventory Management 9.1 objects.

Adding the MIN_MENU Menu to the ALLPAGES Permission List

You must add the MIN_MENU menu to the ALLPAGES permission list.

To add the MIN_MENU menu to the ALLPAGES permission list:

1. Select PeopleTools, Security, Permissions & Roles, Permission Lists.
2. Select the Pages tab and add MIN_MENU to the ALLPAGES Permission List, as shown in the following example:

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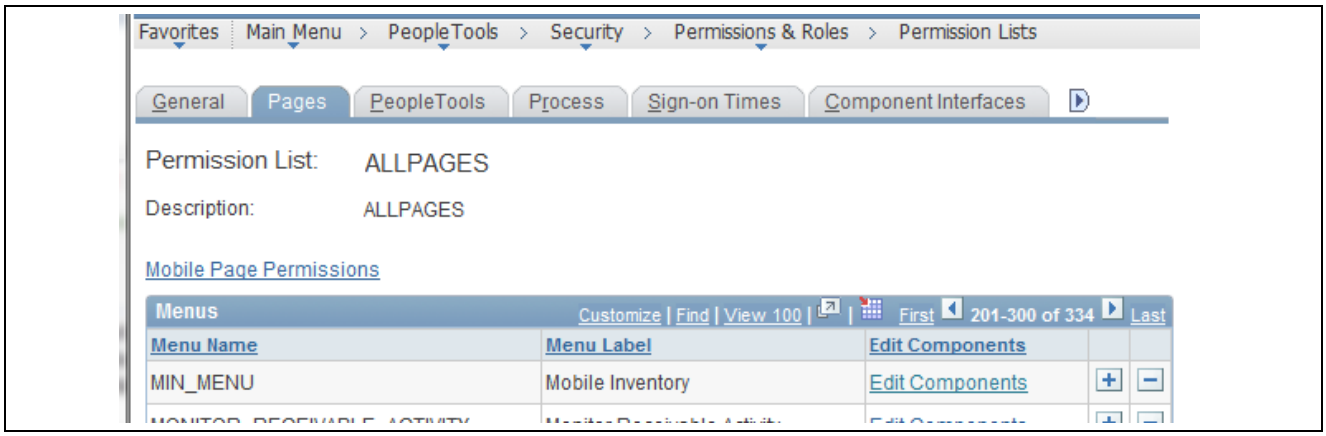
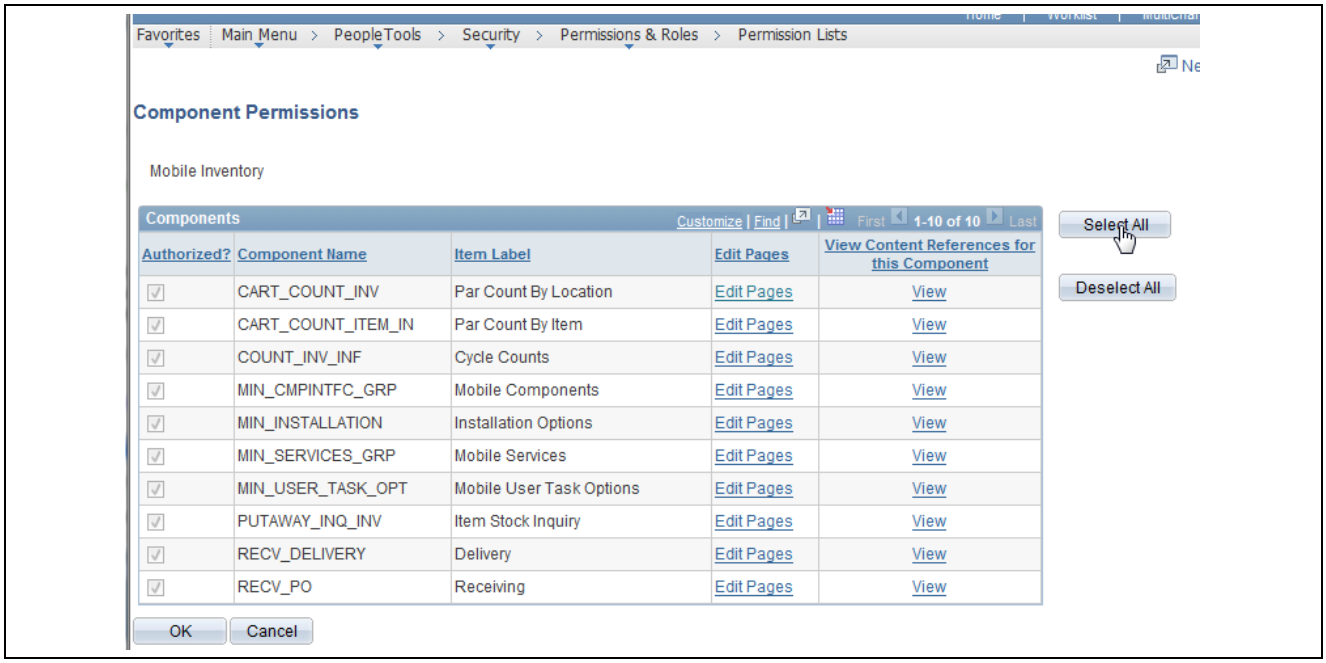


Permission Lists - Pages: ALLPAGES

3. Click the Edit Components link next to the Mobile Inventory menu label.

   The Component Permissions page appears, as shown in the following example:



Permissions Lists - Component Permissions for Mobile Inventory page

4. On the Component Permissions page, click the Select All button to grant access to all pages in that menu.

Granting Authority to ALLPAGES

You must grant authority in ALLPAGES to the following pages:

- DEFINE_GENERAL_OPTIONS>INSTALLATION>Mobile Inventory
- DEFINE_GENERAL_OPTIONS>OPR_DEFAULT>Mobile Inventory

To grant authority in ALLPAGES:

1. Select PeopleTools, Security, Permissions & Roles, Permission Lists.
2. Select the Pages tab and scroll to the DEFINE_GENERAL_OPTIONS component.

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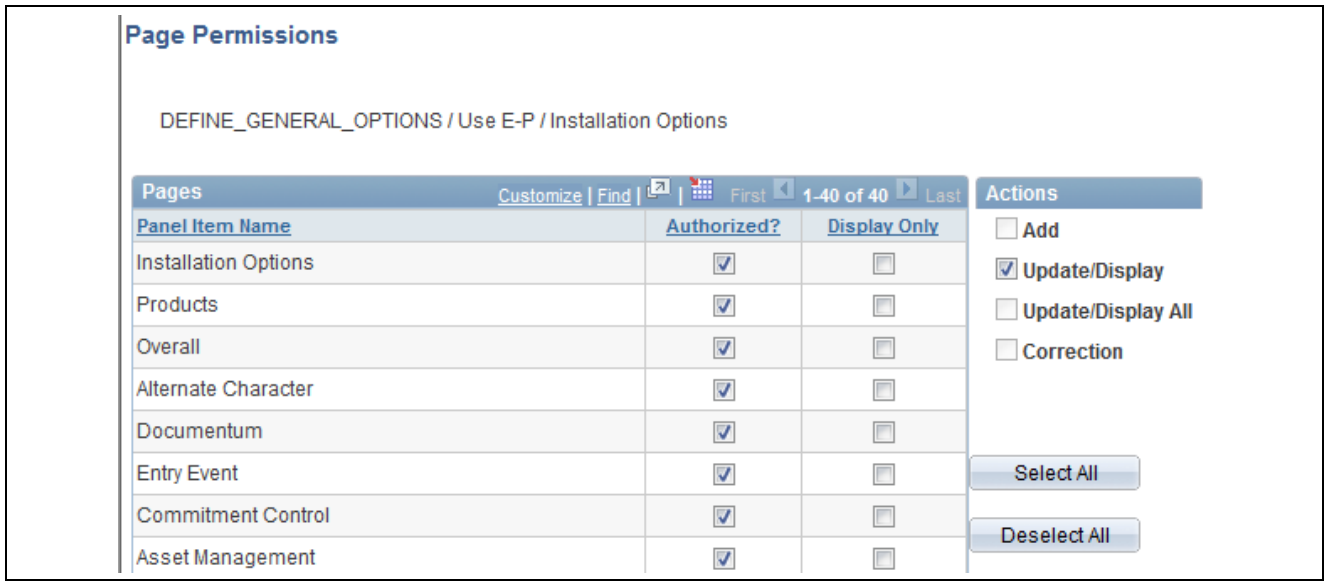
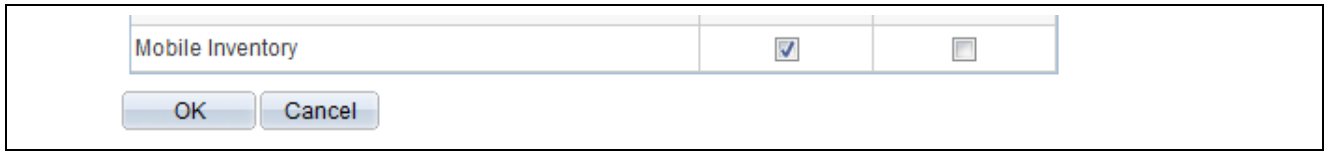
3. Next to the DEFINE_GENERAL_OPTIONS component, click the Edit pages link on the Installation Component to access and authorize the Mobile Inventory menu.

   The following shows an example of the Page Permissions page for DEFINE_GENERAL_OPTIONS:



Page Permissions - 1 of 2

4. Scroll to Mobile Inventory and select the Authorized check box, as shown in the following example:



Page Permissions - 2 of 2

5. Click OK.

   You are returned to the Pages page and the grid that lists the components, as shown in the following example:

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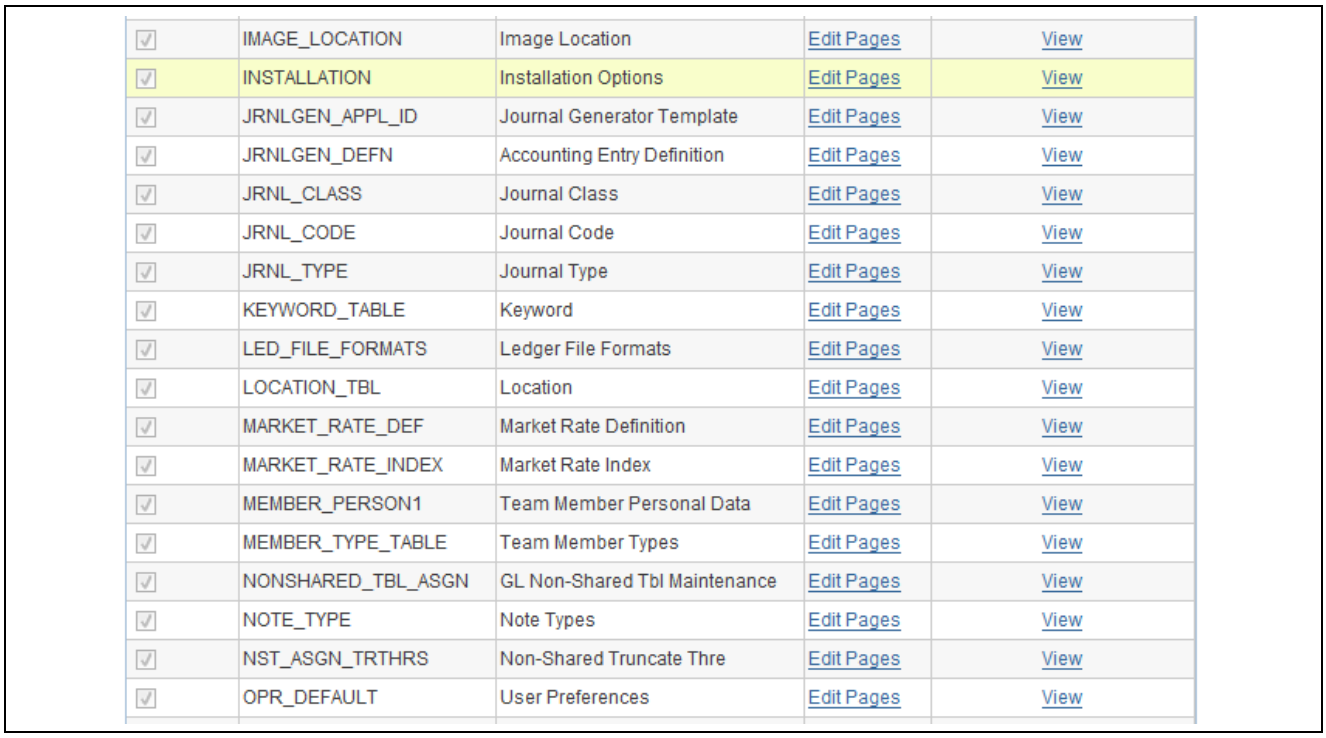

☑	IMAGE_LOCATION	Image Location	Edit Pages	View
☑	INSTALLATION	Installation Options	Edit Pages	View
☑	JRNLGEN_APPL_ID	Journal Generator Template	Edit Pages	View
☑	JRNLGEN_DEFN	Accounting Entry Definition	Edit Pages	View
☑	JRNL_CLASS	Journal Class	Edit Pages	View
☑	JRNL_CODE	Journal Code	Edit Pages	View
☑	JRNL_TYPE	Journal Type	Edit Pages	View
☑	KEYWORD_TABLE	Keyword	Edit Pages	View
☑	LED_FILE_FORMATS	Ledger File Formats	Edit Pages	View
☑	LOCATION_TBL	Location	Edit Pages	View
☑	MARKET_RATE_DEF	Market Rate Definition	Edit Pages	View
☑	MARKET_RATE_INDEX	Market Rate Index	Edit Pages	View
☑	MEMBER_PERSON1	Team Member Personal Data	Edit Pages	View
☑	MEMBER_TYPE_TABLE	Team Member Types	Edit Pages	View
☑	NONSHARED_TBL_ASGN	GL Non-Shared Tbl Maintenance	Edit Pages	View
☑	NOTE_TYPE	Note Types	Edit Pages	View
☑	NST_ASGN_TRTHRS	Non-Shared Truncate Thre	Edit Pages	View
☑	OPR_DEFAULT	User Preferences	Edit Pages	View

Pages page - Showing grid and component list

6. From the components grid, next to the OPR_DEFAULT component, click the Edit pages link on the Installation Component to access and authorize the Mobile Inventory menu.
7. Scroll to Mobile Inventory and select the Authorized check box.
8. Click OK, click OK again, and then click Save.

Setting Up the Default SuperUser VP1 to Access the MIN Adminstrator Role

To set up the default SuperUser VP1 to access the MIN Adminstrator role:

1. Select PeopleTools, Security, User Profiles, User Profiles.

   The User Profile search page appears.
2. On the User Profile - Find an Existing Value tab, in the User ID field, enter or select *VP1*.

   The User Profiles - General page for user ID VP1 appears.
3. On the User Profiles - General page, select the Roles tab to access the Roles page, as shown in the following example:

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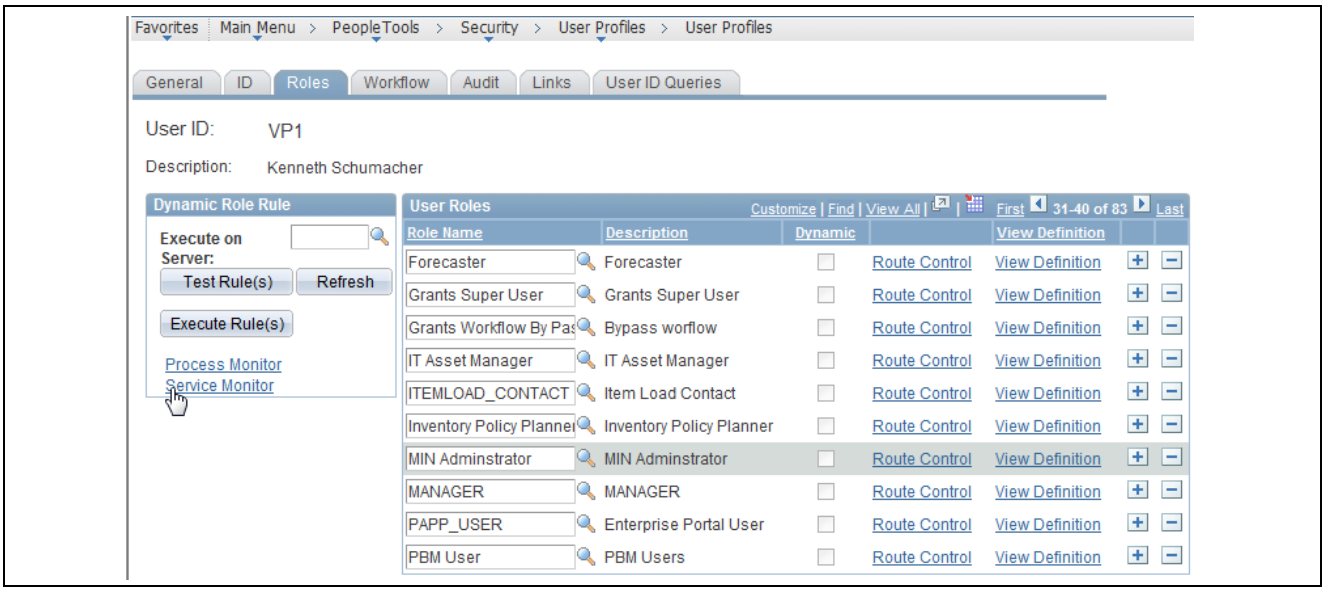

User Profiles - Roles page

4. On the Roles page, next to the role name MIN Adminstrator, click the Add (+) button to add the MIN Adminstrator role to the VP1 user.
5. Click OK, then click Save.

Granting Security to PeopleSoft Mobile Inventory Management Objects

To grant security to PeopleSoft Mobile Inventory Management Objects:

1. Select PeopleTools, Portal, Portal Security Sync.
2. Select Run Control ID PORTAL_CSS.

   If this run control ID is not already present, select the Add a new value tab and add this run control value.
3. Select the Delete invalid security check box.
4. Click Run.
5. Click OK.

Task 1-6-5: Rebooting the PeopleSoft Application Server

After you complete the PeopleSoft Mobile Inventory Management 9.1 installation, you must shut down the PeopleSoft Application server, clear the cache and then restart the server.

Task 1-6-6: Verifying PeopleSoft Integration Broker is Web Service Enabled for the PeopleSoft FSCM 9.1 Database

After you complete the PeopleSoft Mobile Inventory Management 9.1 installation process, verify that PeopleSoft Integration Broker is configured for Web Services. Web Services are required for the Web Services Description Language (WSDL) that is used to communicate between PeopleSoft and the Mobile Inventory Web Server. Details on how to configure PeopleSoft Integration Broker and Web Services can be found in the PeopleSoft PeopleTools Installation Guide, available on My Oracle Support.

The following provides an example of a quick test for the PeopleSoft Integration Broker:

Quick Test for the PeopleSoft Integration Broker:

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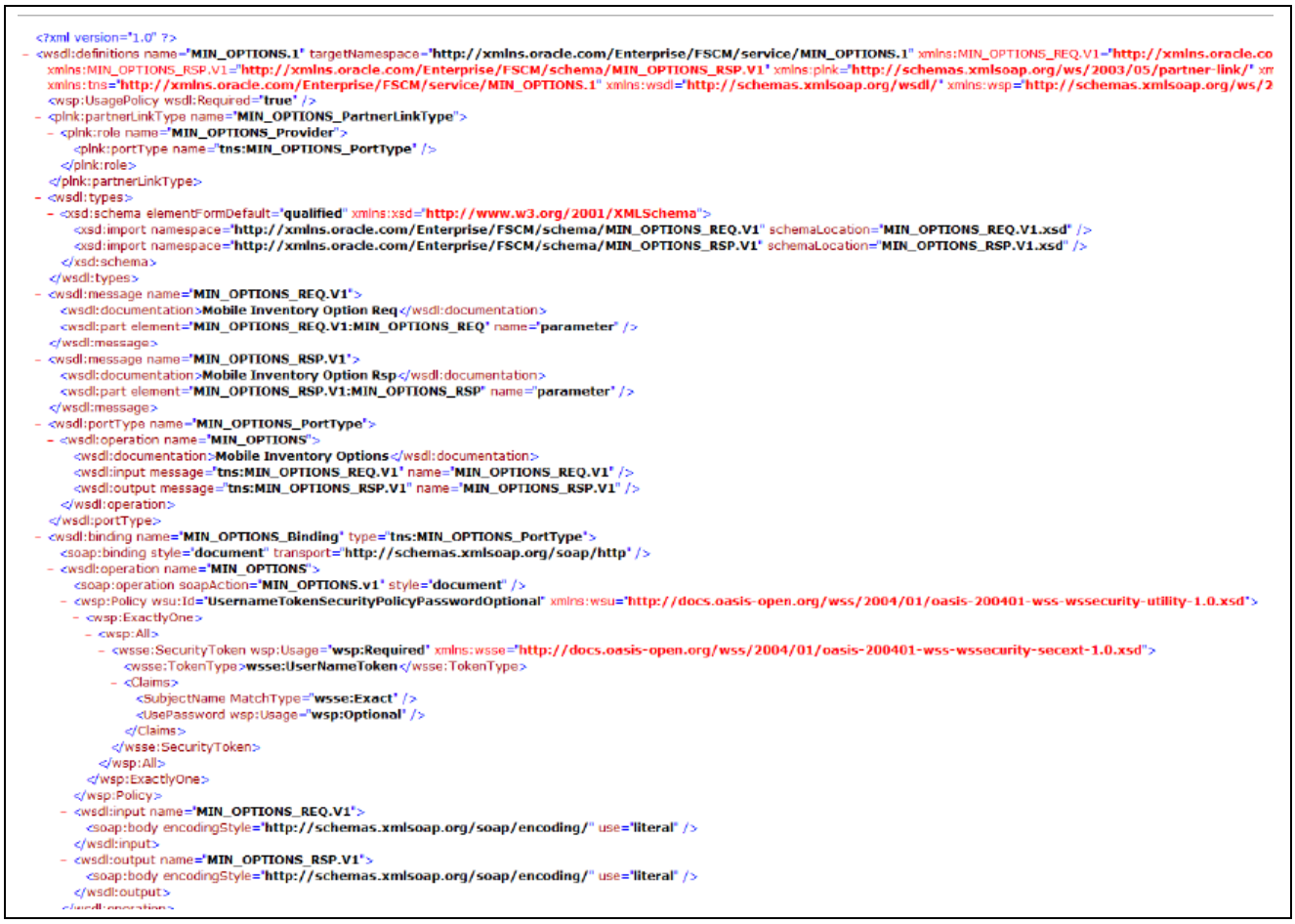
If the PeopleSoft Integration Broker is configured properly, the following URL should produce output similar to the example that follows:

http://machineNamePort/PSIGW/PeopleSoftServiceListeningConnector/PSFT_EP/MIN_OPTIONS.1.wsdl



```
<?xml version="1.0" ?>
- <wsdl:definitions name="MIN_OPTIONS.1" targetNamespace="http://xmlns.oracle.com/Enterprise/FSCM/service/MIN_OPTIONS.1" xmlns:MIN_OPTIONS_REQ.V1="http://xmlns.oracle.co
  xmlns:MIN_OPTIONS_RSP.V1="http://xmlns.oracle.com/Enterprise/FSCM/schema/MIN_OPTIONS_RSP.V1" xmlns:plnk="http://schemas.xmlsoap.org/ws/2003/05/partner-link/" xm
  xmlns:tns="http://xmlns.oracle.com/Enterprise/FSCM/service/MIN_OPTIONS.1" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" xmlns:wsp="http://schemas.xmlsoap.org/ws/2
  <wsp:UsagePolicy wsdl:Required="true" />
- <plnk:partnerLinkType name="MIN_OPTIONS_PartnerLinkType">
  - <plnk:role name="MIN_OPTIONS_Provider">
      <plnk:portType name="tns:MIN_OPTIONS_PortType" />
    </plnk:role>
  </plnk:partnerLinkType>
- <wsdl:types>
  - <xsd:schema elementFormDefault="qualified" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <xsd:import namespace="http://xmlns.oracle.com/Enterprise/FSCM/schema/MIN_OPTIONS_REQ.V1" schemaLocation="MIN_OPTIONS_REQ.V1.xsd" />
      <xsd:import namespace="http://xmlns.oracle.com/Enterprise/FSCM/schema/MIN_OPTIONS_RSP.V1" schemaLocation="MIN_OPTIONS_RSP.V1.xsd" />
    </xsd:schema>
  </wsdl:types>
- <wsdl:message name="MIN_OPTIONS_REQ.V1">
    <wsdl:documentation>Mobile Inventory Option Req</wsdl:documentation>
    <wsdl:part element="MIN_OPTIONS_REQ.V1:MIN_OPTIONS_REQ" name="parameter" />
  </wsdl:message>
- <wsdl:message name="MIN_OPTIONS_RSP.V1">
    <wsdl:documentation>Mobile Inventory Option Rsp</wsdl:documentation>
    <wsdl:part element="MIN_OPTIONS_RSP.V1:MIN_OPTIONS_RSP" name="parameter" />
  </wsdl:message>
- <wsdl:portType name="MIN_OPTIONS_PortType">
  - <wsdl:operation name="MIN_OPTIONS">
      <wsdl:documentation>Mobile Inventory Options</wsdl:documentation>
      <wsdl:input message="tns:MIN_OPTIONS_REQ.V1" name="MIN_OPTIONS_REQ.V1" />
      <wsdl:output message="tns:MIN_OPTIONS_RSP.V1" name="MIN_OPTIONS_RSP.V1" />
    </wsdl:operation>
  </wsdl:portType>
- <wsdl:binding name="MIN_OPTIONS_Binding" type="tns:MIN_OPTIONS_PortType">
    <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http" />
  - <wsdl:operation name="MIN_OPTIONS">
      <soap:operation soapAction="MIN_OPTIONS.v1" style="document" />
    - <wsp:Policy wsu:Id="UsernameTokenSecurityPolicyPasswordOptional" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
      - <wsp:ExactlyOne>
        - <wsp:All>
          - <wsse:SecurityToken wsp:Usage="wsp:Required" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
              <wsse:TokenType>wsse:UserNameToken</wsse:TokenType>
            - <Claims>
                <SubjectName MatchType="wsse:Exact" />
                <UsePassword wsp:Usage="wsp:Optional" />
              </Claims>
            </wsse:SecurityToken>
          </wsp:All>
        </wsp:ExactlyOne>
      </wsp:Policy>
    - <wsdl:input name="MIN_OPTIONS_REQ.V1">
        <soap:body encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" use="literal" />
      </wsdl:input>
    - <wsdl:output name="MIN_OPTIONS_RSP.V1">
        <soap:body encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" use="literal" />
      </wsdl:output>
```

Example of URL output produced from properly configured PeopleSoft Integration Broker

See *PeopleSoft Enterprise PeopleTools 8.50 PeopleBook: PeopleSoft Integration Broker*.

Task 1-6-7: Setting Installation Options

Oracle recommends that you update the PeopleSoft Mobile Inventory Management indicator on the Installation page.

To set installation options:

1. From the Main menu, select Set Up Financials/Supply Chain, Install, Installation Options.
2. On the Products page, click the Mobile Inventory link to indicate that Mobile Inventory Management is installed.
3. Click Save.

   If it is necessary to make any changes to the Installation Table, an informational message appears stating that you must log off and log back on to all clients and application servers for the changes to take effect. You then must log off all clients, shut down and restart all application servers, and then log back on to PeopleSoft FSCM for your changes to take effect.

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For more information and to set user preferences, see the *PeopleSoft Enterprise FSCM 9.1 Mobile Inventory Management* user guide documentation, available on My Oracle Support.

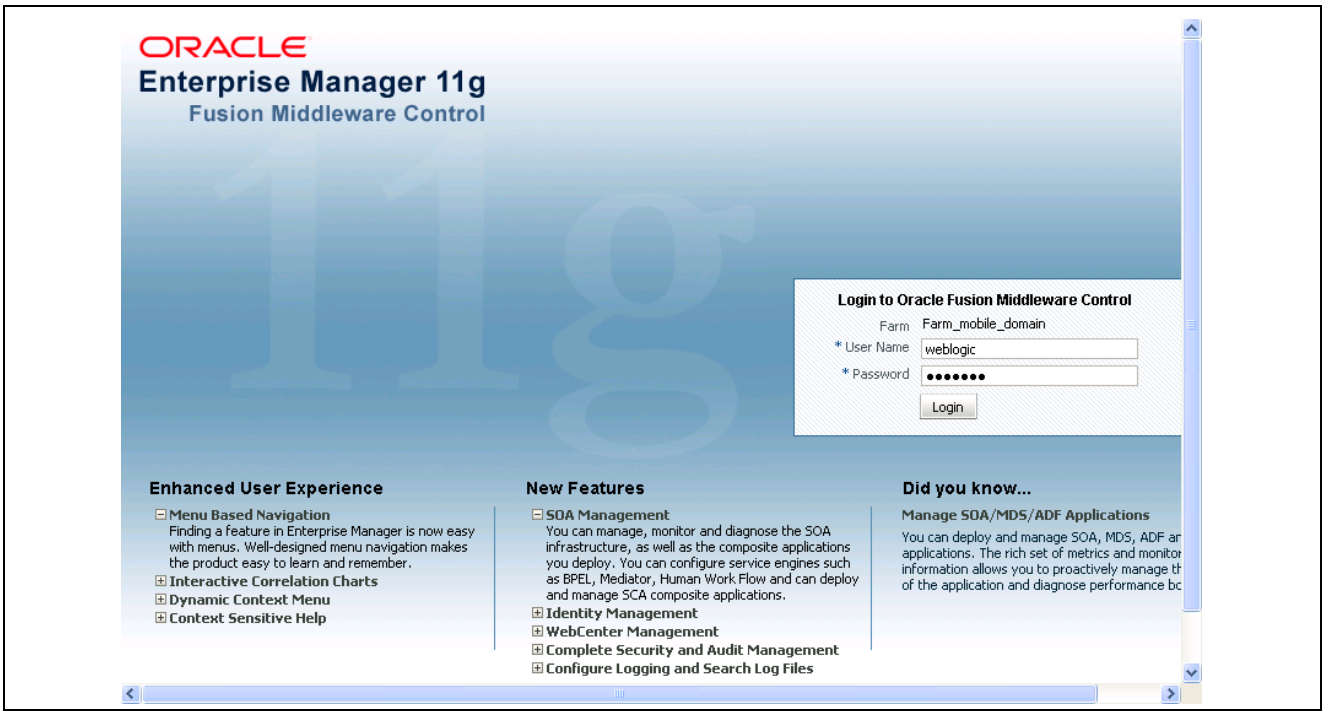
Task 1-7: Deploying the Mobile Application to Oracle Application Developer for an Oracle WebLogic Server

To deploy the mobile application to Oracle Application Developer for an Oracle WebLogic Server:

1. Start the Oracle Enterprise Manager.

   For example: *http://localhost:7001/em*

   The Oracle Enterprise Manager 11g Fusion Middleware Control - Login page appears, as shown in the following example:



Oracle Enterprise Manager 11g Fusion Middleware Control - Login page

2. On the Login page, enter your user name and password and then click Login.

   The Oracle Enterprise Manager 11g Fusion Middleware Control - Farm Tree page appears.

3. In the Farm tree under WebLogic Domain, select *mobile_domain*, and then select the server where you want the application to deploy.

   For example: *AdminServer*

   The Oracle Enterprise Manager 11g Fusion Middleware Control - Farm Tree page appears, as shown in the following example:

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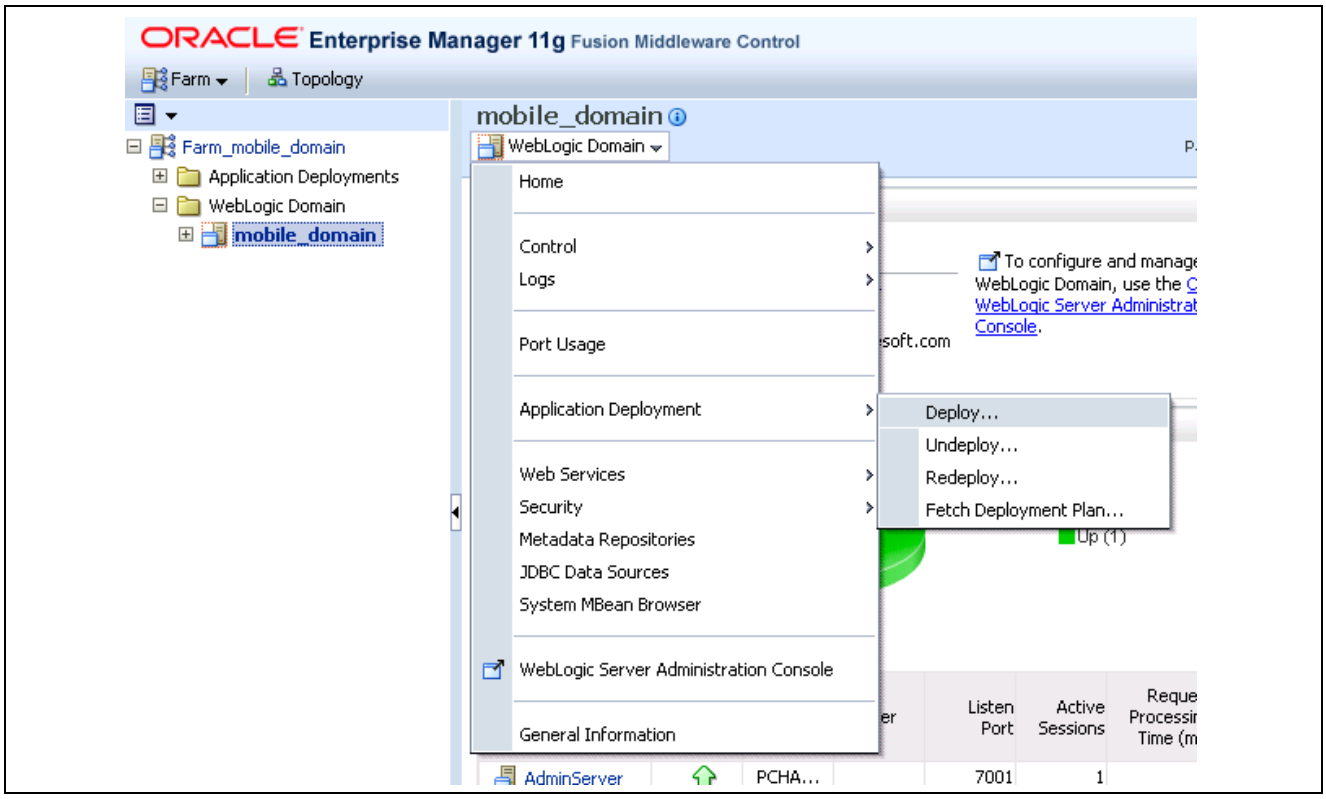
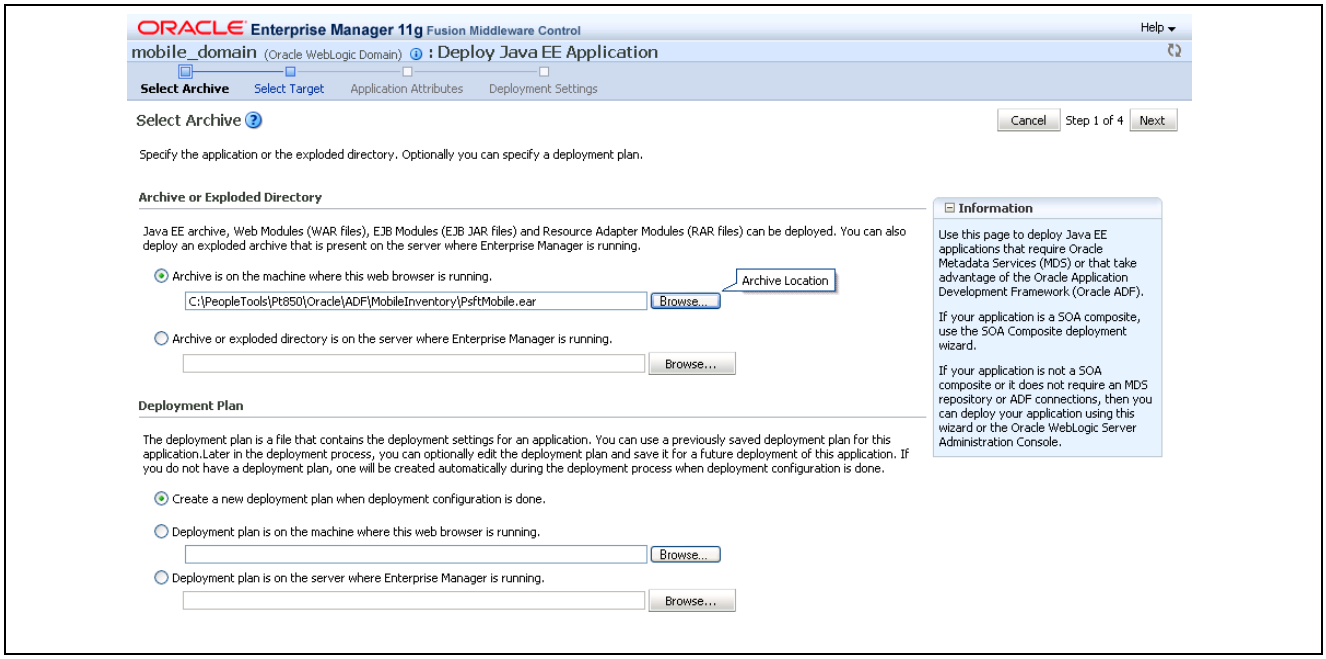


Oracle Enterprise Manager 11g Fusion Middleware Control - Farm Tree

4. Select the Weblogic Domain drop-down list menu, and then select Application Deployment, Deploy.

   The Oracle Enterprise Manager 11g Fusion Middleware Control - Select Archive page appears, as shown in the following example:



Oracle Enterprise Manager 11g Fusion Middleware Control - Select Archive page

5. On the Select Archive page, click Browse to select the EAR file (either method works), and then click Next.

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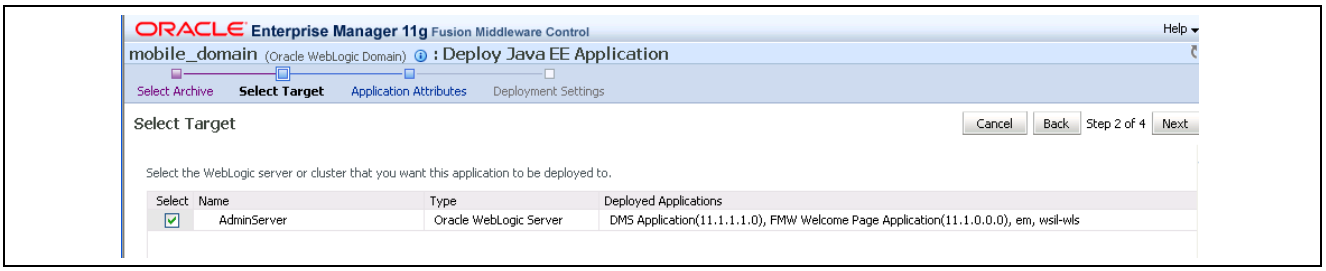
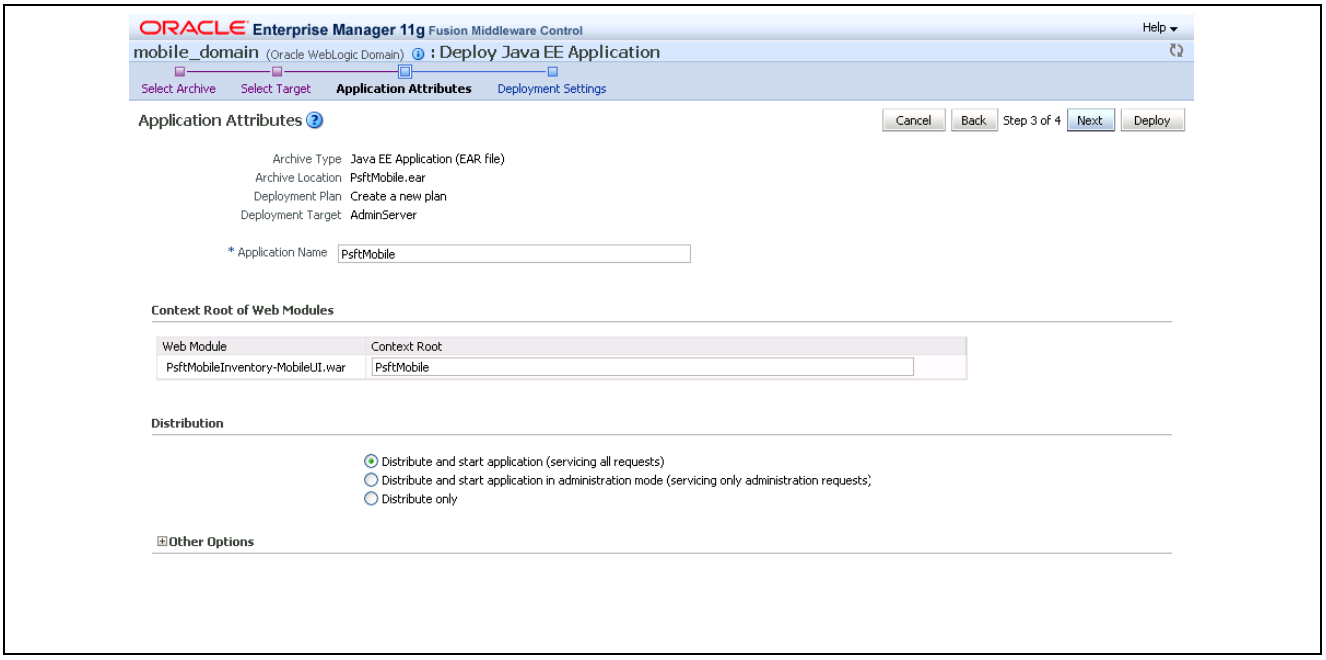
The Oracle Enterprise Manager 11g Fusion Middleware Control - Select Target page appears, as shown in the following example:



Oracle Enterprise Manager 11g Fusion Middleware Control - Select Target page

6. On the Select Target page, select Target Server and click Next.

   The Oracle Enterprise Manager 11g Fusion Middleware Control - Application Attributes page appears, as shown in the following example:



Oracle Enterprise Manager 11g Fusion Middleware Control - Application Attributes page

7. On the Application Attributes page, click Next.

   The Oracle Enterprise Manager 11g Fusion Middleware Control - Deployment Settings page appears, as shown in the following example:

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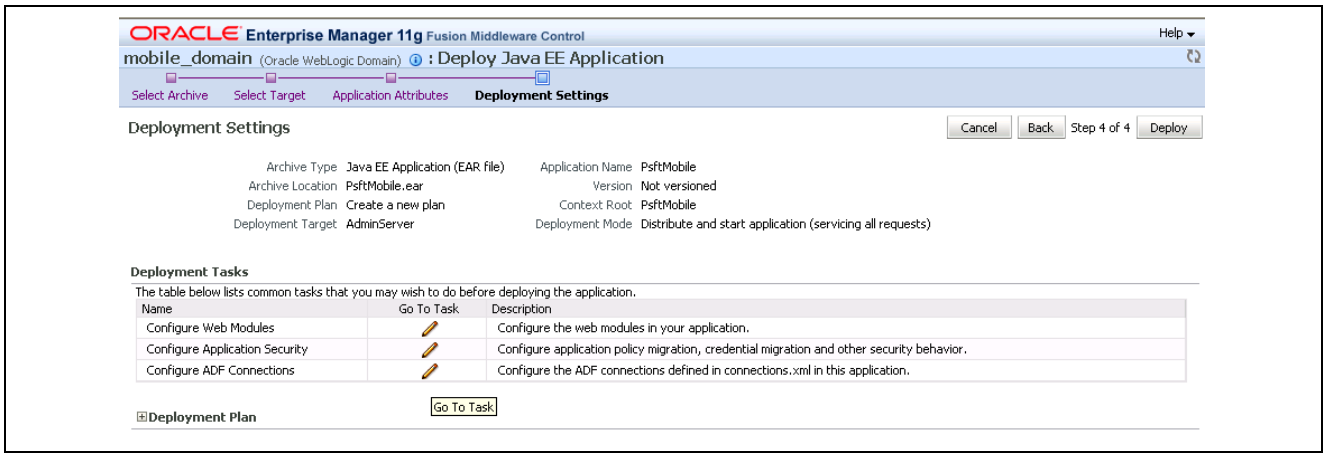
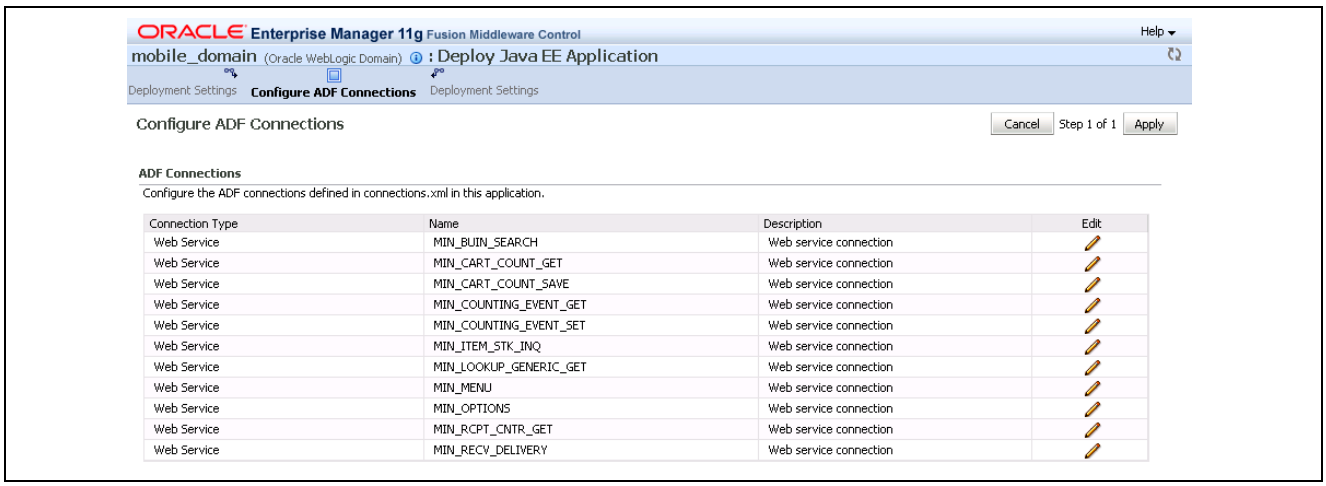


Oracle Enterprise Manager 11g Fusion Middleware Control - Deployment Settings page

8. On the Deployment Settings page, click the Go to Task (pencil/edit icon) to select the Configure ADF (Application Developer Framework) Connections option to change the WSDL Endpoint URLs.

   The Oracle Enterprise Manager 11g Fusion Middleware Control - Configure ADF Connections page appears, as shown in the following example:



Oracle Enterprise Manager 11g Fusion Middleware Control - Configure ADF Connections page

9. On the Configure ADF Connections page, edit *each* Web Service and change to the appropriate Peoplesoft Server.

   The Oracle Enterprise Manager 11g Fusion Middleware Control - Configure Web Service Connection page appears, as shown in the following example:

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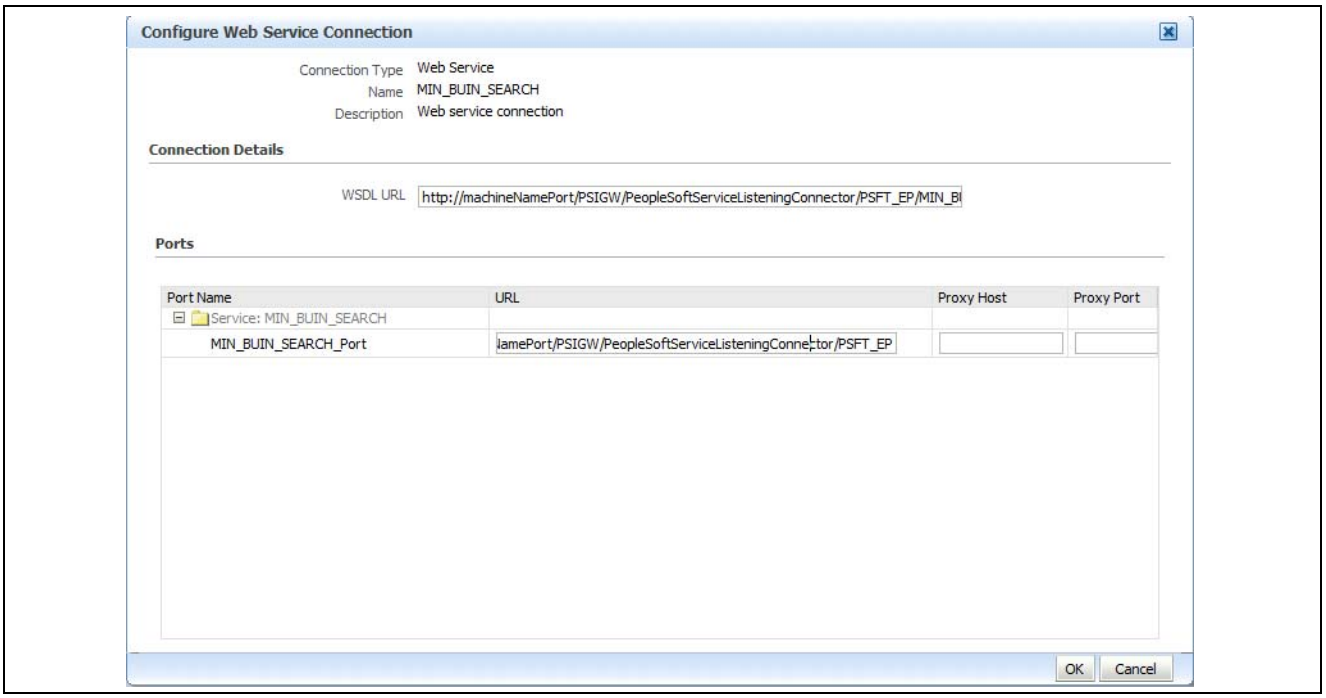
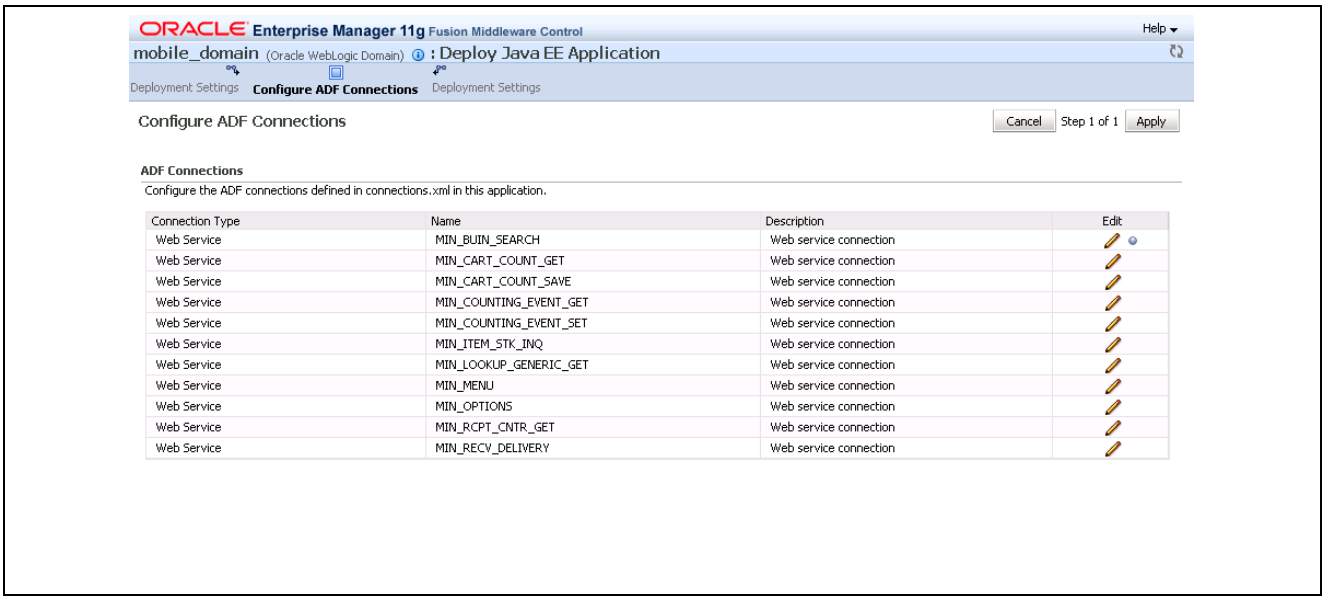


Oracle Enterprise Manager 11g Fusion Middleware Control - Configure Web Service Connection page

10. On the Configure Web Service Connection page, change both the WSDL URL and the URL in the Ports section.

Important! For both URLs, you must replace “machineNamePort” with your Gateway URL. In addition, if you have changed the name of your LocalNode, you must change “PSFT_EP” to that new local node name. PSFT_EP is the default name for the local node.

A green dot displays next to any Web Service that has been modified, as shown in the following example. After you perform this step, all of the Web Services should display green dots (repeat for all connections).



Oracle Enterprise Manager 11g Fusion Middleware Control - Configure ADF Connections page

11. When you are done, click the Apply button, and then click the Deploy button.

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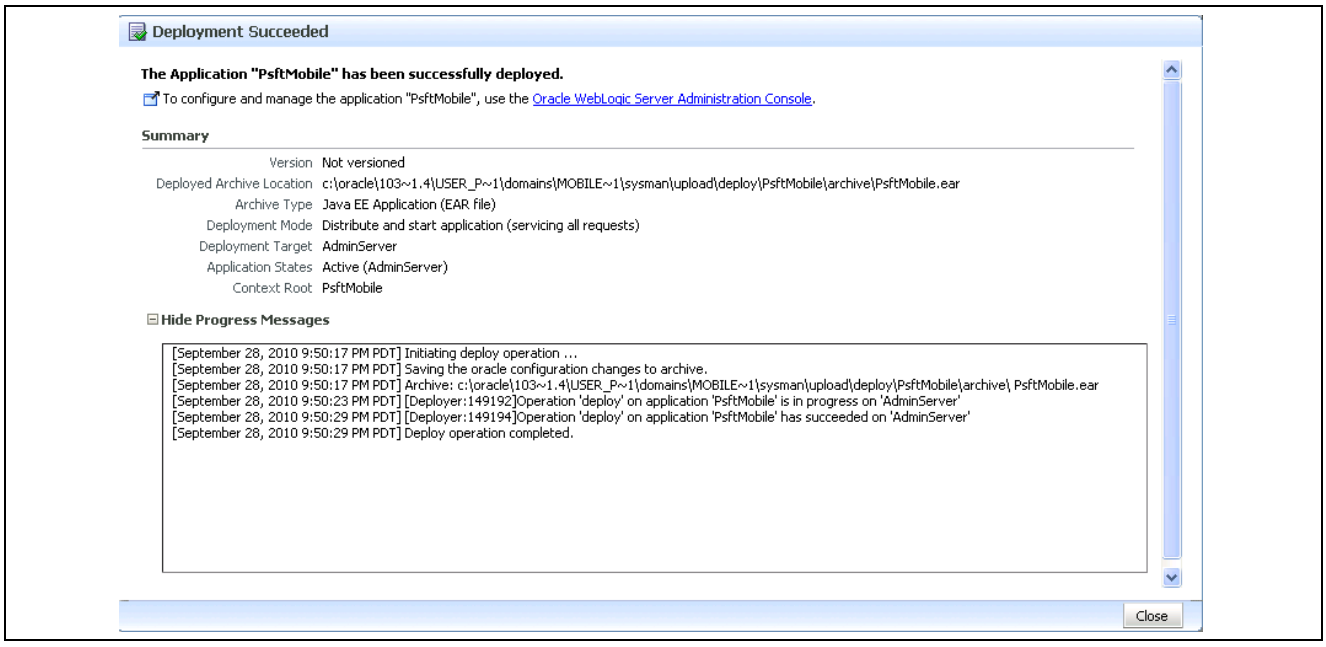
The Oracle Enterprise Manager 11g Fusion Middleware Control - Deployment Succeeded page appears, as shown in the following example:



Oracle Enterprise Manager 11g Fusion Middleware Control - Deployment Succeeded page

When you have completed the deployment correctly, the message “The application PSFTMobile has been successfully Deployed” appears on the screen.

12. Click the Close button.
13. Stop and restart the WebServer.
14. Verify the ADF connections *(Optional)*.

    You can use the Oracle Enterprise Manager to access and view the ADF connections that you used during deployment as follows:

    a. From the Application Deployment tree in the left pane, select PsftMobile.

    b. When you select PsftMobile, the Application Development drop-down list menu becomes available in the right pane.

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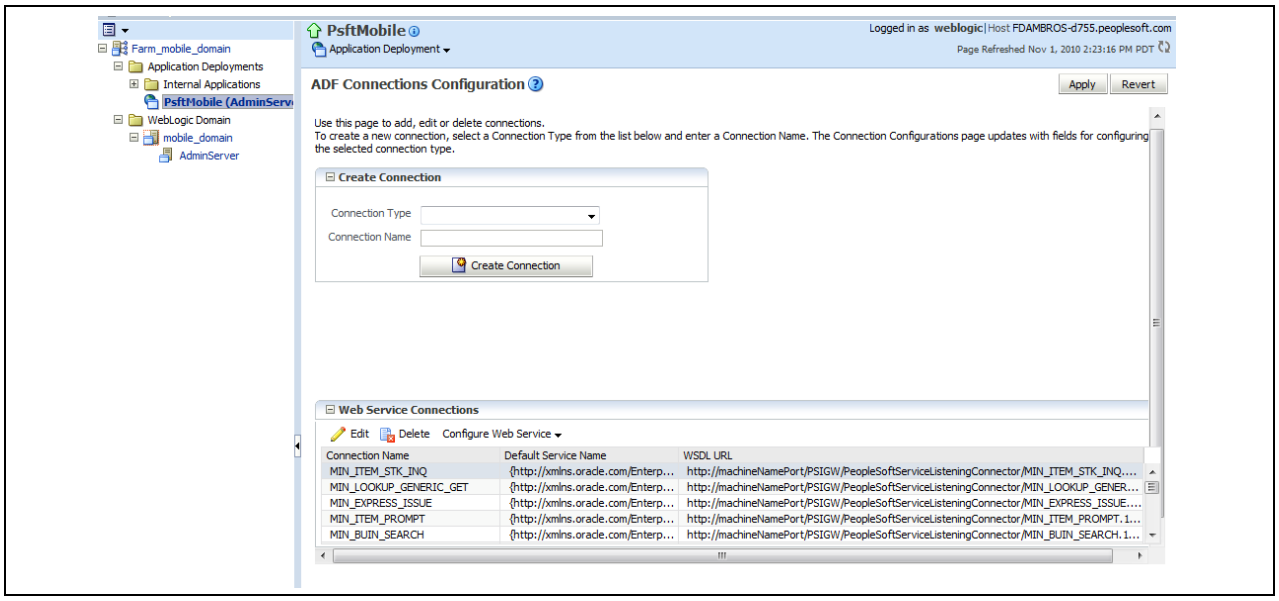
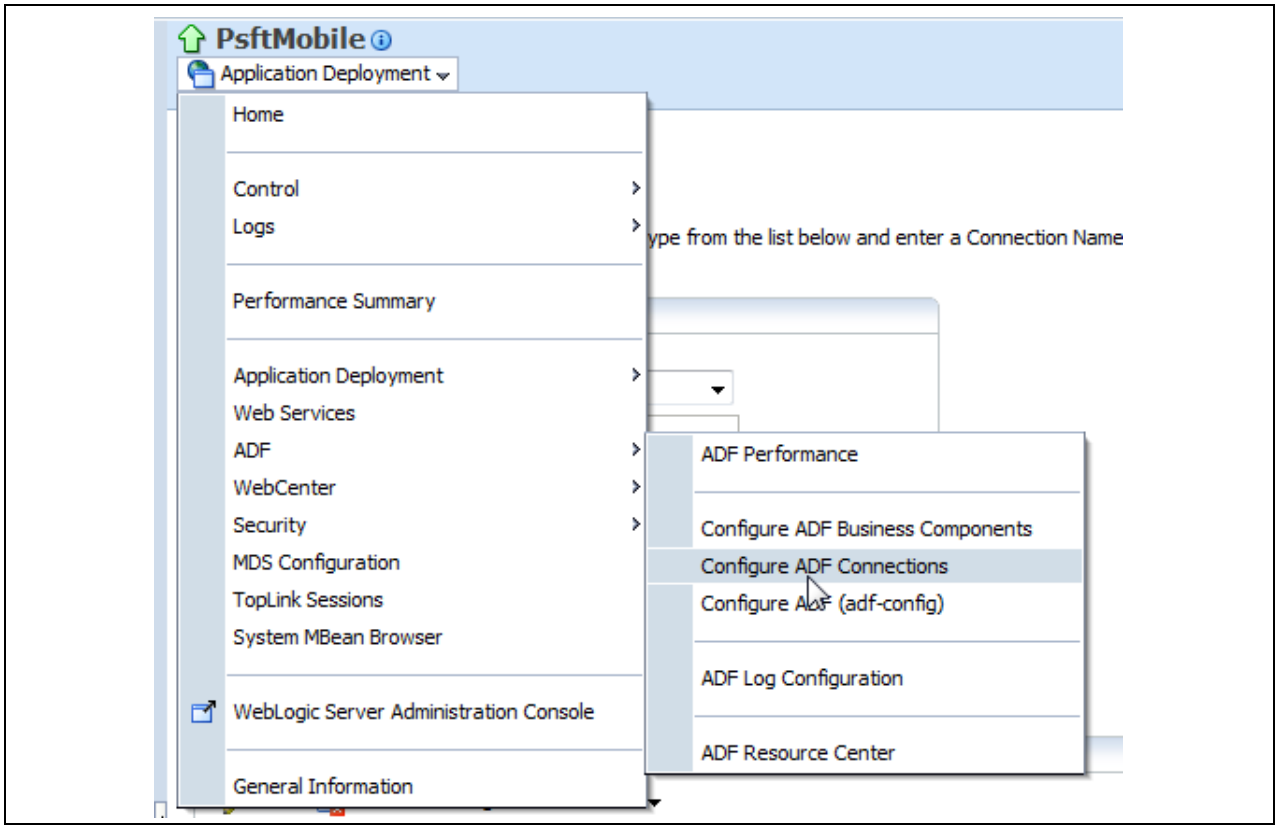


Oracle Enterprise Manager - PsftMobile: Application Deployment tree page

c. From the Application Development drop-down list menu, select ADF, Configure ADF Connections, as shown in the following example:



Oracle Enterprise Manager menu navigation

The Oracle Enterprise Manager - Application Deployment: ADF Connections Configuration page appears, as shown in the following example:

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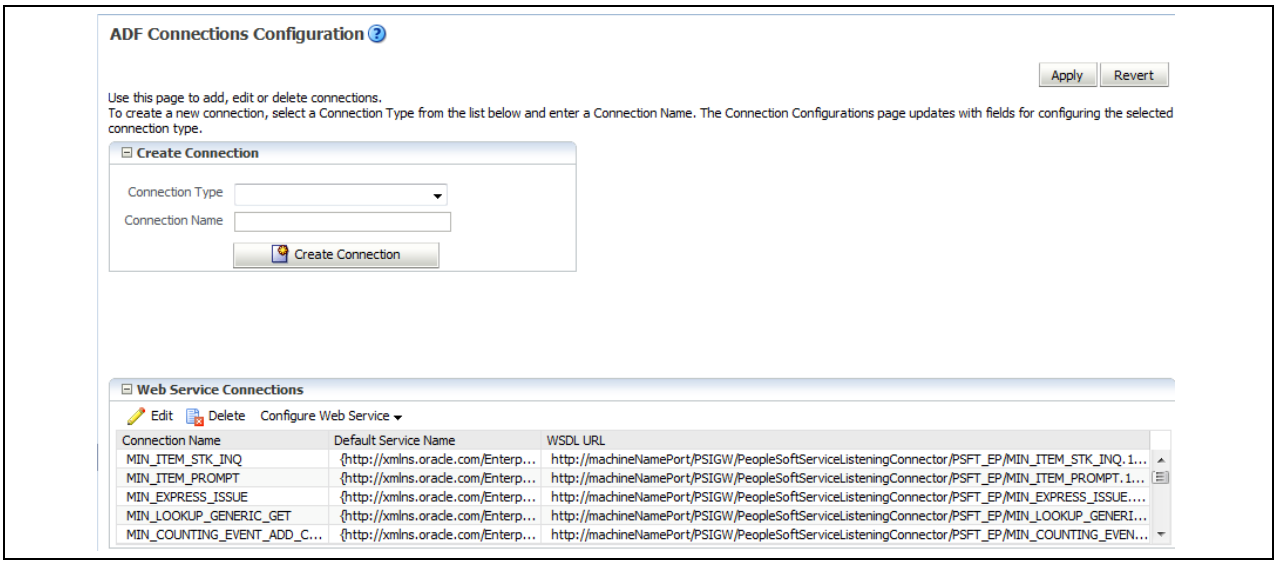

Oracle Enterprise Manager - Application Deployment: ADF Connections Configuration page

d. Review or edit the connections.

   Highlight a connection, then click the pencil/edit icon to edit that connection.

Note. For instructions on how to configure mobile devices for PeopleSoft Mobile Inventory Management and other implementation instructions, see the *PeopleSoft Enterprise FSCM 9.1 Mobile Inventory Management* user guide documentation, available on My Oracle Support.

Task 1-8: Undeploying the Mobile Application

To undeploy the mobile application:

1. Start the Oracle Enterprise Manager.

   The Oracle Enterprise Manager 11g Fusion Middleware Control - Login page appears, as shown in the following example:

2. On the Login page, enter your user name and password. Click Login.

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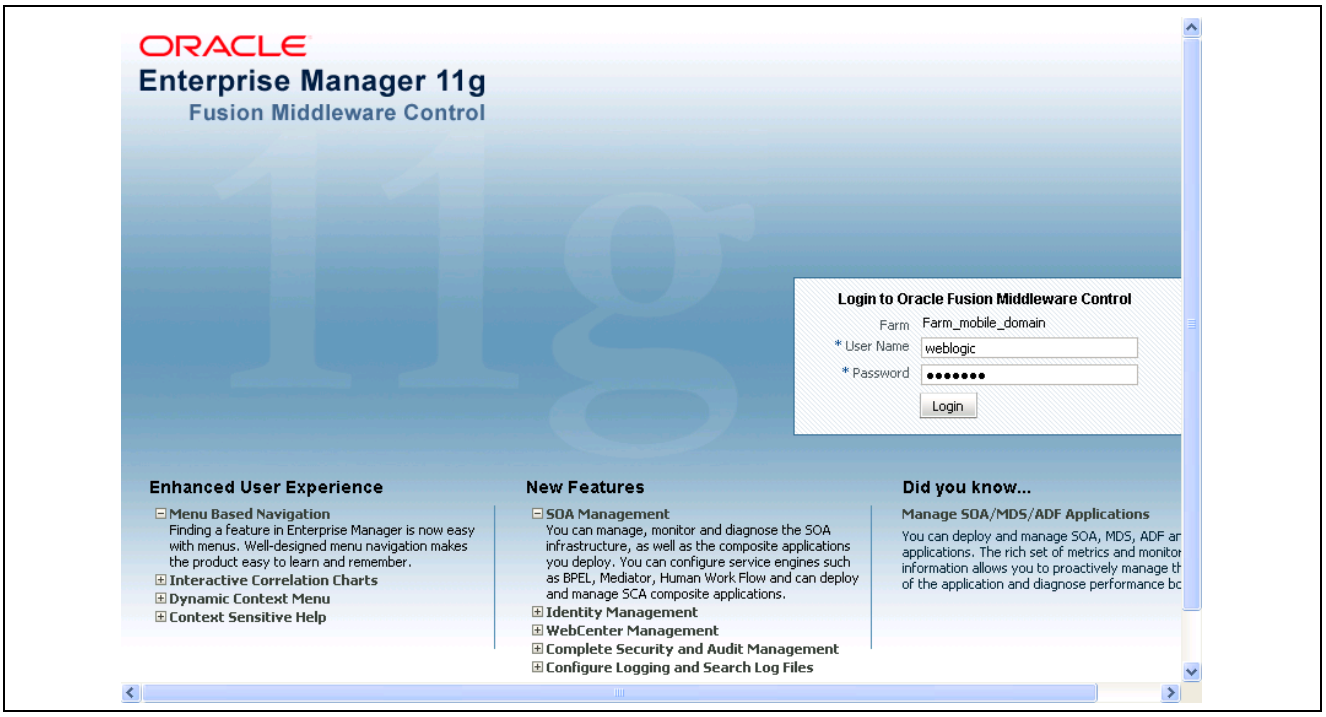
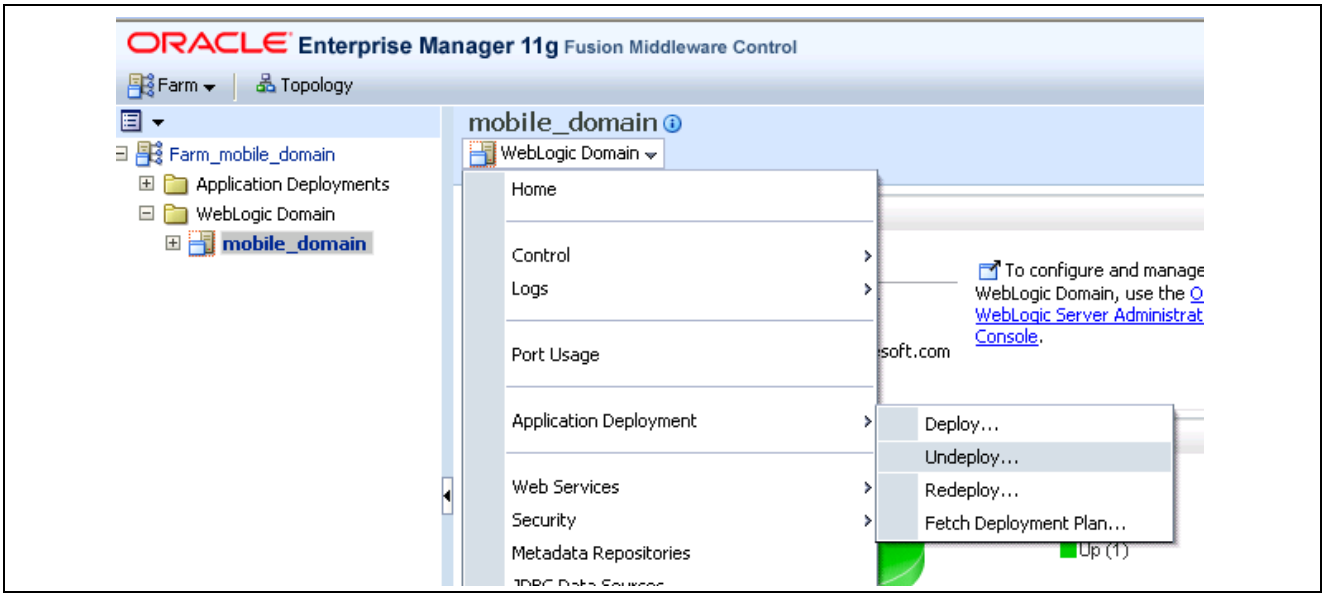


Oracle Enterprise Manager 11g Fusion Middleware Control - Login page

3. In the Farm tree under WebLogic Domain, select *mobile_domain*, and then select the server where you want the application to deploy.

   For example: *AdminServer*

   The Oracle Enterprise Manager 11g Fusion Middleware Control - Farm Tree page appears, as shown in the following example:



Oracle Enterprise Manager 11g Fusion Middleware Control - Farm Tree

4. On the Farm Tree page, under the Server Name, select the WebLogic Server drop-down list menu, and then select Application Deployment, Undeploy.

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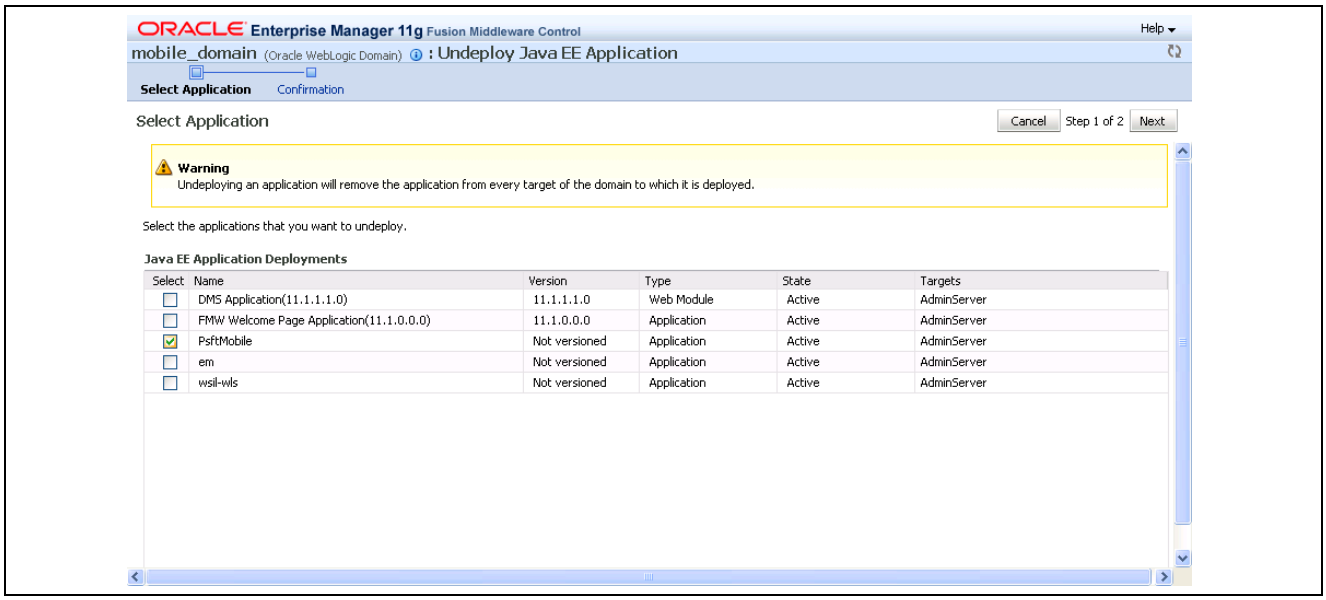
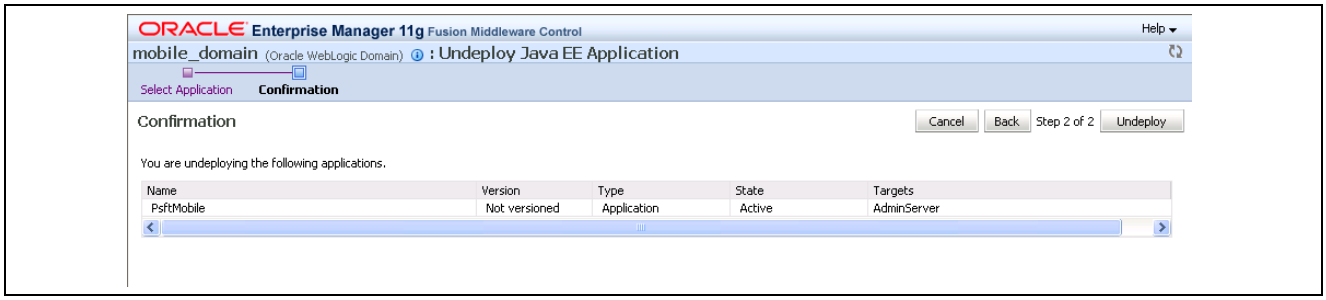
The Oracle Enterprise Manager 11g Fusion Middleware Control - Select Application page appears, as shown in the following example:



Oracle Enterprise Manager 11g Fusion Middleware Control - Select Application page

5. On the Select Application page, select Application PsftMobile and click Next.

   The Oracle Enterprise Manager 11g Fusion Middleware Control - Confirmation page appears, as shown in the following example:



Oracle Enterprise Manager 11g Fusion Middleware Control - Confirmation page

6. On the Confirmation page, click the Undeploy button.

   The Oracle Enterprise Manager 11g Fusion Middleware Control - Undeployment Succeeded page appears, as shown in the following example:

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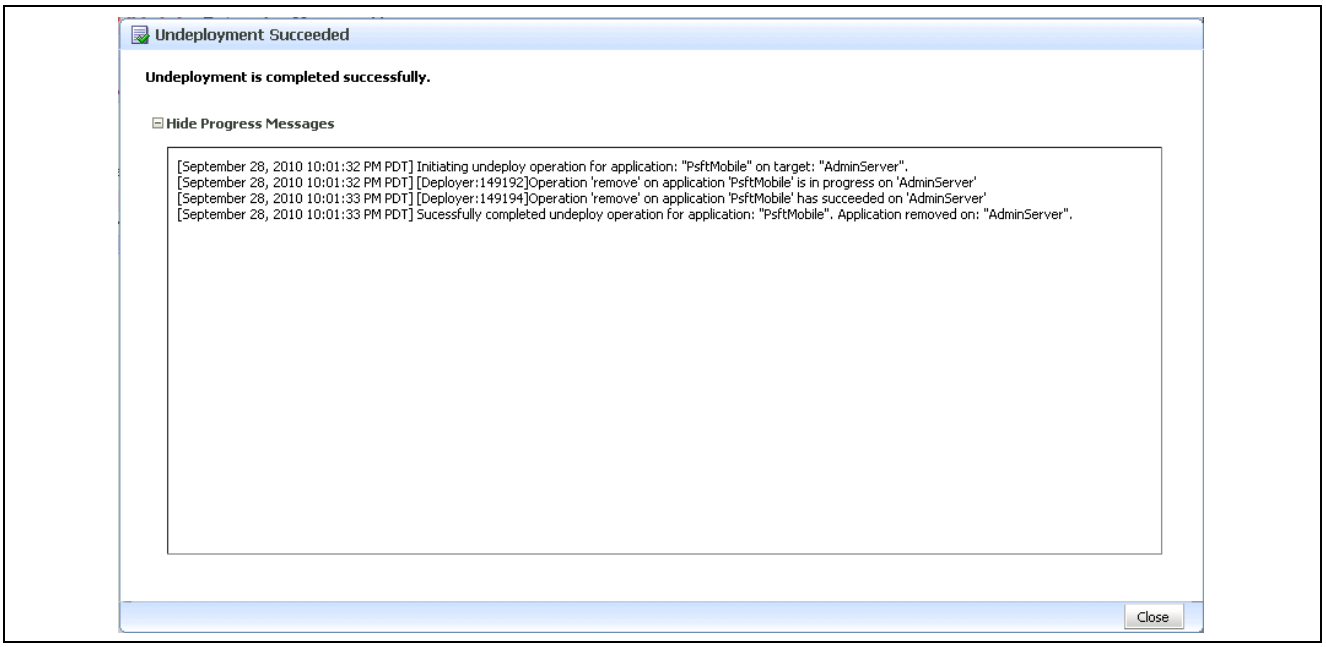

Oracle Enterprise Manager 11g Fusion Middleware Control - Undeployment Succeeded page

7. Deploy the new EAR file by following the instructions in the task titled *"Deploying the Mobile Application to Oracle Application Developer for an Oracle WebLogic Server."*
8. Restart the Oracle WebLogic Server.

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APPENDIX A

Configuring WS-Security for PeopleSoft Mobile Inventory Management

This appendix discusses:

- Understanding WS-Security
- Prerequisites
- Understanding the Configuration Process
- Configuring WS-Security for PeopleSoft Mobile Inventory Management

Understanding WS-Security

The PeopleSoft Mobile Inventory Management server communicates to the PeopleSoft Gateway using exposed Web Services from the PeopleSoft system. Generic installations do not secure these web services. It is acceptable for development and testing environments to use a generic installation, however; this could be considered a security vulnerability for a production system. It is up to each installation team to determine if the web services that are used in the PeopleSoft Mobile Inventory Management application will be secured and how they will be secured. The application is designed to run with or without applying WS-Security to the web service calls.

This appendix provides a *sample* installation of WS-Security using Security Assertion Markup Language (SAML). SAML is an XML-based open standard for communicating authentication and authorization data between secure domains and is certified with PeopleSoft PeopleTools 8.50 and above.

There are options and alternatives to implement WS-Security that are not covered in this installation guide. Token encryption, SSL and non-SAML based WS-Security are options that can be added or substituted at your installation site as alternatives. You can refer to the *PeopleSoft Enterprise PeopleTools 8.50 PeopleBook: Integration Broker* to learn more about these alternatives.

Note. A username token with clear text name and password are not supported by the PeopleSoft Mobile Inventory Management application. Implementing WS-Security requires an x509 certificate to establish identity.

Prerequisites

Before you begin, ensure that you meet the following requirements:

- You have already installed and tested the PeopleSoft Enterprise FSCM 9.1 Mobile Inventory Management application.

  WS-Security should not be applied to a system that has not been validated.

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- You have administrative access to the PeopleSoft Mobile Inventory Management server.
- You have administrative access to the PeopleSoft Web server.
- You have a PeopleSoft User ID that has permission to update security configuration information.
- You have an x.509 and root certificate from a trusted certificate authority.

Note. The steps in this installation guide generate a self validating certificate, instead of a trusted certificate. Oracle does not recommend that you secure your production system with generated self-signed certificates. You should obtain an x.509 and root certificate from a trusted certificate authority.

- You have downloaded the Repository Creation Utility (RCU).

  To perform the WS-Security tasks in this appendix, you must use the RCU. You can access instructions and download the RCU from the Required Additional Software section of the following Oracle Fusion Middleware software site:

  http://www.oracle.com/technetwork/middleware/downloads/fmw-11-download-092893.html#depends

Important! The RCU must be run prior to installing the Oracle Web Service Manager (OWSM).

Understanding the Configuration Process

Several tasks are necessary to configure WS-Security for the PeopleSoft Mobile Inventory Management application. There may be dependencies between the steps. Therefore, Oracle recommends that you run the tasks in this appendix in the following order:

Note. The following steps are detailed in the recommended order in the tasks that follow.

1. Run the Repository Creation Utility to create a metadata repository.

   Oracle Web Service Manager (OWSM) uses this repository to secure policies.

2. Install the Oracle Web Service Manager (OWSM), a prerequisite application that is part of Oracle Fusion Middleware.

   Using WS-Security client policies requires that you install OWSM on the PeopleSoft Mobile Inventory Management web server.

   The instructions to install OWSM are only included in this appendix, as OWSM is only required for WS-Security.

3. Configure the certificates between the Mobile server and the PeopleSoft server.
4. Create the keystore and credential store on the Mobile server.
5. Add the SAML definition information to the PeopleSoft system so that the identity of the Mobile server can be validated and enabled through WS-Security settings.

   Optionally, you can set policies on web services so that they cannot be called without the appropriate ws-security.

6. Update the connections.xml to enforce security policies.

   The connections.xml file is delivered with the PeopleSoft Mobile Inventory Management application

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Task A-1: Configuring WS-Security for PeopleSoft Mobile Inventory Management

This section discusses:

- Running the Repository Creation Utility
- Installing the Oracle Web Service Manager
- Configuring the Certificates
- Creating and Configuring the Keystore and Credential Store
- Adding the SAML Definition Information to the PeopleSoft System
- Updating the connections.xml to Enforce Security Policies

Important! There may be dependencies between the tasks necessary to configure WS-Security for the PeopleSoft Mobile Inventory Management application. Oracle recommends that you run the following tasks in the order provided.

Task A-1-1: Running the Repository Creation Utility

The Repository Creation Utility (RCU) must be run prior to installing the Oracle Web Service Manager (OWSM).

You can download the RCU from the Required Additional Software section of the following Oracle Fusion Middleware software site:

http://www.oracle.com/technetwork/middleware/downloads/fmw-11-download-092893.html#depends

1. Unzip the rcuHome.zip file into an accessible rcuHome drive.
2. Launch the rcu executable file /rcuHome/bin/rcu.exe.

   The startup dialog box on the Welcome page appears, as shown in the following example:

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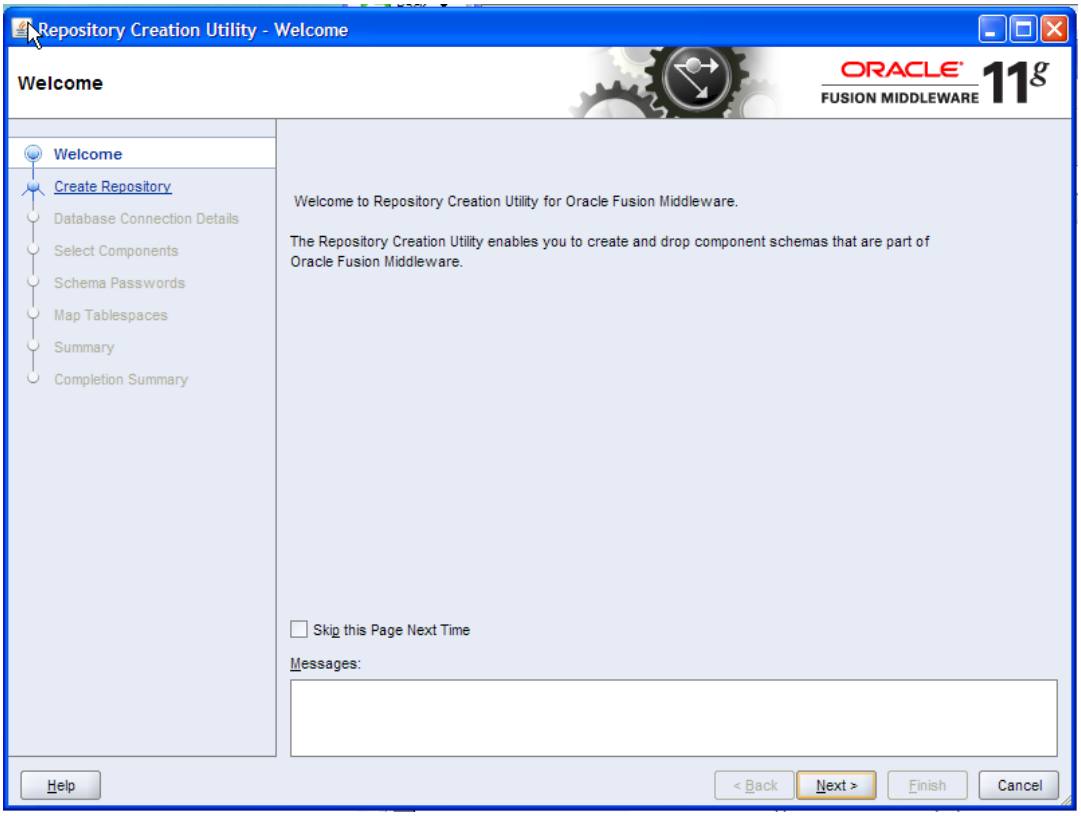

Oracle Fusion Middleware: Repository Creation Utility - Welcome page

3. On the Repository Creation Utility Welcome page click Next.

   The Repository Creation Utility - Create Repository page (Step 1 of 7) appears, as shown in the following example:

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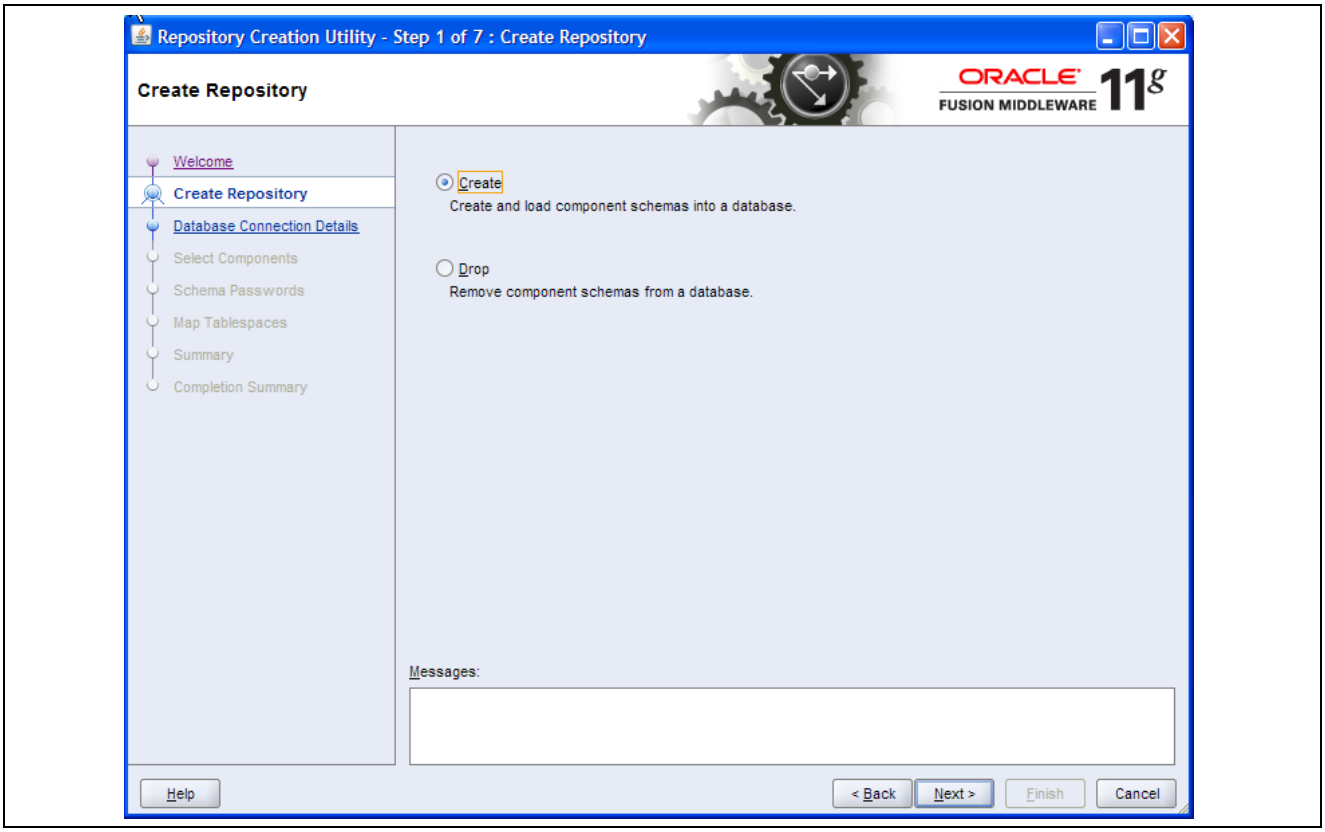

Oracle Fusion Middleware: Repository Creation Utility - Create Repository page (Step 1 of 7)

4. On the Create Repository page (Step 1 of 7), select Create and then click Next.

   The Repository Creation Utility - Create Repository page (Step 2 of 7) appears, as shown in the following example:

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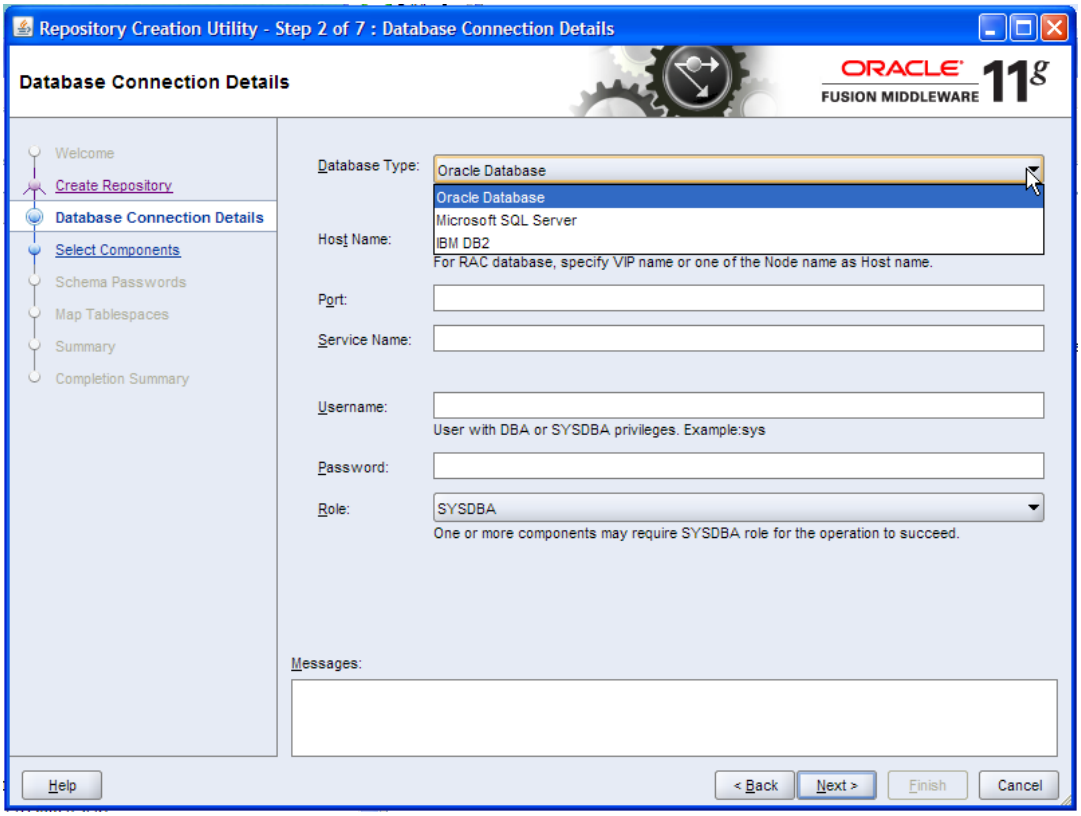

Oracle Fusion Middleware: Repository Creation Utility - Create Repository page (Step 2 of 7): Database Connection Details

5. On the Create Repository (Step 2 of 7) - Database Connection Details page, do the following:

   a. In the Database Type field, select the database type to store the metadata services repository from the drop-down list box.

      For example: *Oracle Database*

      This changes the database connection information that is required by the utility (only Oracle connection information is shown).

      For most installations you select the PeopleSoft database, but you can choose a database other than the PeopleSoft database if you prefer. This database stores metadata for the OWSM system.

   b. Complete the database location and user information based on the type of database you selected.

Note. The utility must create tables and table spaces. Therefore, the user ID and password that you enter must have DBA or SYSDBA privileges.

---

   c. Click Next.

      The Repository Creation Utility - Checking Prerequisites page appears, as shown in the following example:

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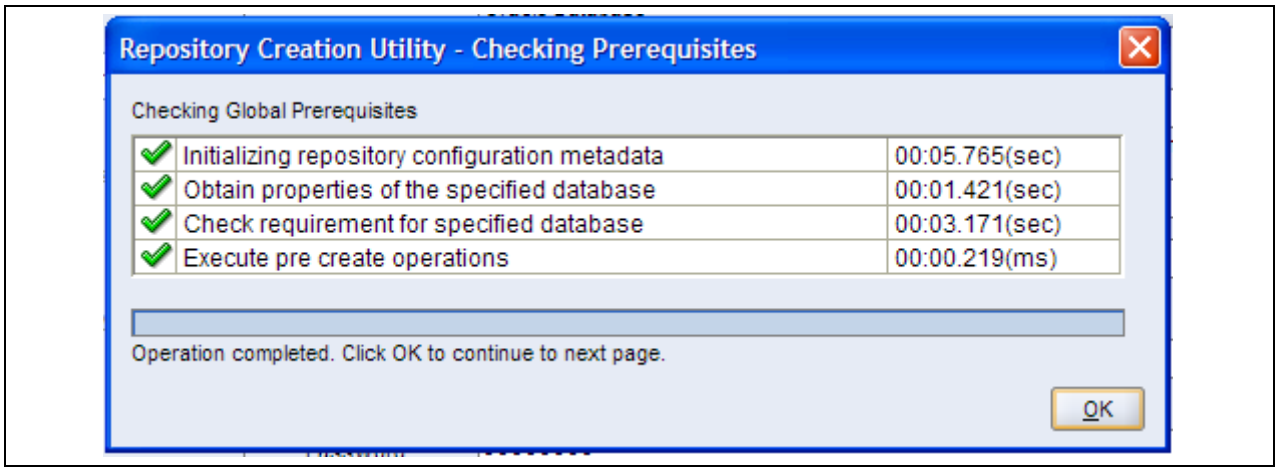
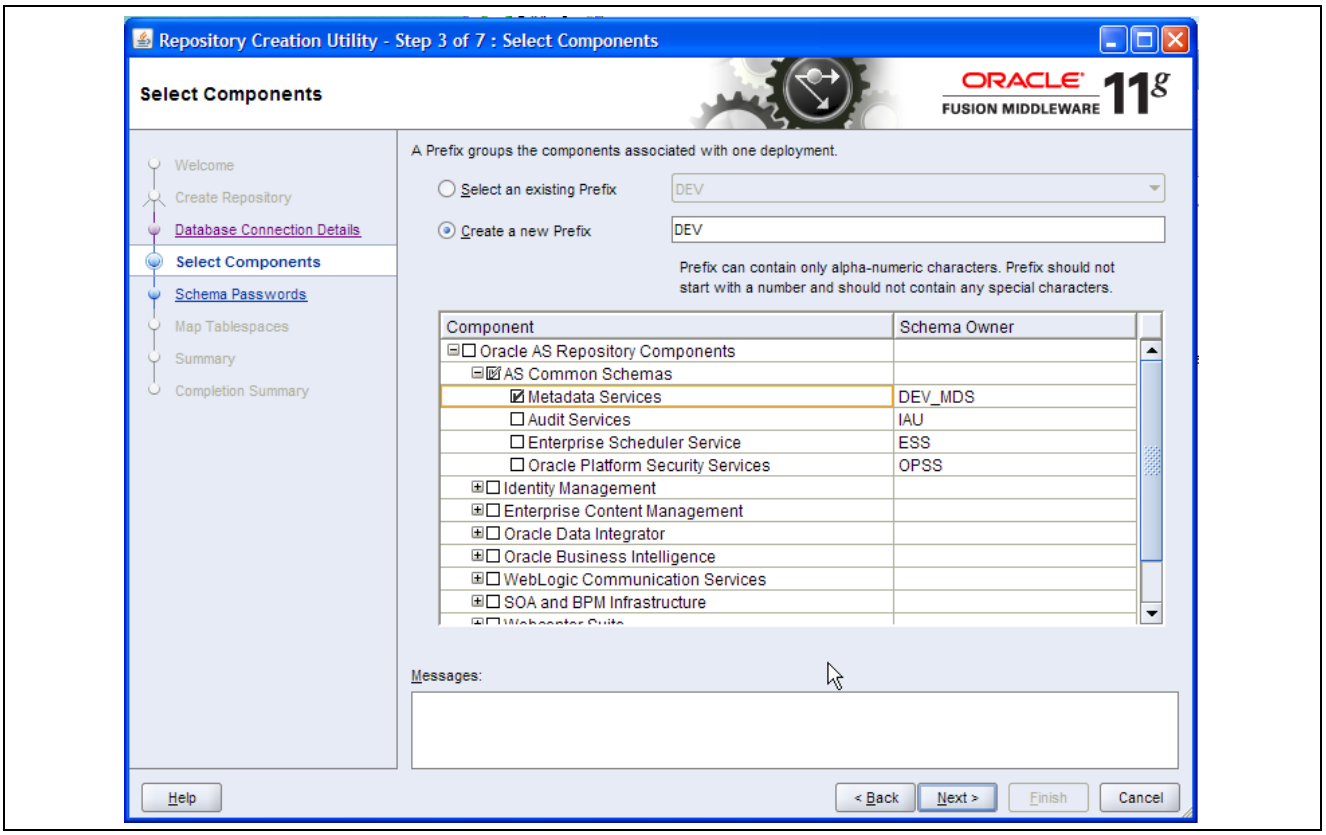


Oracle Fusion Middleware: Repository Creation Utility - Checking Prerequisites page

6. On the Repository Creation Utility - Checking Prerequisites page, the RCU determines if the database meets the minimum requirements to create the repository and connected. After this process completes, click OK.

   The Repository Creation Utility - Create Repository (Step 3 of 7) - Select Components page appears, as shown in the following example:



Oracle Fusion Middleware: Repository Creation Utility (Step 3 of 7) - Select Components page

7. On the Repository Creation Utility (Step 3 of 7) - Select Components page, select the option Create a new Prefix, and then enter *DEV* in the adjacent field.
8. In the Component section, expand the AS Common Schemas and select the Metadata Services check box.

   The Schema Owner column automatically populates. This is the only component that you need to create.

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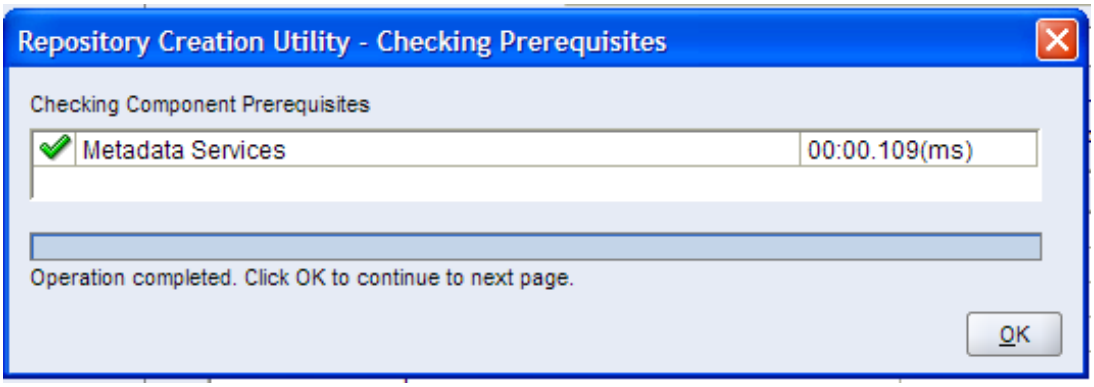
9. Click Next.

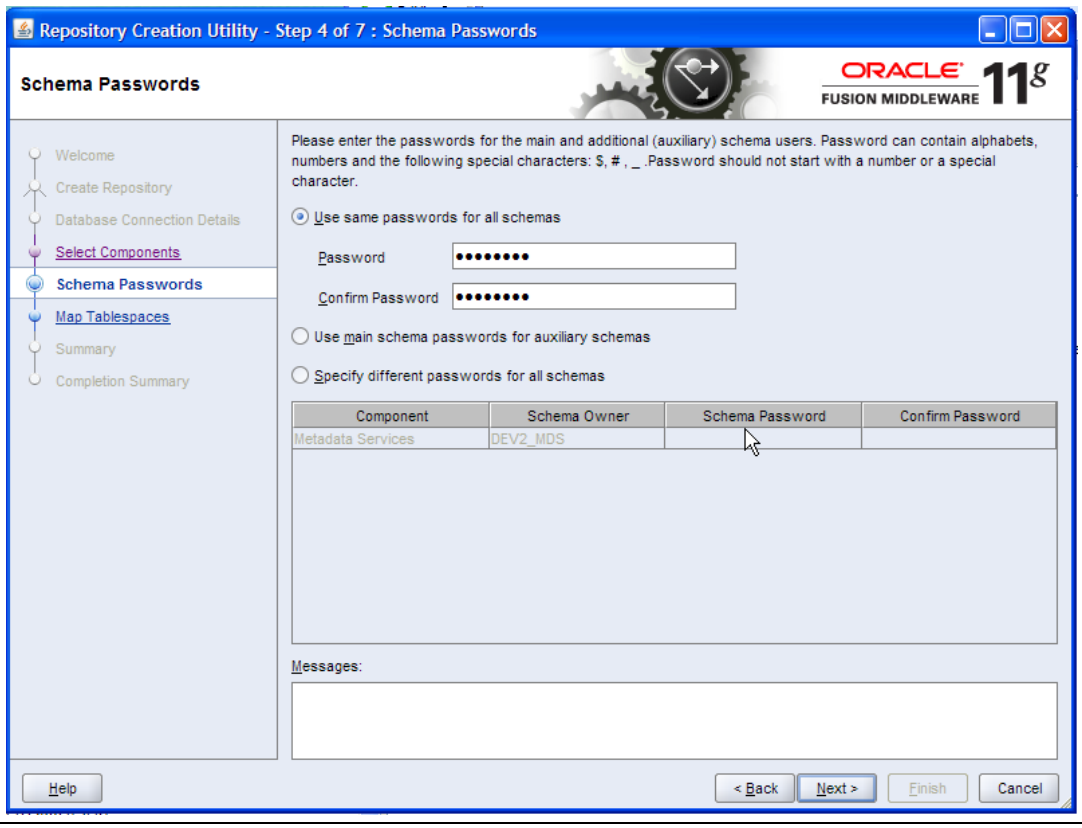
   The Repository Creation Utility - Checking Prerequisites page appears, as shown in the following example:



Repository Creation Utility - Checking Prerequisites page

10. On the Repository Creation Utility - Check Prerequisites page, the RCU validates that the database is capable of creating the selected components. After this process completes, click OK.

    The Repository Creation Utility (Step 4 of 7) - Schema Passwords page appears, as shown in the following example:



Oracle Fusion Middleware: Repository Creation Utility (Step 4 of 7) - Schema Passwords page

11. On the Repository Creation Utility (Step 4 of 7) - Schema Passwords page, accept the default option Use same passwords for all schemas, and then enter and confirm your password. This password is used in the next task when you install OWSM.

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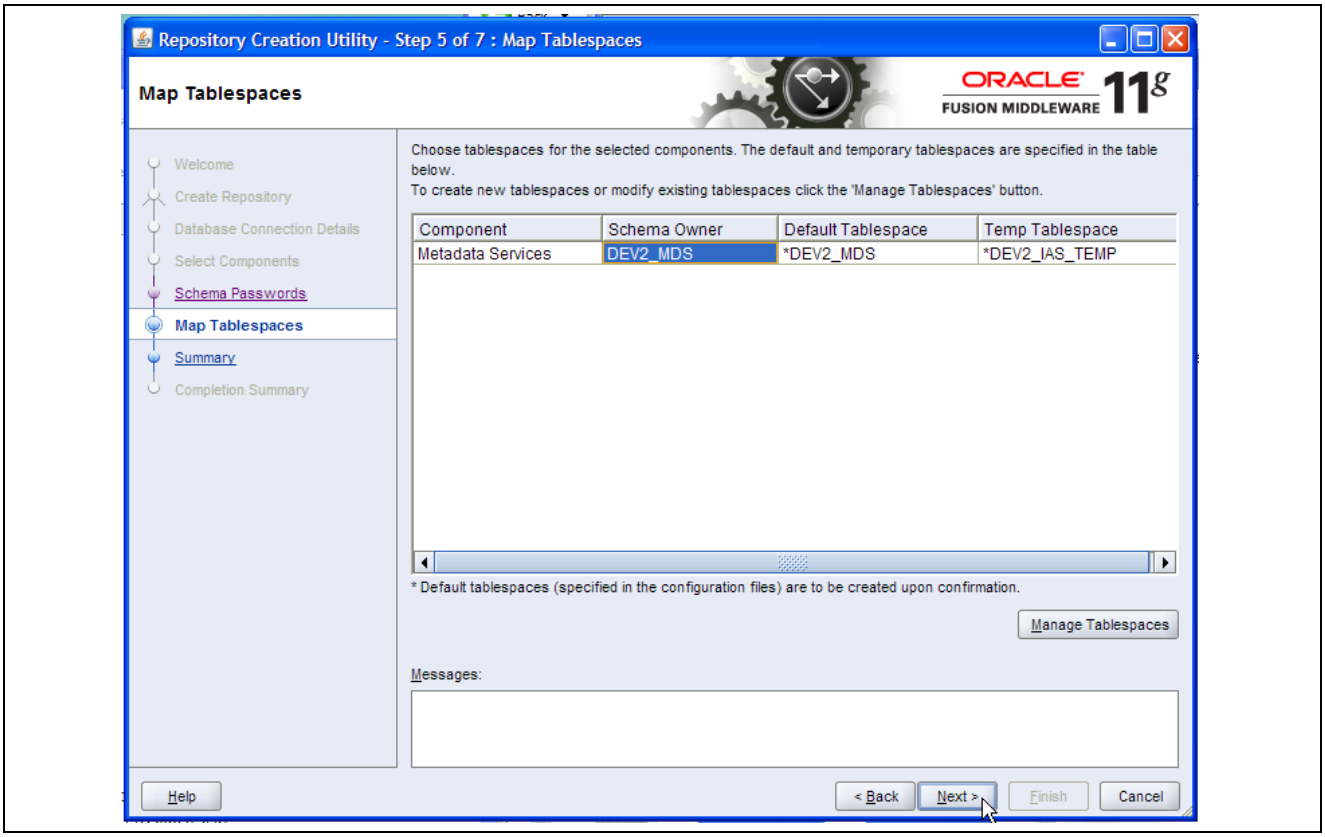
Alternatively, you can select the options Use main schema passwords for auxiliary schemas or Specify different passwords for all schemas, and then enter and confirm your passwords accordingly.

12. Click Next.

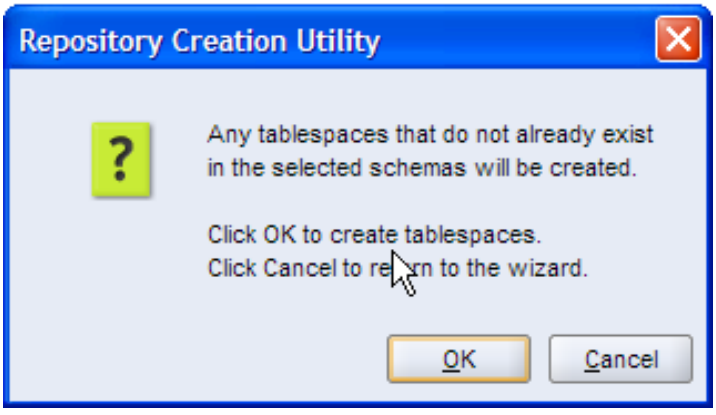
    The Repository Creation Utility (Step 5 of 7) - Map Tablespaces page appears, as shown in the following example:



Oracle Fusion Middleware: Repository Creation Utility (Step 5 of 7) - Map Tablespaces page

13. The Repository Creation Utility (Step 5 of 7) - Map Tablespaces page displays the default and temporary tablespaces that are used for the component you are installing. Accept the defaults and click Next.

    A message box appears that states “Any tablespaces that do not already exist in the selected schemas will be created,” as shown in the following example:



Repository Creation Utility - Message box

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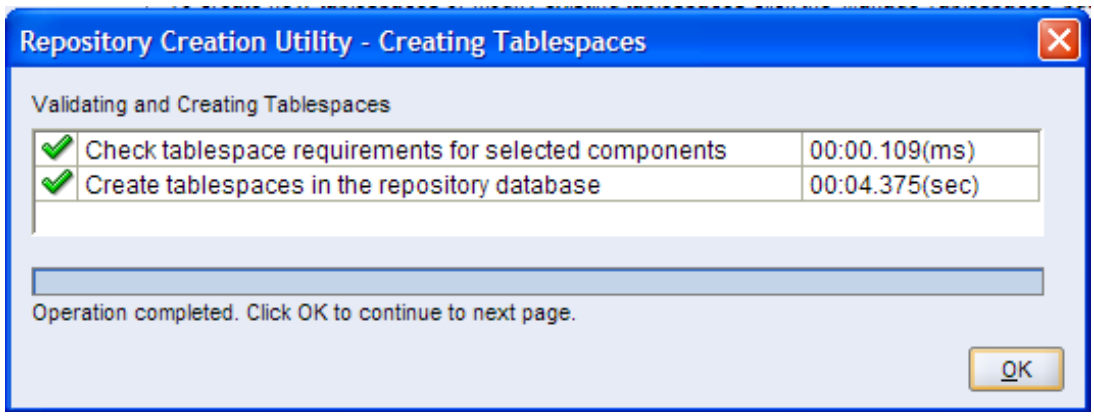
14. On the Repository Creation Utility message box, click OK to create the tablespaces.

    The Repository Creation Utility - Creating Tablespaces page appears, as shown in the following example:

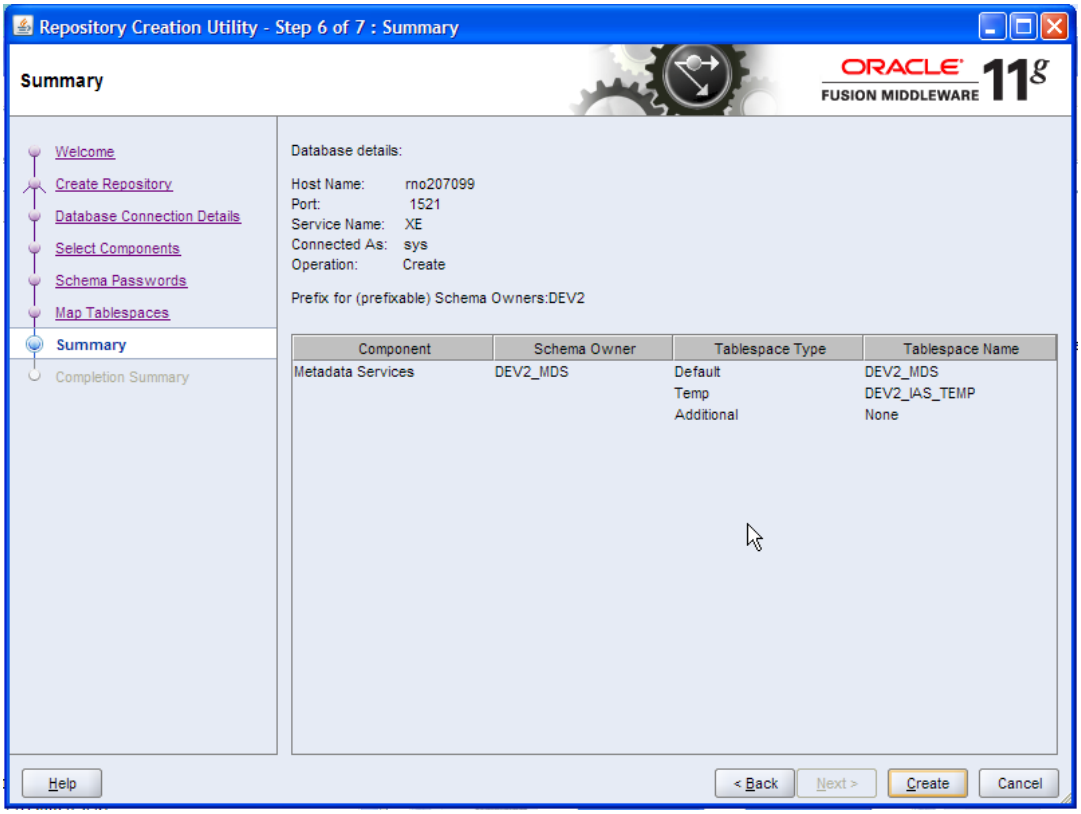


Repository Creation Utility - Creating Tablespaces page

15. On the Repository Creation Utility - Creating Tablespaces page, the RCU validates and executes the tablespace creation.

    After this process completes, click OK.

    The Repository Creation Utility (Step 6 of 7) - Summary page appears and displays the complete settings for the database and component that you are installing, as shown in the following example:



Oracle Fusion Middleware: Repository Creation Utility (Step 6 of 7) - Summary page

16. On the Repository Creation Utility (Step 6 of 7) - Summary page, click Create to begin the repository creation process.

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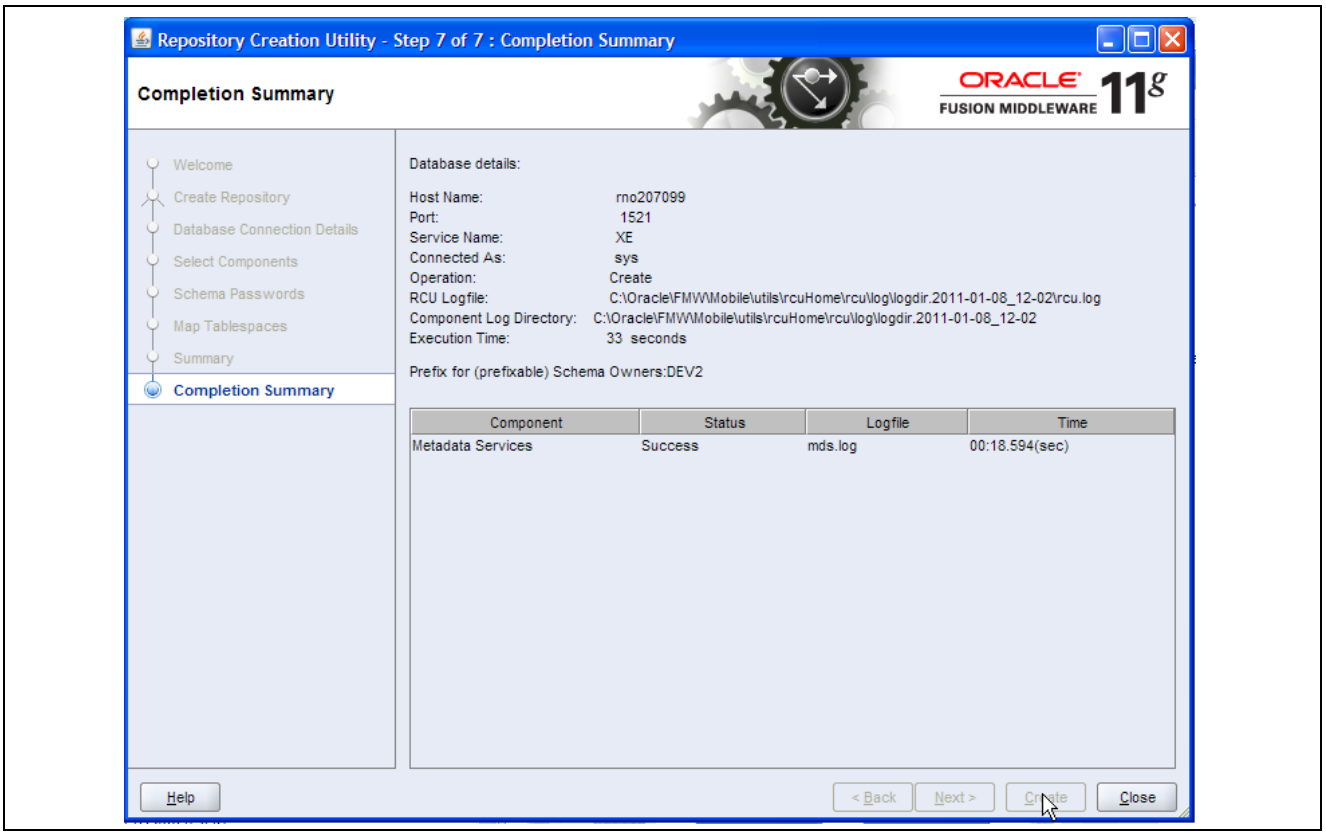
The Repository Creation Utility (Step 7 of 7) - Completion Summary page appears and displays the metadata component's successful installation, as shown in the following example:



Oracle Fusion Middleware: Repository Creation Utility (Step 7 of 7) - Completion Summary page

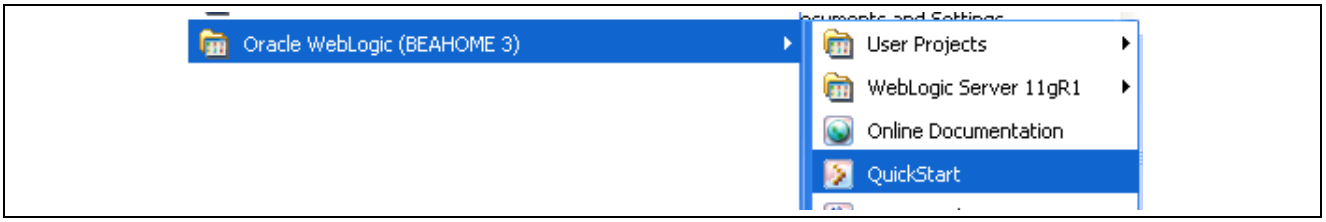
17. On the Repository Creation Utility (Step 7 of 7) - Completion Summary page, click the Close button to complete and exit the installation.

Task A-1-2: Installing the Oracle Web Service Manager

The Oracle Web Service Manager (OWSM) applies client policies on the PeopleSoft Mobile Inventory Management application. OWSM requires access to a database, and supports Oracle, SQL Server and DB/2. You can use any compatible database. Using the PeopleSoft database for OWSM is not required but is acceptable and does not impact the production system.

OWSM is installed from the Quick Start installation program that is used to install Oracle Enterprise Manager.

1. Use the menu options from the Program Group to select Oracle WebLogic, QuickStart, as shown in the following example:



Oracle WebLogic - Menu navigation from the Program Group to access QuickStart

The WebLogic Platform 10.3.4.0 - QuickStart page appears, as shown in the following example:

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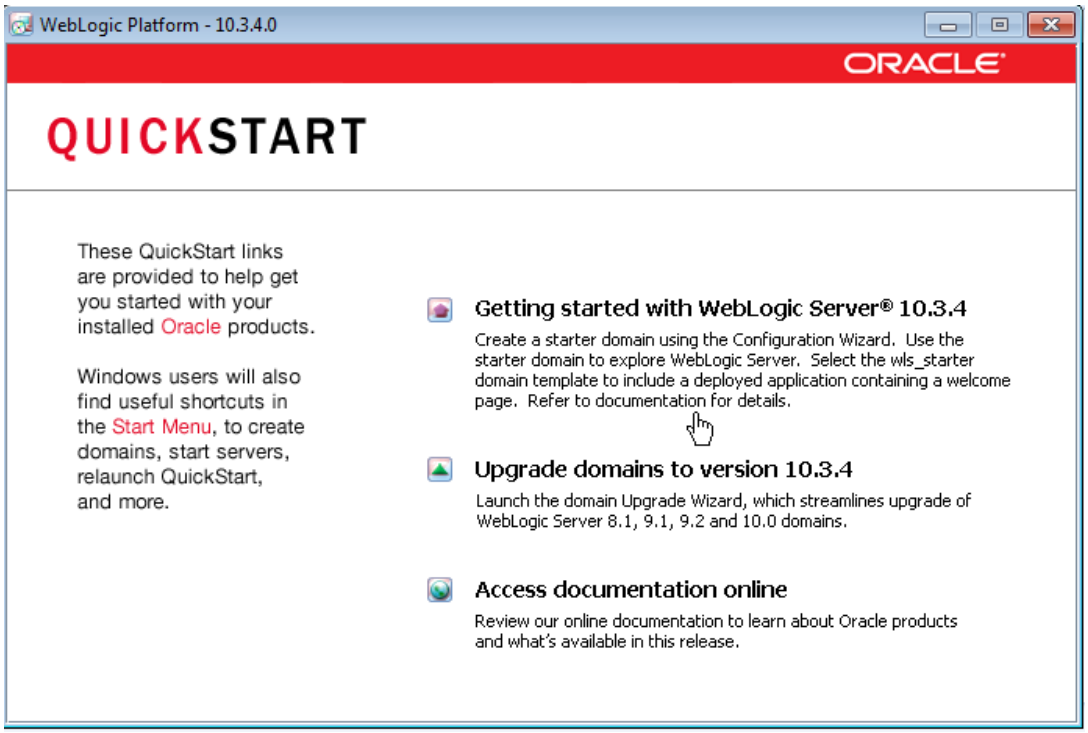
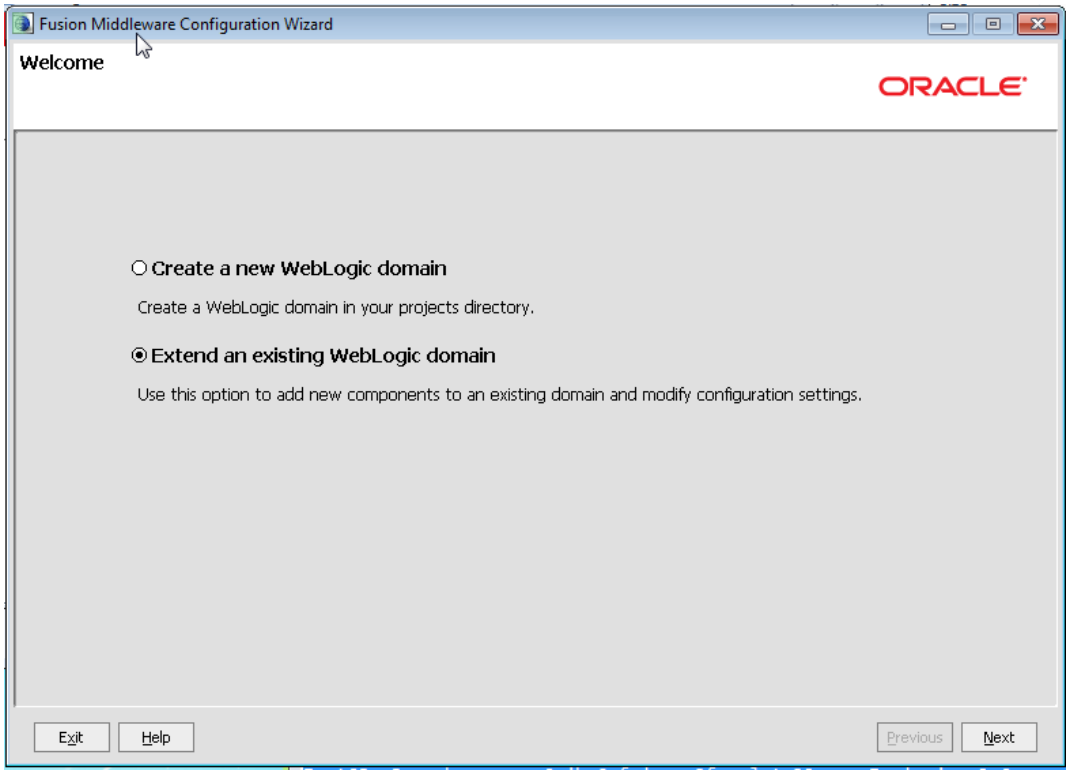


Oracle WebLogic Platform 10.3.4.0 - QuickStart page

2. From the QuickStart Main Menu page, click the *Getting started with WebLogic Server 10.3.4* option.

   The Fusion Middleware Configuration Wizard - Welcome page appears, as shown in the following example:



Fusion Middleware Configuration Wizard - Welcome page

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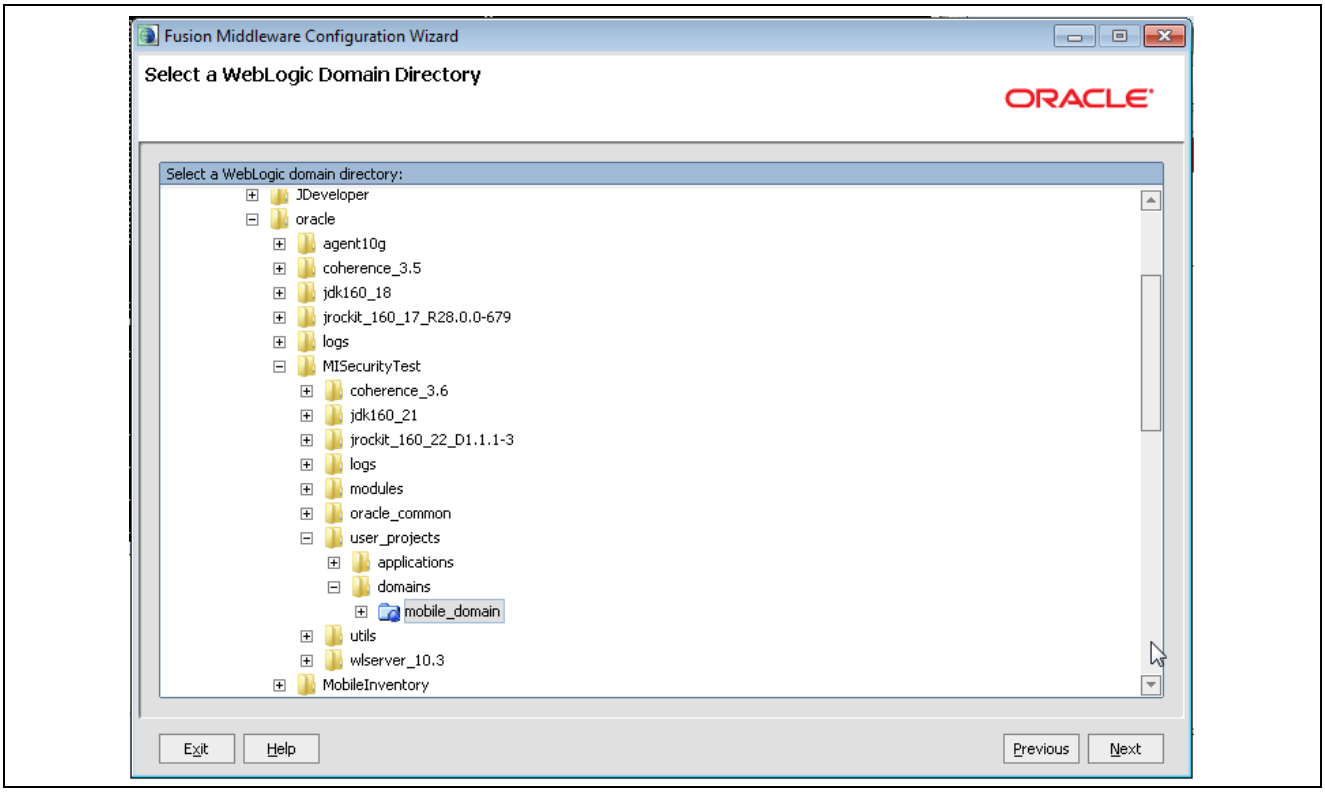
3. On the Welcome page, select the option Extend an existing WebLogic domain.
4. Click Next.

   The Fusion Middleware Configuration Wizard - Select a WebLogic Domain Directory page appears, as shown in the following example:



Fusion Middleware Configuration Wizard - Select a WebLogic Domain Directory page

5. On the Select a WebLogic Domain Directory page, select the domain for your PeopleSoft Mobile Inventory Management application.

   The domain is under the directory that you created when performing step 3 of the Chapter 1 task titled “Installing the Oracle WebLogic Server for PeopleSoft Mobile Inventory Management,” discussed earlier in this installation guide.

   The domain name was entered in step 13 of the same task.
6. Click Next.

   The Fusion Middleware Configuration Wizard - Select Extension Source page appears, as shown in the following example:

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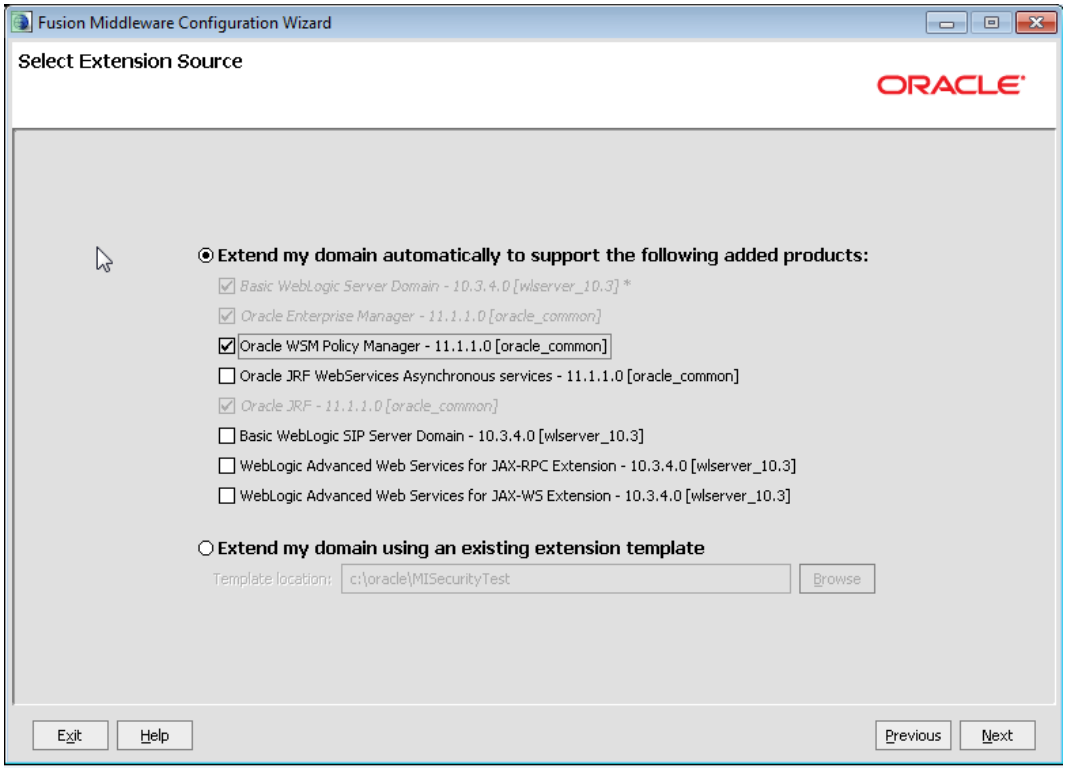

Fusion Middleware Configuration Wizard - Select Extension Source page

7. On the Select Extension Source page, select the option Extend my domain automatically so support the following added products, and then select the check box for the Oracle WSM Policy Manager – 121.1.1.0 (oracle_common) product.
8. Click Next.

   The Fusion Middleware Configuration Wizard - Configure JDBC Component Schema page appears, as shown in the following example:

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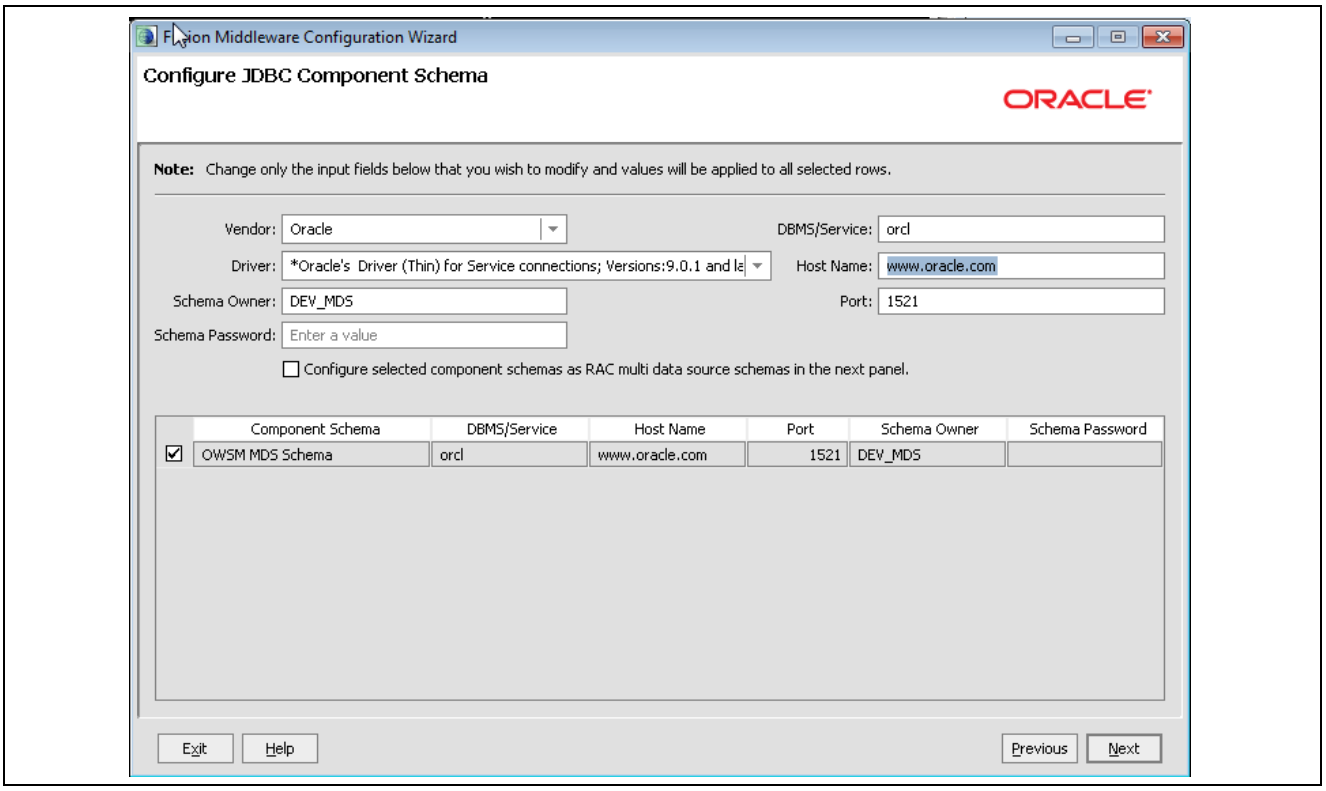

Fusion Middleware Configuration Wizard - Configure JDBC Component Schema page

9. On the Configure JDBC Component Schema page, the information that you enter must be the same as the information that you used to create the metadata repository in the preceding task in this appendix titled “Running the Repository Creation Utility.”
10. Click Next

    The Fusion Middleware Configuration Wizard - Test JDBC Component Schema page appears, as shown in the following example:

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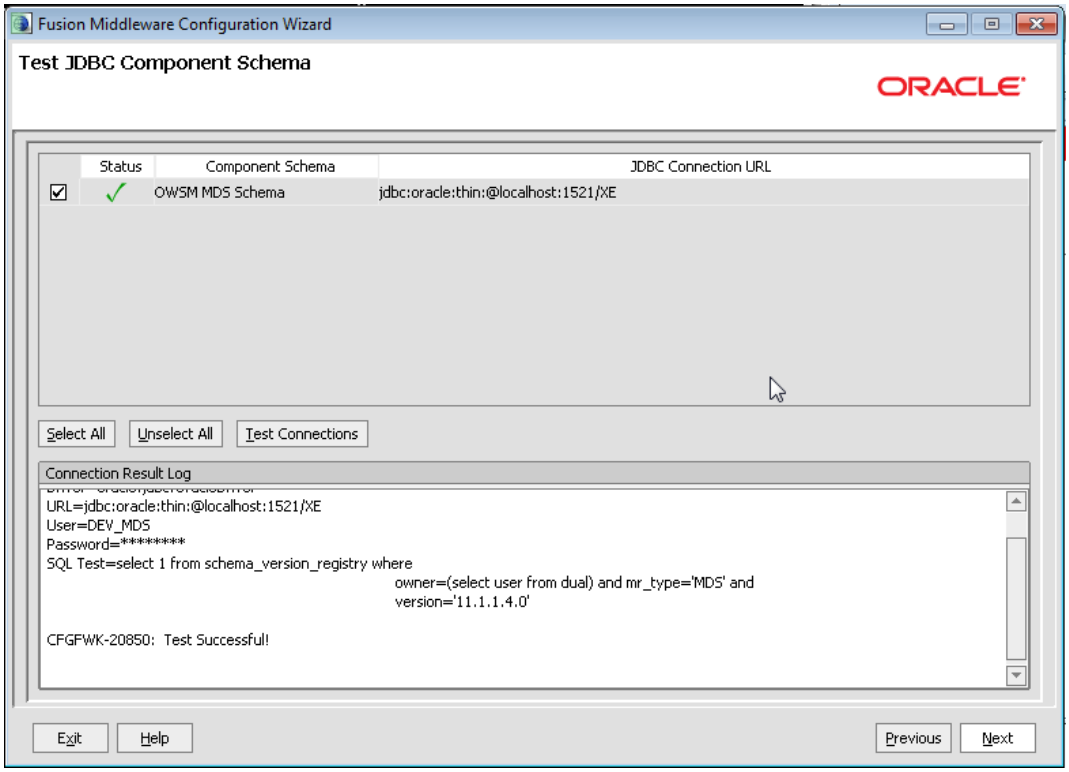

Fusion Middleware Configuration Wizard - Test JDBC Component Schema page

11. On the Test JDBC Component Schema page, no action is required, click Next.

    The Test JCBC Component Schema page confirms the information that you entered on the Configure JDBC Component Schema page is correct and can be used to install the OWSM Policy Manager.

    The Fusion Middleware Configuration Wizard - Select Optional Configuration page appears, as shown in the following example:

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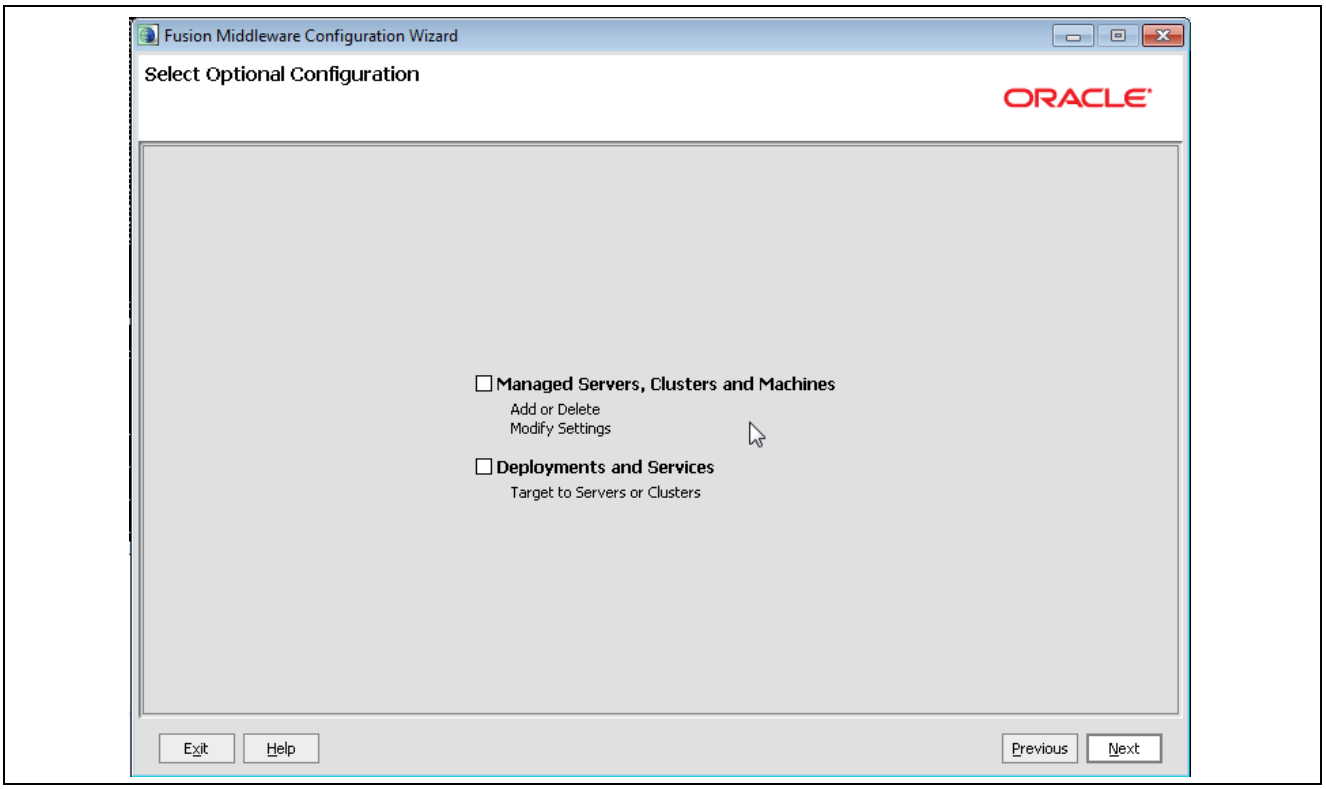

Fusion Middleware Configuration Wizard - Select Optional Configuration page

12. Leave the configuration check boxes unselected (clear), and click Next.

    The Fusion Middleware Configuration Wizard - Configuration Summary page appears, as shown in the following example:

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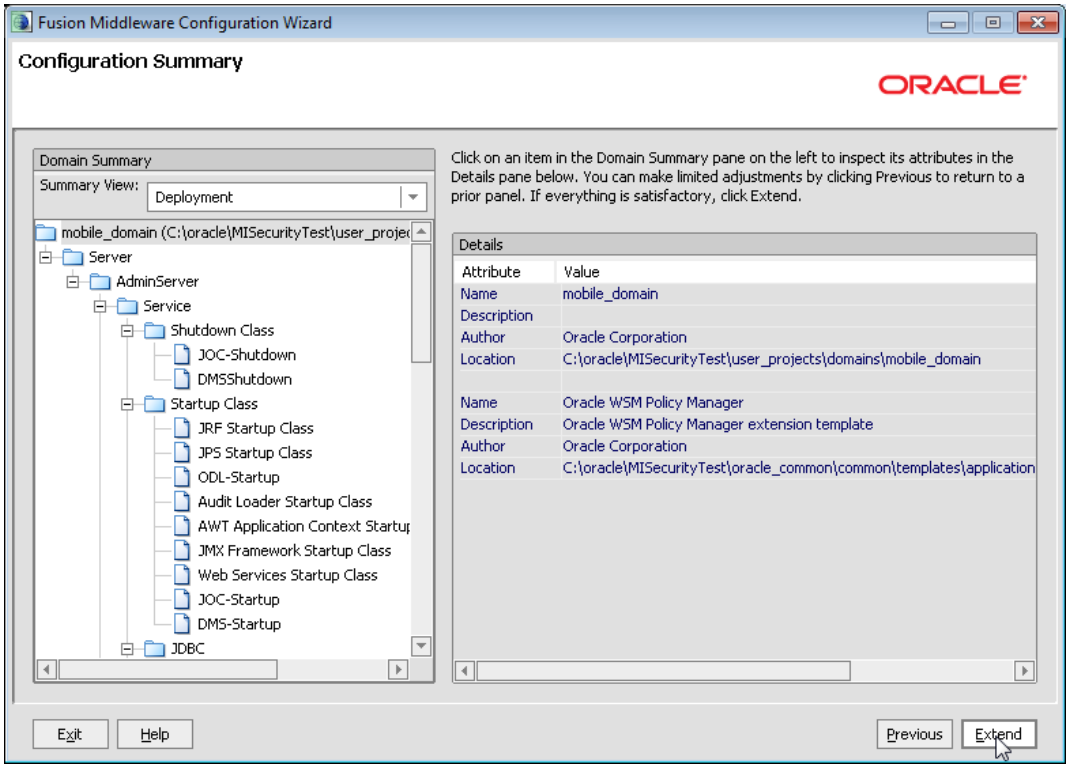

Fusion Middleware Configuration Wizard - Configuration Summary page

13. On the Configuration Summary page, verify the details of the domain and components that you selected for installation, and then click the Extend button to continue the installation.

    The Fusion Middleware Configuration Wizard - Extending Domain Progress page appears, as shown in the following example:

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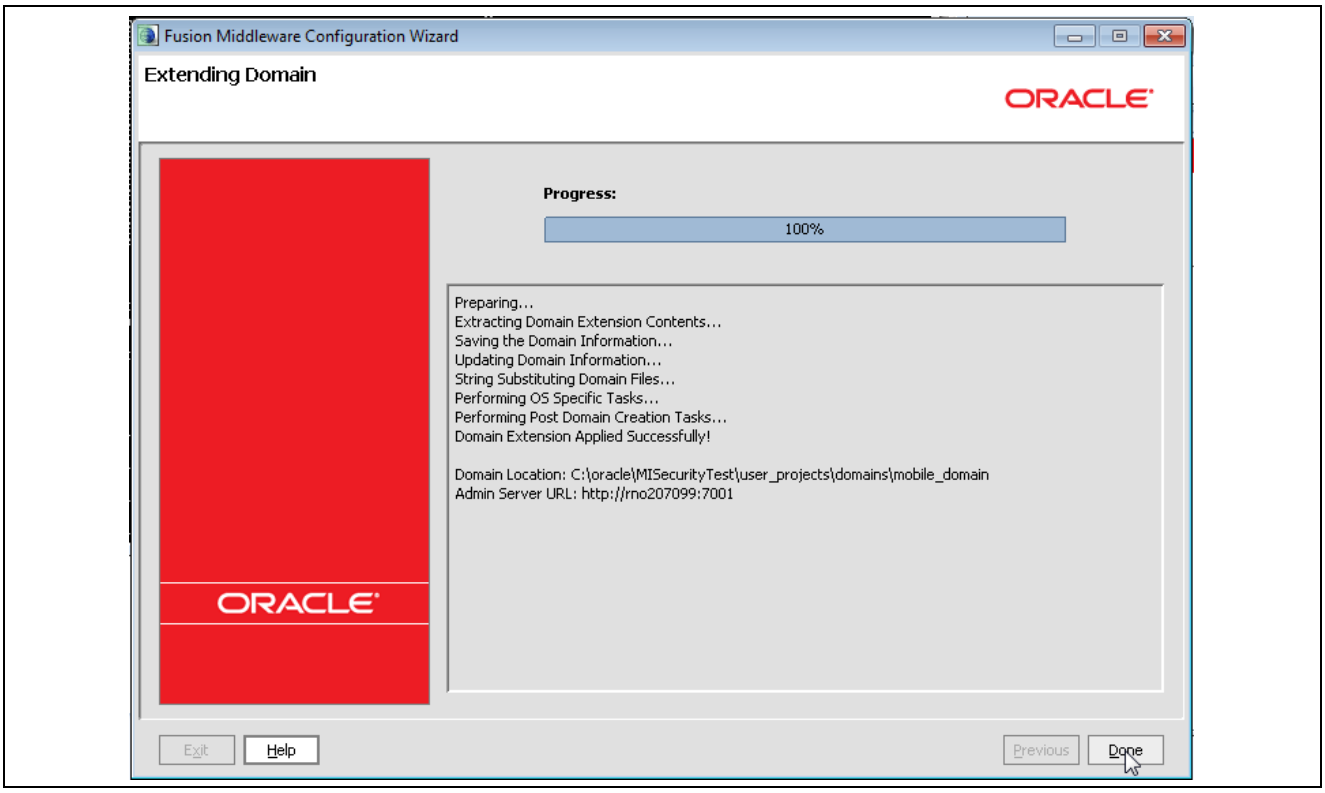

Fusion Middleware Configuration Wizard - Extending Domain Progress page

The Extend Domain page shows the progress and details of the installation.

14. When the progress reaches 100% and the Done button becomes enabled, click Done to complete the installation and exit the Configuration Wizard.

Task A-1-3: Configuring the Certificates

Understanding Configuring the Certificates

Configuring the certificates between the PeopleSoft Mobile Inventory Management server and the PeopleSoft Integration Gateway involves populating keystores and generating public certificates that are copied between the servers.

Keytool is a utility that is delivered with Java and used to manage the import and export of certificates from the keystores. You must have access to the Keytool utility from the Mobile Server Install and the PeopleSoft Install to continue with the installation.

Creating the default-keytsore.jks File on the Mobile Server

The mobile system looks for credentials in the default-keystore.jks file that is located in the subdirectory mobile-domain\config\fmwconfig. This file is created by importing the keypair.

If you do not have an x.509 certificate, you can generate one using the Keytool utility.

Note. Oracle does not recommend that you secure your production system with generated self-signed certificates.

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In the instructions that follow, Oracle provides an alias name of *mobileserv* to the certificate. The alias is used when importing the certificate to the keystore on the PeopleSoft Gateway and when configuring SAML in the PeopleSoft security system. You can change this alias, however; be aware that these installation instructions refer to the alias as *mobileserv*.

Generating or Importing the Certificate into the Default-Keystore

To generate or import the certificate into the default-keystore:

1. Run this step on the PeopleSoft Mobile Inventory Management server on the command line in the subdirectory:

   mobile_domain\config\fmwcong

2. Do one of the following:

   - If you have a keypair certificate from a certificate authority, you do not need to create one in this step. Simply import your keypair certificate into the default-keystore.jks file.
   - If you want to generate a self-signing certificate, run the following from the command line:

     Keytool –genkey –alias mobileserv –keyalg RSA –dname “CN=[machine name], OU=[Org Unit], O=[Org], L=[Location], ST=[2 letter abbreviation for state], C=[2 letter abbrevication for country]” –keypass [password] –keystore default-keystore.jks –storepass [password]

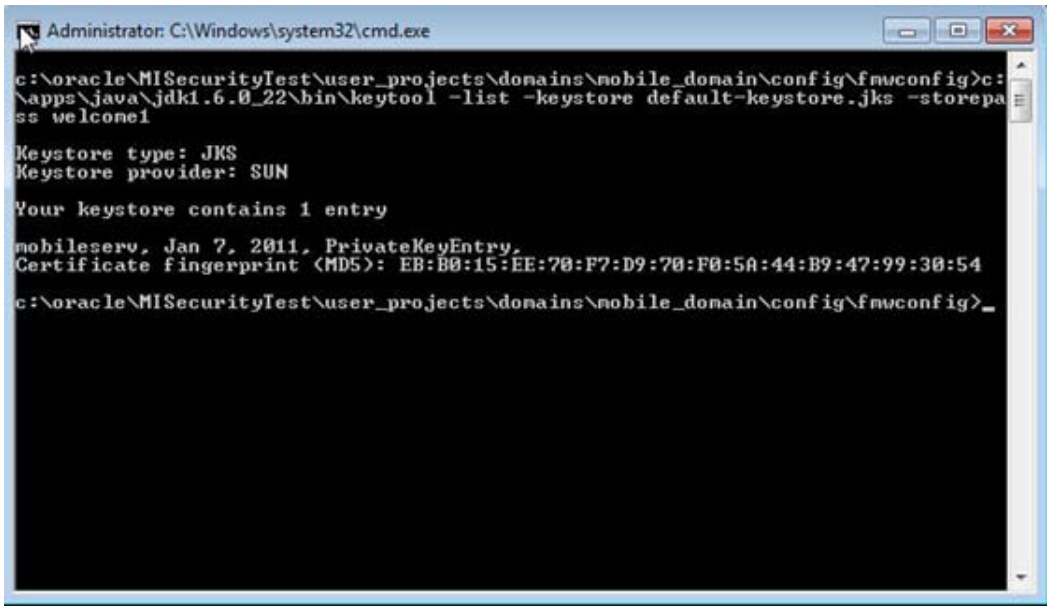
3. If you have a certificate, import your certificate into the default keystore using the *–import* option:

   Keytool –imoprtcert –alias mobileserv –file [certificate file] –keypass [password] default-keystore.jks –storepass [password]

   At this point in the installation, the default-keystore.jks file is created and contains the keypair certificate for the PeopleSoft Mobile Inventory Management server.

4. Verify that the keystore is set up correctly by running the list command to see the contents of the keystore.

   The following example shows the list command and the output identifying 1 entry, *mobileserv*:



Command Window - Default-keystore.jks list

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Exporting the mobileserv Public Key Certificate

To export the mobileserv public key certificate:

1. Run this step on the PeopleSoft Mobile Inventory Management server on the command line in the following subdirectory:

   mobile_domain\config\fmwcong

2. To create the mobileserv.cer file, enter the following command:

   Keytool –exportcert –v –alias mobileserv –keystore default-keystore.jks –storepass [password] –rfc –file mobileserv.cer

3. Copy the mobileserv.cer file to the following subdirectory:

   PSHome\webserv\peoplesoft\applications\peoplesoft\PSIGW.war\WEB-INF\classes

   This is the directory that contains the delivered PeopleSoft keystore file interop.jks.

Importing the mobileserv Certificate into the Interop Keystore

To import the mobileserv certificate into the interop keystore:

1. Run this step from the command line in the following subdirectory:

   PSHome\webserv\peoplesoft\applications\peoplesoft\PSIGW.war\WEB-INF\classes

2. Run the command to import the mobileserv certificate into the PeopleSoft keystore, interop.jks. The certificate should be in the file mobileserv.cer that was copied in step 3 of the preceding subtask.

   Keytool –importcert –alias mobileserv –file mobileserv.cer –keypass [password] –keystore interop.jks –storepass interop Trust this certificate: yes

Generating the Encryption Keypair in the Interop Keystore

The encryption node keypair allows the public key information to be encrypted in the soap header. The alias name for the encryption key should be the same as the default local node for the PeopleSoft system.

To generate the encryption keypair in the interop keystore:

1. Run this step from the command line in the following subdirectory:

   PSHome\webserv\peoplesoft\applications\peoplesoft\PSIGW.war\WEB-INF\classes

2. Run the following command:

   keytool -genkeypair -alias [default local node name] -keyalg RSA -dname “CN=[machine name], OU=[Org Unit], O=[Org], L=[Location], ST=[2 letter abbreviation for state], C=[2 letter abbrevication for country]” -keystore interop.jks -storepass interop

   At this point, the mobileserv and default local encryption certificates are in the interop.jks keystore.

3. Verify that the import was successful by running the keystore *–list* command, as shown in the following example:

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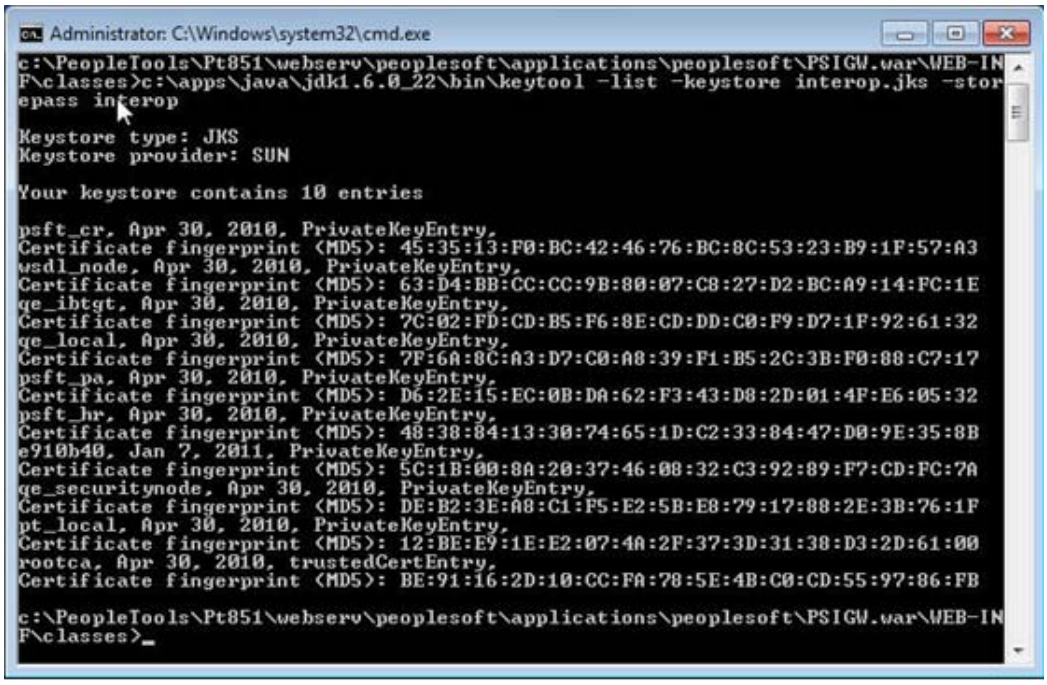

Command Window - Keystore list command displaying the contentsof interop.jks

Exporting the Encryption and Root Node Certificates

To export the encryption and root node certificates:

1. Run this step from the command line in the following subdirectory:

   PSHome\webserv\peoplesoft\applications\peoplesoft\PSIGW.war\WEB-INF\classes

2. The public key and root certificate for encryption are exported from the interop.jks keystore using the keytool *–exportcert* command, as follows:

   keytool -exportcert -v -alias rootca -keystore interop.jks -storepass interop -rfc -file rootca.cer

   keytool -exportcert -v -alias [default local node name] -keystore interop.jks -storepass interop -rfc -file [default local node name].cer

Copying the Encryption and Root Certificate Files to the Mobile Server

To copy the encryption and root certificate files to the PeopleSoft Mobile Inventory Management server:

1. Run this step from the command line in the following subdirectory:

   PSHome\webserv\peoplesoft\applications\peoplesoft\PSIGW.war\WEB-INF\classes

2. Copy the two certificate files to the following subdirectory:

   mobile-domain\config\fmwconfig

3. Run the steps that follow on the PeopleSoft Mobile Inventory Management server on the command line in the follow subdirectory:

   mobile_domain\config\fmwcong

4. Run the following commands:

   keytool -importcert -alias rootca -file rootca.cer -keystore default-keystore.jks -storepass [password]
   Trust this certificate: yes

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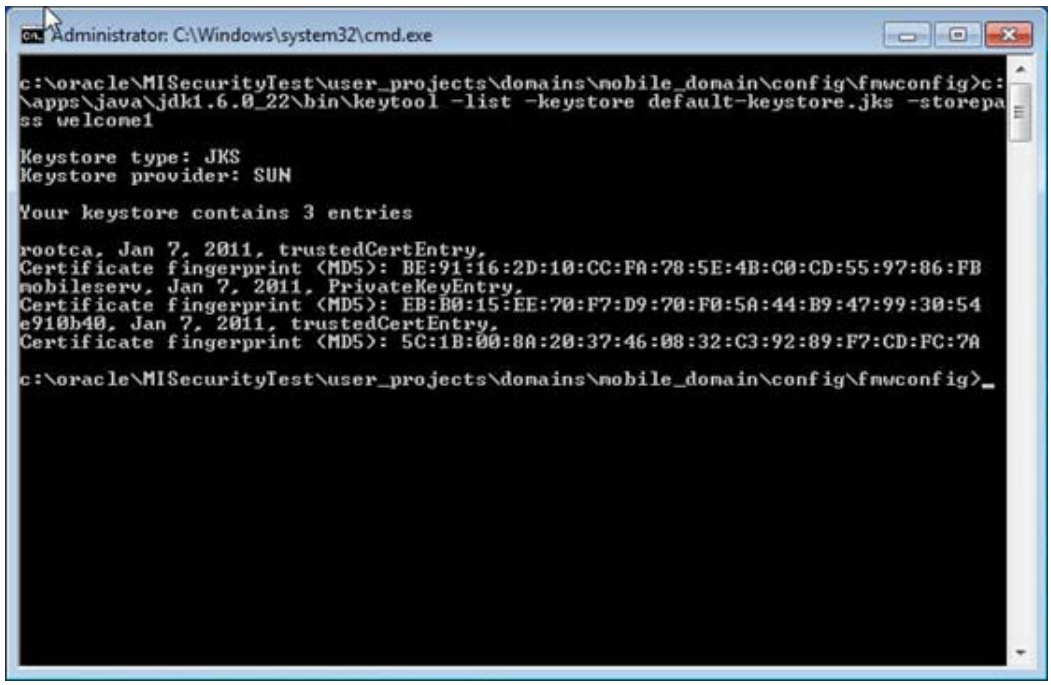
keytool -importcert -alias [default local node name] -file [default local node name].cer -keystore default-keystore.jks -storepass [password] Trust this certificate: yes

5. Verify that the import was successful by running the keytool *–list* command, as shown in the following example:



Command Window - List view of the default-keystore.jks

At this point, both keystores, the default-keystore.jks and interop.jks should contain the following three certificates:

- rootca
- mobileserv
- [default local node name]

Task A-1-4: Creating and Configuring the Keystore and Credential Store

To create and configure the credential store on the PeopleSoft Mobile Inventory Management server:

1. Start the Oracle Enterprise Manager for the PeopleSoft Mobile Inventory Management server domain.
2. From the menu, select WebLogic Domain, Security, Security Provider to access the Security Provider Configuration page, as the navigation shows in the following example:

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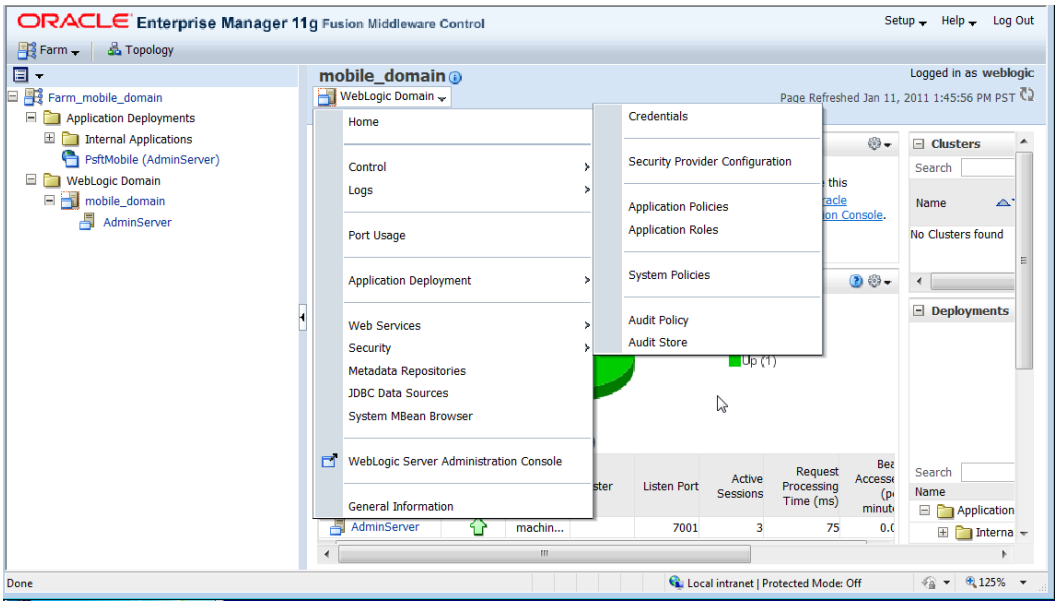
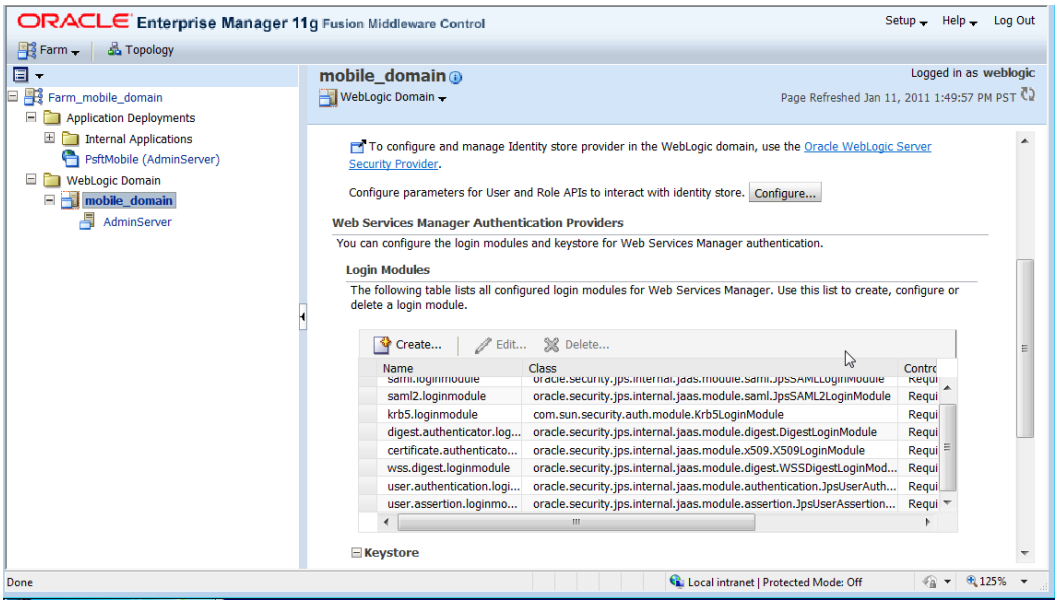


Oracle Enterprise Manager - Farm Tree menu navigation to access the Security Provider Configuration page

The Oracle Enterprise Manager - Security Provider Configuration page appears, as shown in the following example:



Oracle Enterprise Manager - Security Provider Configuration page

3. On the Security Provider Configuration page, expand the Keystore section and click the Configure button.

   The Oracle Enterprise Manager - Keystore Configuration page appears, as shown in the following example:

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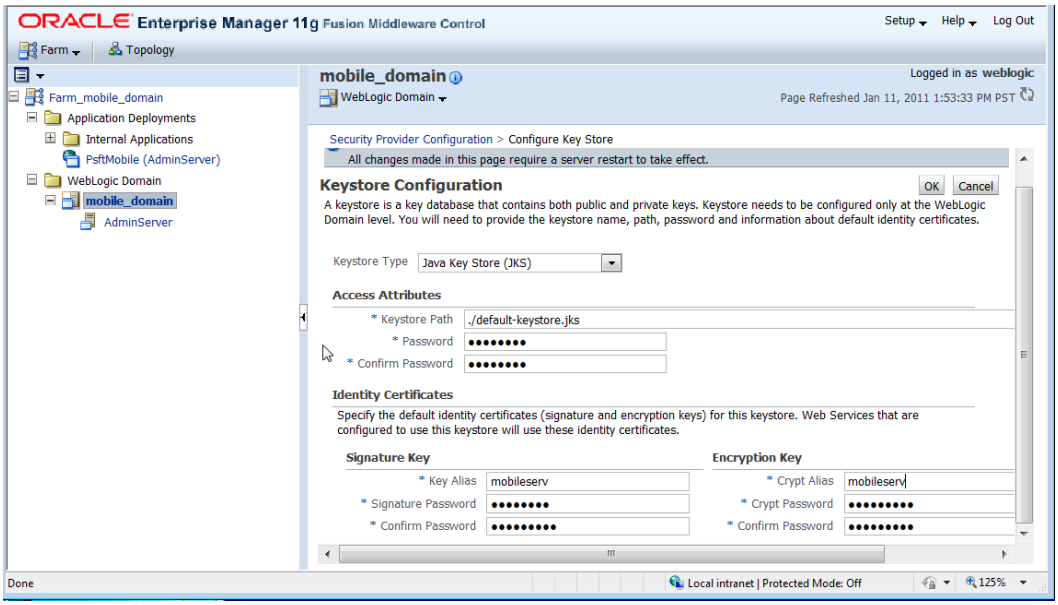


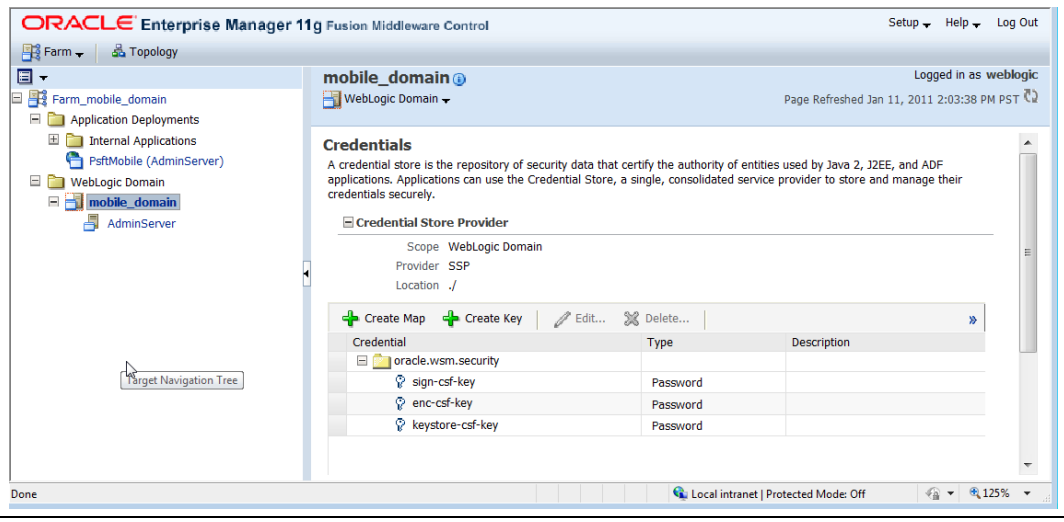
Oracle Enterprise Manager - Keystore Configuration page

4. On the Keystore Configuration page, do the following:
   - In the Keystore Type field, enter Java Key Store from the drop-down list box.
   - In the Keystore Path, enter *./default-keystore.jks*.

     The signature and encryption key should be *mobileserv*.
   - In the Password field, enter the password that you used to create the keystore in previous steps.

     The appropriate passwords used to import the certificates should be provided.
5. Access the Credentials page by selecting the domain, then from the menu select Security, Credential.

   The Oracle Enterprise Manager - Credentials page appears displaying the Credential Store information, as shown in the following example:



Oracle Enterprise Manager - Credentials page

6. On the Credentials Store page, notice that the oracle.wsm.security credential was created as part of the keystore configuration in the previous step.

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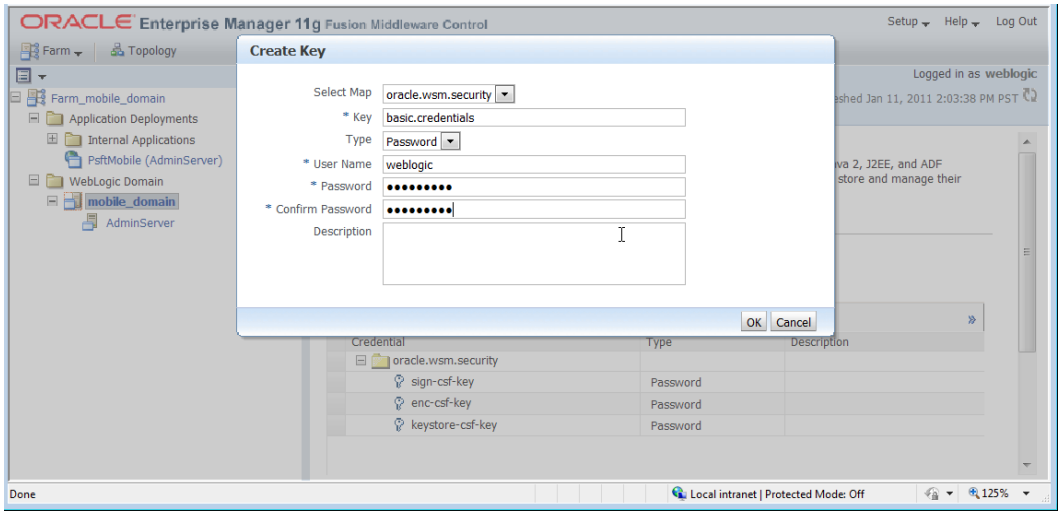
7. Click the +Create Key button to create a new key.

   The Create Key dialog box appears, as shown in the following example:



Oracle Enterprise Manager - Credentials page: Create Key dialog box

8. In the Create Key dialog box, do the following:
   - In the Key field, enter *basic.credentials*.
   - In the User Name field, enter *weblogic*.
   - In the Password field, enter a password, and then confirm the password.
   - Click OK.
9. Restart the PeopleSoft Mobile Inventory Management server for your changes to take effect.

Task A-1-5: Adding the SAML Definition Information to the PeopleSoft System

To add the SAML definition information to the PeopleSoft system:

1. Locate the mobileserv.cer file in the following subdirectory:

   PSHome\webserv\peoplesoft\applications\peoplesoft\PSIGW.war\WEB-INF\classes

   For the next few steps, refer to the following example that shows the navigation to the mobileserv.cer file and the digital certificate in a text editor:

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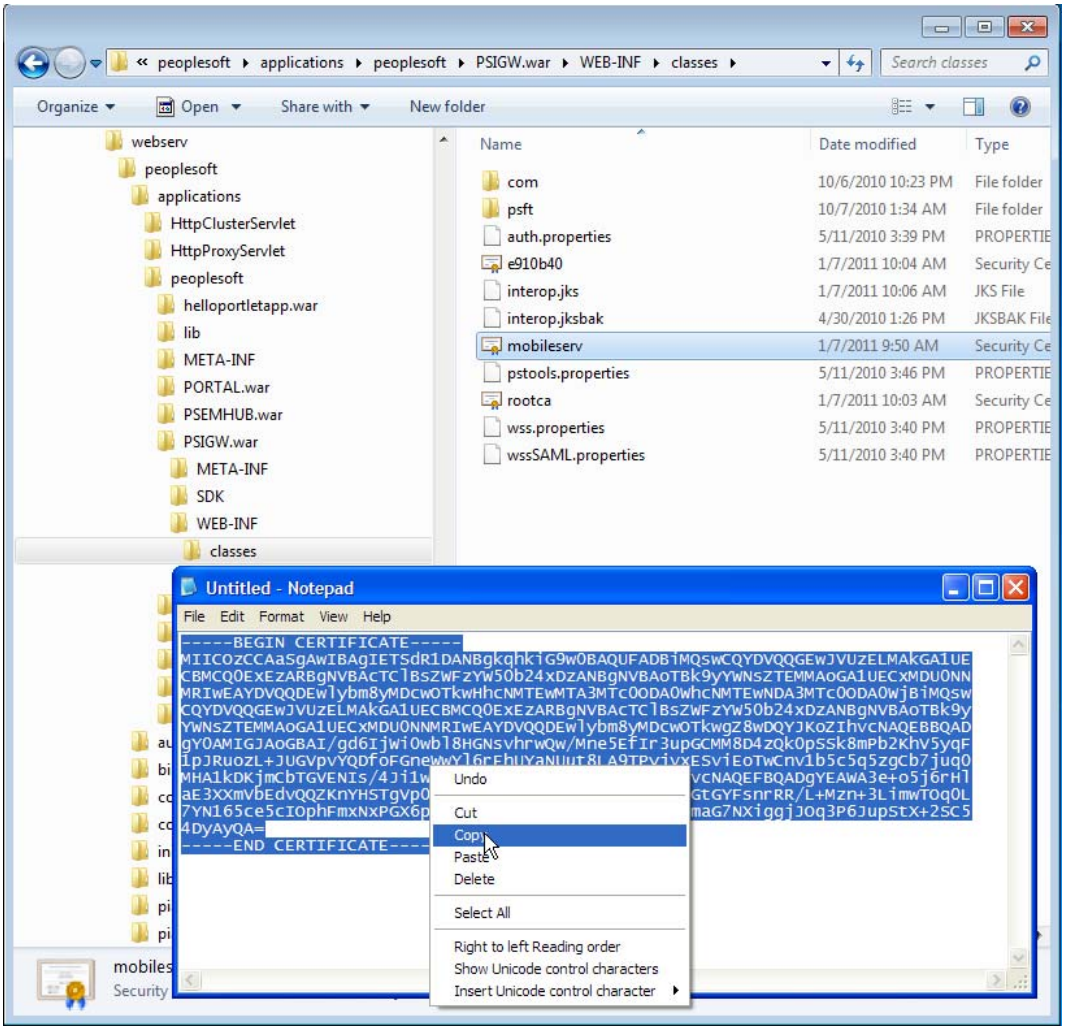

PeopleSoft - Navigation to mobileserv.cer file and digital certificate open and highlighted in text editor

2. Using a text editor, open the mobileserv.cer file.
3. In the text editor, highlight the certificate and copy it to the clipboard.
4. Log on to the PeopleSoft system and navigate to the digital certificate page by selecting PeopleTools, Security, Security Objects, Digital Certificates, as shown in the following navigation example:

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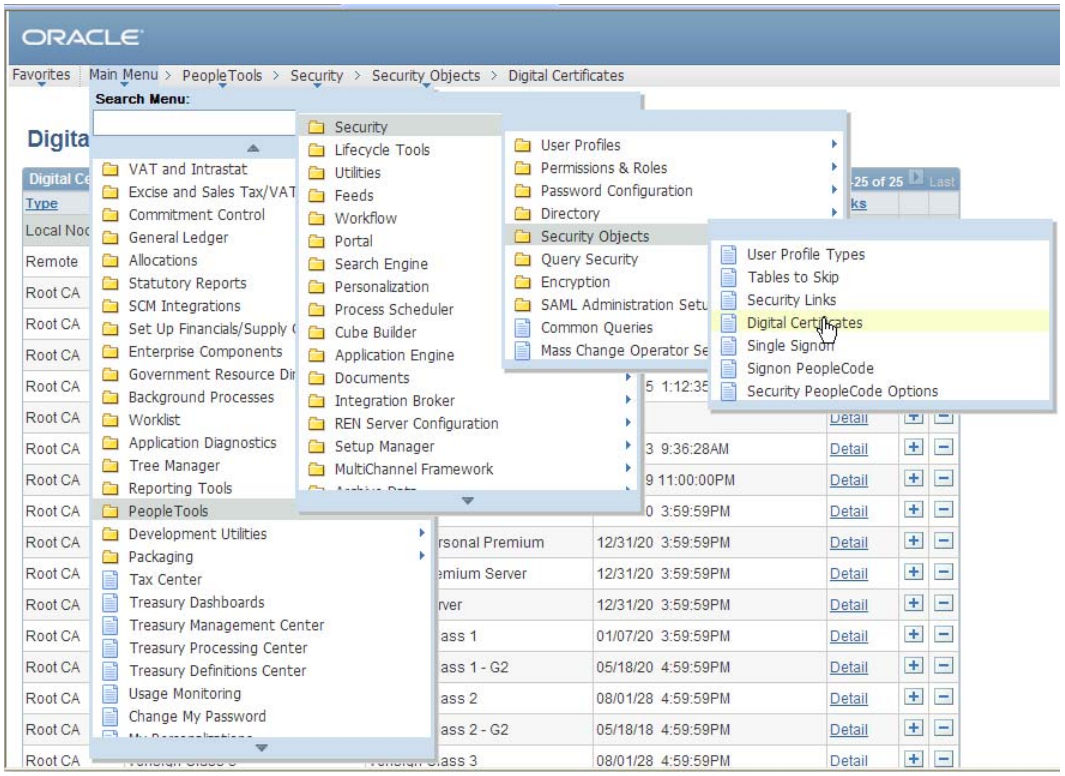

PeopleSoft system - Navigation to digital certificate

The PeopleSoft Digital Certificates page appears, as shown in the following example:

PeopleSoft Digital Certificates page

5. On the Digital Certificates page, click the Add (+) button to add a new certificate.
6. Add the mobileserv digital certificate RootCA.
7. Click the Add Root link to access the Add Root Certificate page, as shown in the following example:

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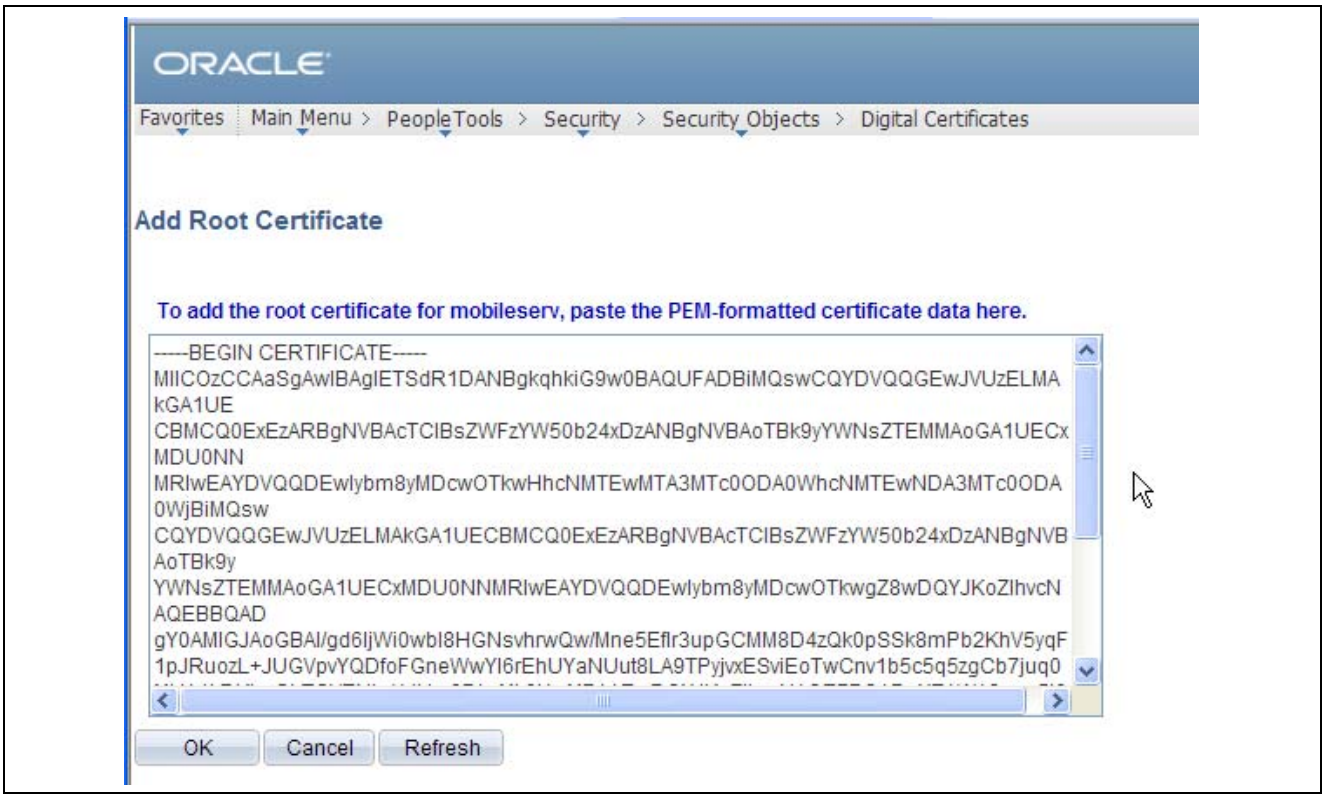
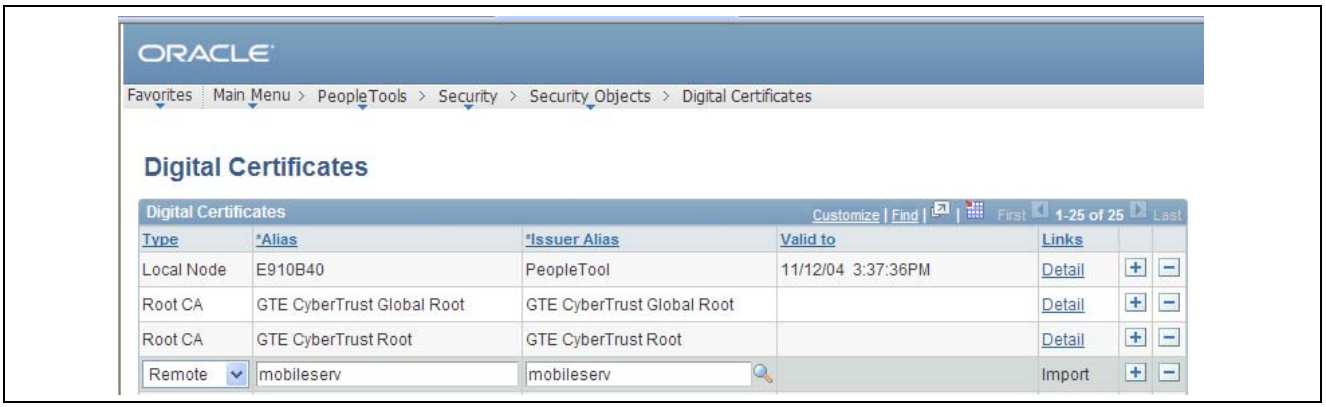


PeopleSoft Digital Certificates - Add Root Certificate page

8. Paste the contents of the clipboard into the dialog area and click OK.
9. Click the Refresh button to save the entry.

   You are returned to the Digital Certificates page, as shown in the following example:



PeopleSoft Digital Certificates page

10. On the Digital Certificates page, click the Add (+) button to add a new certificate.

    This certificate will be remote.
11. Click the Detail link next to the remote certificate and copy the contents of the clipboard into the text area for the remote certificate as well.

    At this point, the remote certificate mobileserv is identified to the PeopleSoft system and the RootCA is defined as well.

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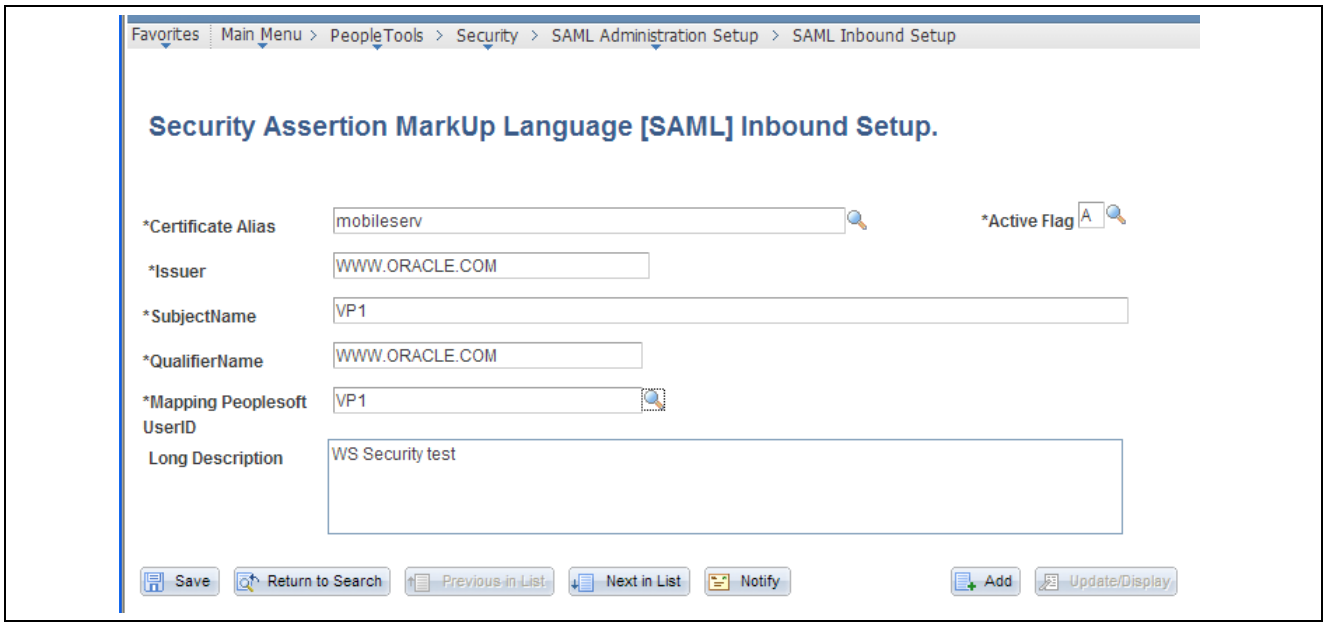
The example here assumes a self-signed certificate. If the certificate that you are using was issued by a certificate authority, then the RootCA should point to the appropriate root.

12. Select PeopleTools, Security, SAML Administation Setup, SAML Inbound Setup to access the Security Assertion Markup Language (SAML) Inbound Setup page, as shown in the following example:



PeopleSoft Security Assertion Markup Language (SAML) Inbound Setup page

13. On the Security Assertion Markup Language (SAML) Inbound Setup page, add a new entry for the PeopleSoft Mobile Inventory Management server certificate. The issuer defaults on the PeopleSoft Mobile Inventory Management web server as www.oracle.com and was not changed.
14. In the SubjectName field, enter a user of the Mobile system.

    A new entry must be added for each mobile user.
15. In the Mapping PeopleSoft UserID field, enter the same user of the Mobile system that you entered in the preceding step.
16. To enforce policies (optional), select PeopleTools, Integration Broker, Integration Setup, Services to access the Service Operations - General page, as shown in the following example:

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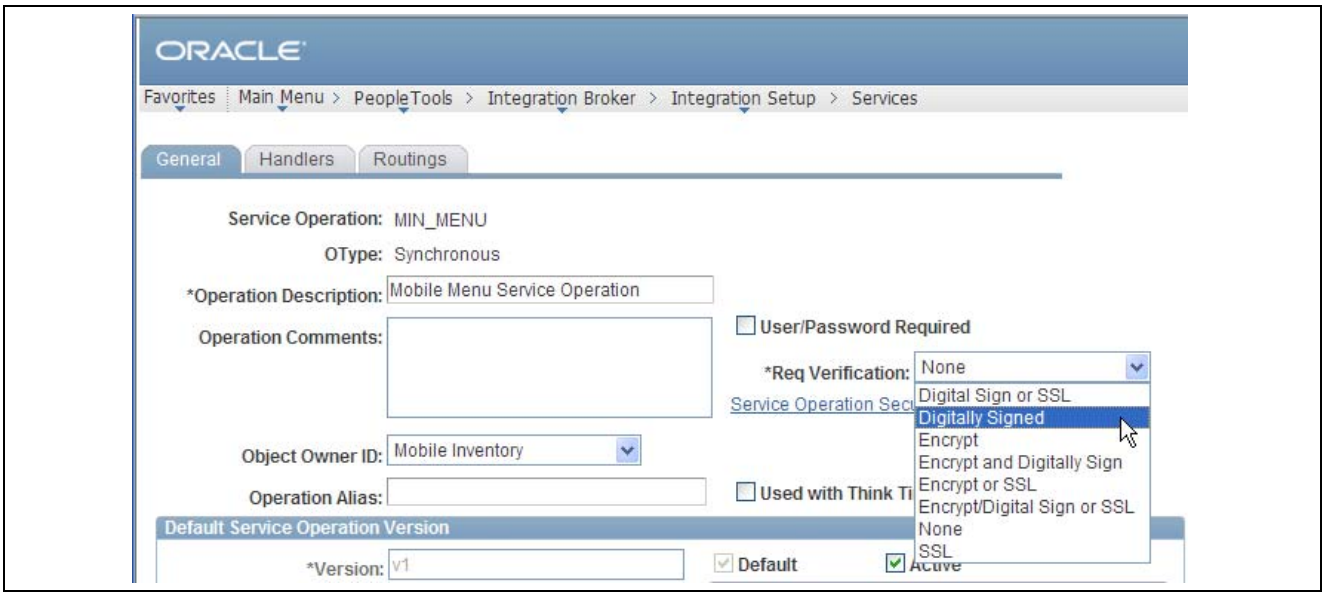

PeopleSoft Service Operations - General page

Enforcing policies on the PeopleSoft side is done at the service operation. This is an optional step that you can perform to better secure your environment.

17. Open the service operation and select the appropriate policy enforcement from the Req Verification drop-down list box.

    For example: *Digitally Signed*

18. Select PeopleTools, Integration Broker, Integration Setup, Nodes to access the WS Security page, as shown in the following example:

PeopleSoft Nodes - WS Security page

19. On the Nodes - WS Security page, select SAML Token from the Authentication Token Type drop-down list box. This changes the Anonymous Node to identify the SAML Token Authentication Type.

    This is applied to all web services. Alternatively, this can be done at the routing level for each web service with SAML Authentication Type.

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20. Modify the wssSAML.properties file that is located in the following subdirectory: PSHome\webserv\peoplesoft\applications\peoplesoft\PSIGW.war\WEB-INF\classes

    Change the Issuer and subjectNameID.qualifier to www.oracle.com, as shown in the following example:

```
org.apache.ws.security.saml.issuerClass=com.peoplesoft.pt.security.wss.action.PSSAMLIssuerImpl
org.apache.ws.security.saml.issuer=www.oracle.com
org.apache.ws.security.saml.subjectNameId.qualifier=www.oracle.com
org.apache.ws.security.saml.authenticationMethod=password
org.apache.ws.security.saml.confirmationMethod=senderVouches
```

wssSAML.properties file

Task A-1-6: Updating the connections.xml to Enforce Security Policies

The connections.xml file is delivered without any security policies. You can update the connections.xml file in the PeopleSoft Mobile Inventory Management application to include client security policies.

To update the connections.xml to enforce security policies:

1. Open the PeopleSoft Mobile Inventory Management application in JDeveloper, and then open the Application Resources section and expand the Descriptors and ADF META-INF sections, as shown in the following example:

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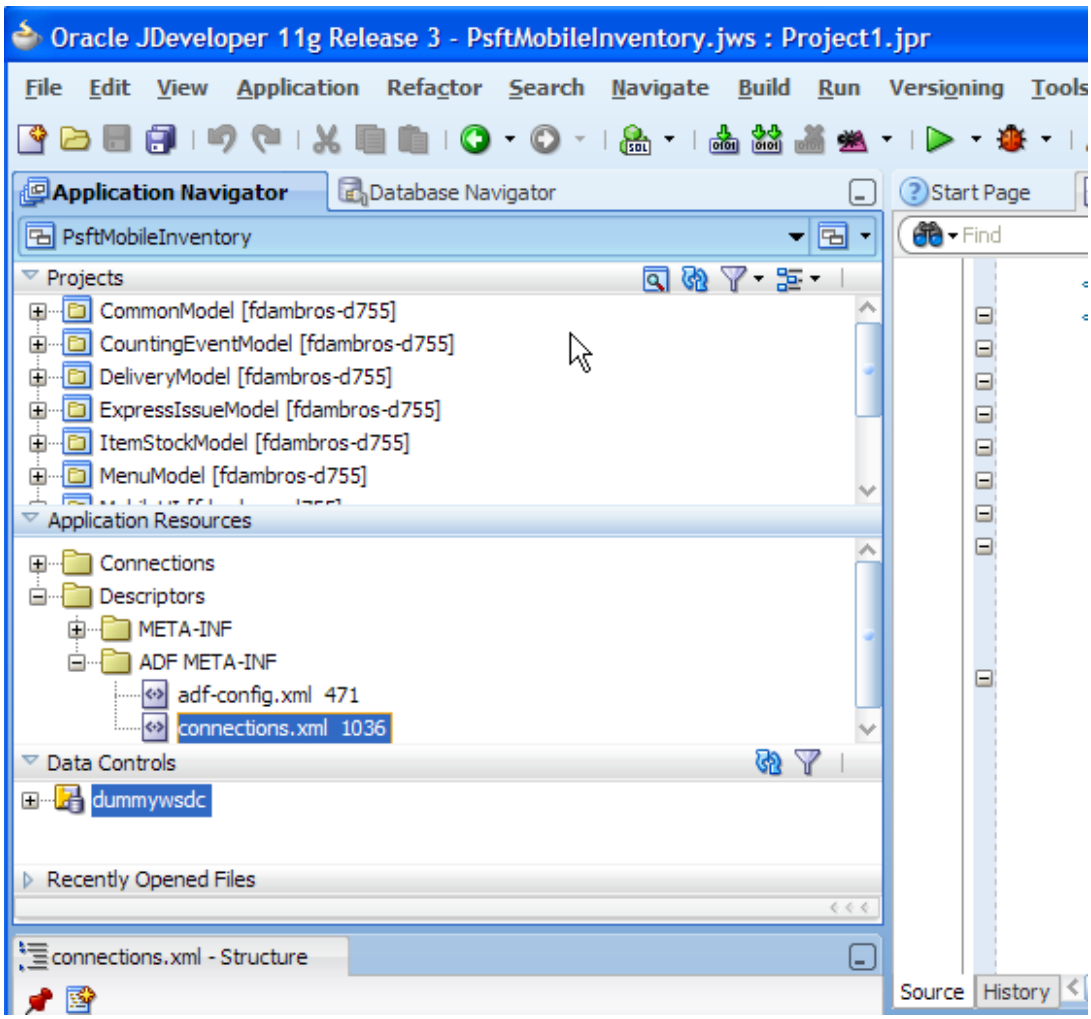

PeopleSoft Mobile Inventory Management - Navigation to locate the connections.xml file

To add WS-Security to the PeopleSoft Mobile Inventory Management application, a security policy must be attached to each service.

2. To add security policies to the web service calls, double-click the connections.xml file to open it.

It should open as shown in the following example:

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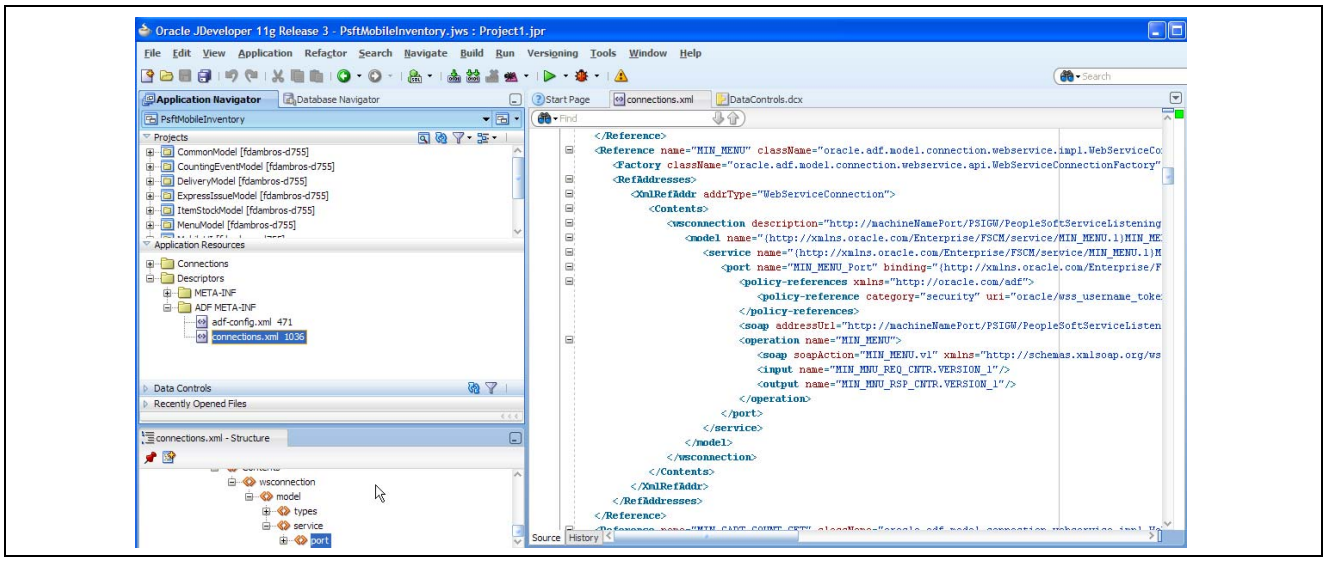

Oracle JDeveloper - Opening connections.xml file

The Connections.xml file contains an entry for each web service used in the PeopleSoft Mobile Inventory Management application. Each web service entry begins with <Reference name=" . . . and ends with </Reference>.

To add a policy to a web service:

3. Add the following XML after the <port . . . > and before the <soap . . . > tags, as shown in the following example:

   <policy-references xmlns="http://oracle.com/adf"> <policy-reference category="security" uri="oracle/wss10_saml_token_with_message_integrity_client_policy" enabled="true" id="oracle/wss10_saml_token_with_message_integrity_client_policy" xmlns=""/> </policy-references>

   This policy adds the SAML token client policy to the SOAP header when the web service is called, as shown in the following example:

```
<service name="{http://xmlns.oracle.com/Enterprise/FSCM/service/MIN_MENU.1}MIN_MENU">
   <port name="MIN_MENU_Port"
         binding="{http://xmlns.oracle.com/Enterprise/FSCM/service/MIN_MENU.1}MIN_MENU_Binding">
      <policy-references xmlns="http://oracle.com/adf">
         <policy-reference category="security"
                           uri="oracle/wss10_saml_token_with_message_integrity_client_policy"
                           enabled="true"
                           id="oracle/wss10_saml_token_with_message_integrity_client_policy"
                           xmlns=""/>
      </policy-references>
      <soap addressUrl="http://rno207099/PSIGW/PeopleSoftServiceListeningConnector"
            xmlns="http://schemas.xmlsoap.org/wsdl/soap/"/>
      <operation name="MIN_MENU">
```

Example of completed policy attached to the web service

4. You must repeat this for each service in the connections.xml file that you want to secure.
5. After these changes are made, the PeopleSoft Mobile Inventory Management system must be redeployed to the web server that was configured previously in the installation.

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