



BEA WebLogic Mobility Server

Installation Guide

Version 3.5
March 2007

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Contents

Introduction	1
About This Manual	1
Intended Audience	1
Using This Guide.....	1
1—Perform Pre-Installation Task	2
Configure the Java Path.....	2
2—Install WebLogic Mobility Server 3.5	4
Install WebLogic Mobility Server on MS Windows 2000.....	4
Install WebLogic Mobility Server on Sun Solaris, RedHat Linux or HP-UX.....	16
3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X	
Installations	20
Configure the WebLogic Mobility Server Install Location in Workshop	20
Configure the Device Emulators for use within BEA Workshop for WebLogic Platform 9.X	22
Create the Workshop Domain.....	24
Create the Portal Domain and Create the Sample Mobility Portal Project	31
4—Additional Configuration: Mobility Extension for BEA WebLogic Workshop 8.1	
Installations	52
Configure the WebLogic Mobility Server Location (Optional)	52
Configure the Device Emulators for use within BEA WebLogic Workshop 8.1	54
Create the Workshop Domain and Install the Sample Workshop Projects	56
Create the Portal Domain and Create the Sample Mobility Portal Project	68
Next Steps	79
Install the Device Repository.....	79
Additional Steps	79
Appendices	80
Appendix A: Update the WebLogic Mobility Server Install Location with BEA WebLogic Workshop	80
Appendix B: Mobility Framework for WebLogic Portal 9.2.....	81

Introduction

About This Manual

This document describes the process for installing BEA WebLogic Mobility Server™ version 3.5.

Please read this document before commencing installation to ensure you comply with the installation pre-requisites and have access to relevant installation configuration information.

Note: The WebLogic Mobility Server installer also installs the Device Repository that WebLogic Mobility Server uses to obtain device profile information

Intended Audience

It is recommended that your IT department, database/development team or a technical consultant perform the tasks outlined in this document.

Begin by reading the section below, which explains how to use the guide.

Using This Guide

The document is divided into five chapters:

1. The “1—Perform Pre-Installation Task” chapter explains how to configure the Java path.
2. The “2—Install WebLogic Mobility Server 3.5” chapter describes the WebLogic Mobility Server installation process and is split into two sections: “Install WebLogic Mobility Server on MS Windows 2000” and “Install WebLogic Mobility Server on Sun Solaris, RedHat Linux and HP-UX”. Complete the steps in the section relevant to your operating system.
3. Complete the steps in chapter “3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.1 Installations” if you installed WebLogic Mobility Server on BEA WebLogic Platform 9.X, or opted to install the Mobility Plugin for BEA Workshop while completing the steps described in the installation chapter.
4. Complete the steps in chapter “5—Additional Configuration: Mobility Extension for BEA WebLogic Workshop 8.1 Installations” if you installed WebLogic Mobility Server on BEA WebLogic 8.1, or opted to install the Mobility Extension for BEA Workshop while completing the steps described in the installation chapter

See the “Next Steps” chapter for information on how to proceed once you have installed WebLogic Mobility Server and performed any necessary configuration.

The Appendices chapter explains how to update the WebLogic Mobility Server install location with BEA WebLogic Workshop and describes the Mobility Framework for WebLogic Portal 9.2.

Notes:

- The term “Mobility Extension for BEA Workshop” used in the document refers to both the Mobility Extension for BEA WebLogic Workshop 8.1 and the Mobility Plugin for BEA Workshop for WebLogic Platform 9.X
- The term `<WLMS_install_directory>` refers to either `<BEA_install_directory>\weblogic81\mobility` or `<BEA_install_directory>\weblogic92\mobility` depending on your installation

1—Perform Pre-Installation Task

Configure the Java Path

Before you install the product, you must ensure that the search path contains an entry pointing to an executable Java binary file, and that the “JAVA_HOME” environment variable points to the directory containing a full JDK. For instructions on how to do this, see either the “Configure the Java path on MS Windows 2000” or the “Configure the Java path on Sun Solaris, RedHat Linux and HP-UX” section below, according to your operating system.

Configure the Java path on MS Windows 2000

The example used here assumes that Java is installed at **C:\jdk1.4.2_05**.

1. Choose **Start → Settings → Control Panel**. In the Control Panel, double-click on the System icon to launch the System Properties dialog.
2. Click the **Advanced** tab and click **Environment Variables**.
3. Modify either the “User variables” or the “System variables” as required. Firstly, verify that your system is not pre-configured by inspecting the “JAVA_HOME” and “Path” settings to ensure that your chosen JDK is not mentioned. Then follow these steps:

- Create or edit the “JAVA_HOME” entry, setting it to “C:\jdk1.4.2_05”
- Edit the “Path” entry by adding “C:\jdk1.4.2_05\bin;” to the beginning of this entry

Note: To edit a variable, select the variable in the **User variables/System variables** section and click **Edit**. The “Edit System Variable” dialog is displayed. Edit the value in the **Variable value** field by clicking in the field and placing the cursor at the start of the entry, and then entering “C:\jdk1.4.2_05\bin;” BEFORE the entry. Click **OK**. Click **OK** again.

4. Now, to report your Java version, launch a command window and execute:
 - `java -version`

Configure the Java path on Sun Solaris, RedHat Linux and HP-UX

The example used here assumes that Java is installed at **/opt/jdk1.4.2_05**.

1. To ensure that the “Path” and “JAVA_HOME” environment variables do not already point to your JDK, launch a command prompt and execute:

- `env`

2. Then follow these steps:

For bash and other sh-compatible shells, execute the following commands:

- `JAVA_HOME=/opt/jdk1.4.2_05`
- `export JAVA_HOME`
- `PATH=$JAVA_HOME/bin:$PATH`
- `export PATH`

For csh-compatible shells, execute the following commands:

- `setenv JAVA_HOME /opt/jdk1.4.2_05`

- `set path=($JAVA_HOME/bin $path)`
3. Now, to report your Java version, execute:
- `java -version`

Note: These settings only remain valid for the duration of this command window.

2—Install WebLogic Mobility Server 3.5

This chapter describes the installation of WebLogic Mobility Server 3.5 and is split into two sections: “Install WebLogic Mobility Server on MS Windows 2000” and “Install WebLogic Mobility Server on Sun Solaris, RedHat Linux and HP-UX”. Complete the steps in the section relevant to your operating system

Install WebLogic Mobility Server on MS Windows 2000

This section explains the installation procedure for installing WebLogic Mobility Server on MS Windows 2000.

Introduction

The *mobilityServer35_win.exe* installation application is used to install WebLogic Mobility Server on MS Windows 2000.

License

A BEA WebLogic Mobility Server license file must be integrated into the *bea.license* file of your WebLogic Server.

Your sales representative should provide this file to you along with the product CDs. Please contact your sales representative if you have not yet received your license file.

Once you have updated your license, you will be able to develop and test mobile-device ready content. If you have a developer or evaluation license, the software installer will install an evaluation version of the Device Repository enabling testing on a number of popular device emulators as well as a number of popular mobile and PDA devices. A production license must be present to install and use the full Device Repository. **Note:** An invalid license will result in HTML being delivered.

Please contact a sales representative if you wish to extend your evaluation or developer license or upgrade to a production license.

Installation Prerequisites

This installation application requires 140 MB of free space on the machine in order to complete the install.

Software Prerequisites

The following software must be installed prior to installing WebLogic Mobility Server:

Operating System

- MS Windows 2000/XP (development) or 2003 (deployment)

Application Server

The application server is required in order to use WebLogic Mobility Server:

- BEA WebLogic Server 8.1 SP2 - SP6
- BEA WebLogic Platform 8.1 SP2 - SP6
- BEA WebLogic Server 9.X
- BEA WebLogic Platform 9.X

Authoring Environment

An authoring environment facilitates working with mobility tags:

- BEA WebLogic Workshop 8.1

OR

- BEA Workshop for WebLogic Platform 9.X

Internet Browser

- Netscape 4.75 or higher

OR

- Internet Explorer 5 or higher

Database (optional)

- MySQL 3.53 and above
- Oracle 9i, 10i
- PointBase 4.4
- Postgres 7.3.2 and above
- SQL Server 2000
- Sybase Adaptive Server Enterprise 12.5
- IBM DB2 Universal Database 8.1

JDK

For WebLogic:

- Sun JDK 1.4.X or Sun JDK 1.5.X or JRockit 1.4.X or JRockit 5.0

Note: Java JDK/JRE must be on the search path, with JAVA_HOME set correctly.

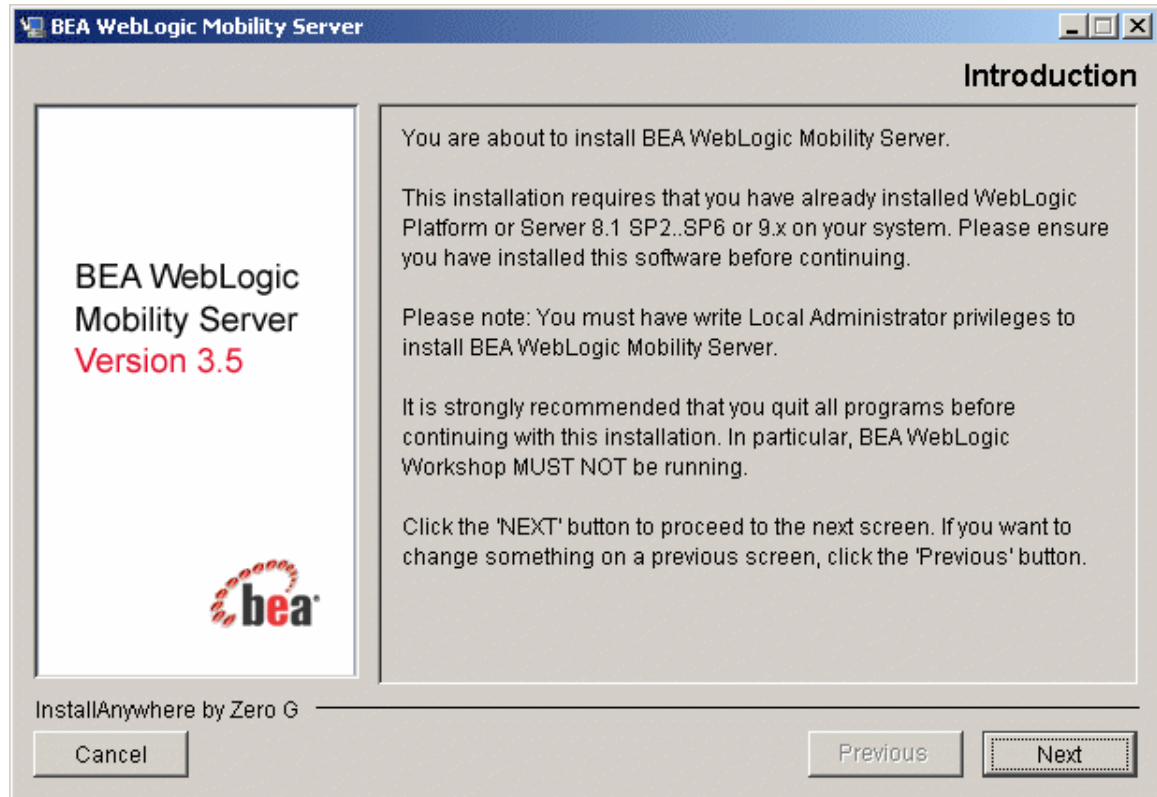
Administration Rights

This installation application requires administration rights on the machine in order to complete the installation.

Installation Procedure for Windows

1. Run the WebLogic Mobility Server installation application.
2. The installation “Introduction” dialog is displayed.

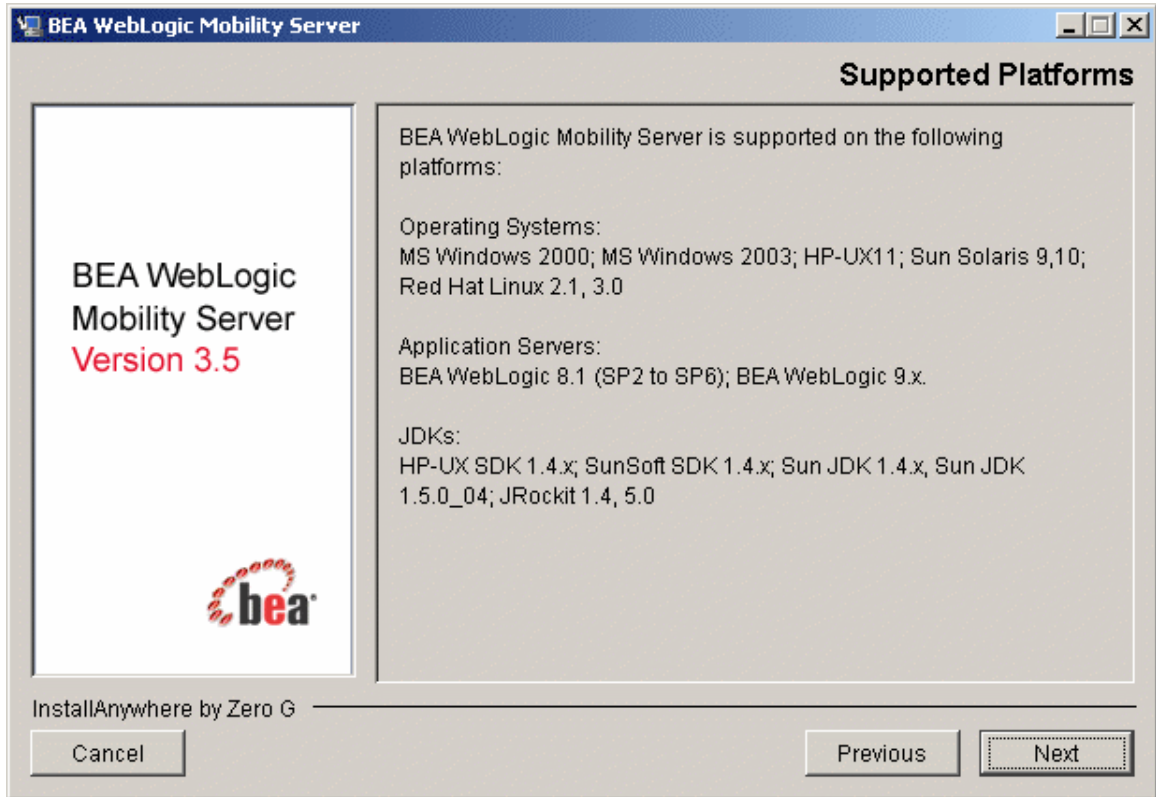
WebLogic Mobility Server Introduction dialog



3. Select **Next** to continue.

4. The “Supported Platforms” dialog is displayed.

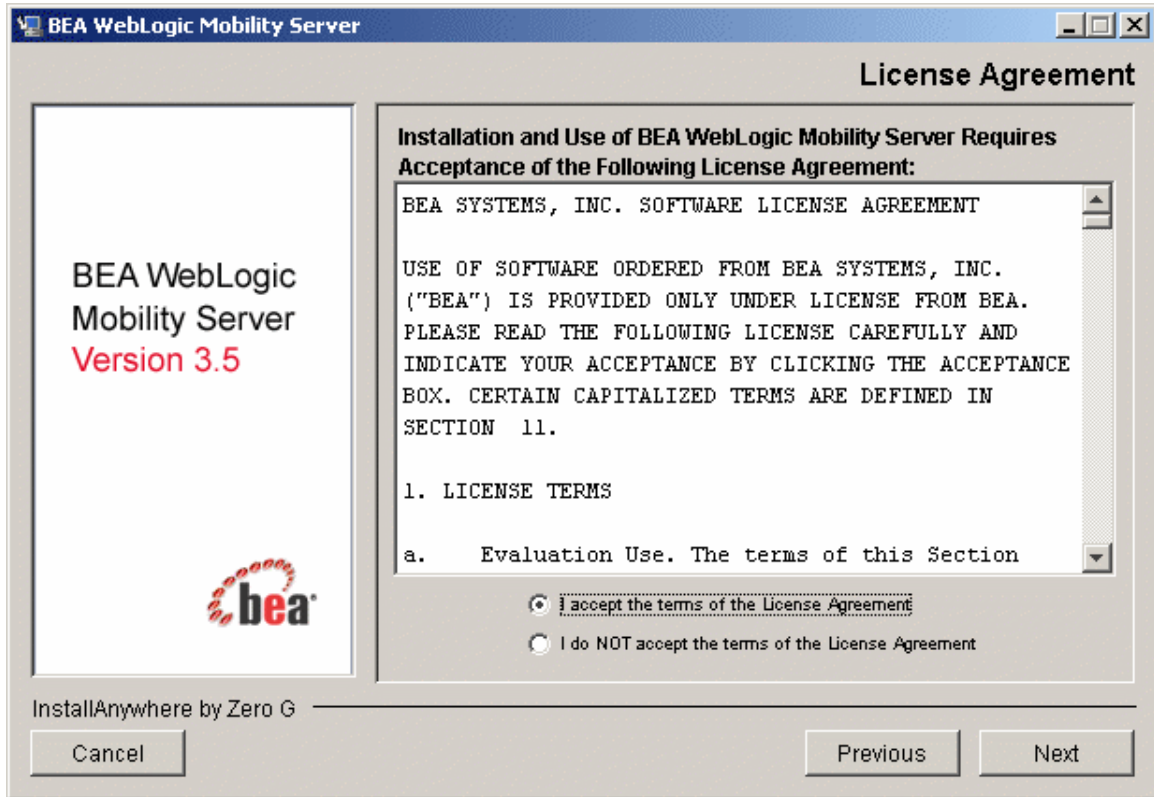
WebLogic Mobility Server Supported Platforms dialog



5. Click **Next**.

6. The “License Agreement” dialog is displayed.

License Agreement dialog

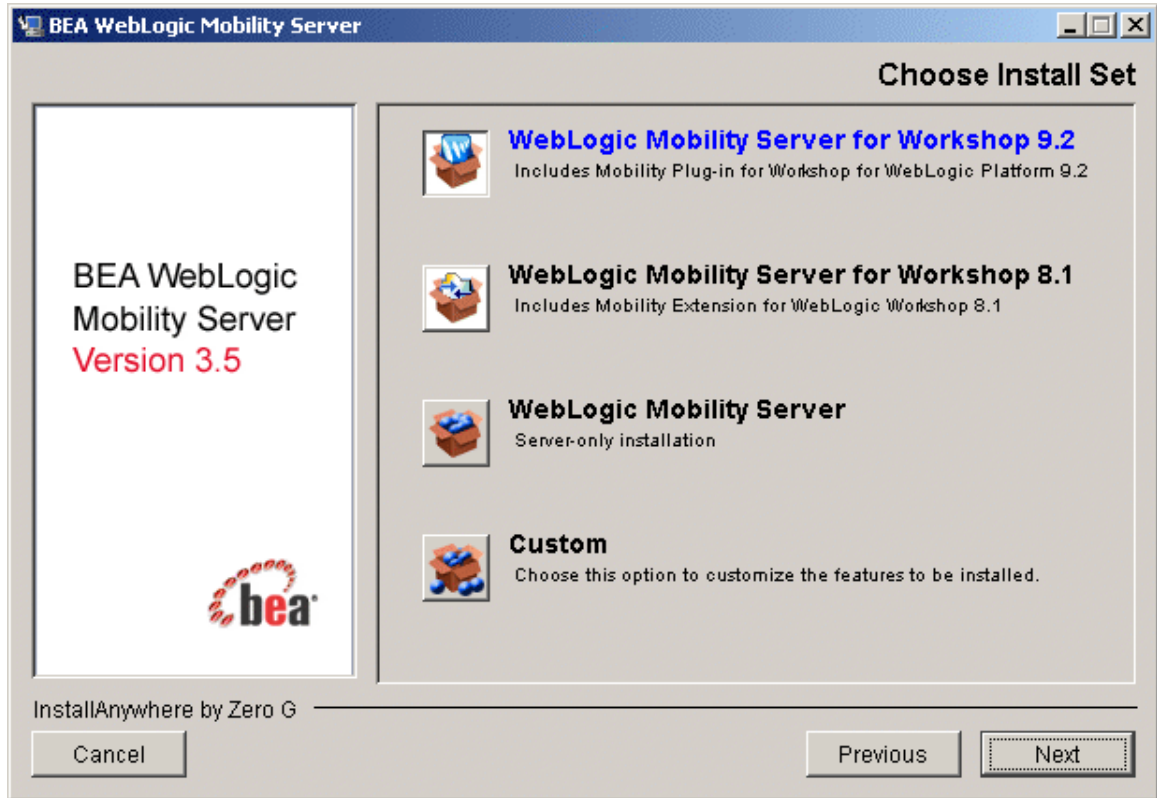


7. Read the license agreement and select the **I accept the terms of the License Agreement** radio button if you are satisfied with the terms.
8. Click **Next** to continue with the install.

Note: The **Next** button is unavailable if the terms are not accepted.

9. The “Choose Install Set” dialog is displayed.

Choose Install Set dialog



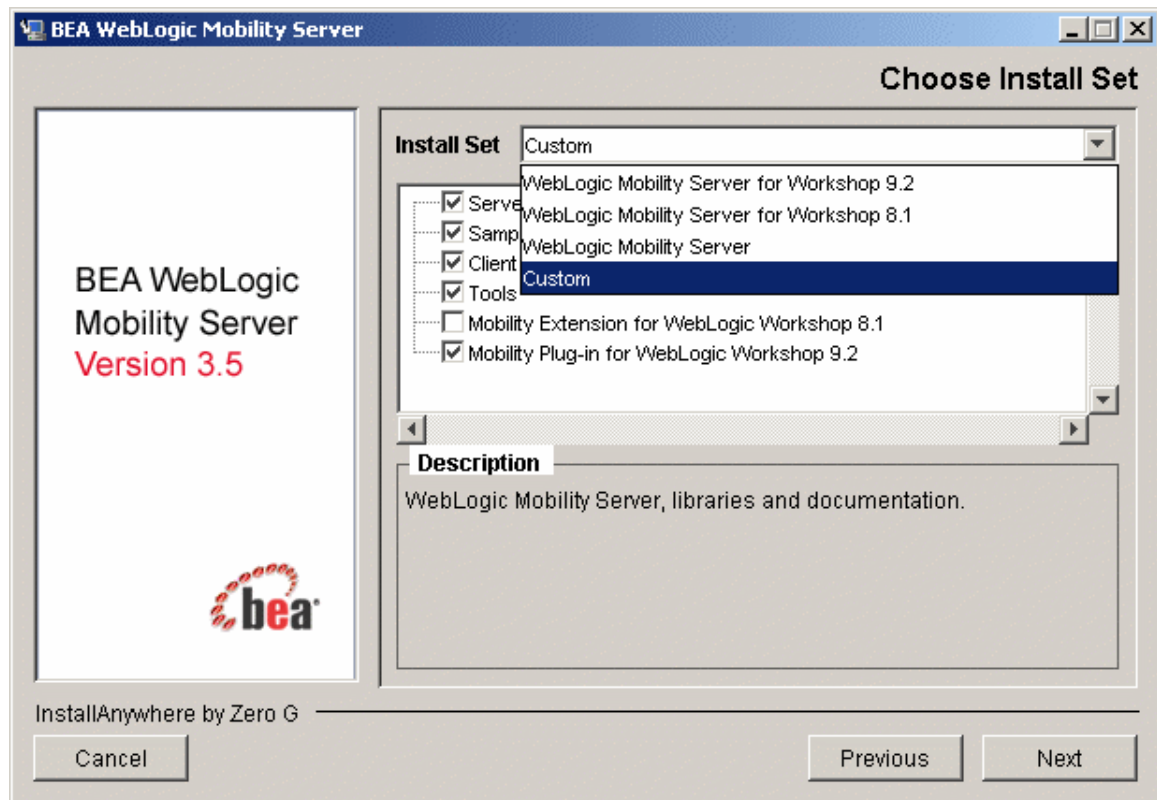
10. Select the appropriate installation option and click **Next** to continue:

- The **WebLogic Mobility Server for Workshop 9.2** option features the Mobility Plug-in for BEA Workshop for WebLogic Platform 9.X, which extends the BEA Workshop IDE, enabling the creation of multi-channel applications and extending existing applications for access from wireless devices
- The **WebLogic Mobility Server for Workshop 8.1** option features the Mobility Extension for BEA WebLogic Workshop 8.1, which extends the BEA Workshop IDE, enabling the creation of multi-channel applications and extending existing applications for access from wireless devices
- The **WebLogic Mobility Server** option features regular WebLogic Mobility Server installation
- The **Custom** option allows you to choose the WebLogic Mobility Server components that you want to install

Note: The installer will place mobility tutorials at `<WLMS_install_directory>/samples/tutorials` as part of the install. See the “Deploy the Getting Started Tutorials” chapter of the *BEA WebLogic Mobility Server Getting Started Guide* with regard to the tutorials.

11. IF you chose the **Custom** option on the “Choose Install Set” dialog, the second “Choose Install Set” dialog is displayed.

Second Choose Install Set dialog



12. From the **Install Set** drop-down, select the appropriate option (**Custom** is default).
13. The WebLogic Mobility Server components contained within the selected install set will display with their corresponding check boxes selected in the section underneath. Select or de-select components for installation as required.

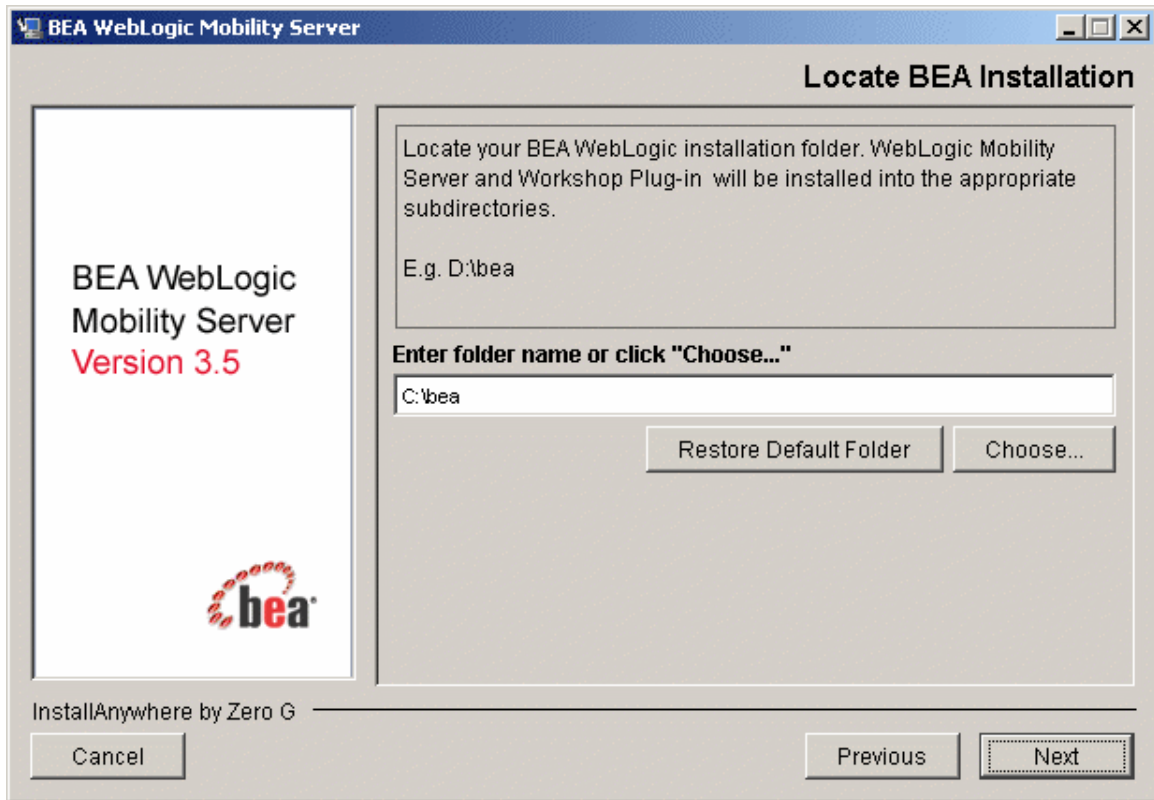
Note: This dialog allows you to de-select or select additional components for installation from the **Custom** install set as required. The installer will not allow you to de-select or select components from the other install sets—it will revert to the **Custom** option if you attempt to do so.

Note: If you have been using an old WebLogic Mobility Server installation, and want to install a new version of WebLogic Mobility Server in a new location, when you first start BEA Workshop you must update the new WebLogic Mobility Server install location (for WebLogic 8.X and 9.X platforms). See the Appendix for details on how to do this.

14. Click **Next**.

15. The “Locate BEA Installation” dialog is displayed.

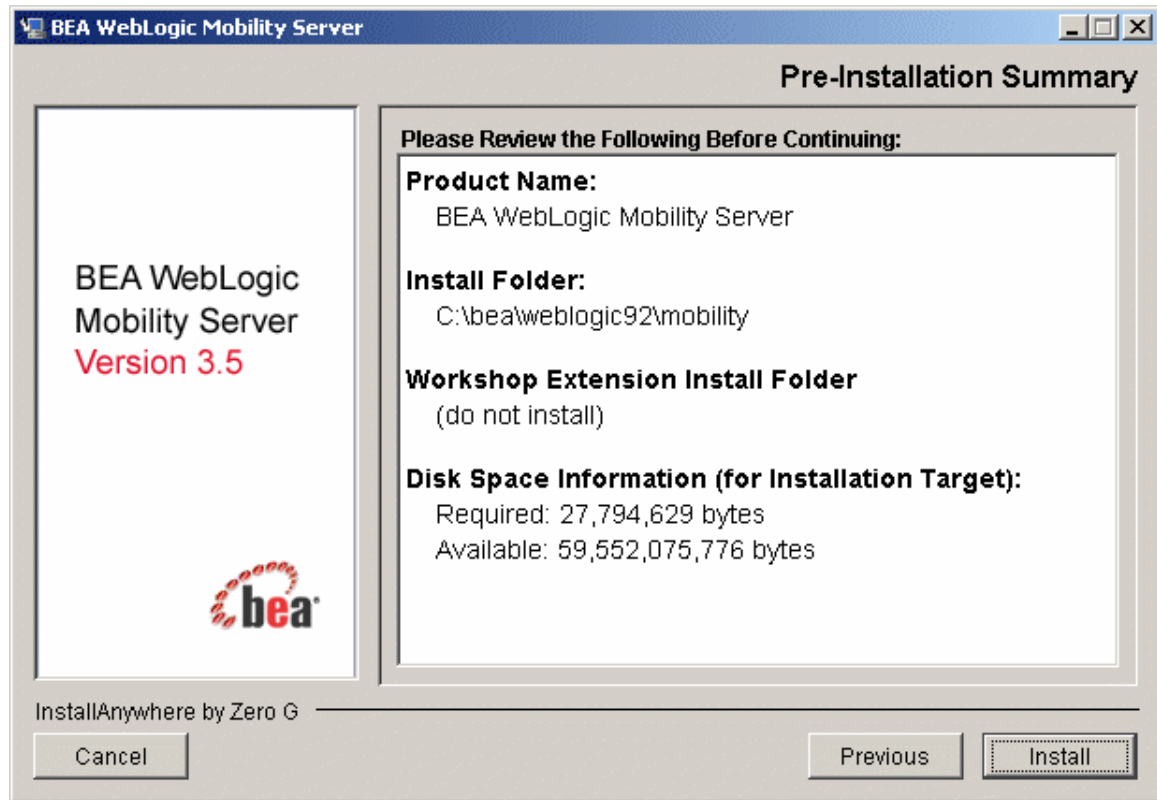
Locate BEA Installation dialog



16. Select the folder where you would like to install WebLogic Mobility Server.
17. Click **Next** to continue.

18. The “Pre-Installation Summary” dialog is displayed.

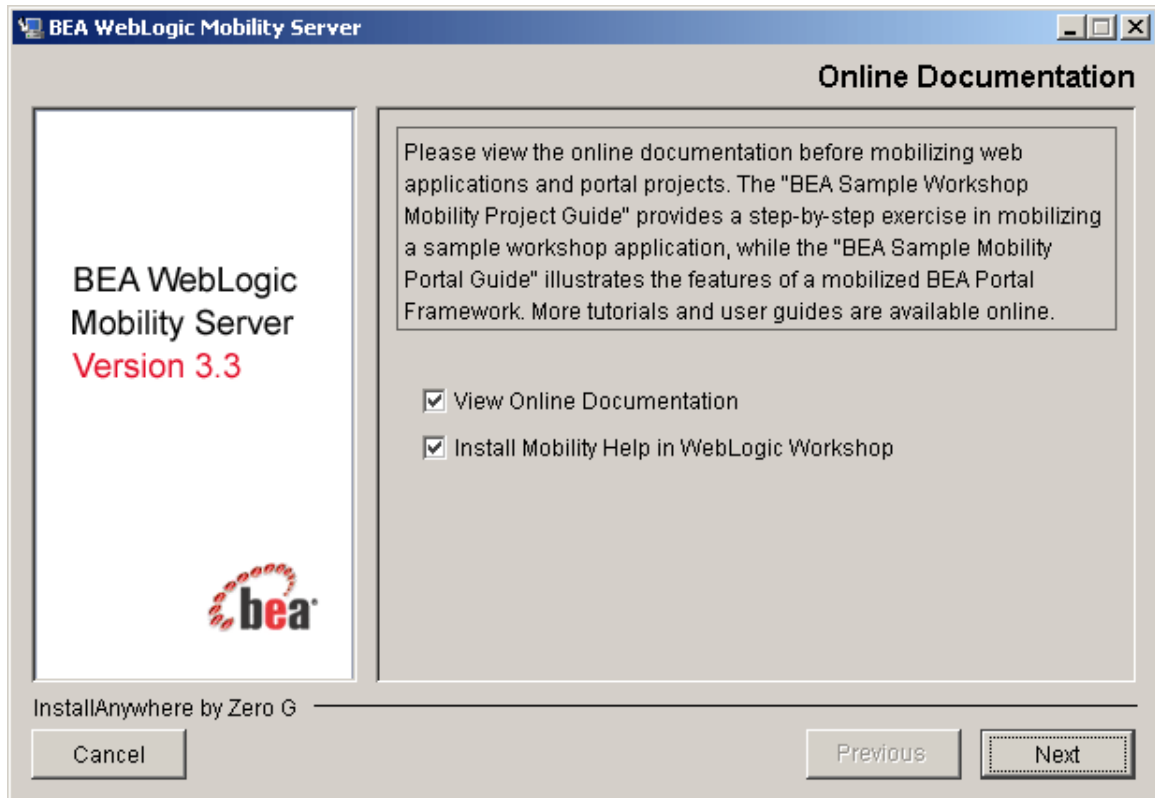
Pre-Installation Summary dialog



19. Review the installation configuration information. If the information is correct, click **Install**. Otherwise, click **Previous** to go back through the screens and modify the provided information

20. IF you installed the Mobility extension on BEA WebLogic 8.1, the “Online Documentation” dialog is displayed.

Online Documentation dialog



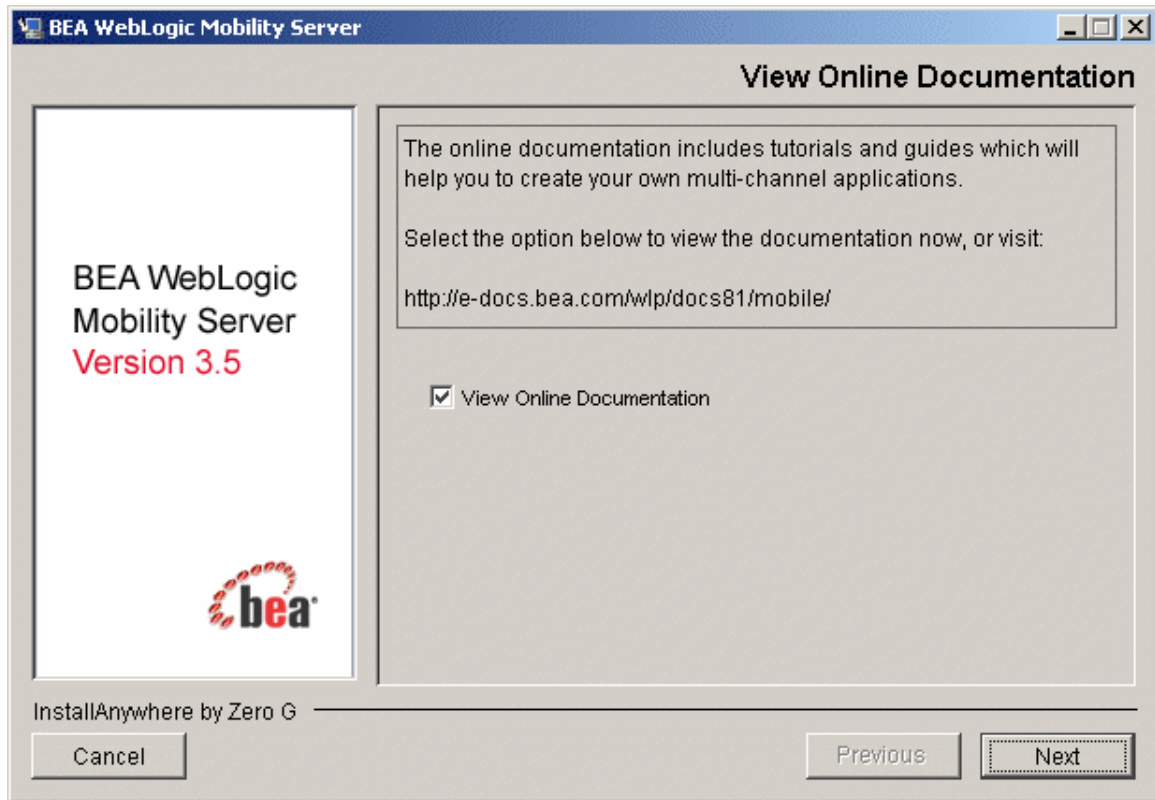
21. Indicate if you would like to view the Online Documentation and install the Mobility Help in WebLogic Workshop. Click **Next**.

Note: If you select the **View Online Documentation** check box, the online help will display in your Internet browser

2—Install WebLogic Mobility Server 3.5

22. When the installation completes, the “View Online Documentation” dialog is displayed.

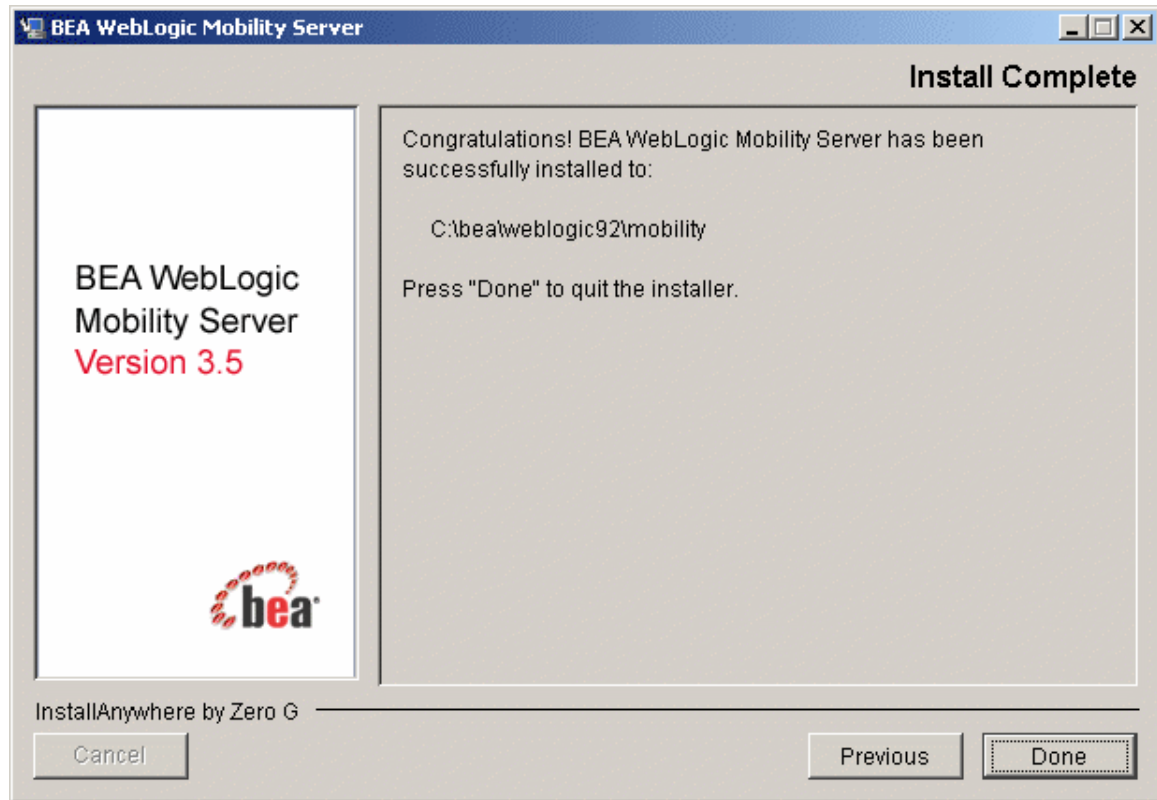
View Online Documentation dialog



23. Indicate if you would like to view the Online Documentation. Click **Next**.

24. The “Install Complete” dialog will be displayed following a successful install.

Install Complete Screen



25. Click **Done** to exit the installer.

Note: Next Step

- Ensure that the BEA WebLogic Mobility Server license file is integrated into the *bea.license* file of your WebLogic Server to enable multi-channel content delivery
- If you installed the Mobility Plugin and plan to edit tags using BEA Workshop for WebLogic Platform 9.X, see chapter “3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations”.
- If you installed the Mobility Extension and plan to edit tags using BEA WebLogic Workshop 8.1, see chapter “4—Additional Configuration: Mobility Extension for BEA WebLogic Workshop 8.1 Installations”.

Install WebLogic Mobility Server on Sun Solaris, RedHat Linux or HP-UX

This chapter explains the installation procedure for installing WebLogic Mobility Server on Sun Solaris, Redhat Linux, and HP-UX 11.

Introduction

The *mobilityServer35_unix.bin* installation application is used to install WebLogic Mobility Server 3.5 on:

- RedHat Linux
- Sun Solaris
- HP-UX

License

A BEA WebLogic Mobility Server license file must be integrated into the *bea.license* file of your WebLogic Server.

Your sales representative should provide this file to you along with the product CDs. Please contact your sales representative if you have not yet received your license file.

Once you have updated your license, you will be able to develop and test mobile-device ready content. If you have a developer or evaluation license, the software installer will install an evaluation version of the Device Repository enabling testing on a number of popular device emulators as well as a number of popular mobile and PDA devices. A production license must be present to install and use the full Device Repository. **Note:** An invalid license will result in HTML being delivered.

Please contact a sales representative if you wish to extend your evaluation or developer license or upgrade to a production license.

Installation Prerequisites

Software Prerequisites

The following software must be installed prior to installing WebLogic Mobility Server:

- A supported operating system, from the following list:
 - Sun Solaris 10
 - RedHat Linux 2.1, 3.0
 - HP-UX 11
- An application server:
 - BEA WebLogic Platform 8.1 SP2 - SP6
 - BEA WebLogic Server 8.1 SP2 - SP6
 - BEA WebLogic Platform 9.X
 - BEA WebLogic Server 9.X

- An authoring environment:
 - BEA WebLogic Workshop 8.1
 - BEA WebLogic for Workshop Platform 9.X
- An Internet browser:
 - Netscape 4.75 or higher, or
 - Internet Explorer 5 or higher
- A database, from the following list (optional):
 - Oracle 9i, 10i
 - PointBase 4.4
 - Postgres 7.3.2+
 - MySQL 3.53 and above
 - SQL Server 2000
 - Sybase Adaptive Server Enterprise 12.5
 - IBM DB2 Universal Database 8.1
- An SDK:
 - Sun JDK 1.4.X or Sun JDK 1.5.X or JRockit 1.4.X or JRockit 5.0
 - **Note:** Java JDK/JRE must be on the search path, with JAVA_HOME set correctly
- A PDF viewer:

Either Adobe Acrobat Reader 4.0.x – 7.0.x or Xpdf is required on the search path; otherwise an error message will be displayed when you attempt to view PDF documents.

Installation Procedure for Sun Solaris, RedHat Linux, and HP-UX

1. Open an **xterm**, **telnet**, or **console window** and run the WebLogic Mobility Server installation application, *mobilityServer35_unix.bin*.
2. The first stage of the installation is the “Introduction”. Press <**Enter**> to continue.
3. The “Supported Platforms” stage is next. Please read this and ensure that the installation environment meets the stated requirements. Press <**Enter**> to continue.
4. The “License Agreement” screen is displayed next. Read the license agreement text and enter the value **Y** if you accept the terms of the license agreement, or the value **N** if you do not
Note: Selecting “N” will cancel the installation after prompting you to confirm cancellation
5. The following stage of the installation is “Choose Install Set”.

Select the appropriate installation option and click **Next** to continue. Enter the value “1” (or press <**Enter**>) to select the “WebLogic Mobility Server for Workshop 9.2” installation option, “2” to select the “WebLogic Mobility Server 3.5 for Workshop 8.1” option, “3” to select the “WebLogic Mobility Server” option or “4” to select the “Customize...” option. Press <**Enter**> to continue.

6. IF you selected the “Customize...” installation at the “Choose Install Set” stage, the “Choose Product Features” stage is next.

Select or de-select components for installation as required. To accept the default press <**Enter**>. To de-select a checked component, type its corresponding number. To select a (non-checked) component, type its corresponding number.

Note: Ensure that you insert commas if you are entering a list.

Press <**Enter**> to continue.

Notes

- If you select *only* the Mobility Extension for BEA Workshop component for installation (for WebLogic 8.X and 9.X platforms), the *Uninstall BEA WebLogic Mobility Server.exe* will be placed at the WebLogic Mobility Server install location (<**WLMS_install_directory**>/**UninstallerData**/), allowing you to uninstall the Mobility Extension for BEA Workshop and samples at a later stage if required
 - If you have been using an old WebLogic Mobility Server installation, and want to install a new version of WebLogic Mobility Server in a new location, when you first start BEA Workshop you must update the new WebLogic Mobility Server install location (for WebLogic 8.X and 9.X platforms). See the Appendix for details on how to do this
7. The “Locate BEA Installation” stage is displayed. Specify the folder at which BEA WebLogic 8.1 or 9.X is installed. The Mobility Extension for BEA Workshop will be installed in the **Weblogic81/Weblogic92** directory at this location. Press <**Enter**> to continue.
 8. The “Pre-Installation Summary” stage is next. Review the displayed installation configuration settings to ensure they are correct. If you are satisfied with the configuration settings, press <**Enter**> to continue. Otherwise, type **back** to return to a previous step and modify the configuration settings.

9. IF you installed the Mobility Extension for BEA Workshop on a WebLogic 8.1-8.5 platform, the “Install Mobility Help” dialog is displayed when the installation completes. Read the message and then indicate if you want to install the Mobility Help in WebLogic Workshop. The Mobility Help describes the key features provided by the Mobility Extension and lists the JSP Tag References. Press <Enter> to continue.
10. The “Installation Complete” message will display following a successful install. Press <Enter> to exit the installer.

Note: Next Step

- Ensure that the BEA WebLogic Mobility Server license file is integrated into the *bea.license* file of your WebLogic Server to enable multi-channel content delivery
- If you installed the Mobility Plugin and plan to edit tags using BEA Workshop for WebLogic Platform 9.X, see chapter “3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations”.
- If you installed the Mobility Extension and plan to edit tags using BEA WebLogic Workshop 8.1, see chapter “4—Additional Configuration: Mobility Extension for BEA WebLogic Workshop 8.1 Installations”.

3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations

Important notes:

- This chapter is only relevant if you selected the “WebLogic Mobility Server for Workshop 9.2” installation option or opted to install the Mobility Plugin for BEA Workshop, and are using BEA Workshop for WebLogic Platform 9.X to author content
- The Mobility Plugin is installed as part of the WebLogic Mobility Server installation process, therefore you are not required to install it separately here

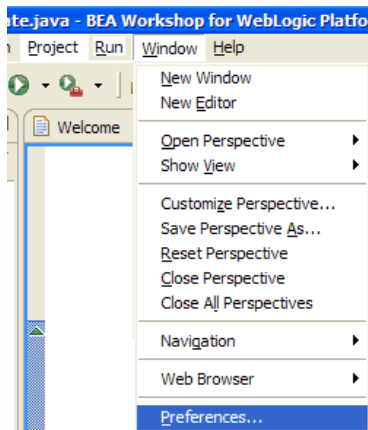
Configure the WebLogic Mobility Server Install Location in Workshop

The location of the WebLogic Mobility Server install was configured during installation to <WLMS_install_directory>. If you have a new WebLogic Mobility Server install in a different location to that of a previous version, follow the steps here, which describe how to re-configure the WebLogic Mobility Server location for use with the Mobility Sample Projects for BEA Workshop and BEA Portal.

Note: If you have multiple WebLogic Mobility Server installs on the same machine and want to uninstall these, please note that the Add or Remove Programs function in the Control Panel (for Windows installations) will only remove the most recently-installed version of WebLogic Mobility Server. It is necessary to uninstall older versions manually, by navigating to <WLMS_install_directory>\(UninstallerData) and running *Uninstall BEA WebLogic Mobility Server.exe*.

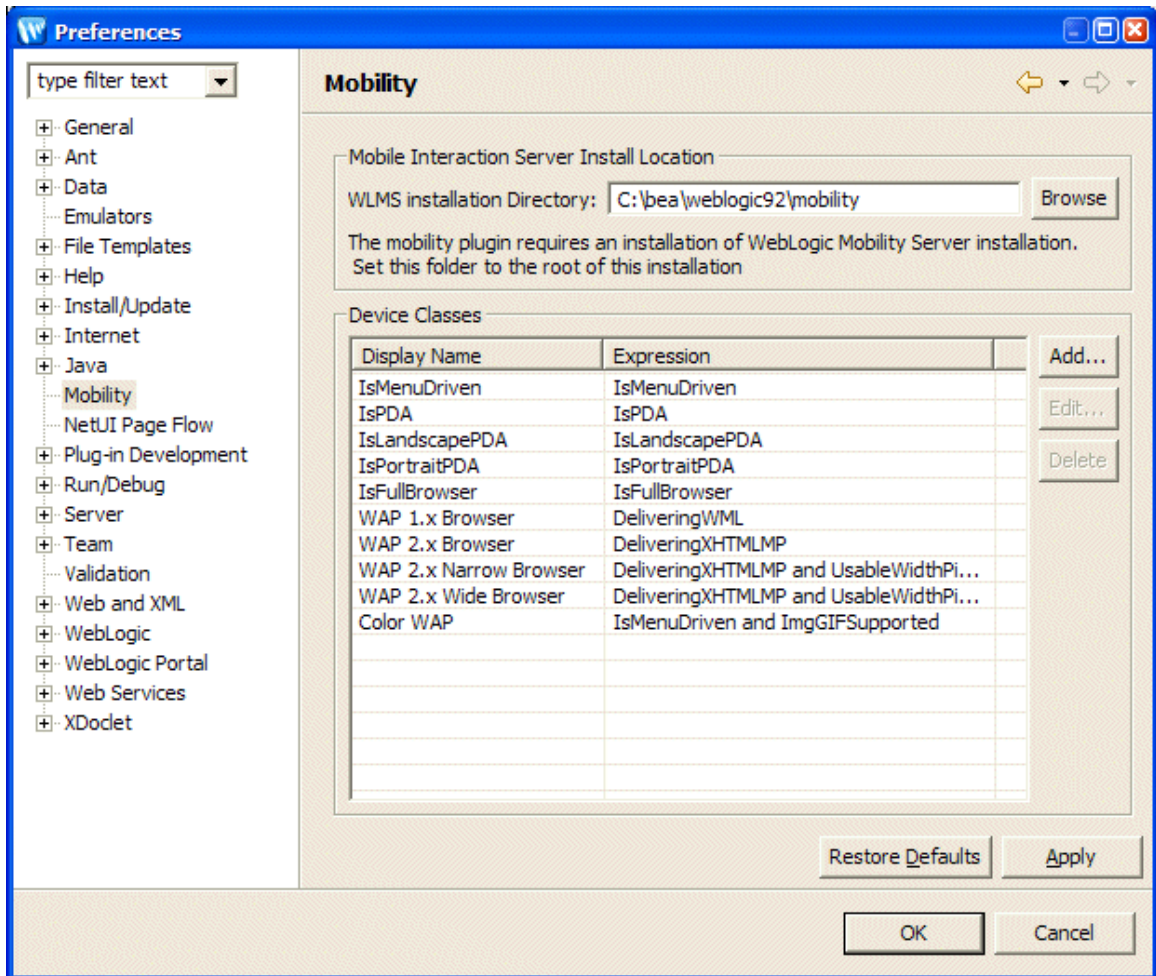
To configure the WebLogic Mobility Serve location:

1. Open Workshop.



2. From within your BEA Workshop Environment, choose **Window → Preferences**.

3. The “Preferences” dialog is displayed.



4. Select the **Mobility** folder.
5. The location of the WebLogic Mobility Server install was configured during installation to <WLMS_install_directory> and displays in the **WLMS Installation Directory** field.

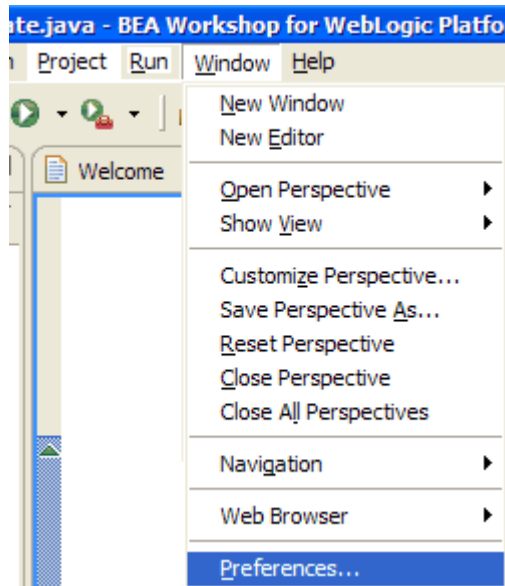
To change the location to point at a different WebLogic Mobility Server installation, enter the location of the WebLogic Mobility Server installation in the **WLMS Installation Directory** field or click **Browse** to browse to the location. This will enable access to device diagnostic and device management tools from within Workshop.

6. Click **OK**.

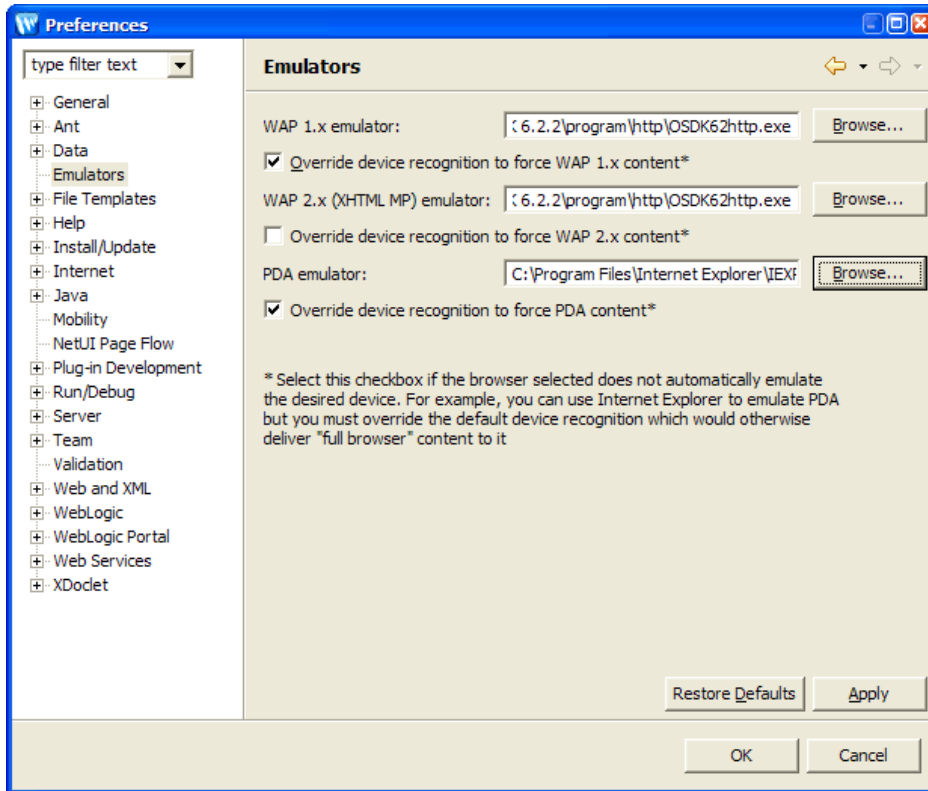
Configure the Device Emulators for use within BEA Workshop for WebLogic Platform 9.X

This section describes how to configure the emulators for use within BEA Workshop. You can use the device emulators to see how the mobilized content will look on a particular device (for example phones, PDAs). Several emulators are available for download free of charge on the Internet.

1. To configure the tools and emulators for usage within the BEA Workshop environment, select Preferences from the Window Menu. Choose **Window → Preferences**.



- The “Preferences” dialog is displayed. To configure the emulators, select the **Emulators** tab.



- Select WAP1.x emulator by browsing to the appropriate emulator executable file.

Note: It is recommended that you use the Openwave Emulator, which can emulate WAP 1.x and XHTML-MP devices. However, emulators from Nokia, Ericsson, or others can also be used. If using an Openwave Emulator, select the *OSDK62http.exe* (for version 6.2) or the *OSDK61http.exe* (for version 6.1) in the installation directory where the emulator is installed, for example **C:\Program Files\Openwave\SDK 6.1\program\http**.

- Select WAP2.0 emulator by browsing to the appropriate emulator executable file.

Note: As Workshop for BEA WebLogic 9.X already has an in-built full browser emulator, you can specify a WAP2.0 emulator by browsing to the same location as above and selecting **Override device recognition to force WAP 1.x content** checkbox in under the **WAP 1.x emulator** field.

- Specify a PDA emulator in the **PDA emulator** field by browsing to the appropriate emulator executable file:
 - You can find a PDA emulator at **<WLMS_install_directory>/tools/emulators/PDA.exe**
 - Alternatively, to set up MS Internet Explorer to function as a PDA emulator, browse to your *iexplore.exe*, and select the **Override device recognition to force PDA content** check box underneath
- Click **OK**.

Create the Workshop Domain

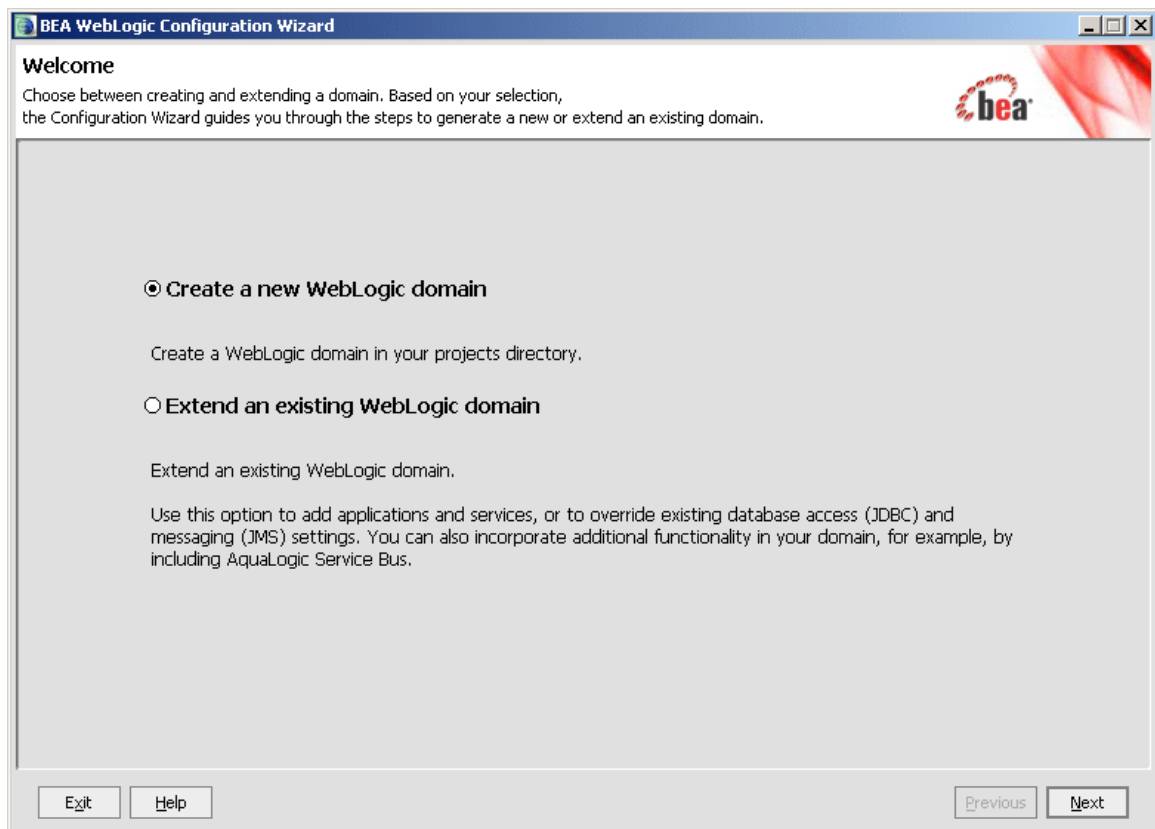
Introduction

This section describes creating a BEA Workshop Domain called “Mobility” for later use with tutorials and exercises.

Create the “Mobility” Workshop Domain

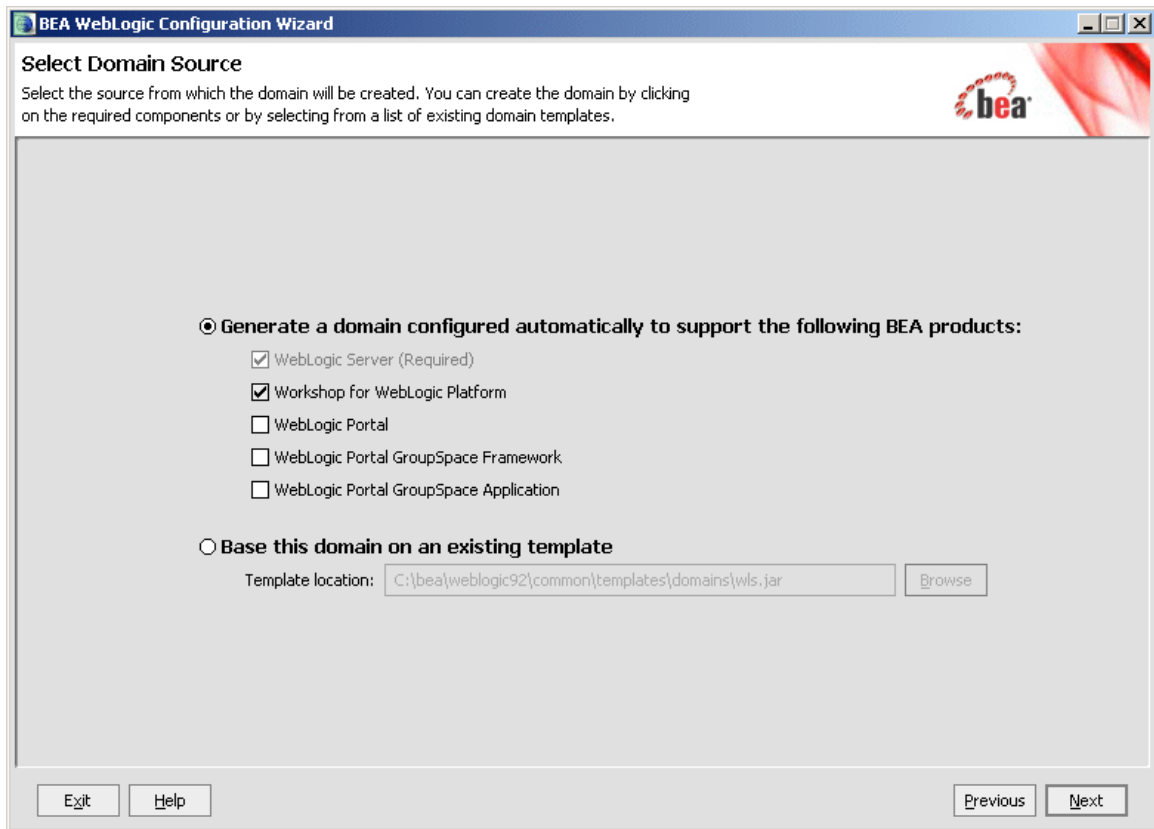
To create the “Mobility” Domain:

1. Launch the BEA WebLogic Configuration wizard from the Windows Start menu. Choose **Start → Programs → BEA Products → Tools → Configuration Wizard**.
2. The “Welcome” dialog is displayed.



3. Select **Create a new WebLogic domain** and click **Next**.

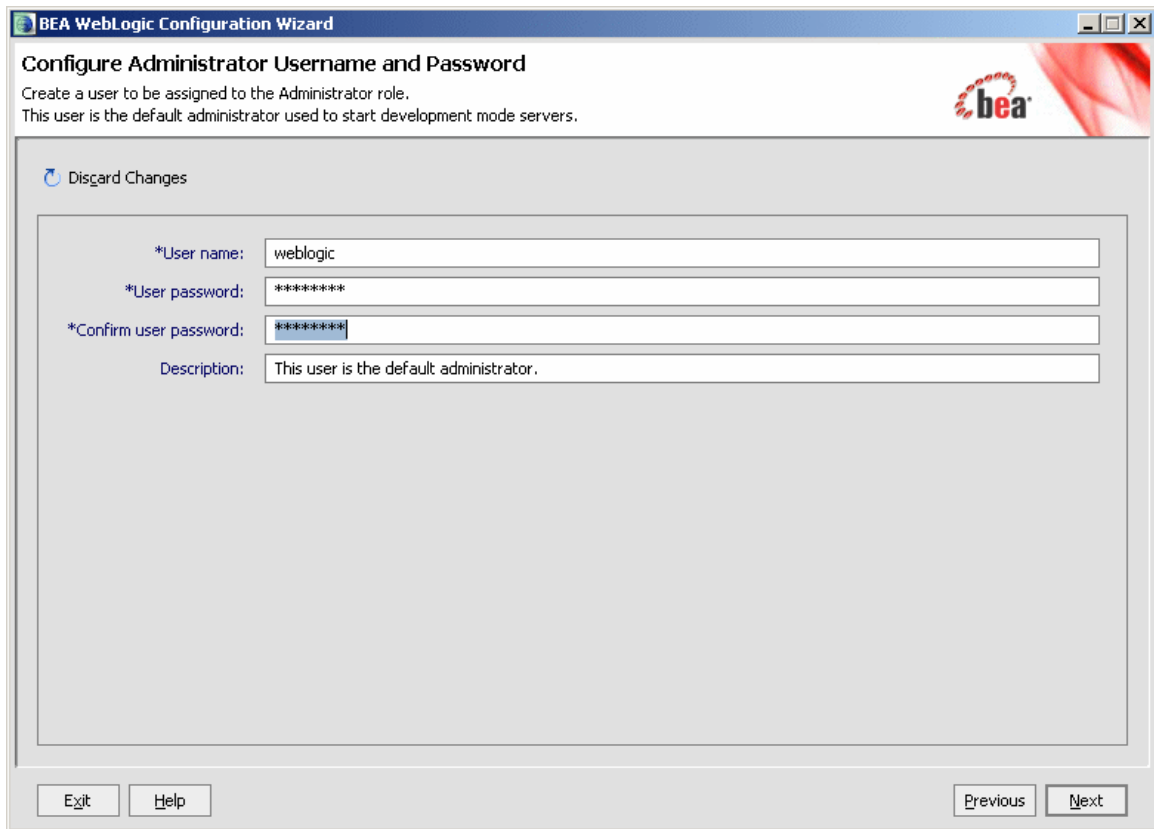
4. The “Select Domain Source” dialog is displayed.



5. Select the **Workshop for WebLogic Platform** checkbox.
6. Click **Next**.

3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations

7. The “Configure Administrative Username and Password” dialog is displayed.

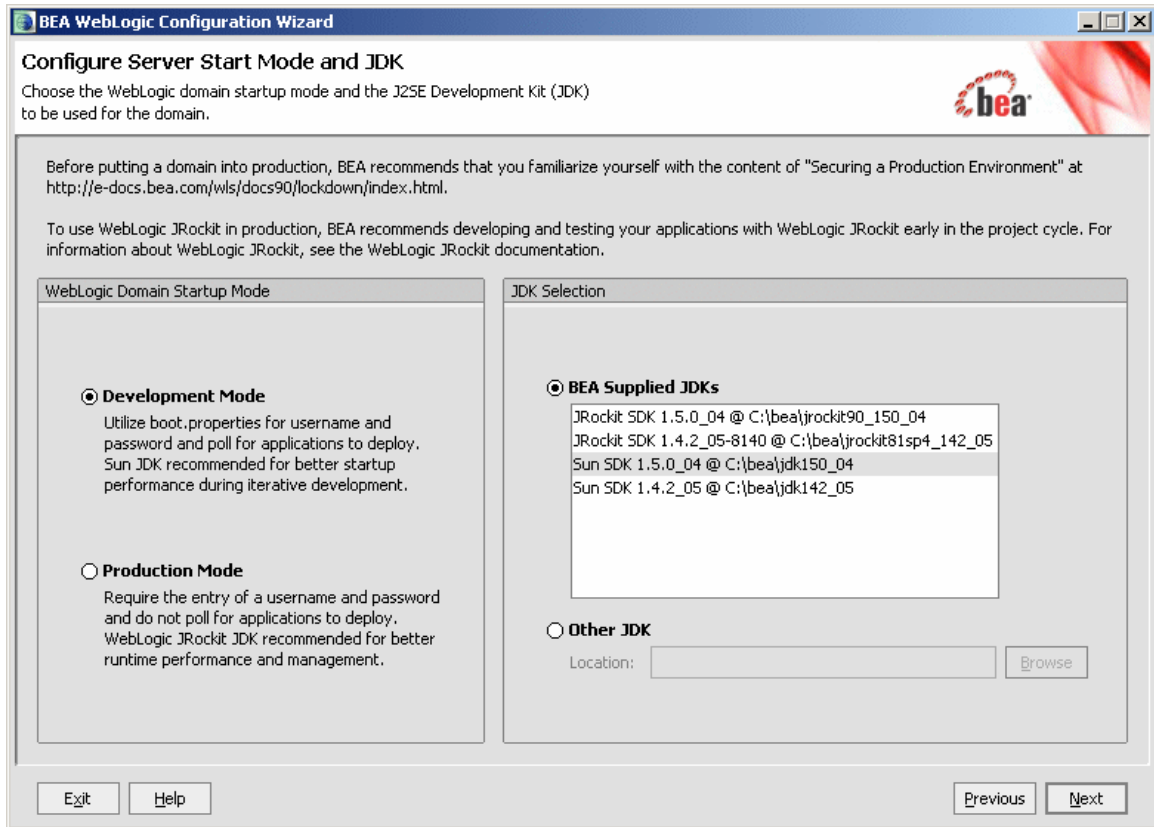


The screenshot shows a window titled "BEA WebLogic Configuration Wizard" with the subtitle "Configure Administrator Username and Password". The window contains the following elements:

- A "Disgard Changes" button with a circular arrow icon.
- Four input fields:
 - *User name: weblogic
 - *User password: *****
 - *Confirm user password: *****
 - Description: This user is the default administrator.
- Buttons at the bottom: "Exit", "Help", "Previous", and "Next".
- The BEA logo in the top right corner.

8. Enter “weblogic” for the username and “weblogic” for the password and click **Next**.

9. The “Configure Server Start Mode and Java SDK” dialog is displayed.

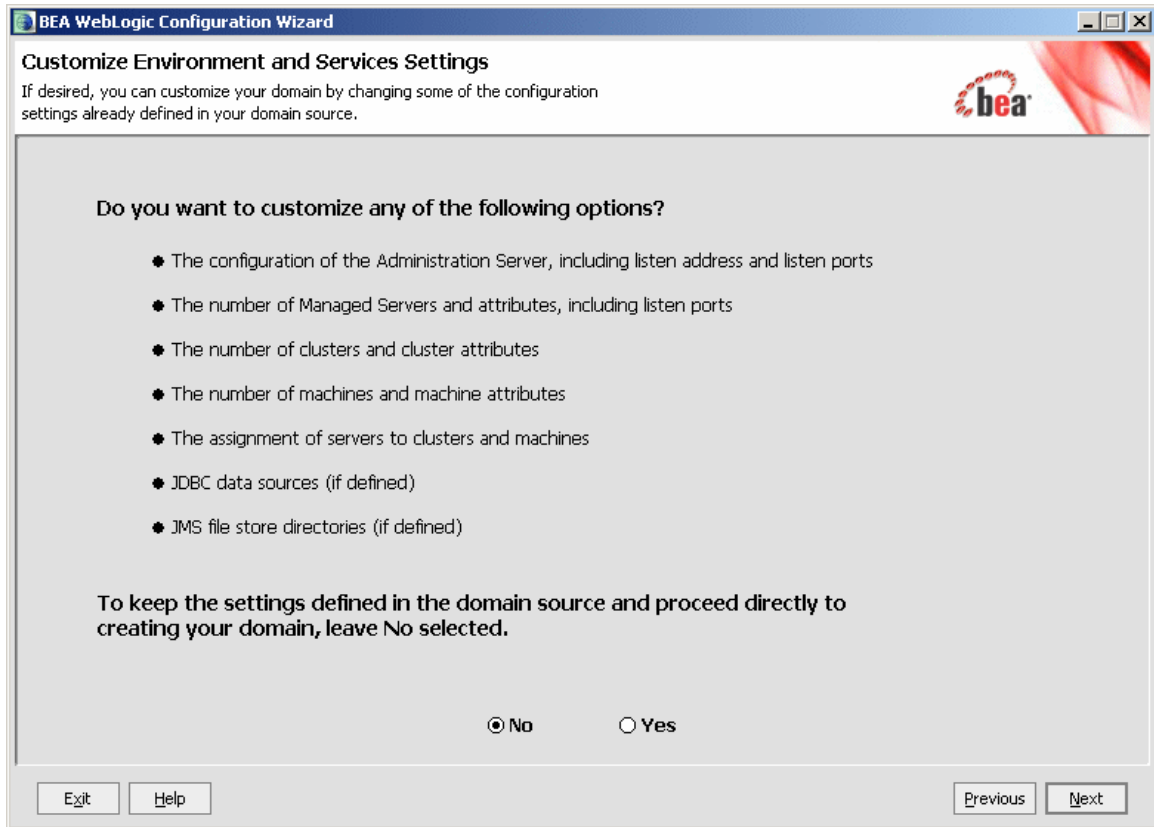


10. Select **Development Mode** within the **WebLogic Domain Startup Mode** section.

11. Select an SDK from within the supplied JDKs section and click **Next**.

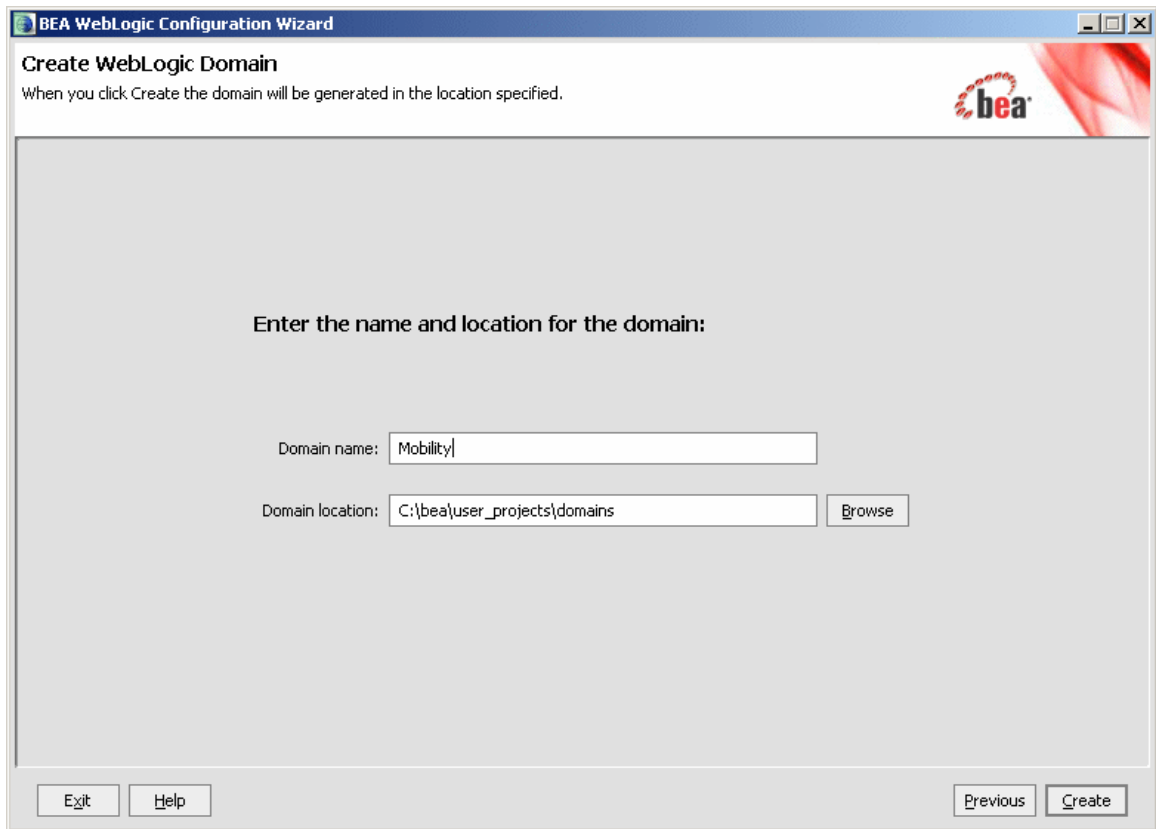
3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations

12. The “Customize Environment and Services Settings” dialog is displayed.



13. Click **Next**.

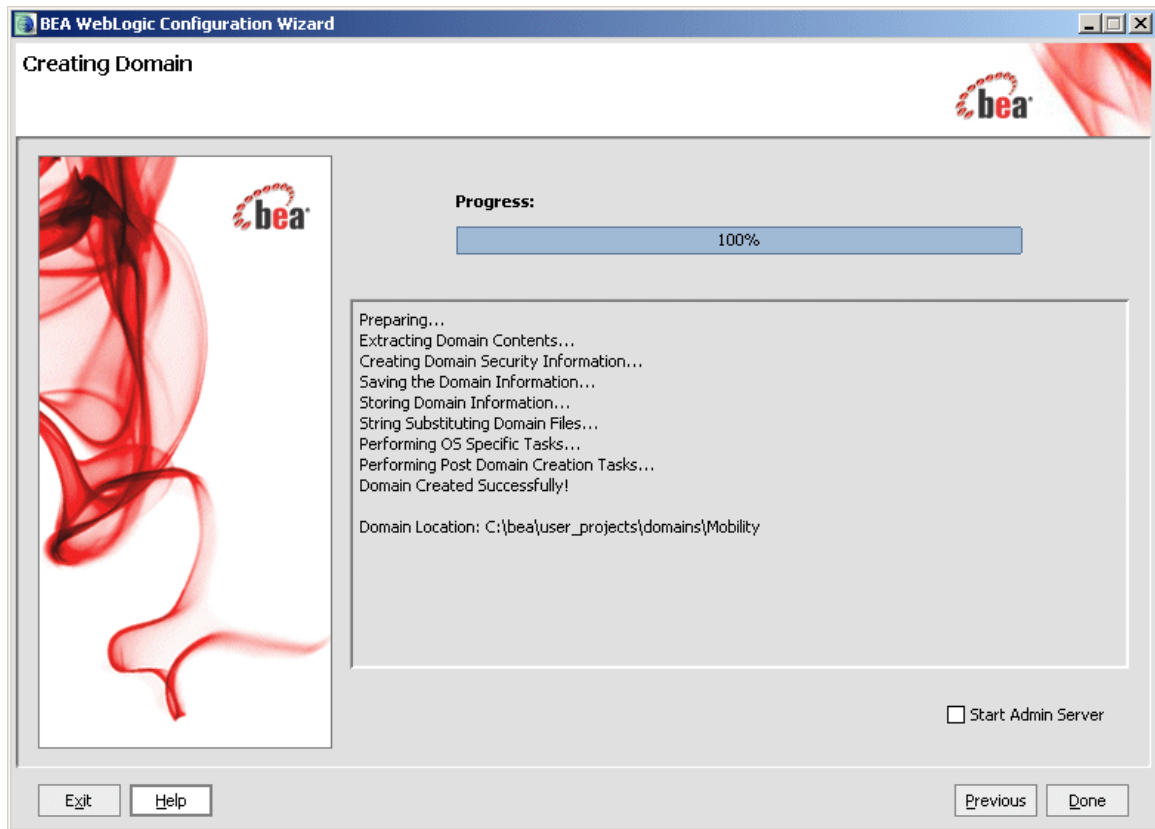
14. The “Create WebLogic Domain” dialog is displayed.



15. Set the **Domain Name** to “Mobility” and click **Create**.

3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations

16. The configuration wizard will now create the domain.



17. When it completes, click **Done** on the Creating Domain screen.

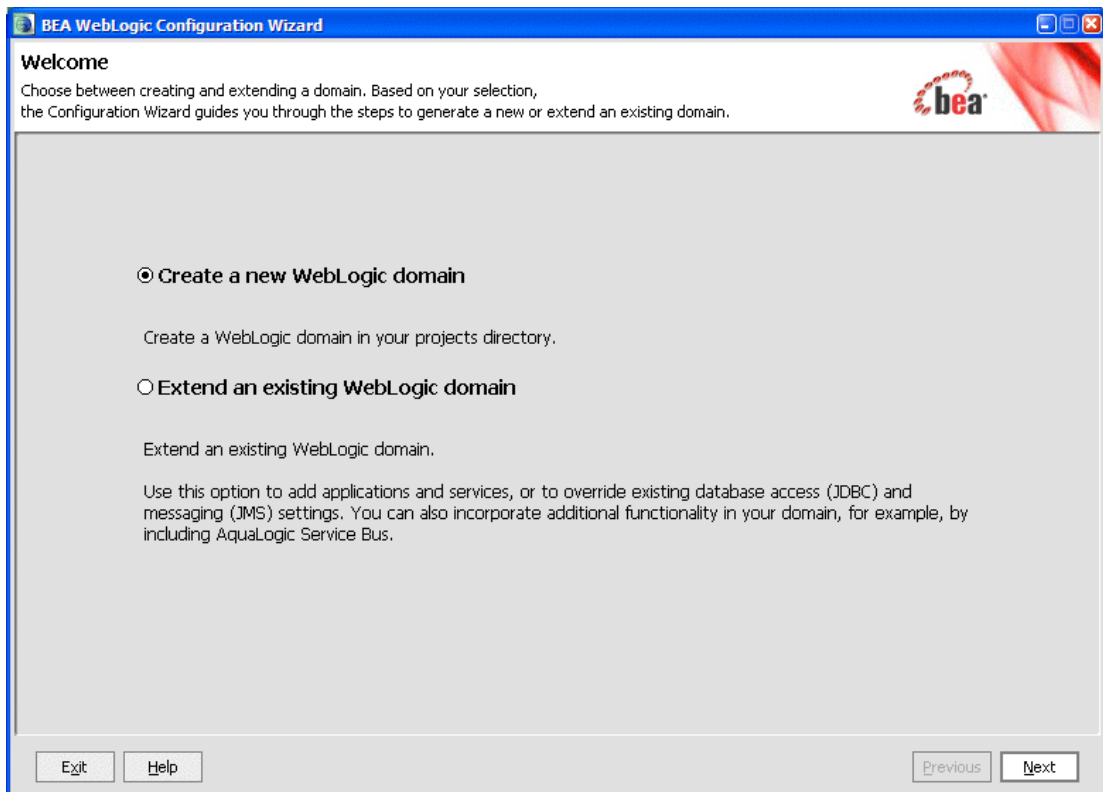
Create the Portal Domain and Create the Sample Mobility Portal Project

This section describes how to create a BEA Portal Domain (“MobilityPortal”) and a new application, and how to subsequently create a Sample Mobility Portal Project in the newly created domain using the supplied template.

Create the “MobilityPortal” Portal Domain

To create the “MobilityPortal” Domain:

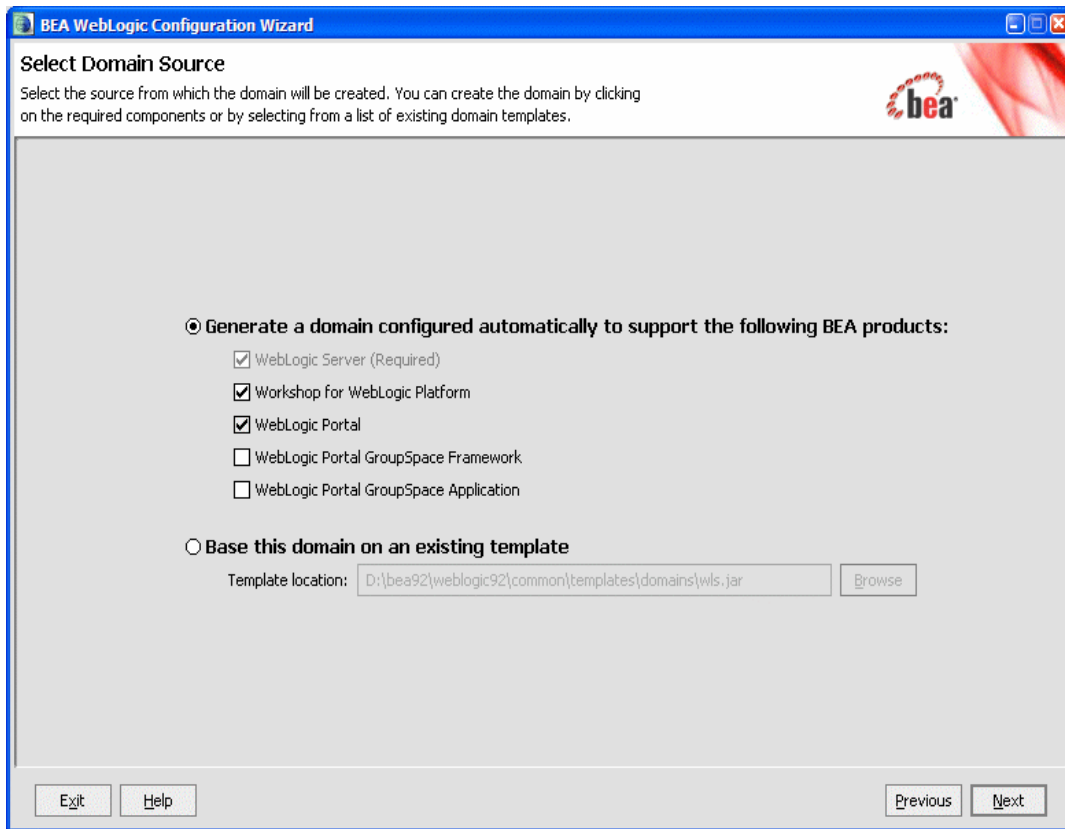
1. Launch the BEA WebLogic Configuration wizard from the Windows Start menu. Choose **Start → Programs → BEA Products → Tools → Configuration Wizard**.
2. The “Welcome” dialog is displayed.



3. Select **Create a new WebLogic domain** and click **Next**.

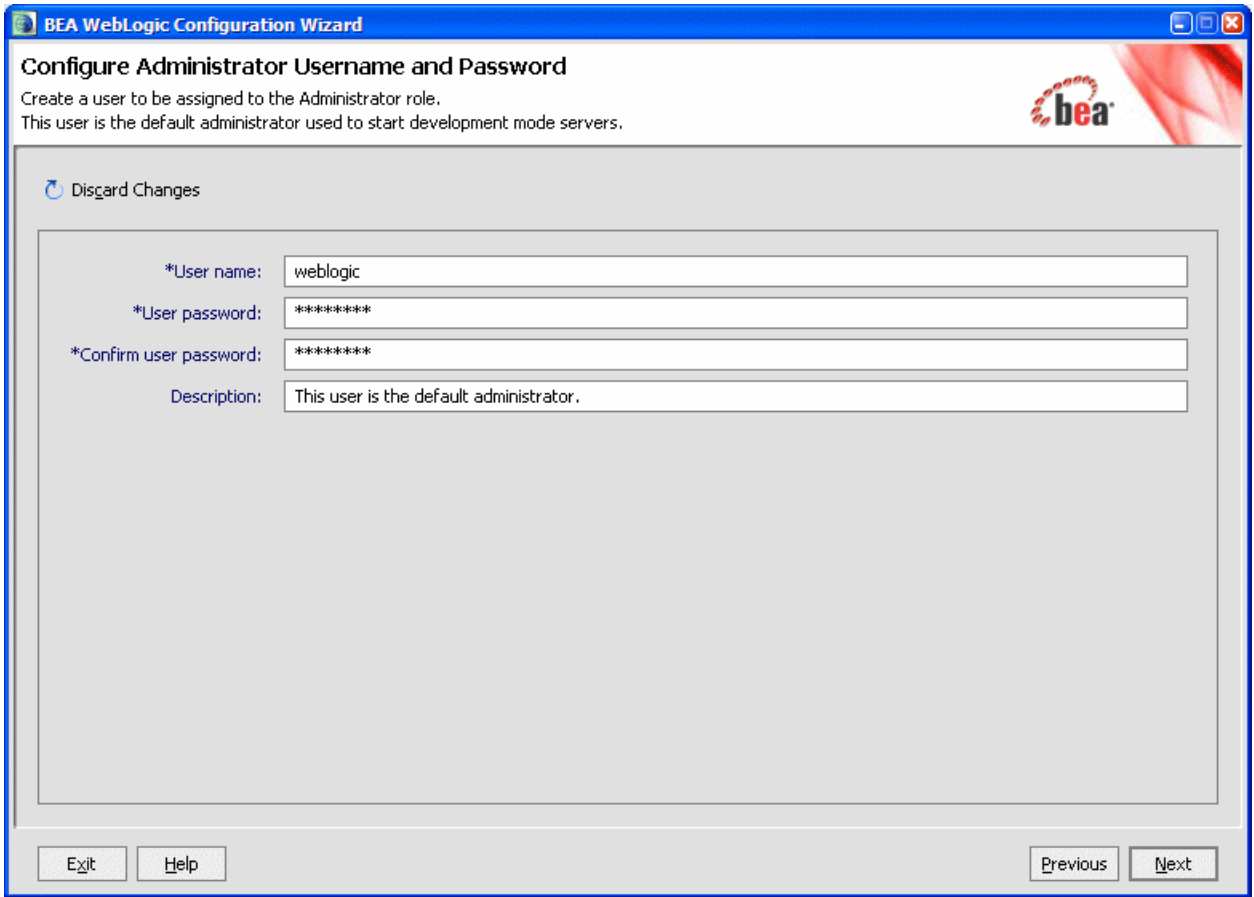
3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations

4. The “Select Domain Source” dialog is displayed.



5. Select the **Workshop for WebLogic Platform** and **WebLogic Portal** checkboxes.
6. Click **Next**.

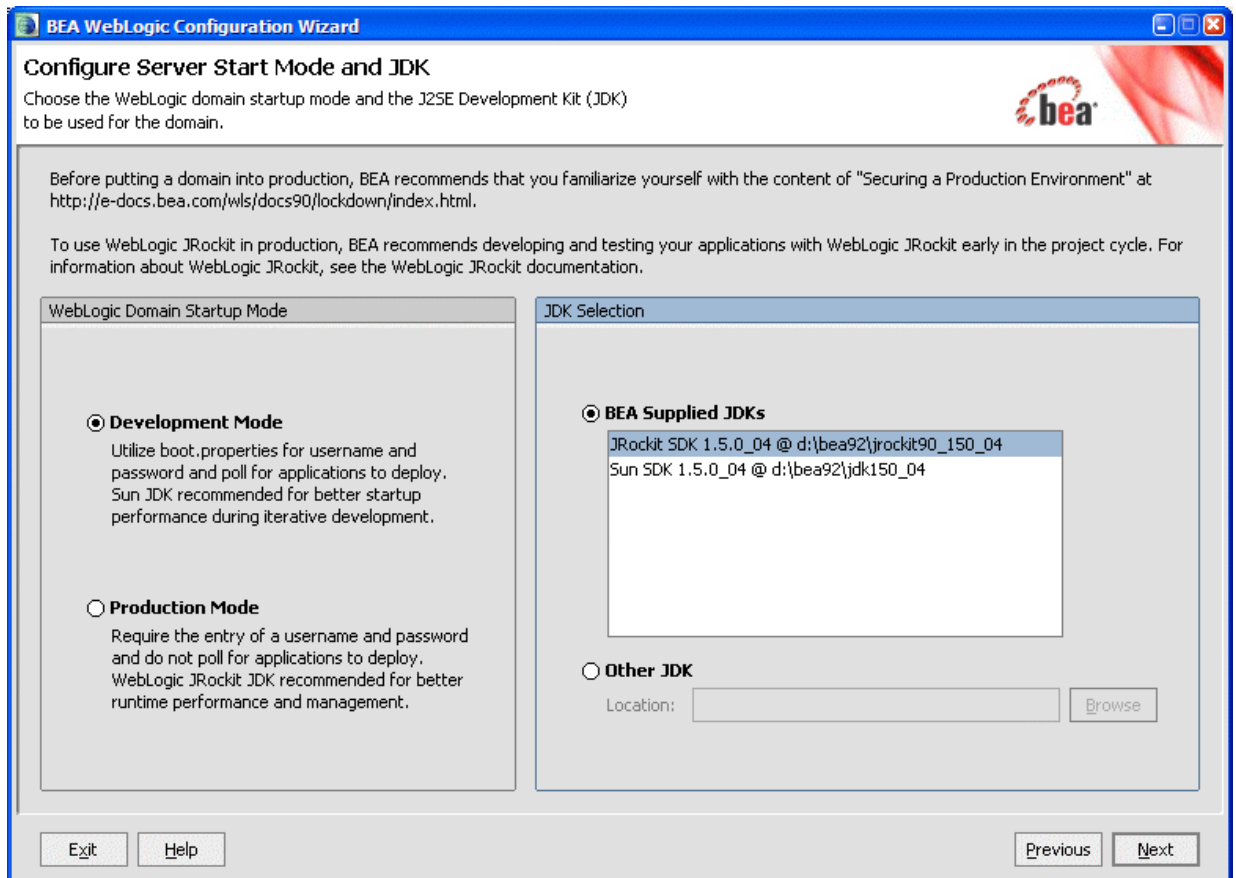
7. The “Configure Administrative Username and Password” dialog is displayed.



8. Enter “weblogic” for the username and “weblogic” for the password and click **Next**.

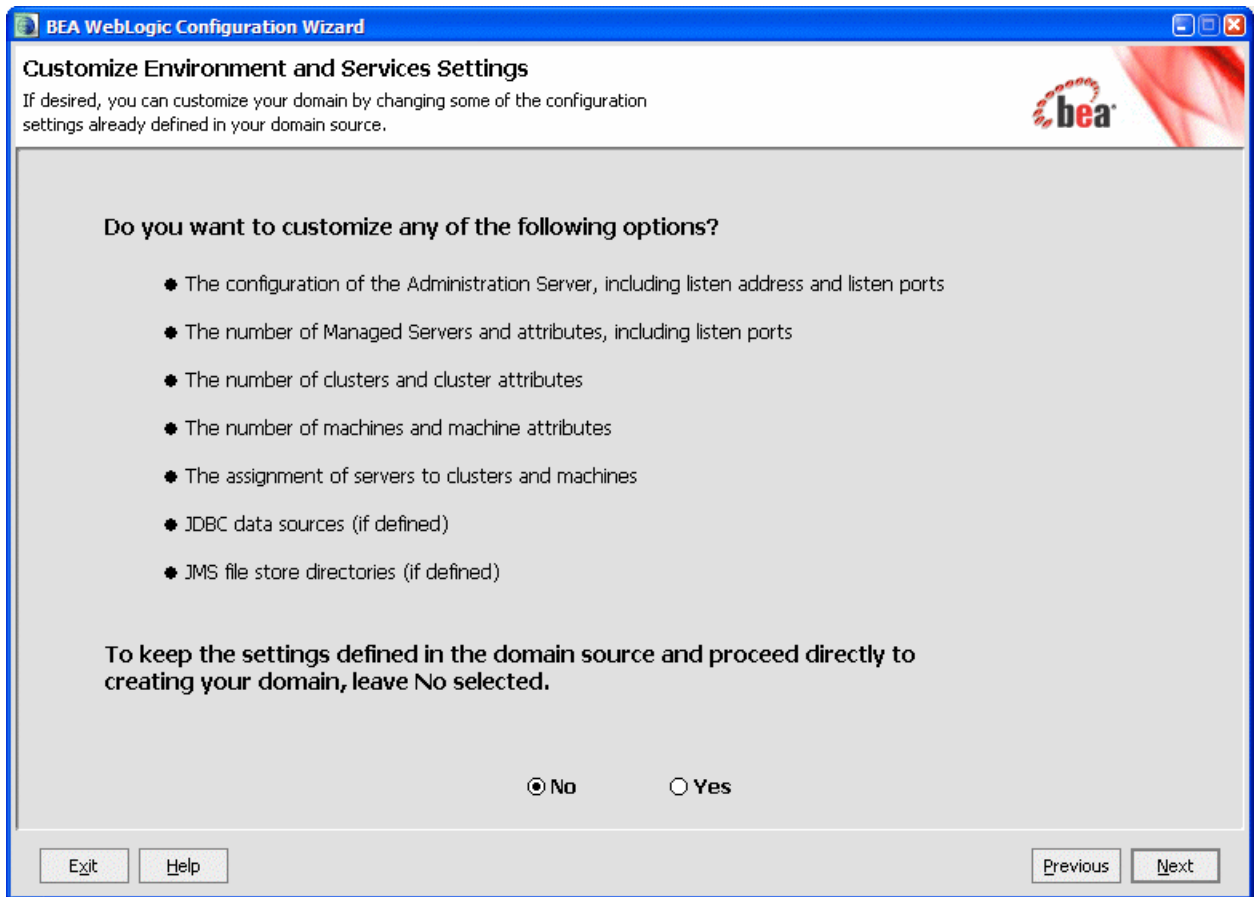
3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations

9. The “Configure Server Start Mode and Java SDK” dialog is displayed.



10. Select **Development Mode** within the **WebLogic Domain Startup Mode** section.
11. Select an SDK from within the supplied JDKs section and click **Next**.

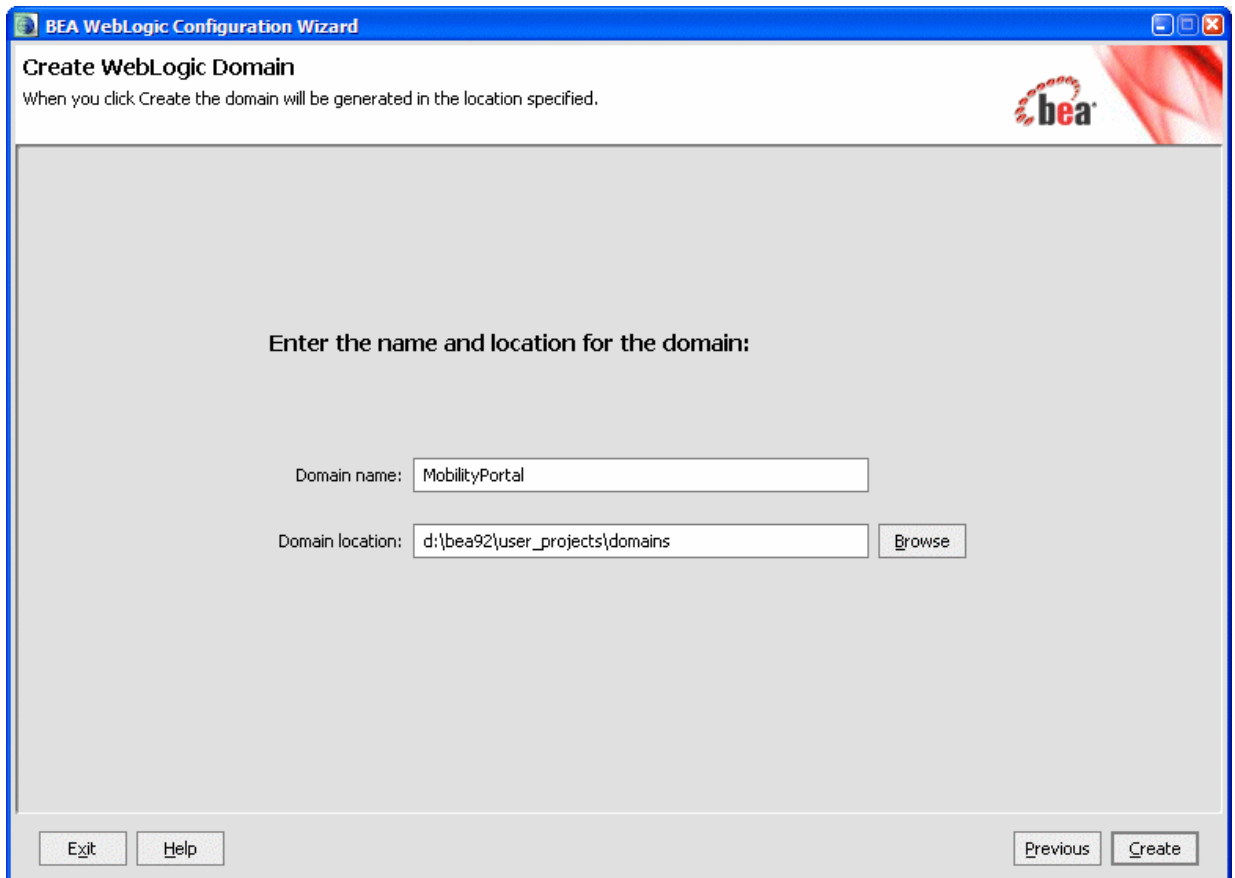
12. The “Customize Environment and Services Settings” dialog is displayed.



13. Click **Next**.

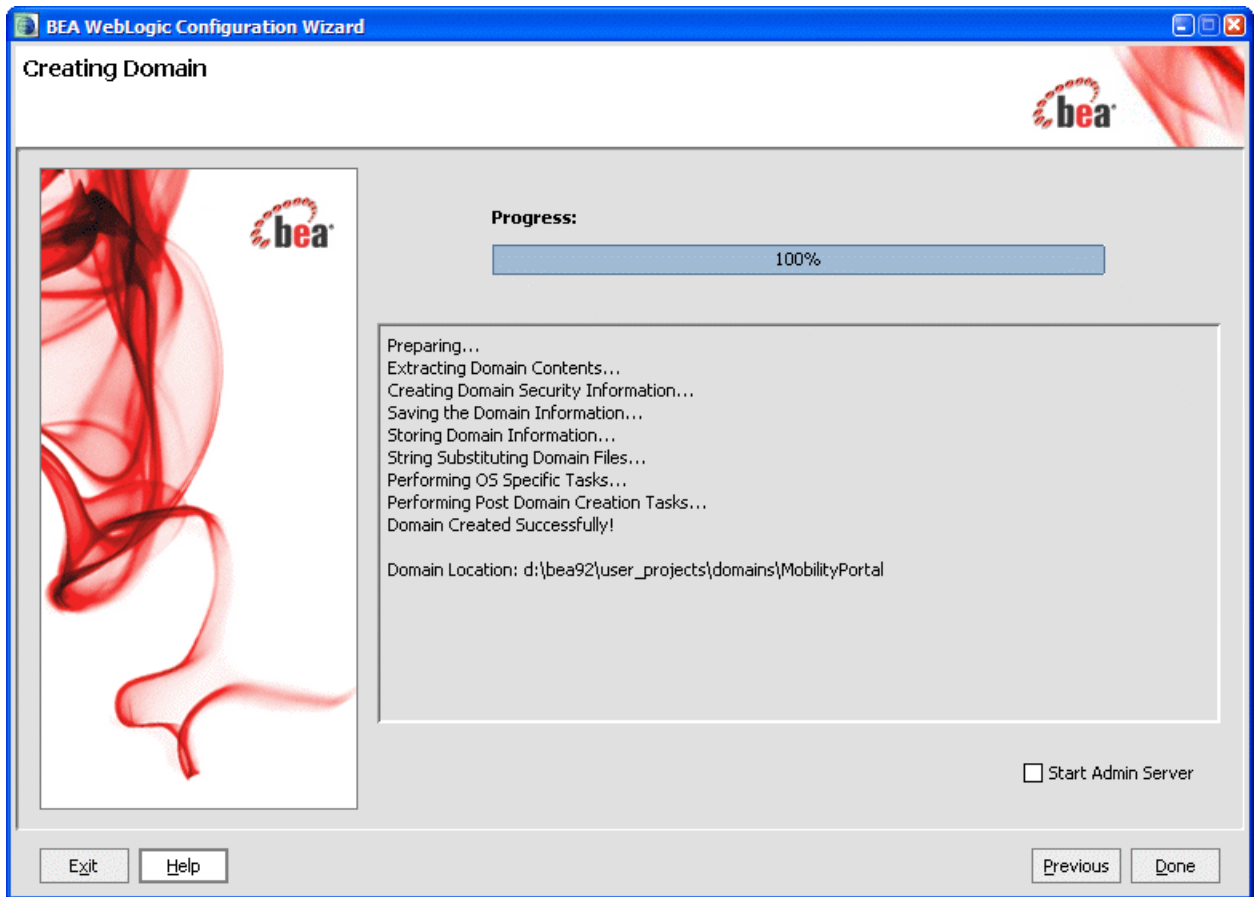
3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations

14. The “Create WebLogic Domain” dialog is displayed.



15. Set the **Domain Name** to “MobilityPortal” and click **Create**.

16. The configuration wizard will now create the domain.



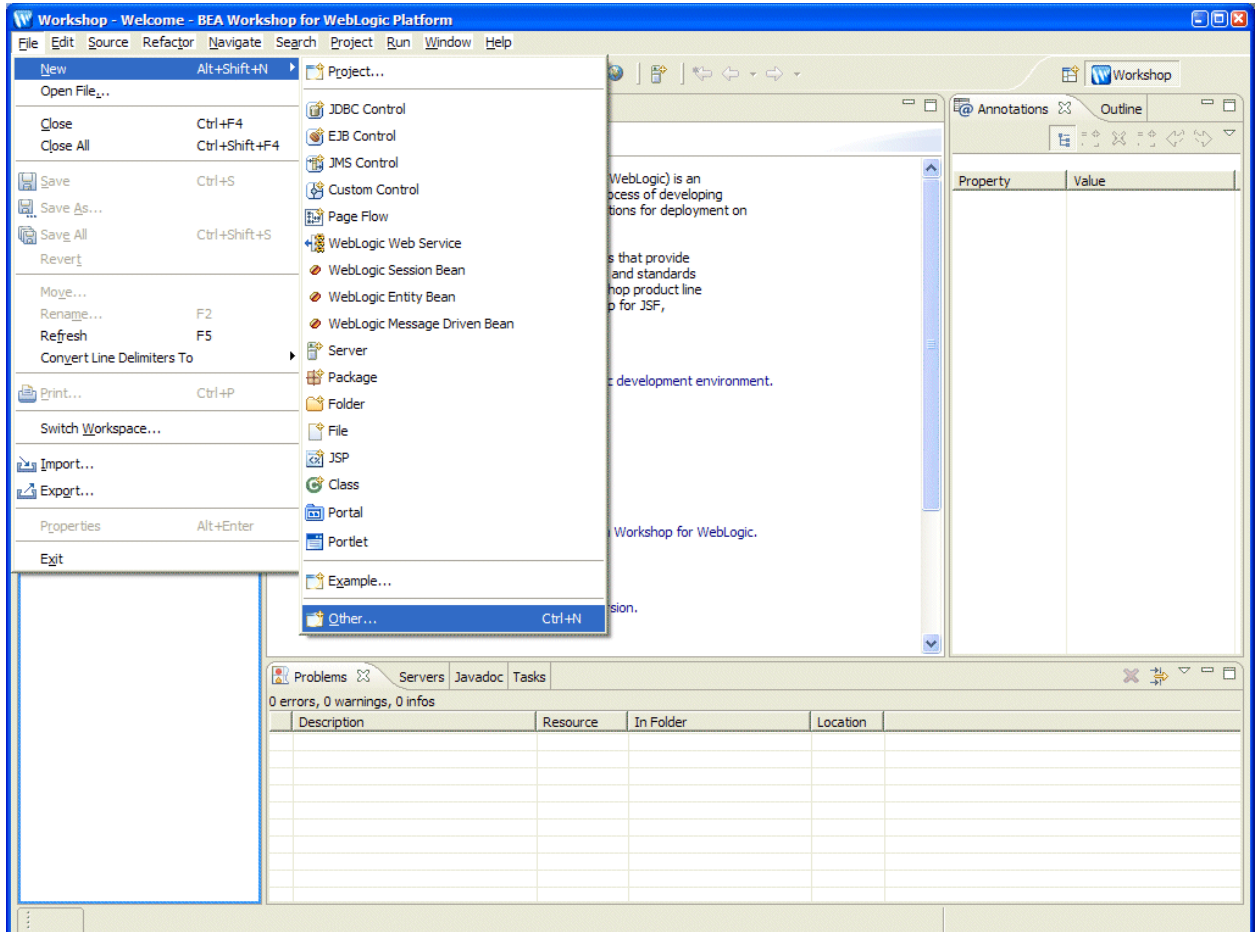
17. When it completes, click **Done** on the Creating Domain screen.

3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations

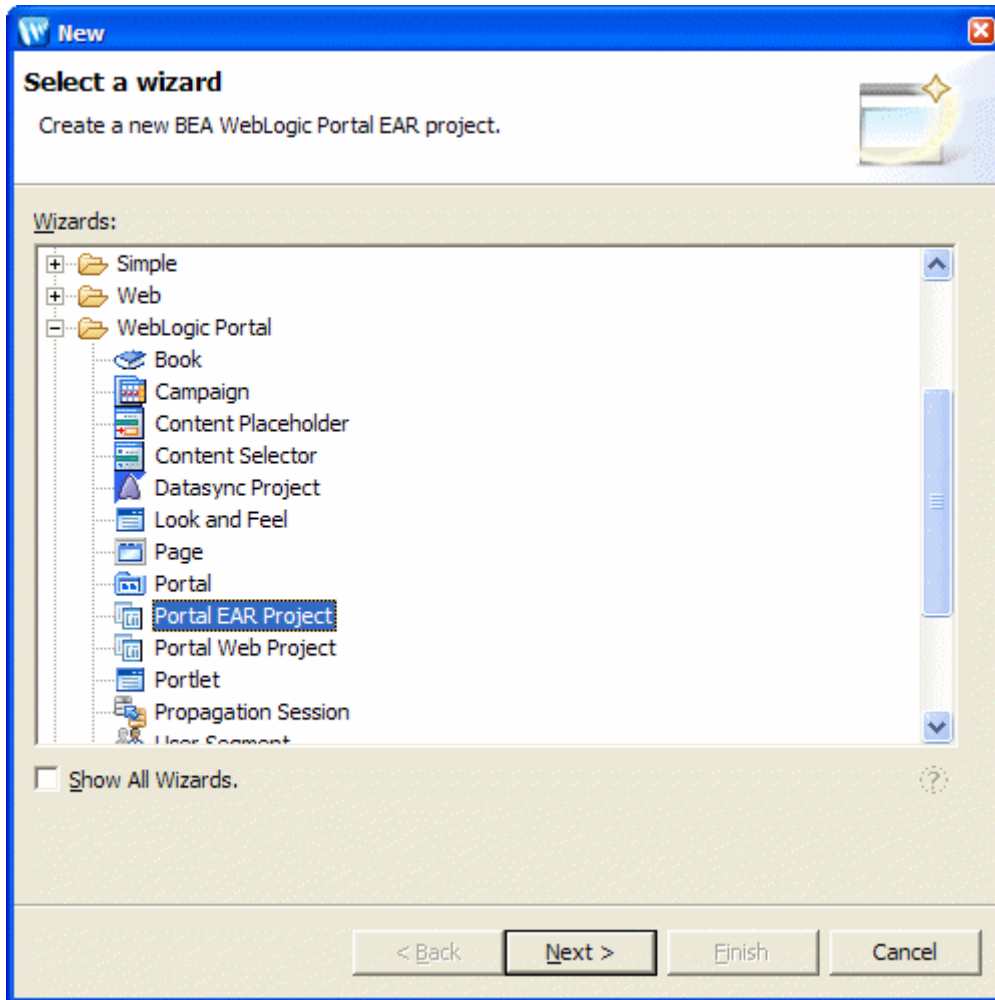
Create the MobilityPortalApp EAR Project

To create the MobilityPortalApp EAR project:

1. To create a new EAR Project in Workshop, choose **File → New → Other**.



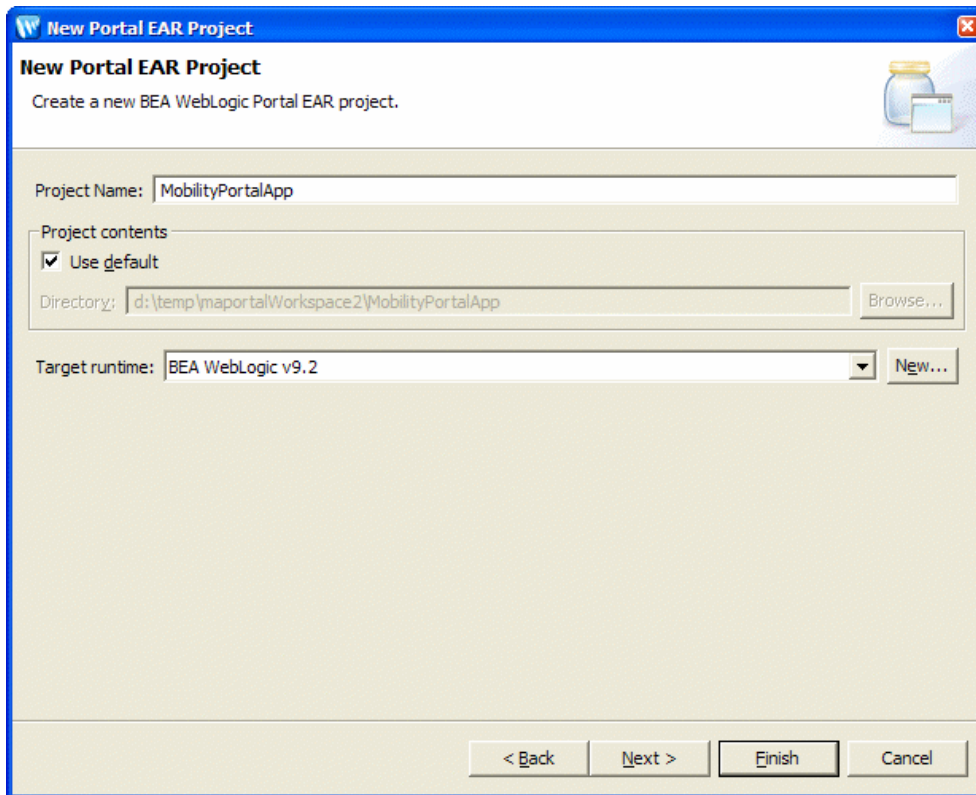
2. The “New” dialog is displayed.



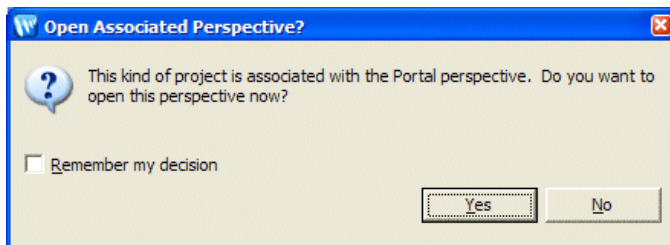
3. Expand **WebLogic Portal** and select **Portal EAR Project**.
4. Click **Next**.

3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations

5. The “New Portal EAR Project” dialog is displayed.



6. Enter “MobilityPortalApp” in the **Project Name** field.
7. Ensure “BEA WebLogic v9.X” is specified in the **Target runtime** field.
8. Click **Finish** to create the EAR project.
9. The following message will be displayed.



10. Click **Yes**.

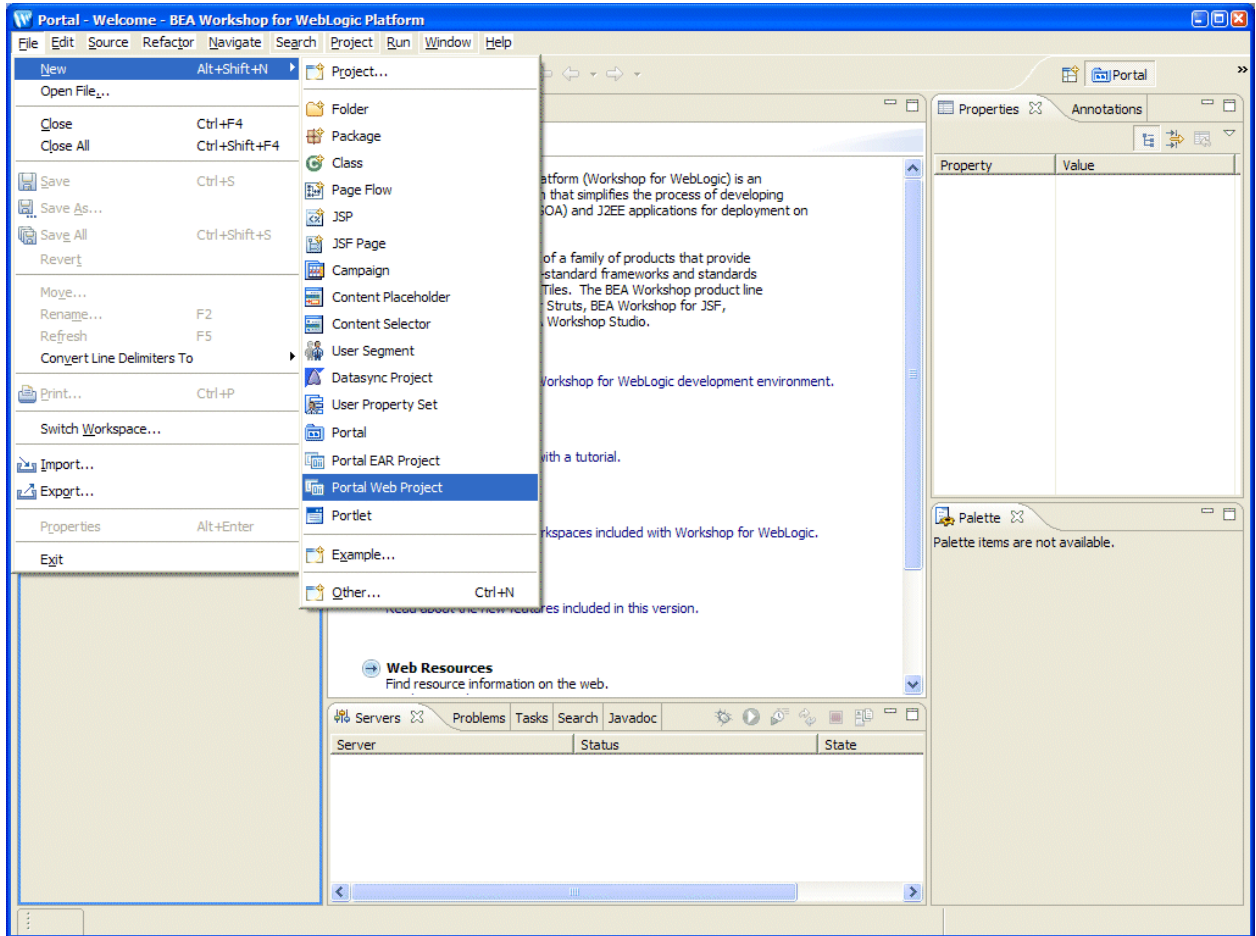
Now that you have created a new domain and an EAR project, you need to create the portal web project.

Create the Sample Workshop Mobility Portal Project—“maportal”

Create a Portal Web Project

When WebLogic Mobility Server was installed, a Sample Mobile Portal Project template was created. Create the sample Workshop mobility portal project using this template as described below and then refer to the *BEA Sample Mobility Portal Guide* for an explanation of the features of the sample portal.

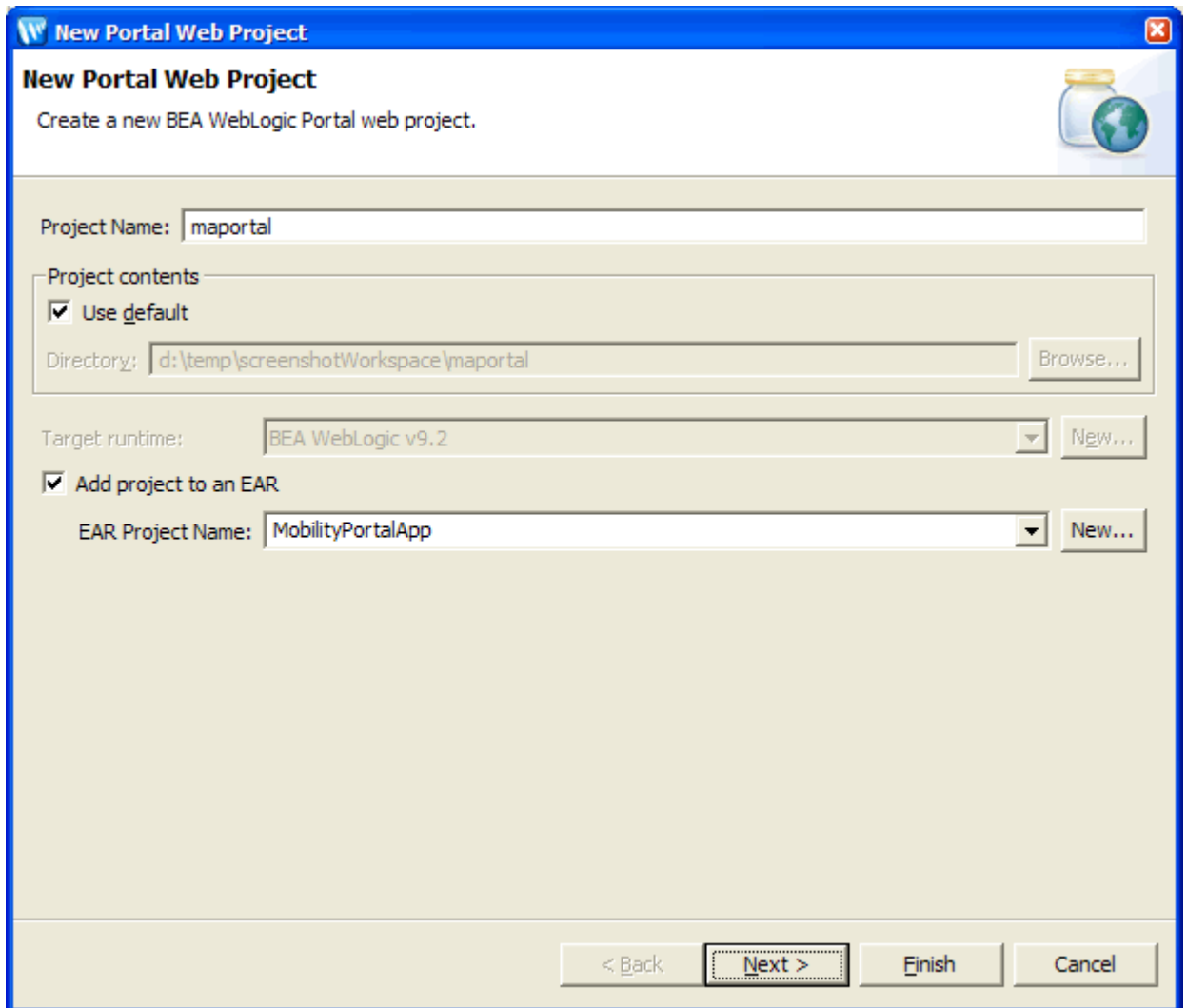
1. From Workshop, expand the **File** menu.



2. Choose **New** → **Portal Web Project**.

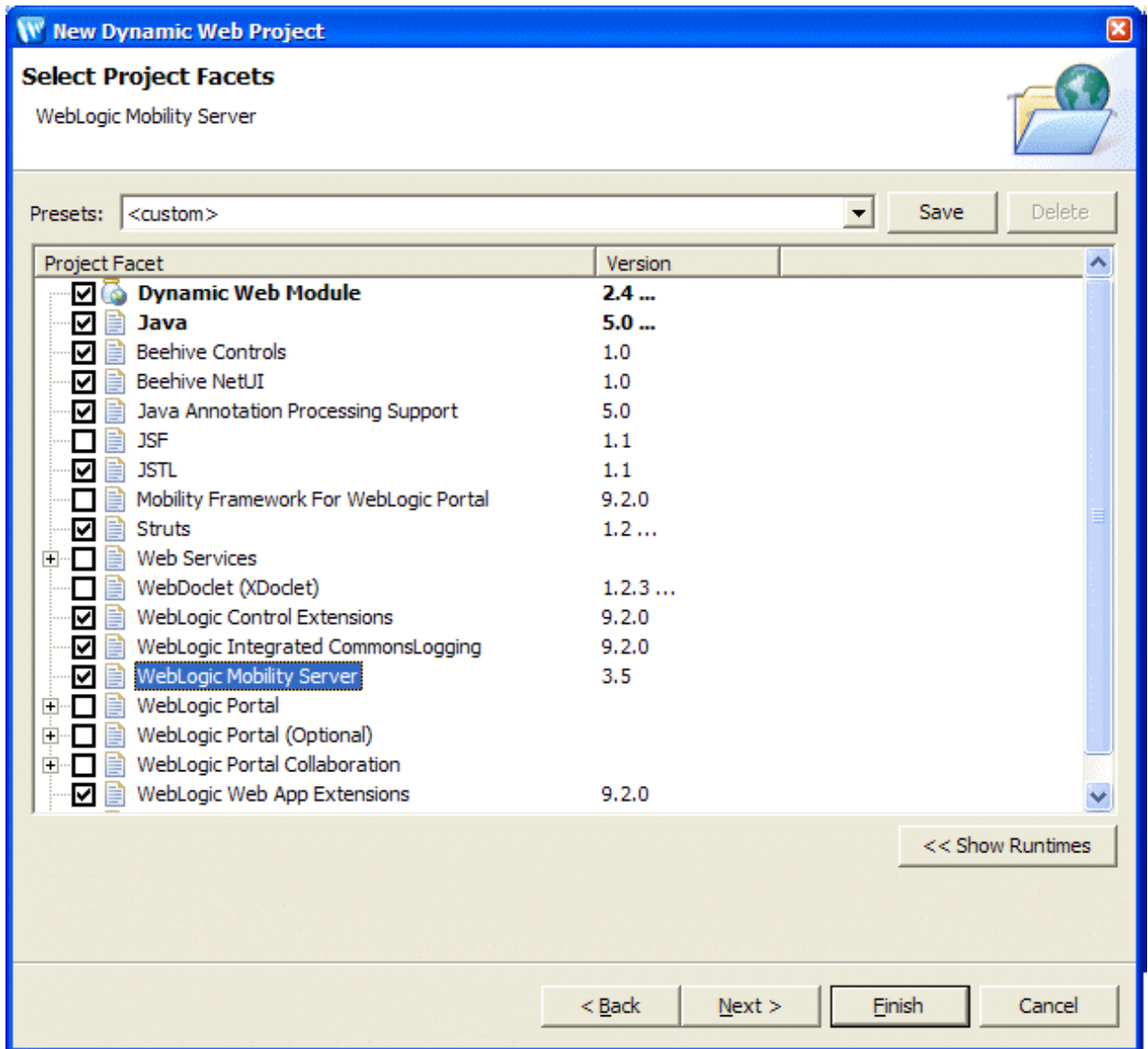
3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations

3. The “New Portal Web Project” dialog is displayed.



4. Enter “maportal” in the **Project Name** field.
5. Select the **Add project to an EAR** checkbox (—ensure that the “MobilityPortalApp” project is selected in the **EAR Project Name** field).
6. Click **Next**.

7. The “Select Project Facets” dialog is displayed.



8. Select the **WebLogic Mobility Server** checkbox.
9. Click **Finish**.

Note: If the WebLogic Mobility Server installation directory has not been configured correctly, the **Finish** button on this screen will not be enabled and you will firstly need to click **Next** until you reach a screen that allows you enter the correct location.

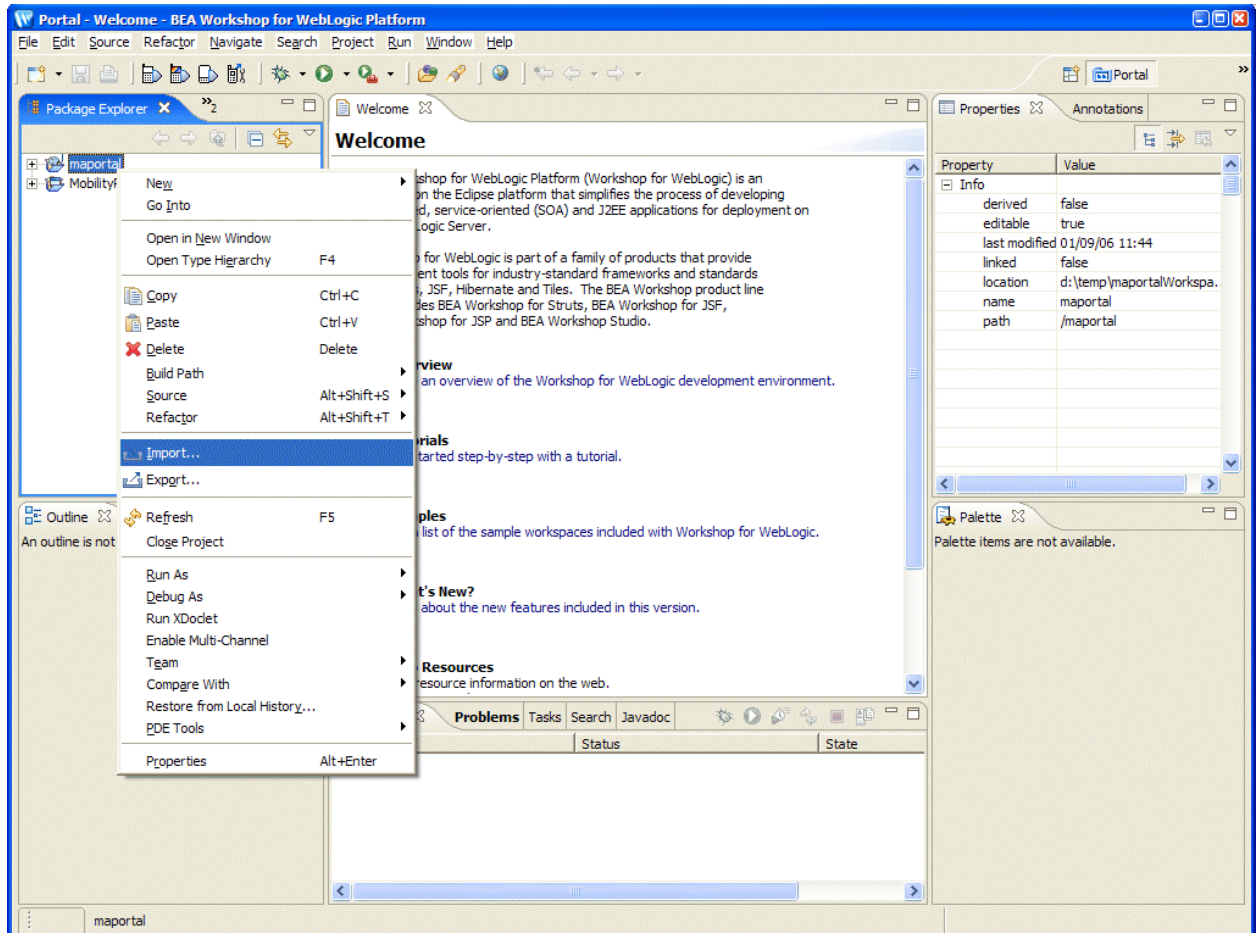
Note: You will see the **Mobility Framework for WebLogic Portal** facet in the image above. Please refer to “Appendix B: Mobility Framework for WebLogic Portal 9.2” for a description of this feature.

3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations

Import the Sample Portal Files

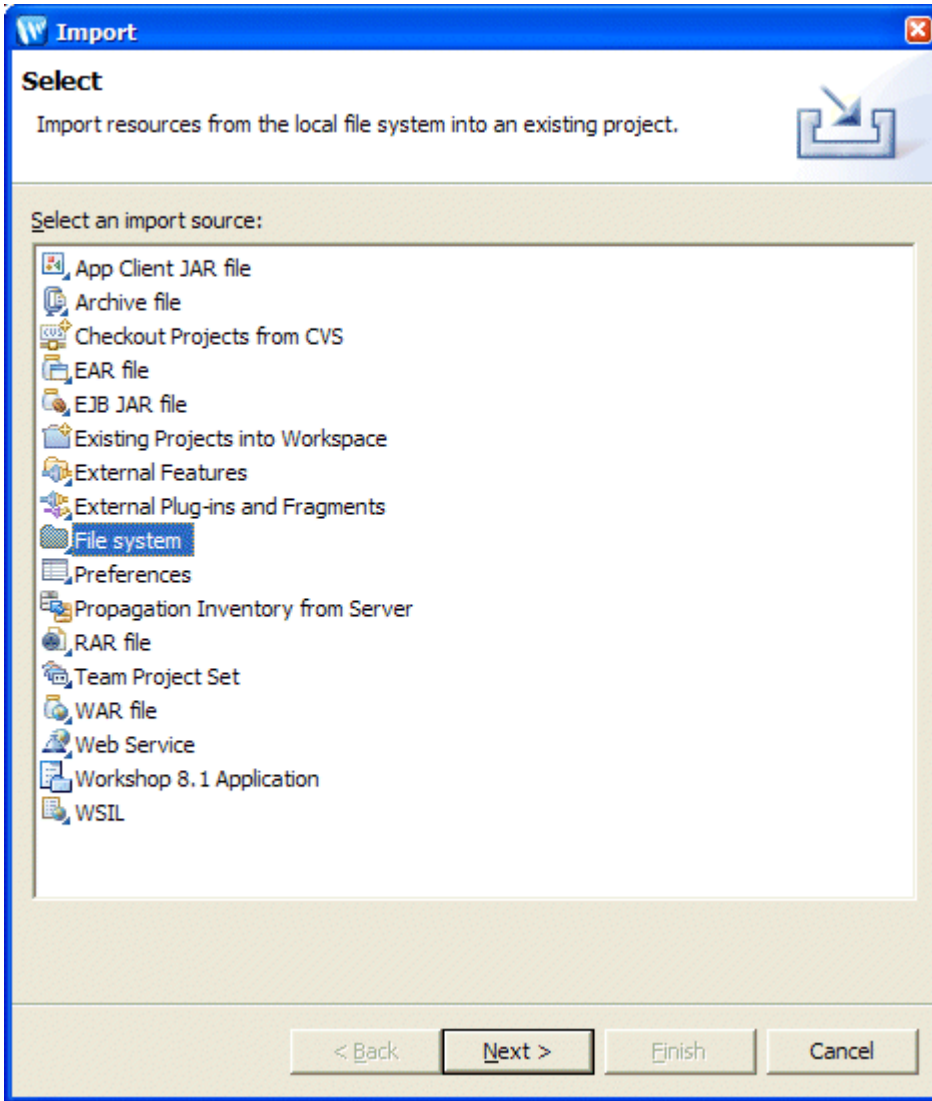
You now need to import the sample portal files.

1. Right-click on the “maportal” project.



2. Select “Import” from the drop-down menu that is displayed.

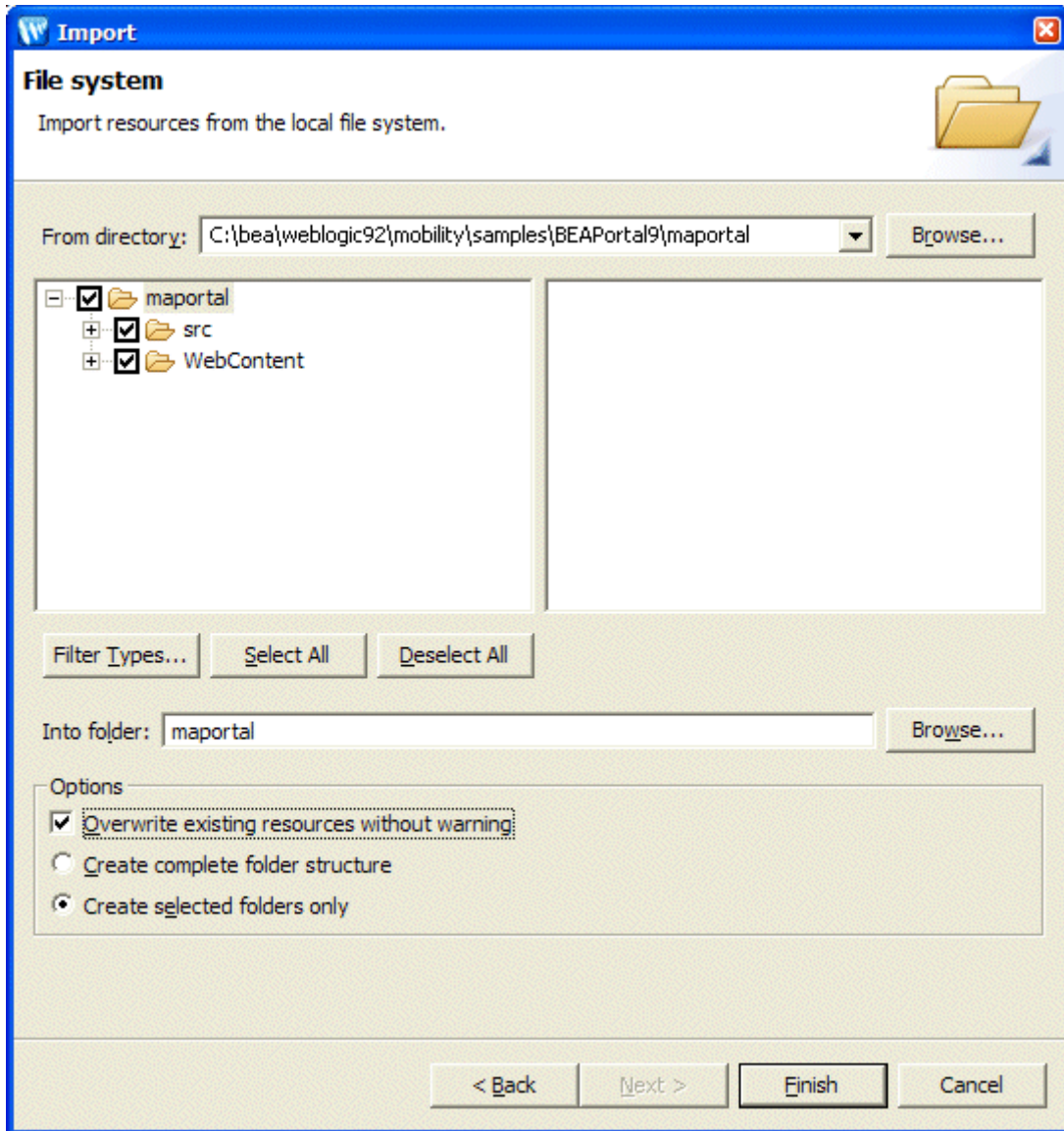
3. The “Import” dialog is displayed.



4. Select **File System** and click **Next**.

3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations

5. The “File System” dialog is displayed.

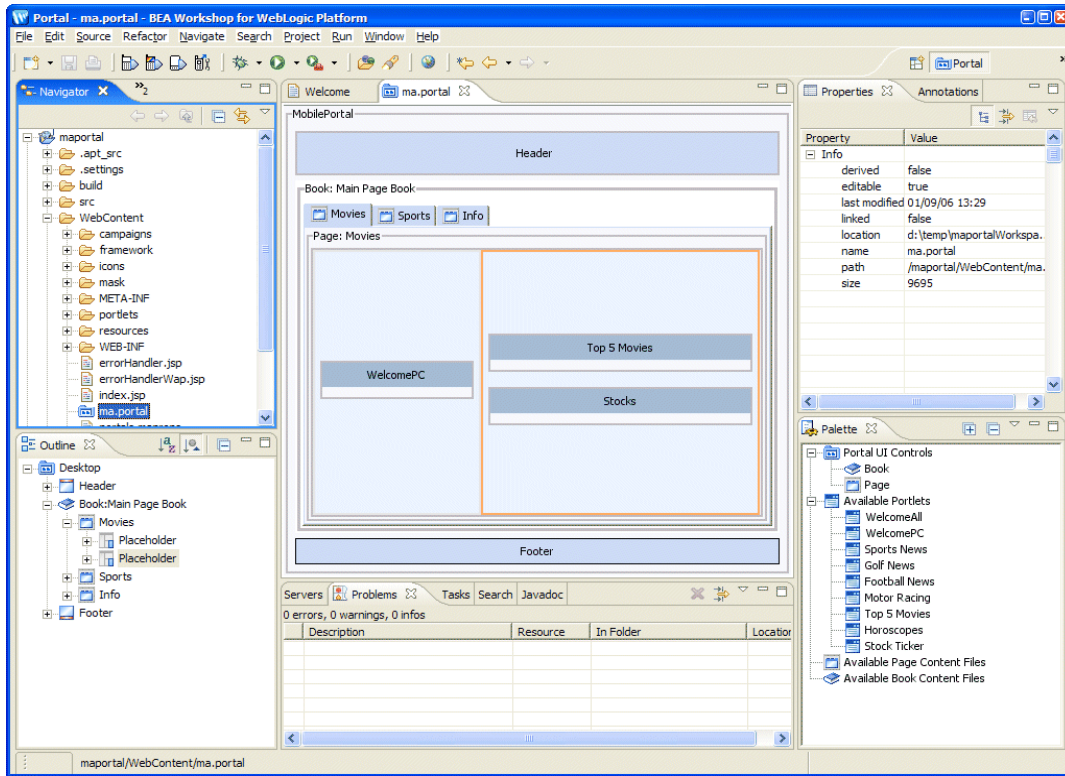


6. Click **Browse** in the **From directory** field and navigate to **<WLMS_install_directory>\samples\BEAPortal9\maportal**.
7. Ensure that the folders and sub-folders are expanded and selected as illustrated above.
8. Select the **Overwrite existing resources without warning** checkbox and the **Create selected folders only** option.
9. Click **Finish**.

Define a New Server

You will need to define a server for use in BEA Workshop for WebLogic Platform 9.X and set it as default.

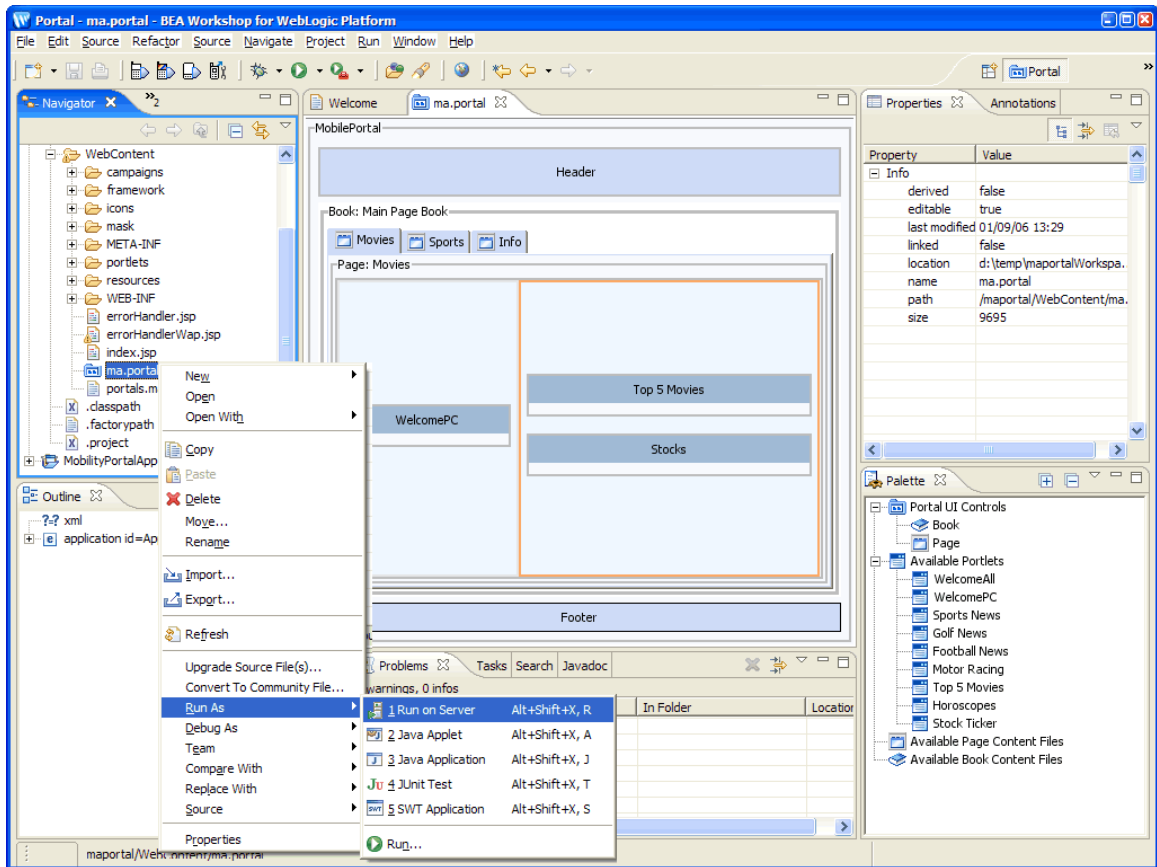
1. Select the “maportal” portal file on the left hand side of the screen.



2. Double-click on it to open it.

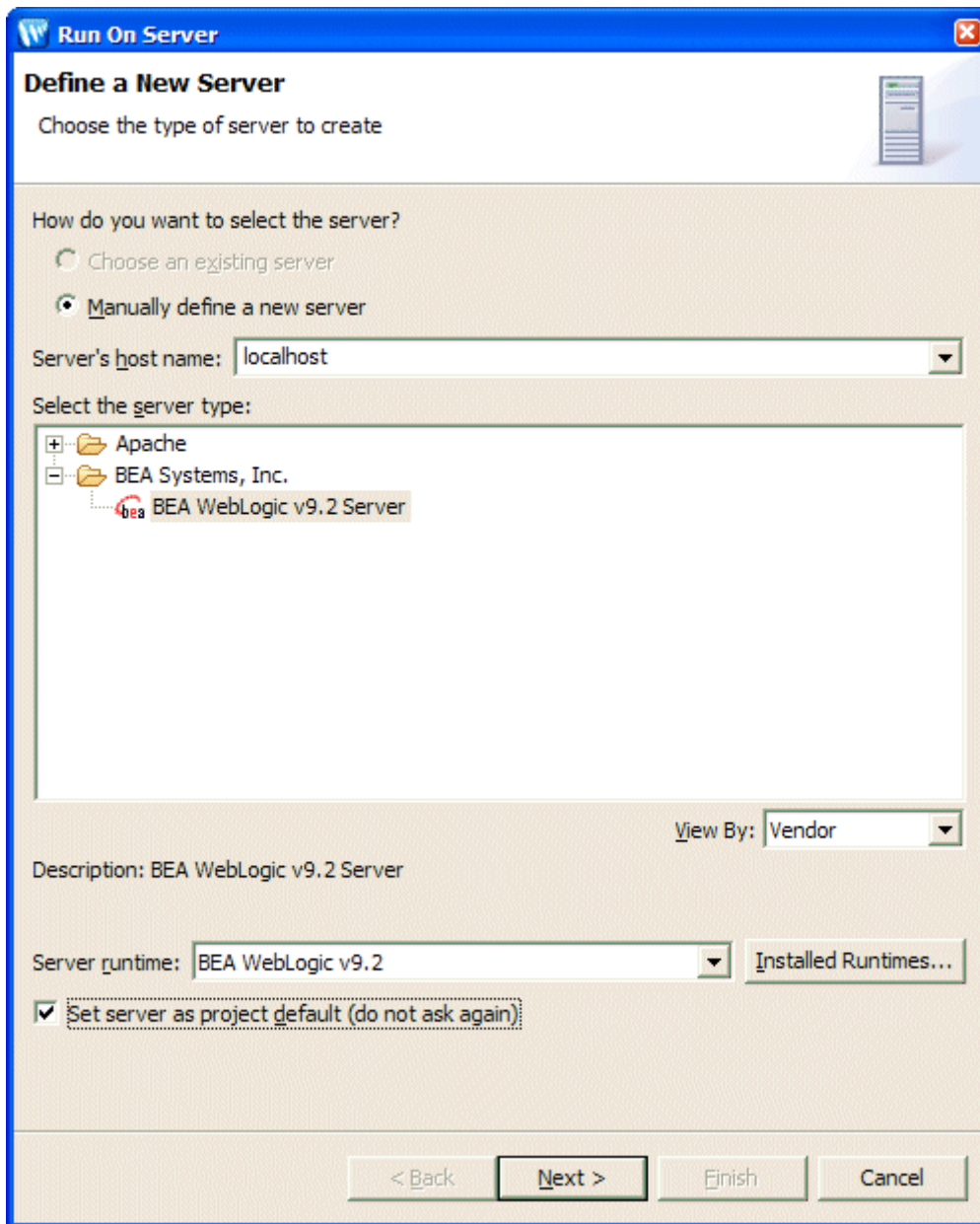
3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations

3. Now, run the portal.



4. Right-click on the “maportal” portal file and select **Run** → **Run As** → **Run on Server**.

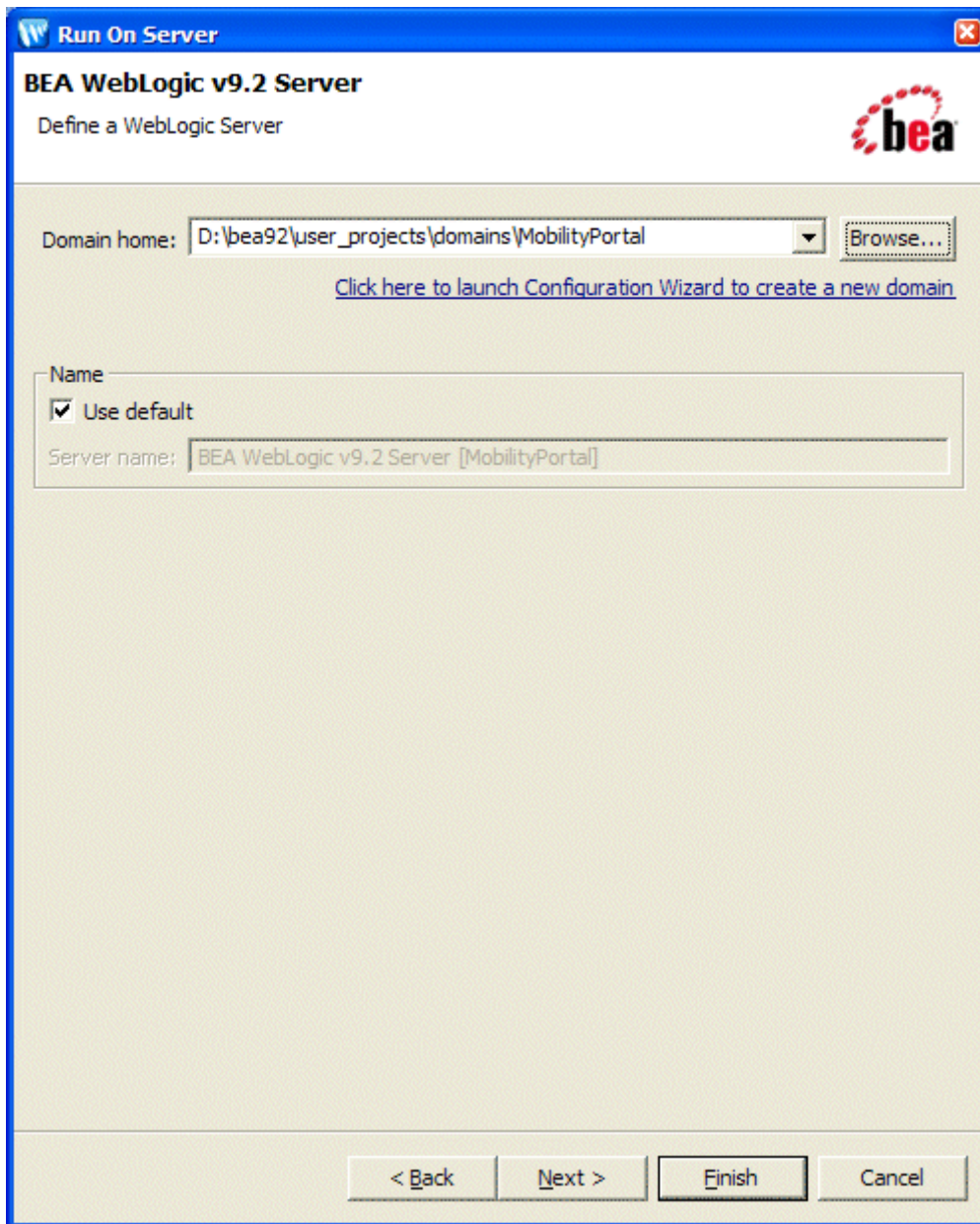
5. The “Define a New Server” dialog is displayed.



6. Select the **Set Server as project default** checkbox and click **Next**.

3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations

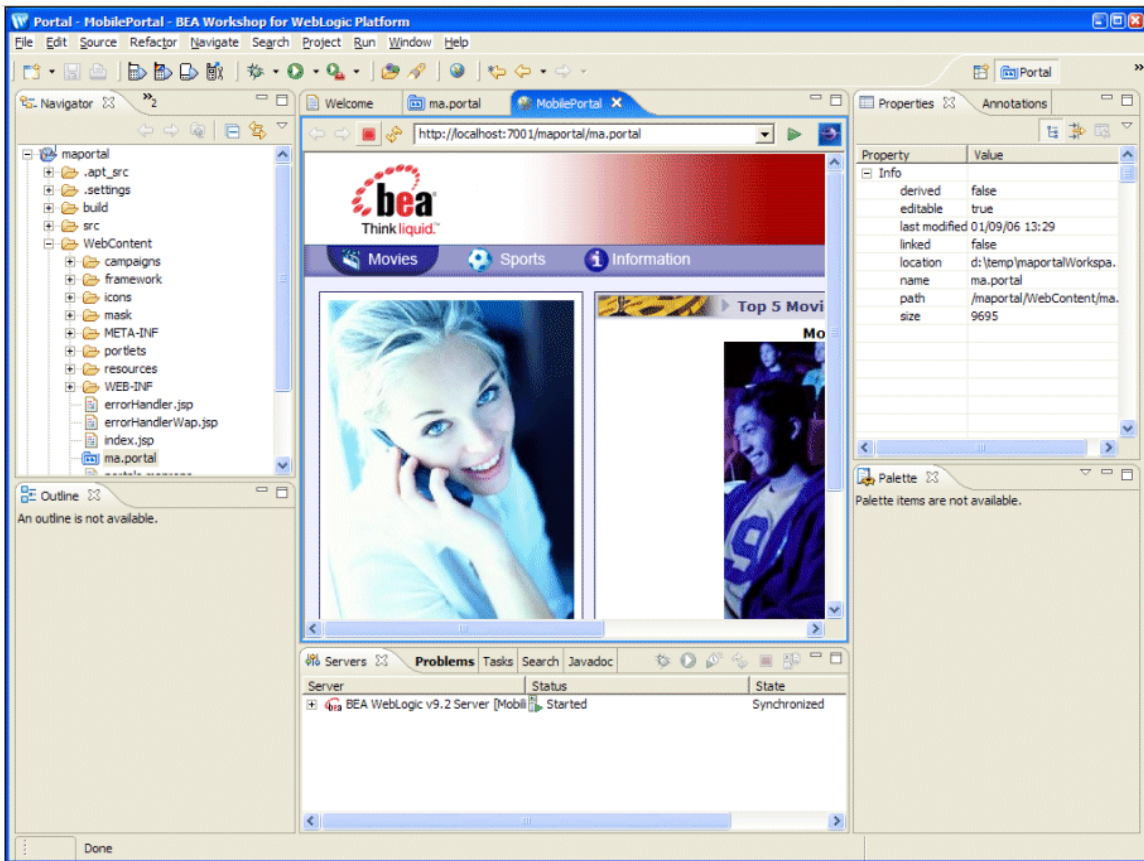
7. The “Run on Server” dialog is displayed.



8. In the **Domain home** field, click **Browse** and navigate to the “MobilityPortal” domain that you previously created.
9. Select the **Use default** checkbox and click **Finish**.

3—Additional Configuration: Mobility Plugin for BEA Workshop for WebLogic Platform 9.X Installations

10. The portal is then displayed.



The *Sample Mobility Portal Guide* document explains the features of the “maportal” sample project

4—Additional Configuration: Mobility Extension for BEA WebLogic Workshop 8.1 Installations

Important notes

- This chapter is only relevant if you selected the “WebLogic Mobility Server for Workshop 8.1” installation option or opted to install the Mobility Extension for BEA Workshop, and are using BEA Workshop to author content.
- The Mobility Extension is installed as part of the WebLogic Mobility Server installation process, therefore you are not required to install it separately here

Configure the WebLogic Mobility Server Location (Optional)

The location of the WebLogic Mobility Server install was configured during installation to <WLMS_install_directory>. If you have a new WebLogic Mobility Server install in a different location to that of a previous version, follow the steps here, which describe how to re-configure the WebLogic Mobility Server location for use with the Mobility Sample Projects for BEA Workshop and BEA Portal.

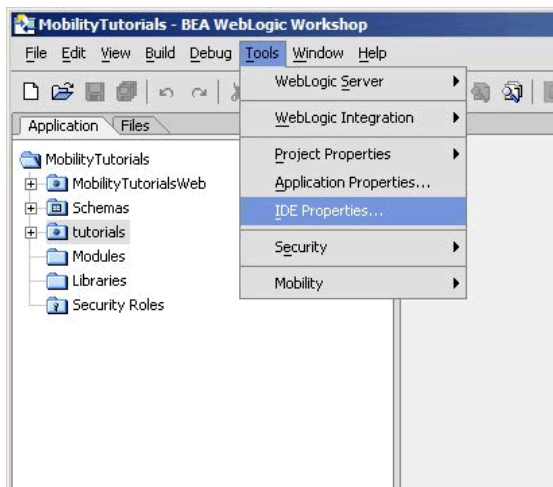
Notes

- This step is optional
- If you have multiple WebLogic Mobility Server installs on the same machine and want to uninstall these, please note that the Add or Remove Programs function in the Control Panel (for Windows installations) will only remove the most recently-installed version of WebLogic Mobility Server. It is necessary to uninstall older versions manually, by navigating to <WLMS_install_directory>\UninstallerData and running *Uninstall BEA WebLogic Mobility Server.exe*.

To configure the WebLogic Mobility Server location:

1. Open BEA WebLogic Workshop.

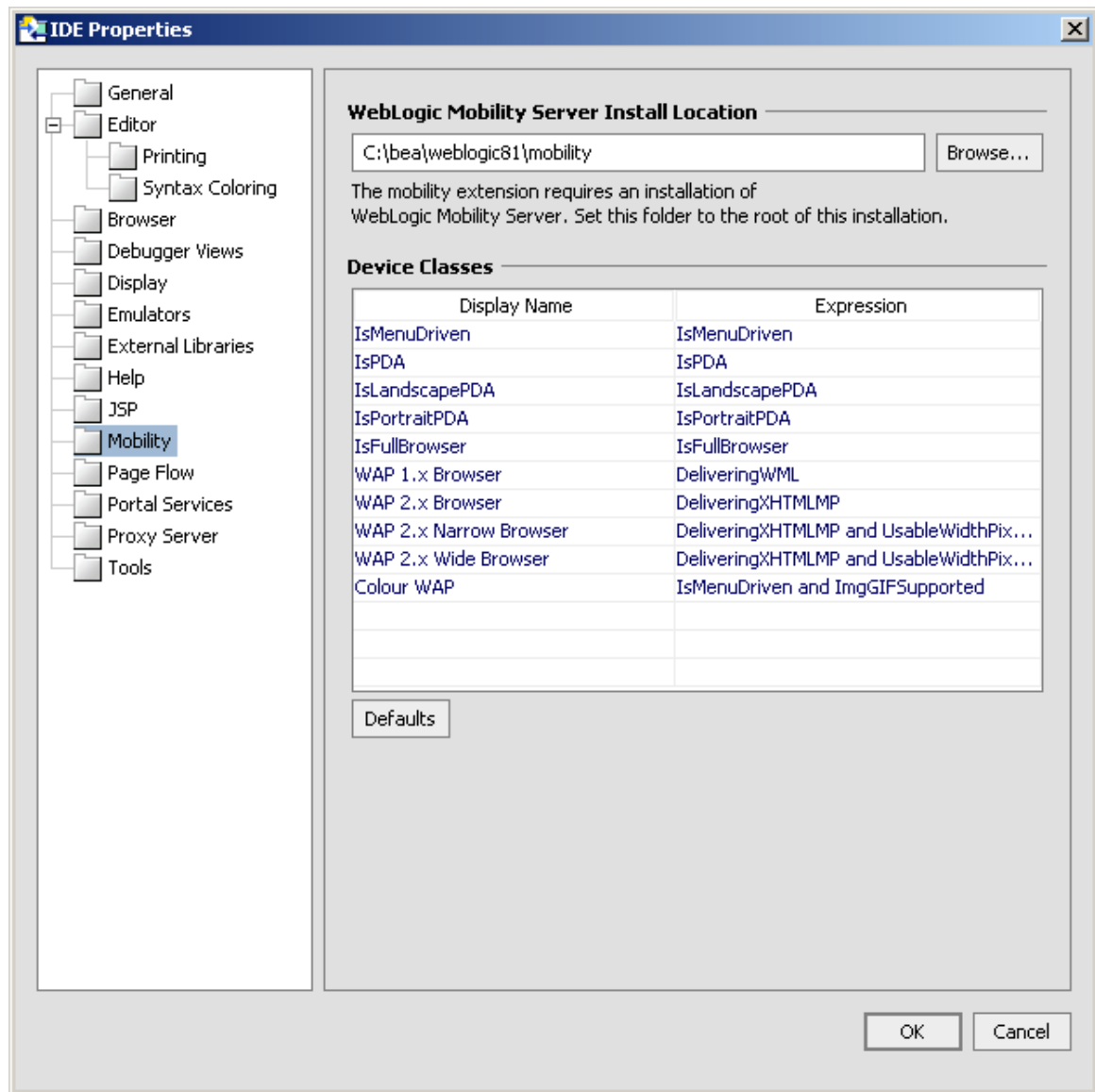
IDE Properties



2. From within your BEA Workshop Environment, choose **Tools → IDE Properties**.

3. The IDE Properties dialog is displayed.

WebLogic Mobility Server Location



4. Select the **Mobility** folder.
5. The location of the WebLogic Mobility Server installation was pre-configured during the installation to <BEA_install_directory>\weblogic81\mobility and displays in the **WebLogic Mobility Server Install Location** field.

To change the location to point at a different WebLogic Mobility Server installation, enter the location of the WebLogic Mobility Server installation in the **WebLogic Mobility Server Install Location** field or click **Browse** to browse to the location. This will enable access to device diagnostic and device management tools from within BEA WebLogic Workshop.

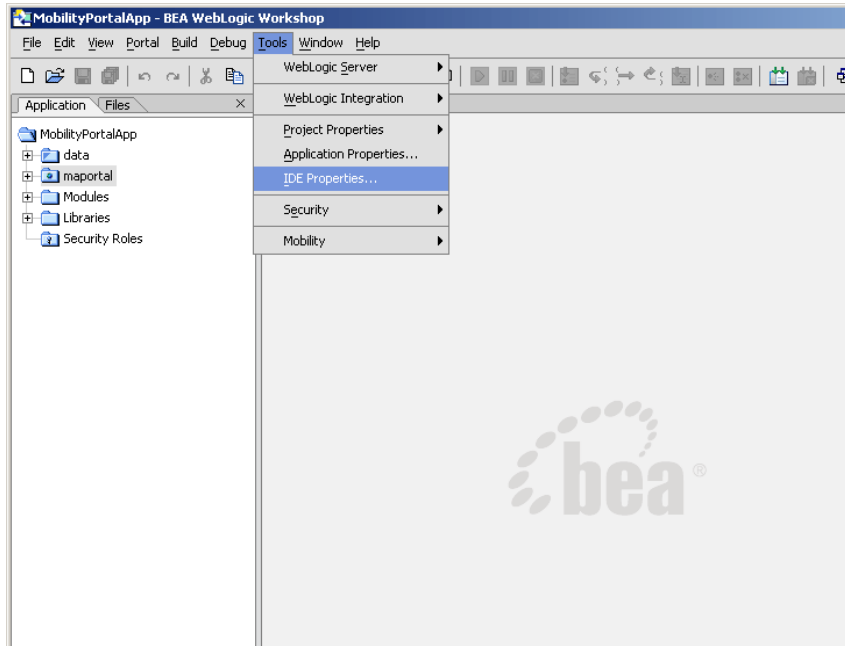
6. Click **OK**.

Configure the Device Emulators for use within BEA WebLogic Workshop 8.1

This section describes how to configure the emulators for use within BEA WebLogic Workshop 8.1. You can use the device emulators to see how the mobilized content will look on a particular device (for example phones, PDAs). Several emulators are available for download free of charge on the Internet. This section describes how to configure the emulators for use within BEA Workshop.

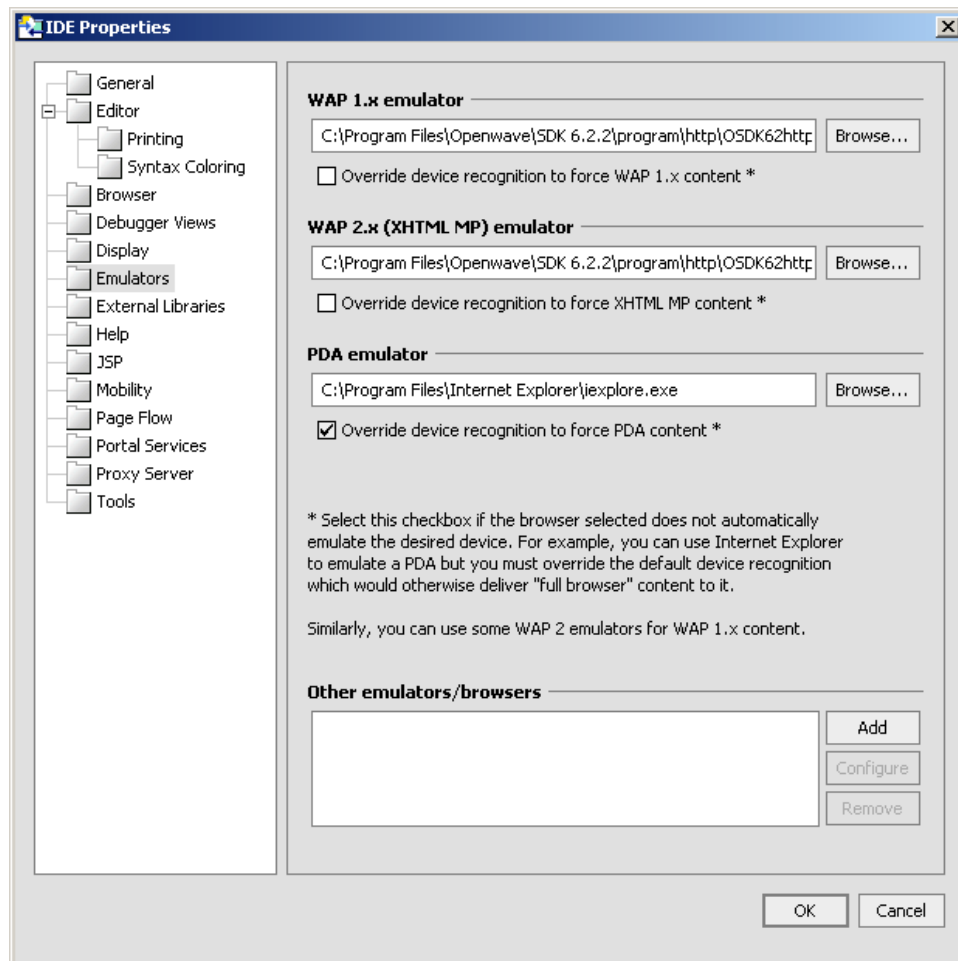
1. To configure the tools and emulators for usage within the BEA Workshop environment, select IDE properties from the Tools Menu. Choose **Tools → IDE Properties**

Select IDE Properties



- The “IDE Properties” dialog is displayed. To configure the emulators, select the **Emulators** tab.

Setting up Internet Explorer as a PDA Emulator



- Select WAP1.x emulator by browsing to the appropriate emulator executable file.
Note: It is recommended that you use the Openwave Emulator, which can emulate WAP 1.x and XHTML-MP devices. However, emulators from Nokia, Ericsson, or others can also be used. If using an Openwave Emulator, select the *OSDK62http.exe* (for version 6.2) or the *OSDK61http.exe* (for version 6.1) in the installation directory where the emulator is installed, for example `C:\Program Files\Openwave\SDK 6.1\program\http`.
- Select WAP2.0 emulator by browsing to the appropriate emulator executable file.
- Select PDA emulator by browsing to the appropriate emulator executable file.
 - You can find a PDA emulator at `<WLMS_install_directory>\tools\emulators\PDA.exe`
 - Alternatively, to set up MS Internet Explorer to function as a PDA emulator, browse to your *iexplore.exe* in the PDA emulator text box as can be seen in the diagram below and select the **Override device recognition to force PDA content** check box
- Click **OK**.

Create the Workshop Domain and Install the Sample Workshop Projects

Introduction

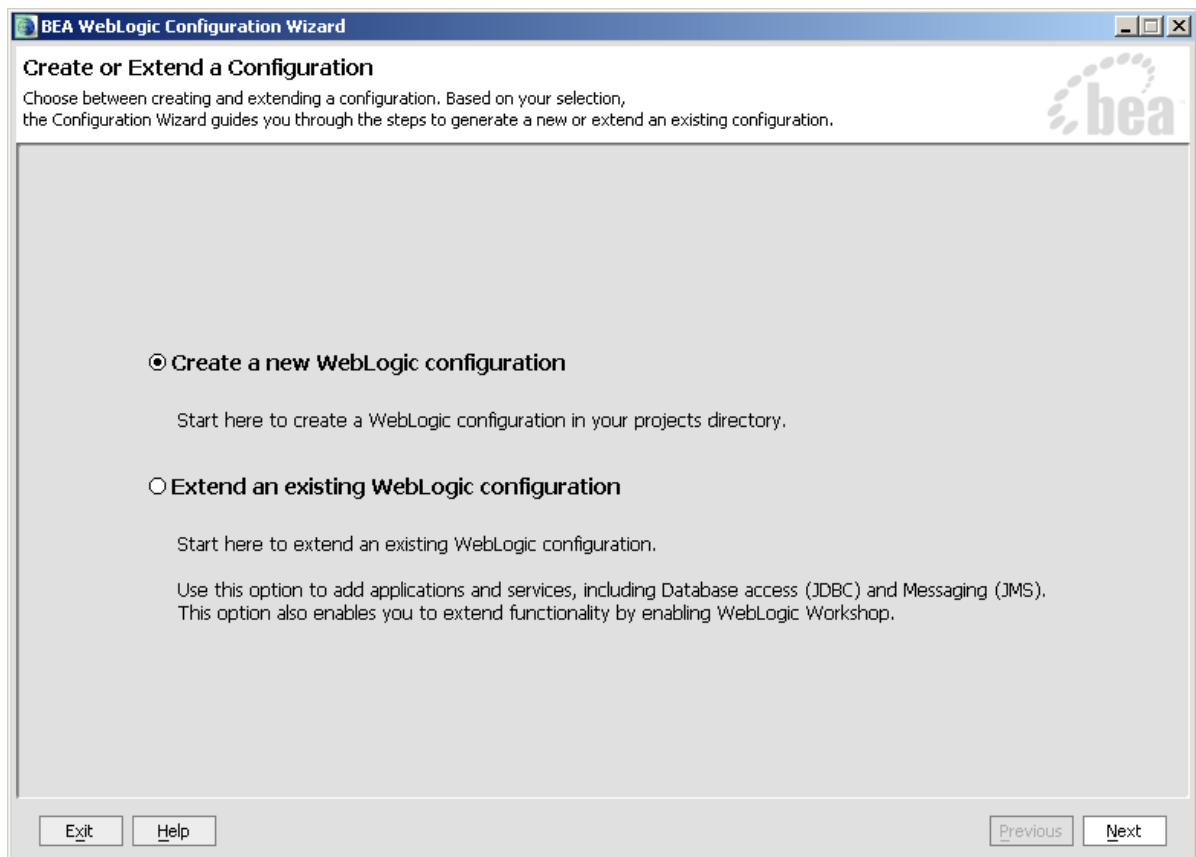
This section describes creating a BEA Workshop Domain, creating a new application, and then importing the provided Sample Workshop Projects into the newly created domain.

Create the Mobility Domain

To create the Mobility Domain:

1. Launch the BEA WebLogic Configuration wizard from the Windows Start menu; choose **Start → Programs → <BEA install directory> → Configuration Wizard**
If you have BEA Workshop open, you can also launch it from the tools menu; choose **Tools → WebLogic Server → Configuration Wizard**
2. The “Configuration Wizard – Create a new WebLogic Configuration” dialog is displayed.

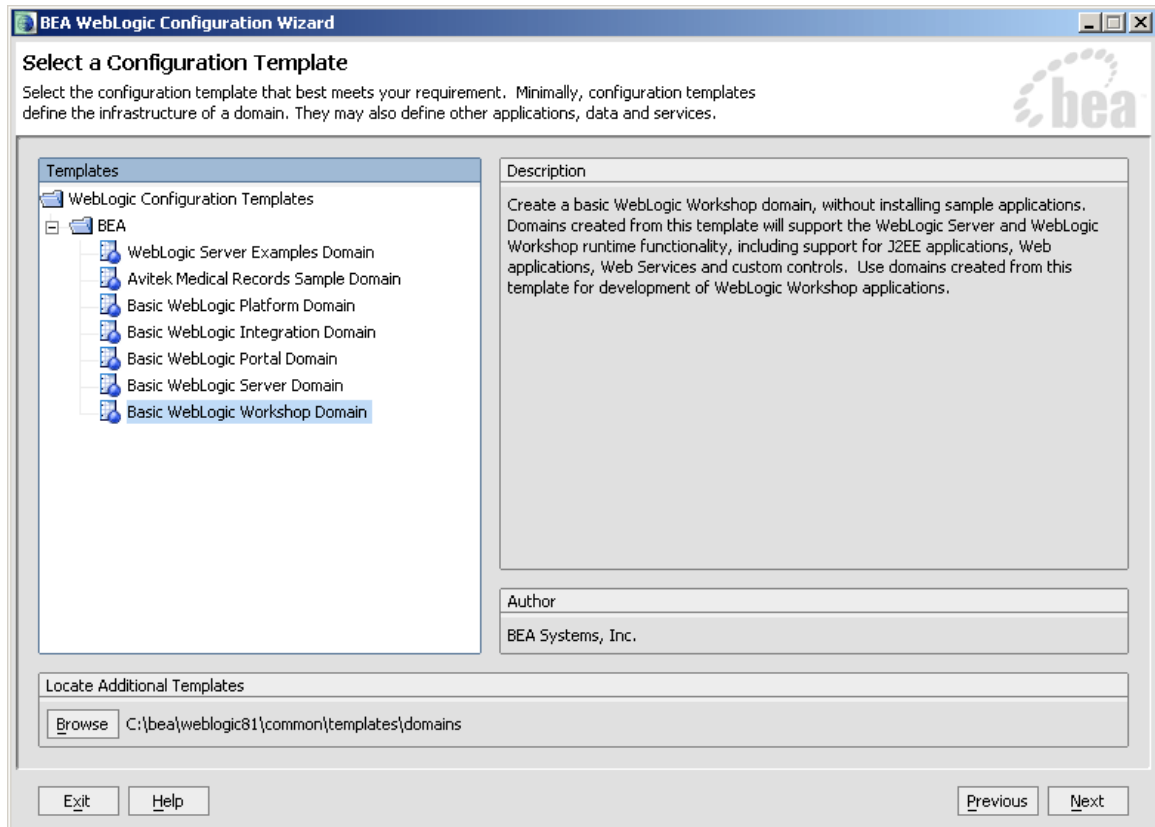
Configuration Wizard – Create a new WebLogic Configuration



3. Select **Create a new WebLogic configuration** and click **Next**.

4. The “Select a Configuration Template” dialog is displayed.

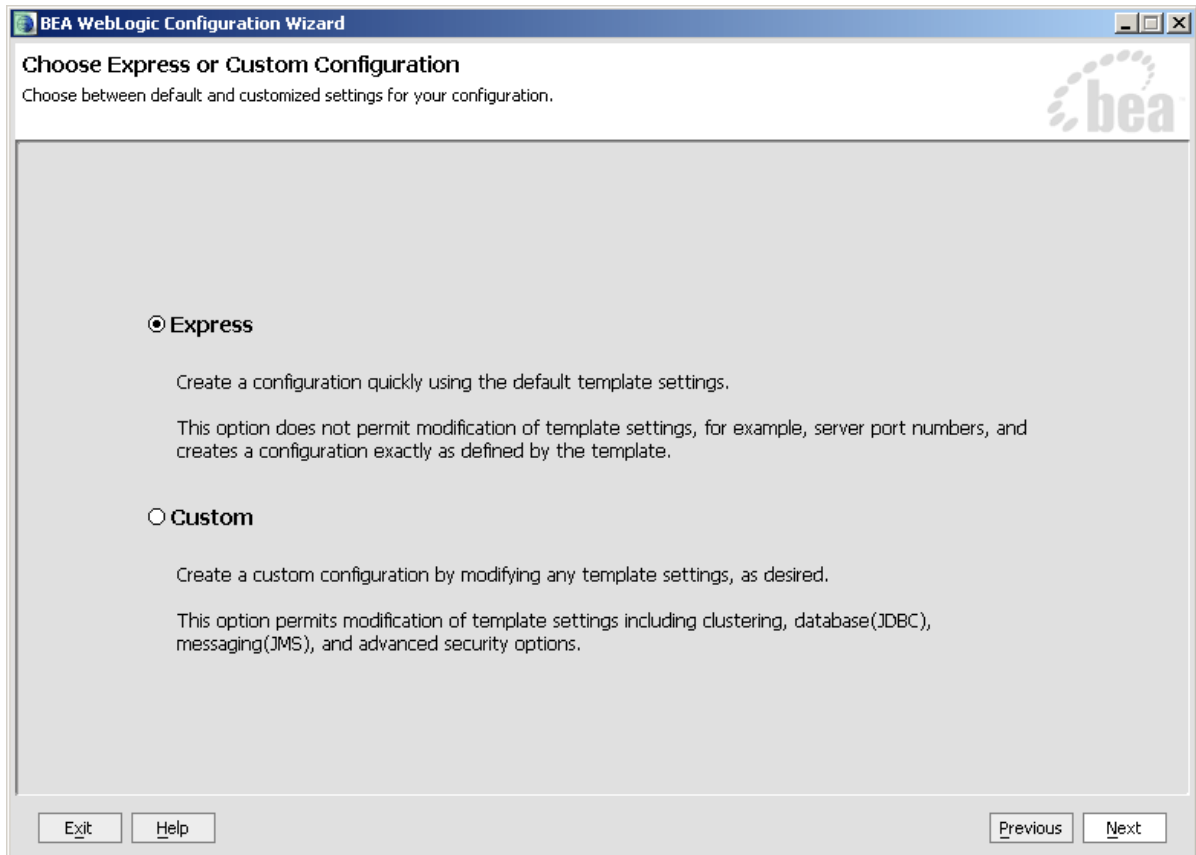
Configuration Wizard – Basic WebLogic Workshop Domain



5. **IMPORTANT:** Ensure that you select **Basic WebLogic Workshop Domain** and click **Next**.

6. The “Choose Express or Custom Configuration” dialog is displayed.

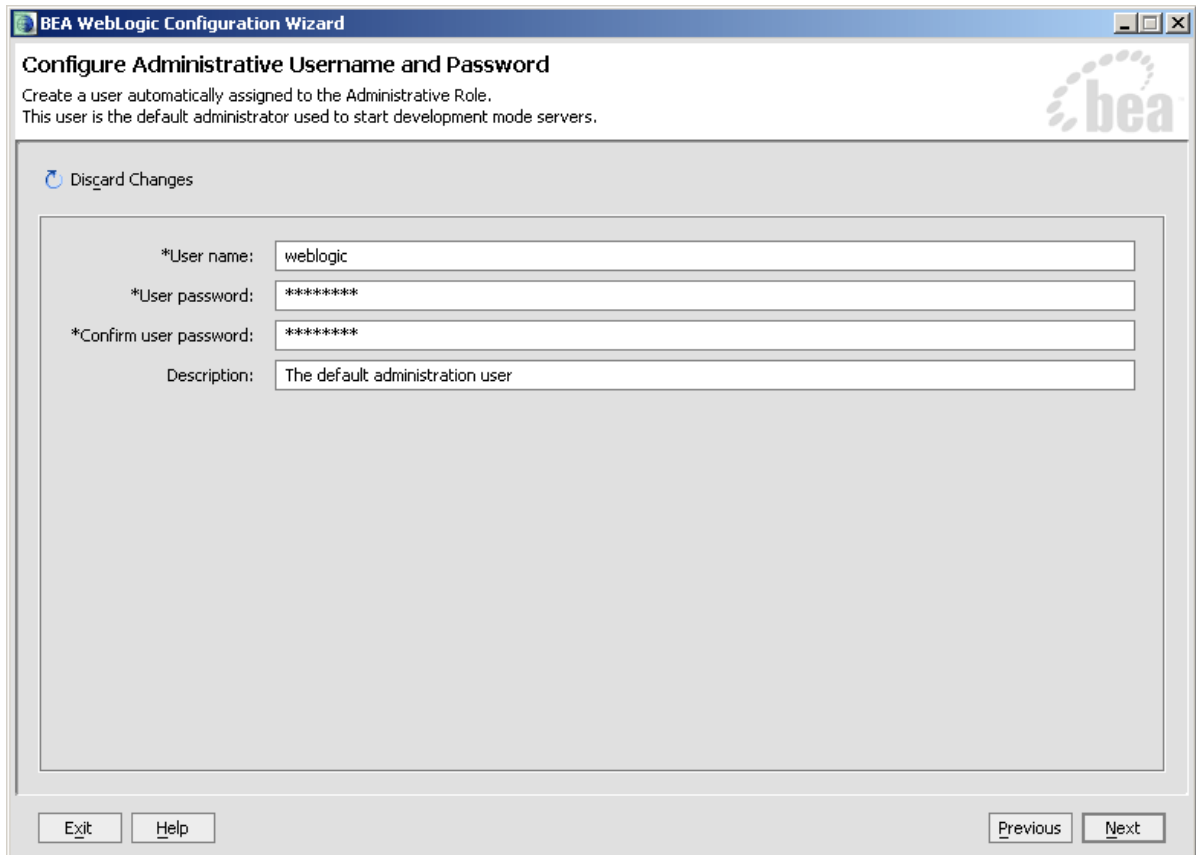
Configuration Wizard – Express Configuration



7. Select “**Express**” and click **Next**

8. The “Configure Administrative Username and Password” dialog is displayed.

Configuration Wizard – User Name and Password

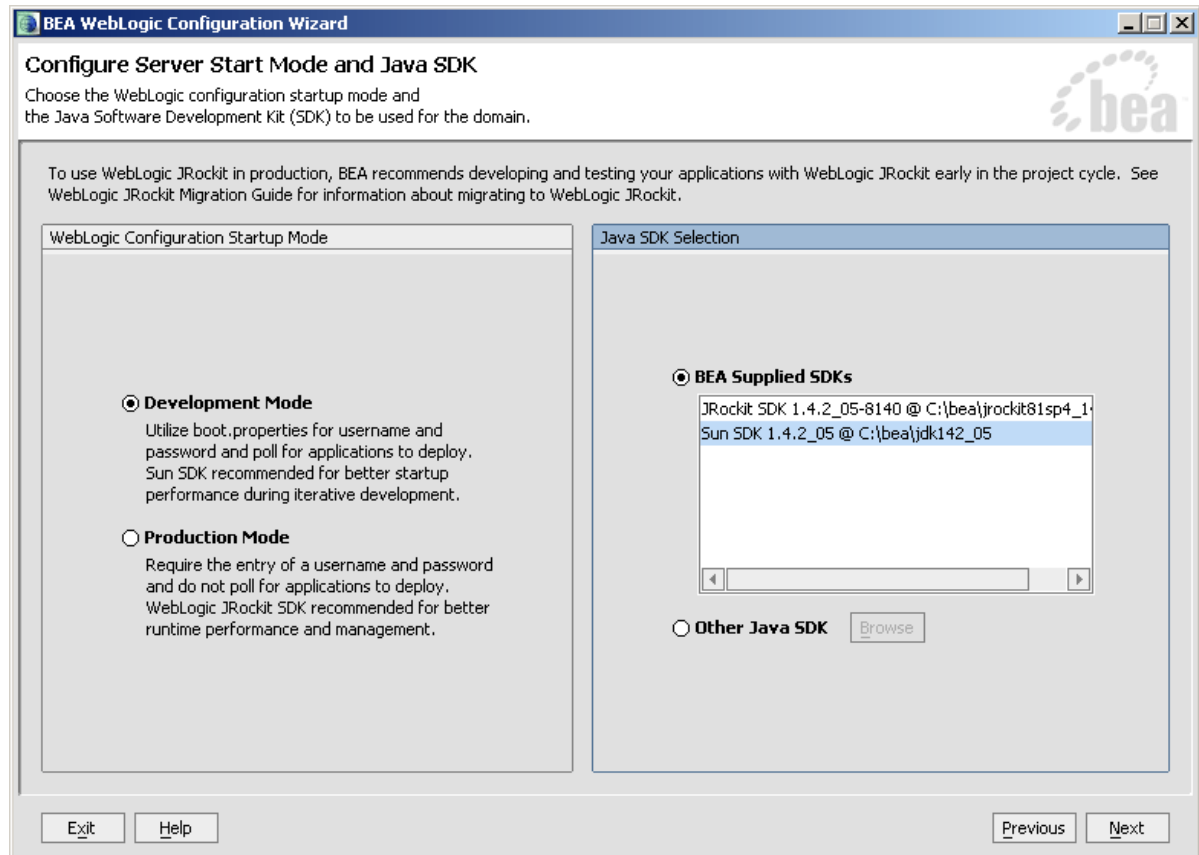


The screenshot shows a window titled "BEA WebLogic Configuration Wizard" with a sub-header "Configure Administrative Username and Password". Below the sub-header, there is a description: "Create a user automatically assigned to the Administrative Role. This user is the default administrator used to start development mode servers." The BEA logo is visible in the top right corner. A "Discard Changes" button is located at the top left of the main content area. The main content area contains four input fields: "*User name:" with the value "weblogic", "*User password:" with "*****", "*Confirm user password:" with "*****", and "Description:" with "The default administration user". At the bottom of the window, there are buttons for "Exit", "Help", "Previous", and "Next".

9. Enter “weblogic” for the username and “weblogic” for the password and click **Next**.

10. The “Configure Server Start Mode and Java SDK” dialog is displayed.

Configuration Wizard – Start Mode

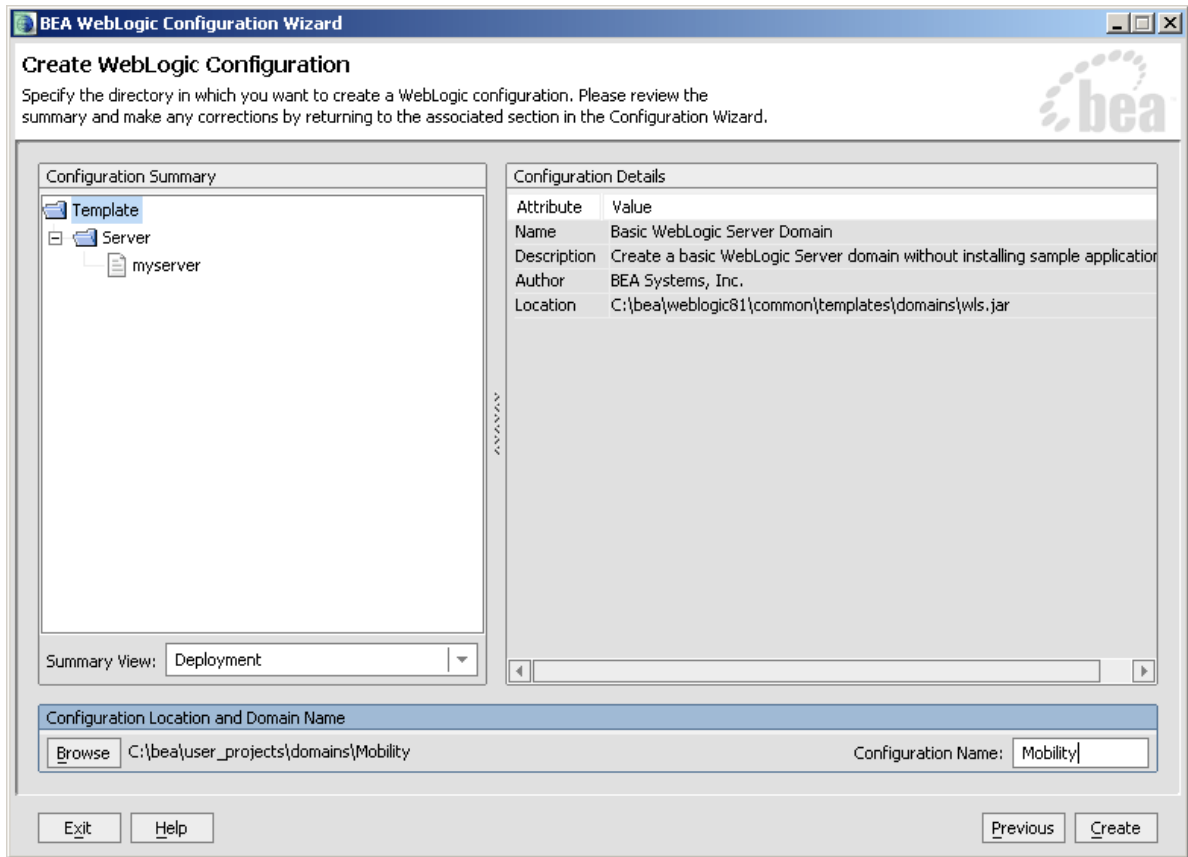


11. Select **Development Mode** within the **WebLogic Configuration Startup Mode** section.

12. Select your preferred JDK within the **Supplied SDKs** section and click **Next**.

13. The “Create WebLogic Configuration” is displayed.

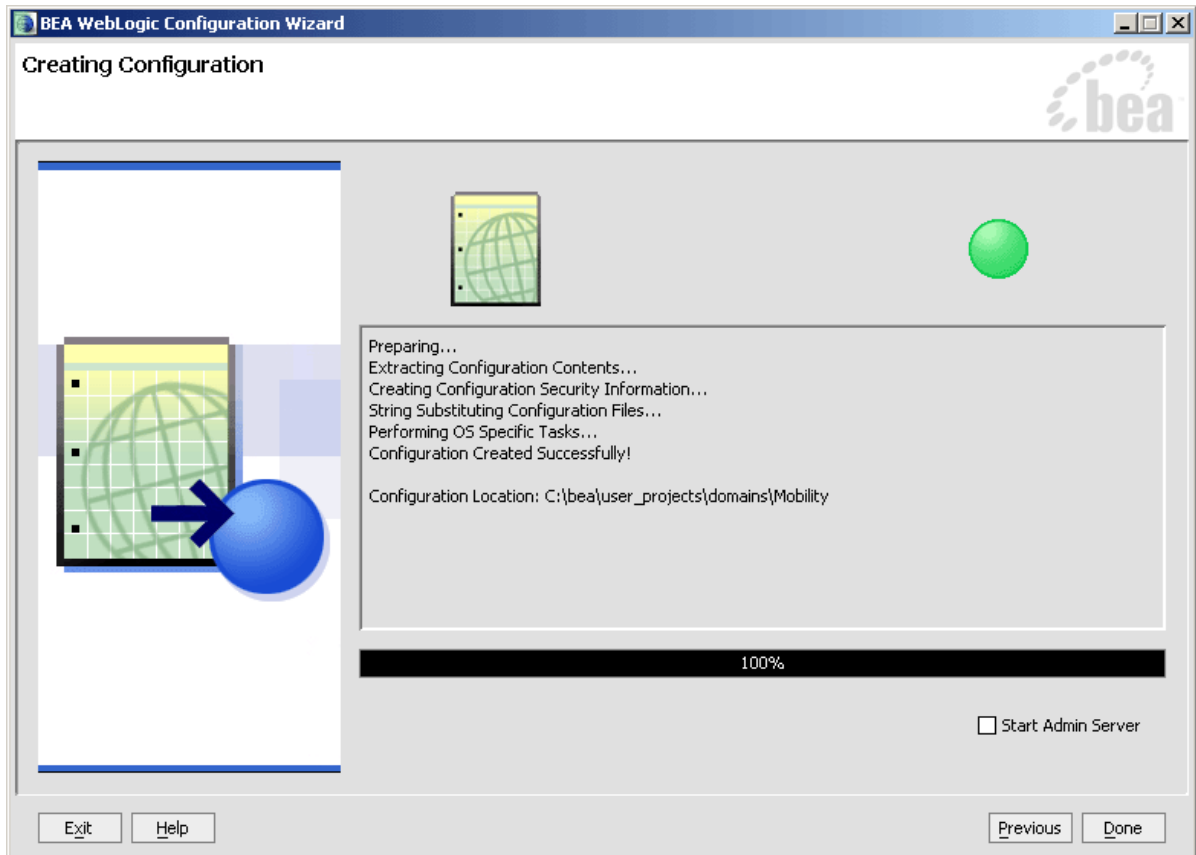
Configuration Wizard – Mobility



14. Enter “Mobility” in the **Configuration Name** field at the lower right-hand corner of the screen and click **Create**.

15. The configuration wizard will now create the domain.

Configuration Wizard – Creating Configuration



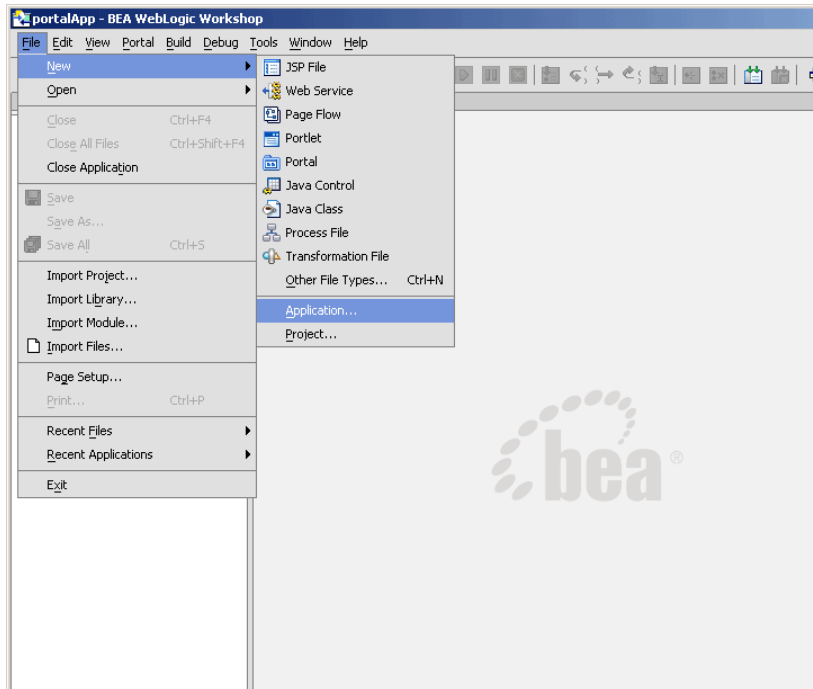
16. When it completes, click **Done** on the Creating Configuration screen.

Create the Mobility Application

To create the Mobility application:

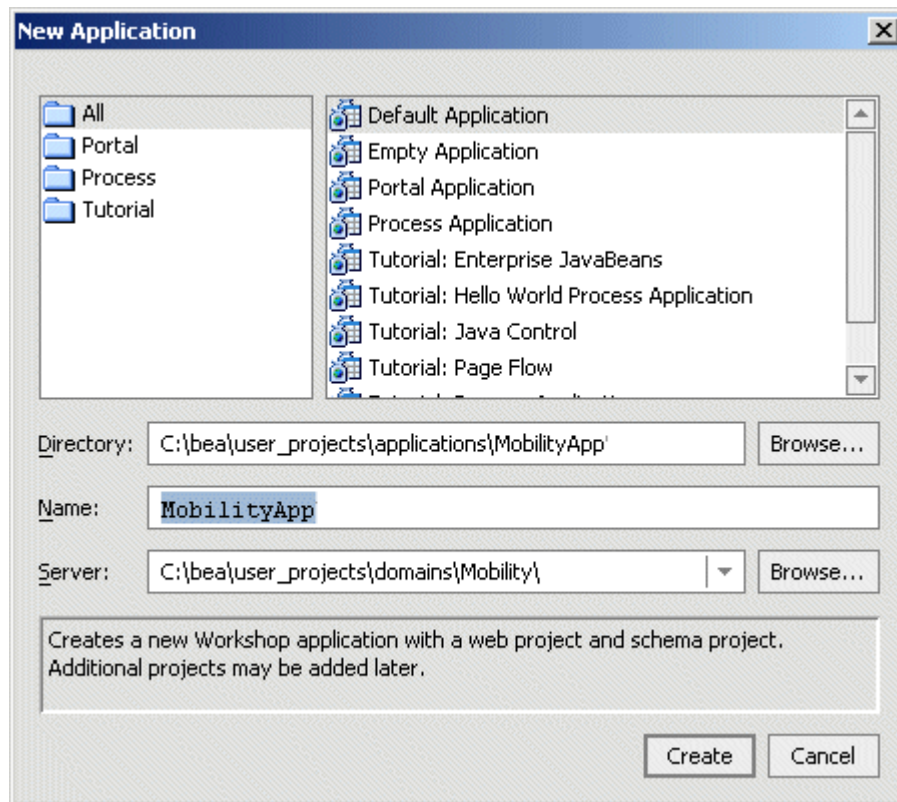
1. To create a new application in Workshop, choose **File → New→ Application**

Create New Application



2. The “New Application” dialog is displayed.

New Application Dialog



2. From the window:

- Select “Default Application”
- IF DESIRED: Click **Browse** next to the **Directory** field and browse the **Domains** directory, selecting your newly created “Mobility” domain.

(Some people choose to put the application into the domain – it means that you can zip the entire thing up to move it around. On the other hand, you can deploy an application to multiple domains if you want, so some people prefer to keep them separate, e.g. in the applications directory (default).)

- Enter “MobilityApp” in the **Name** field – this is the application where you will import the sample mobility application
- Click **Browse** next to the **Server** field and select the *config.xml* file inside the newly created “Mobility” domain

3. Once you have filled in the fields as above, click **Create** and the application will be created

Now that you have created a new domain and a new application, you can import the sample Workshop mobility project.

Import the Sample Workshop Mobility Project

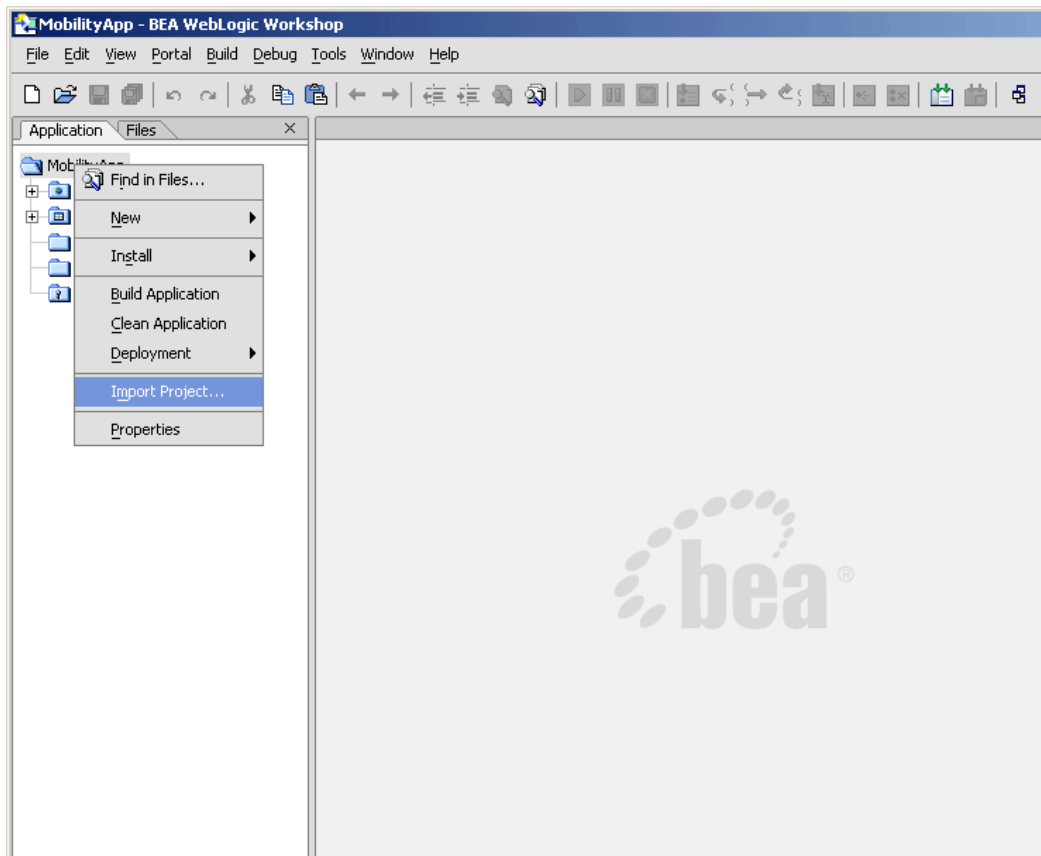
The sample Workshop Mobility project is located in the <WLMS_install_directory>\samples\BEAWorkshop directory.

Two versions of the project called `restaurantWeb` and `restaurantWeb_After` were installed during the Mobility Extension installation. The `restaurantWeb` project has not yet been mobilized, while the `restaurantWeb_After` project has already been fully mobilized.

You can install the `restaurantWeb` project as described below and then follow the steps described in the *BEA Sample Workshop Mobility Project Guide* to mobilize it.

1. Right-click the newly created “MobilityApp” application in the Application tree window.

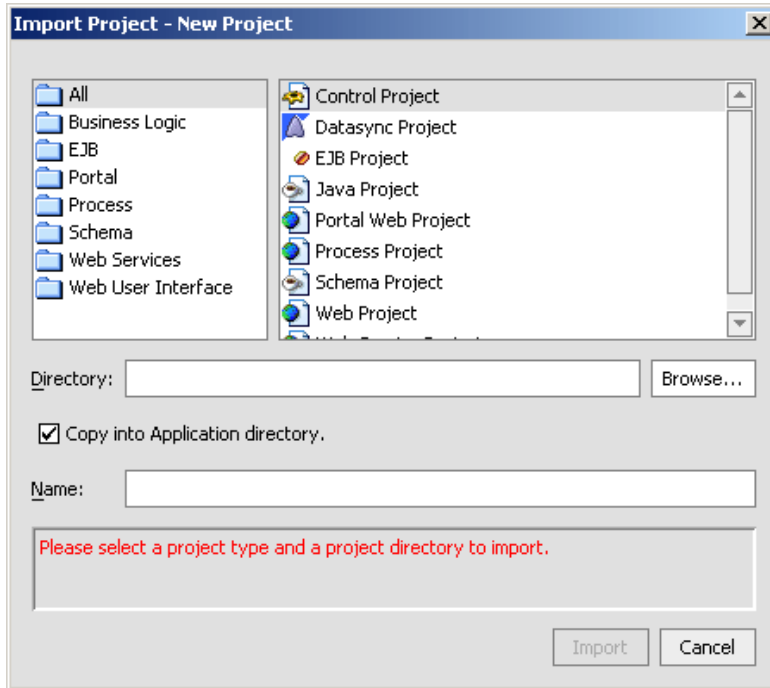
Import Project



2. Choose **Import Project**.

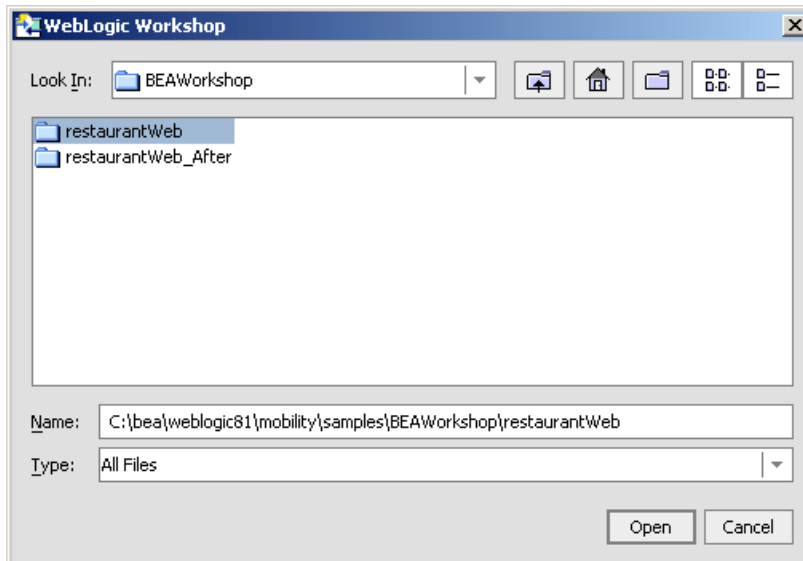
3. The “Import Project – New Project” dialog is displayed.

Import New Project



4. Click **Browse** next to the **Directory:** field and browse to the “<WLMS_install_directory>\samples\BEAWorkshop\” directory.

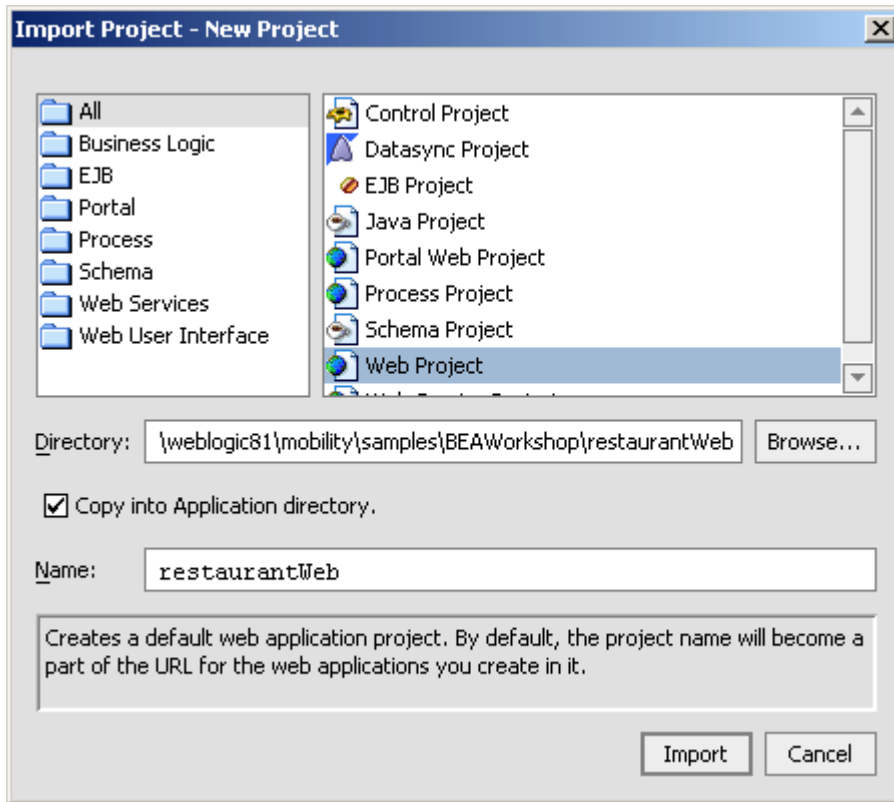
Locate restaurantWeb



5. Select “restaurantWeb” and click **Open**.

6. Back on the “Import Project - New Project” dialog, the Directory will now be filled in, with a default Name for the application set to “restaurantWeb”.

Import restaurantWeb project



7. Select **Web Project** from the right hand pane.
8. Ensure that the **Copy into Application Directory** check box is selected.
9. Click **Import**.

You can also choose to import the `restaurantWeb_After` project to see the final version. The *BEA Sample Workshop Mobility Project Guide* document explains the steps to mobilize the `restaurantWeb` project to reach the same results as in the `restaurantWeb_After` project.

Note: You can import the “restaurantWeb_After” project at the same time as the “restaurantWeb” project, or afterwards, but you **MUST** import the “restaurantWeb” project.

Create the Portal Domain and Create the Sample Mobility Portal Project

Introduction

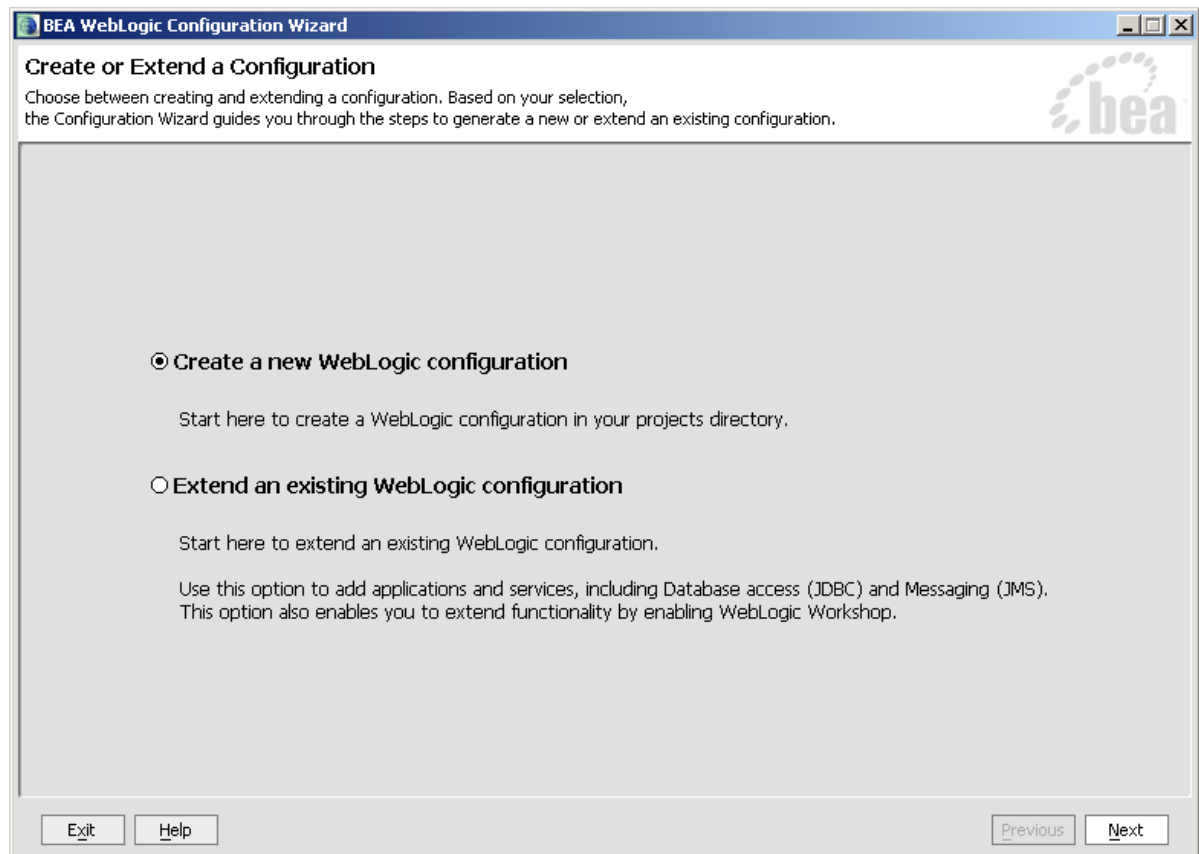
This section describes creating a BEA Portal Domain, creating a new application, and then creating a Sample Mobility Portal Project in the newly created domain using the supplied template.

Create the MobilityPortal Domain

To create the MobilityPortal Domain:

1. Launch the BEA WebLogic Configuration wizard from the Windows Start menu. Choose **Start → Programs → <BEA install directory> → Configuration Wizard**. If you have BEA Workshop open, you can also launch it from the tools menu; choose **Tools → WebLogic Server → Configuration Wizard**.
2. The “Create or Extend a Configuration” dialog is displayed.

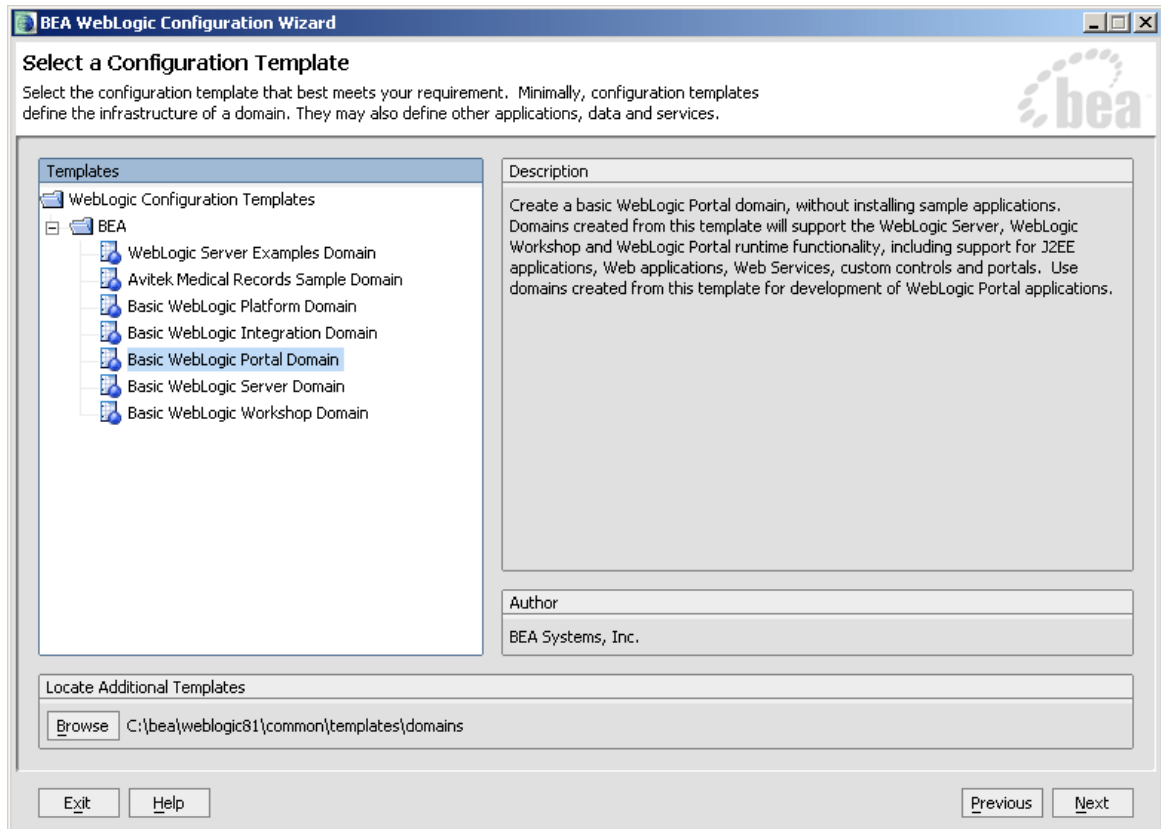
Configuration Wizard – Create a new WebLogic Configuration



3. Select **Create a new WebLogic configuration** and click **Next**.

4. The “Select a Configuration Template” dialog is displayed.

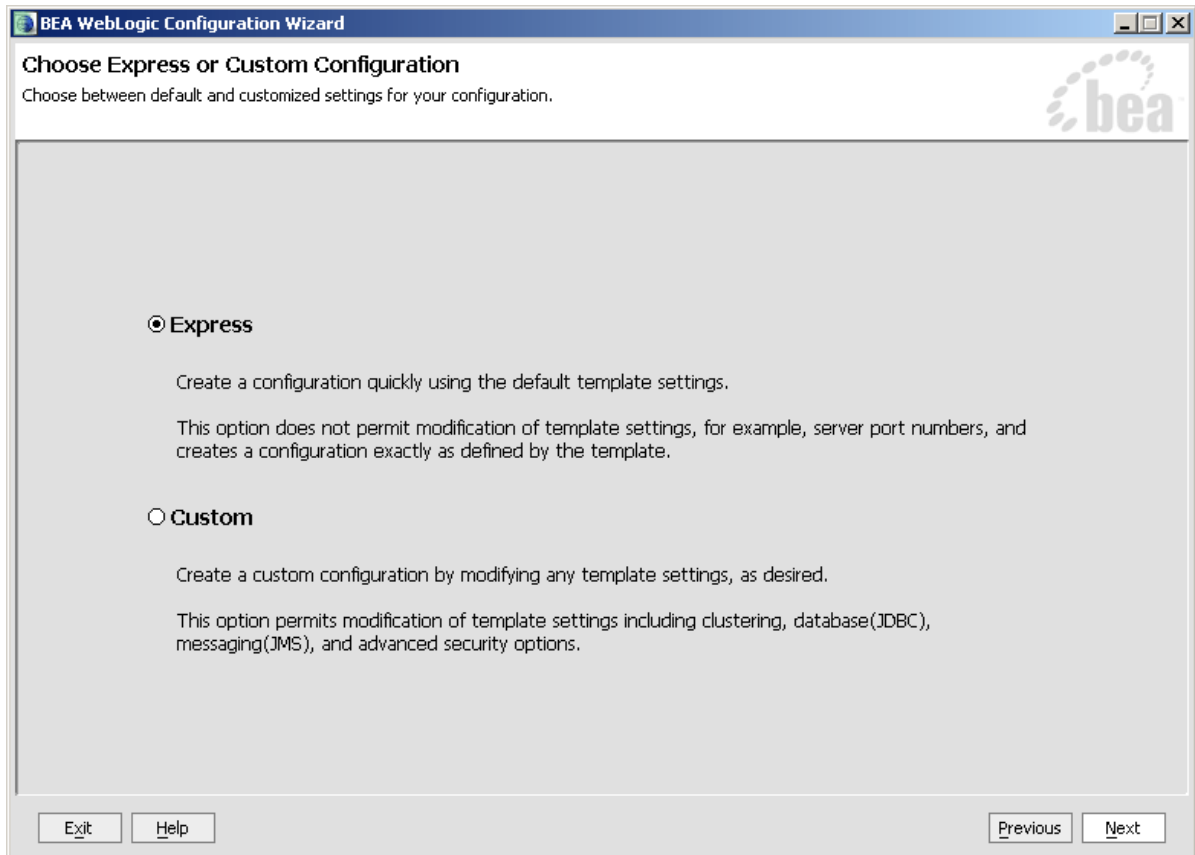
Configuration Wizard – Basic WebLogic Portal Domain



5. **IMPORTANT:** Ensure that you select **Basic WebLogic Portal Domain** and click **Next**.

6. The “Choose Express or Custom Configuration” dialog is displayed.

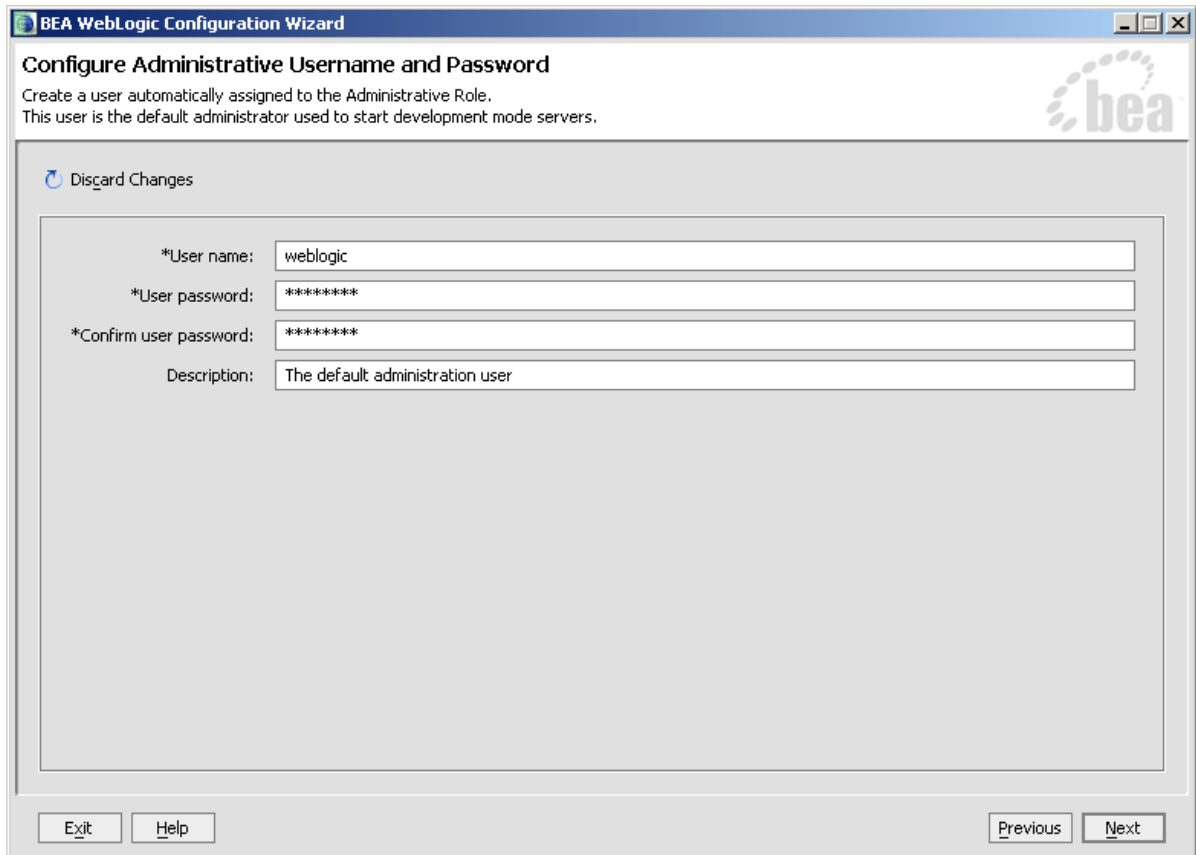
Configuration Wizard – Express Configuration



7. Select **Express** and click **Next**.

8. The “Configure Administrative Username and Password” dialog is displayed.

Configuration Wizard – User Name and Password



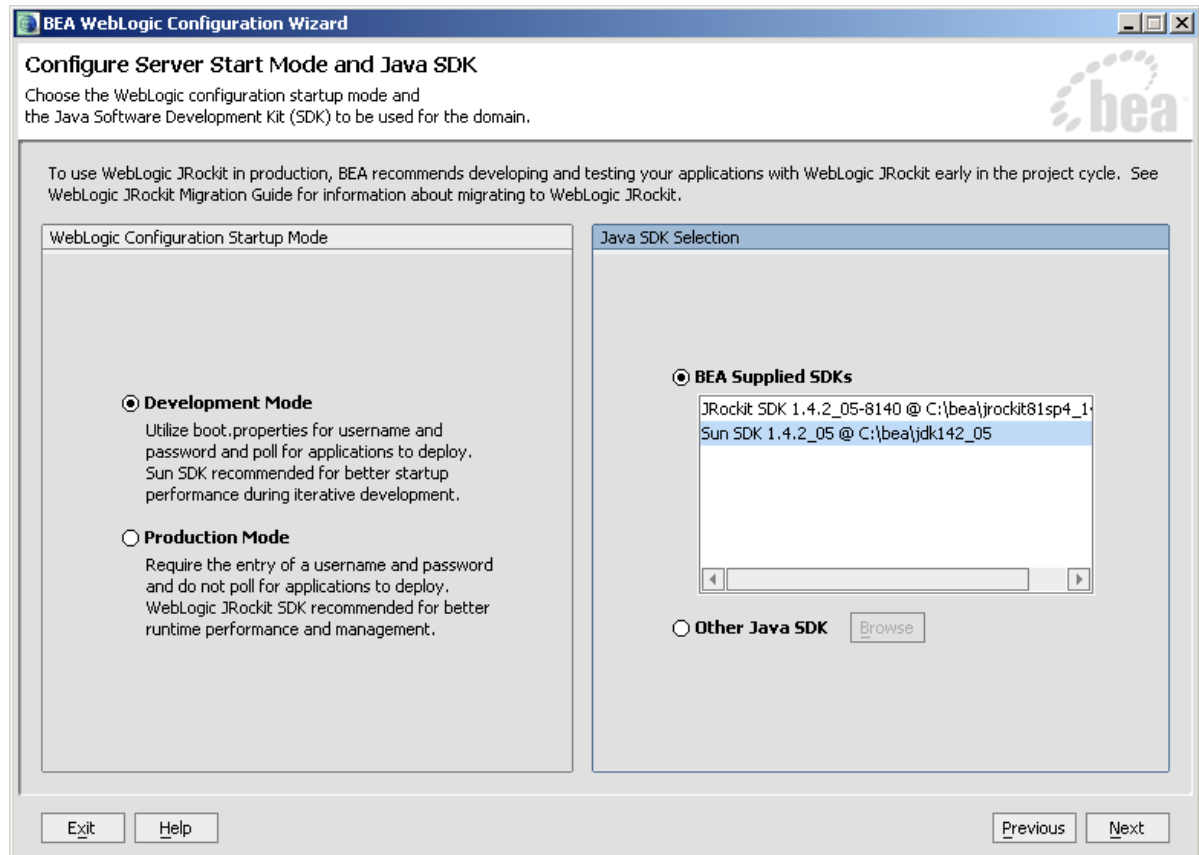
The screenshot shows a window titled "BEA WebLogic Configuration Wizard" with the following content:

- Configure Administrative Username and Password**
- Instructions: "Create a user automatically assigned to the Administrative Role. This user is the default administrator used to start development mode servers." The BEA logo is visible in the top right corner.
- A "Discard Changes" button with a circular arrow icon.
- Four input fields:
 - *User name:
 - *User password:
 - *Confirm user password:
 - Description:
- Buttons at the bottom: "Exit", "Help", "Previous", and "Next".

9. Enter “*weblogic*” for the username and “*weblogic*” for the password and click **Next**.

10. The “Configure Server Start Mode and Java SDK” dialog is displayed.

Configuration Wizard – Start Mode

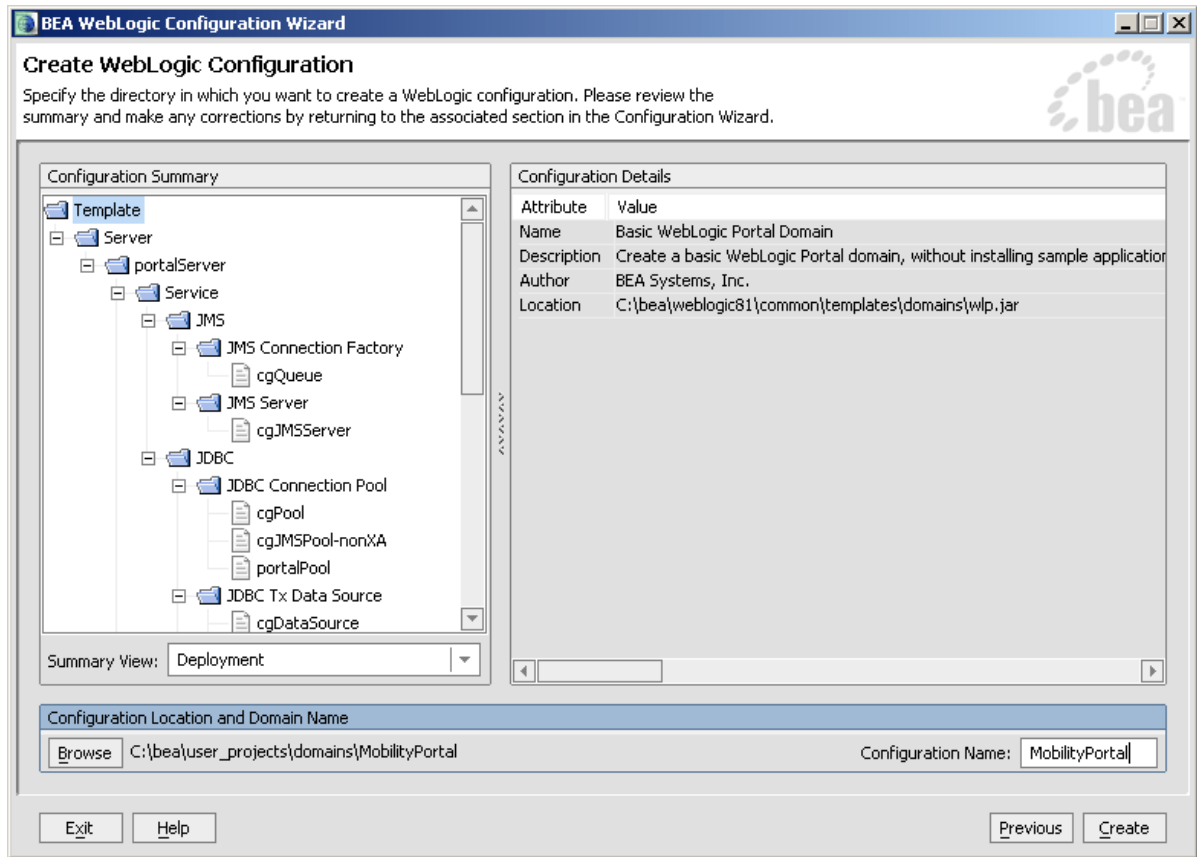


11. Select **Development Mode** within the **WebLogic Configuration Startup Mode** section.

12. Select the **Sun JDK** within the **Java SDK Selection** section and click **Next**.

13. The “Create WebLogic Configuration” dialog is displayed.

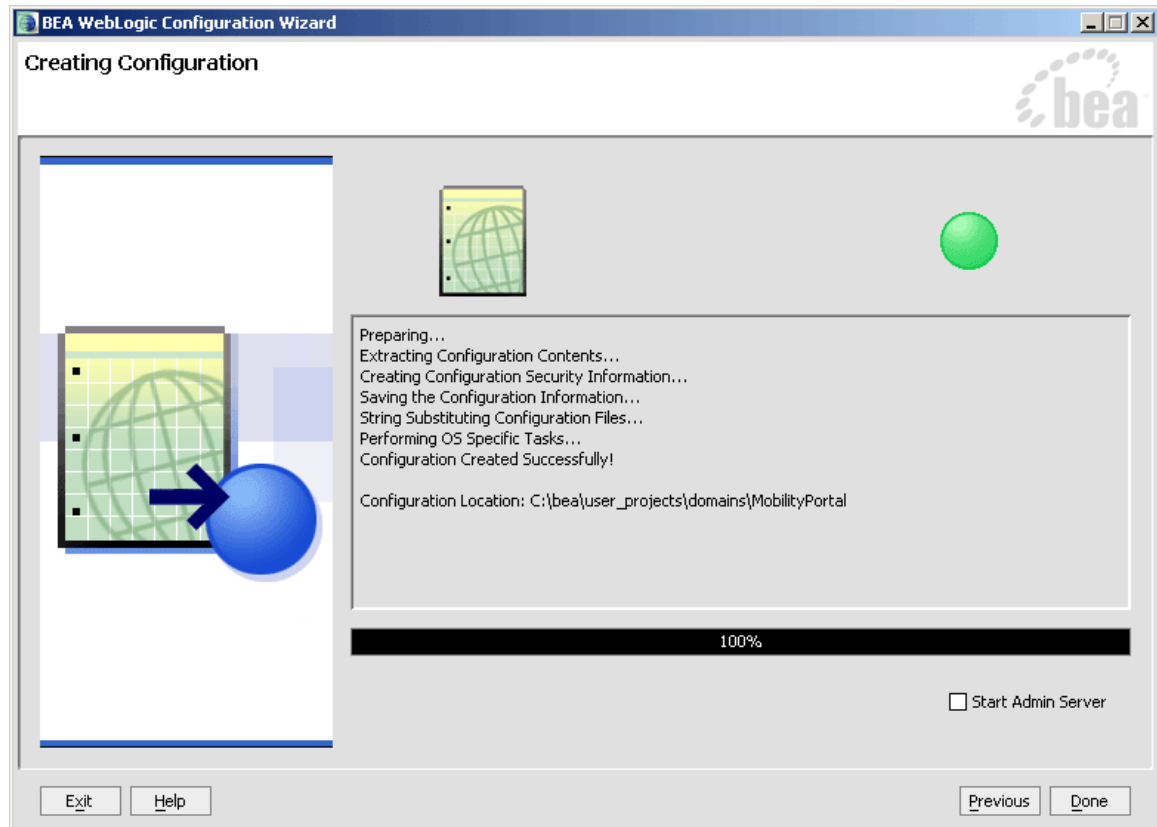
Configuration Wizard – Mobility Portal



14. Set the **Configuration Name** to “MobilityPortal” and click **Create**.

15. The configuration wizard will now create the domain.

Configuration Wizard – Creating MobilityPortal Configuration



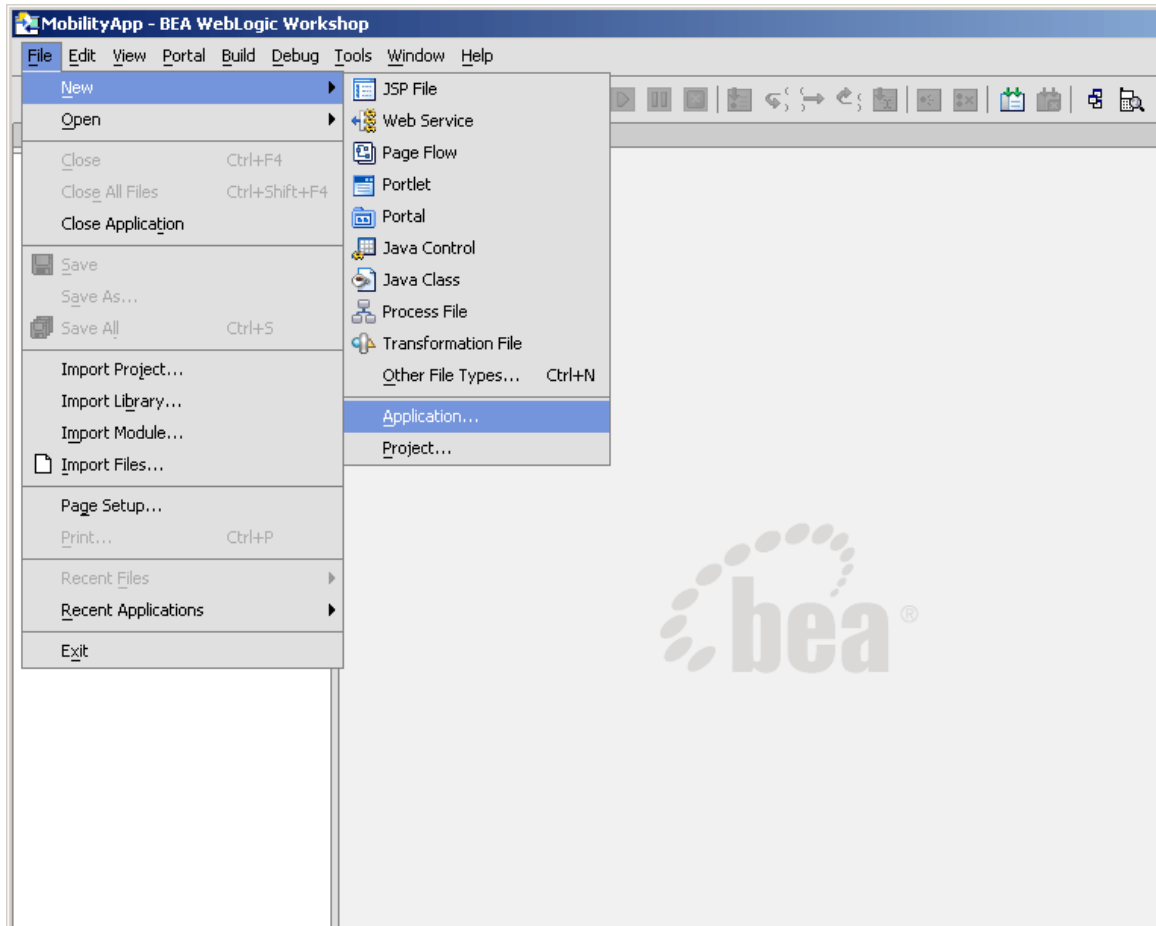
16. When it completes, click **Done** on the Creating Configuration screen.

Create the MobilityPortalApp Application

To create the MobilityPortalApp application:

1. To create a new application in Workshop, choose **File → New → Application**
2. The New Application dialog is displayed.

Create New Application

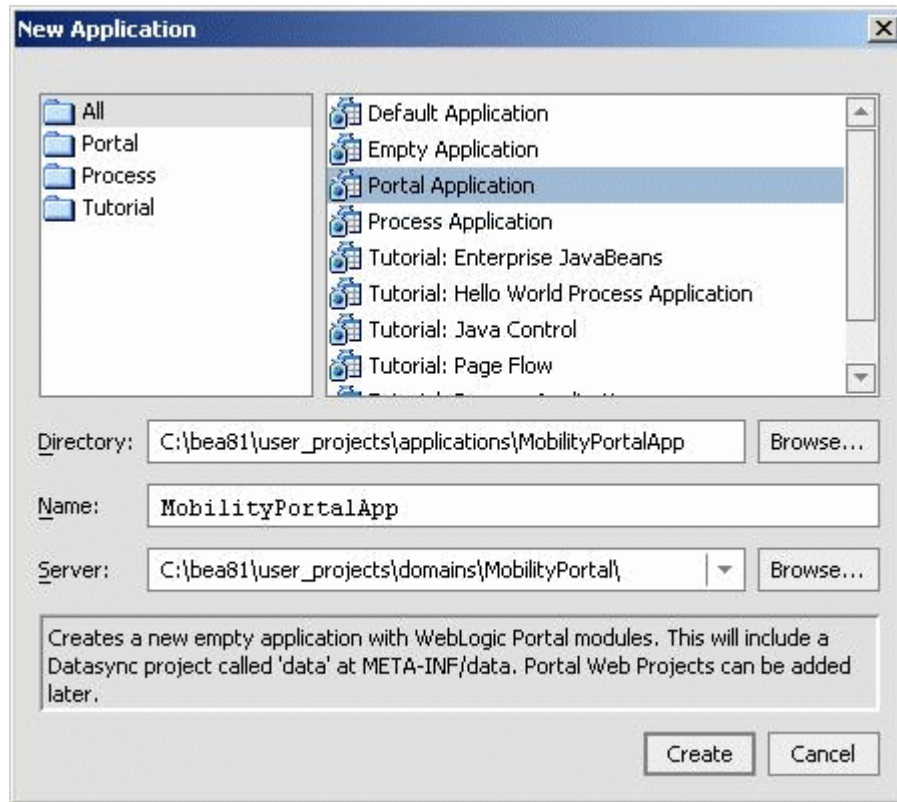


3. From the New Application window:

- Select Portal Application.
Note: Do not select **Default Application** as per earlier.
- Click **Browse** next to the **Directory** field and browse the Domains directory, selecting your newly created “MobilityPortal” domain.
- Enter “MobilityPortalApp” in the **Name** field – this is the application where you will import the sample mobility portal application.
- Click **Browse** next to the **Server** field and select the *config.xml* file inside the newly created “MobilityPortal” domain.

4. Once you have filled in the fields as above, click **Create** and the application will be created.

Create Portal Application Dialog



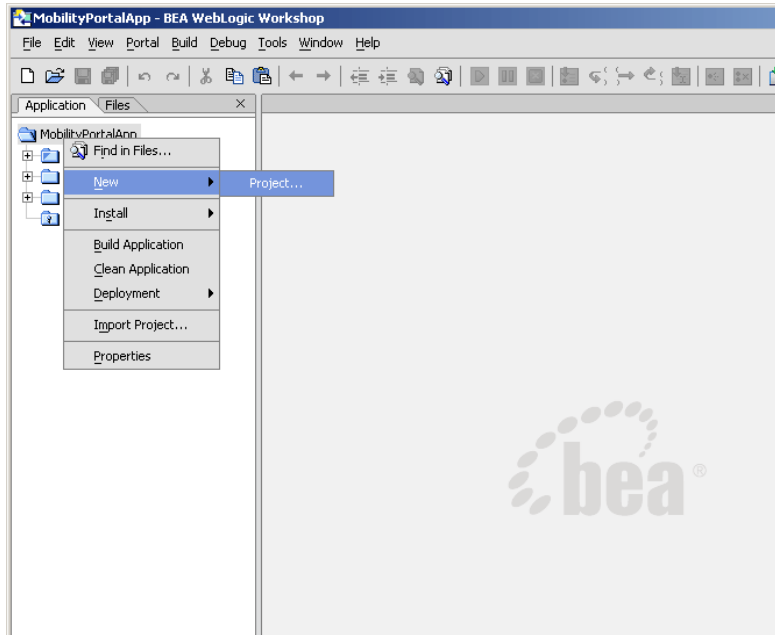
Now that you have created a new Domain and a new Portal Application, you can import the sample Workshop mobility portal project.

Create the Sample Workshop Mobility Portal Project

When WebLogic Mobility Server was installed, a Sample Mobile Portal Project template was created. Create the sample Workshop mobility portal project using this template as described below and then refer to the *BEA Sample Mobility Portal Guide* for an explanation of the features of the sample portal.

1. Right click the newly created “MobilePortalApp” application in the Application tree window.

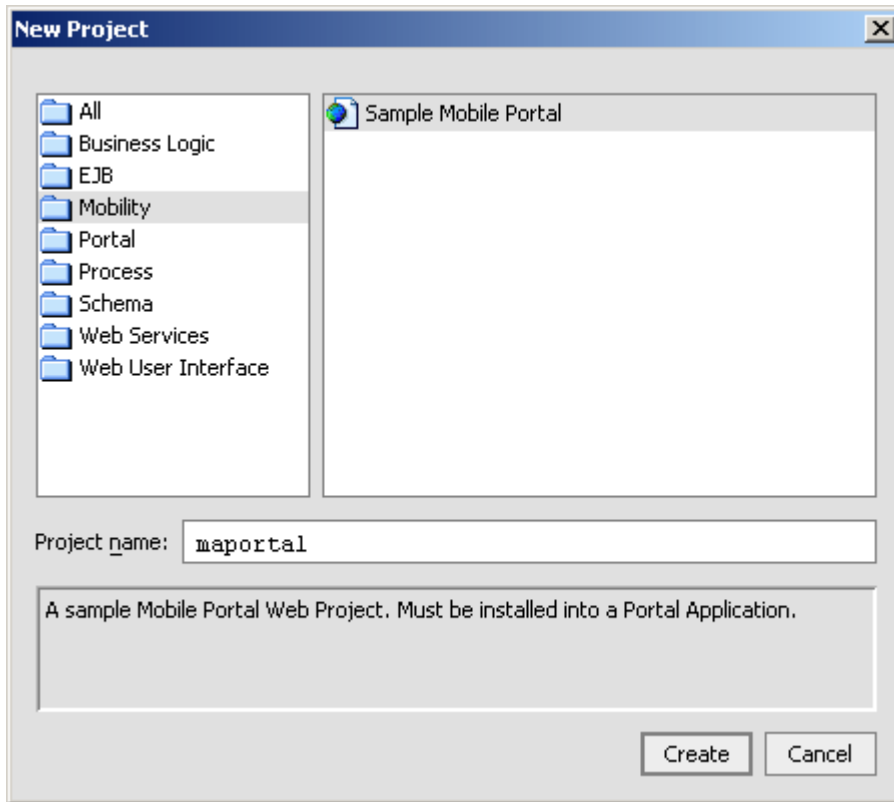
New Portal Project



2. Choose **New** → **Project**.

3. The “New Project” dialog is displayed.

Create New Project



4. Select “Mobility” and “Sample Mobile Portal”.
5. Enter “maportal” in the **Project Name** field.
6. Click **Create**.

The *BEA Sample Mobility Portal Guide* document explains the features of the “maportal” sample project.

Next Steps

Install the Device Repository

If you want to deploy the Device Repository at a different location, you will need to update the *mis.properties* file to reflect the new Device Repository connection details—see chapter 2 of the *Device Repository Guide* for more information. If you wish to deploy the Device Repository into a database, you will also need to run the Device Repository Manager tool. See chapter 1 of the *Device Repository Guide* for instructions on how to do so.

Additional Steps

Configuration of a WebLogic Mobility Server-Enabled Web Application

Please see the *BEA WebLogic Mobility Server Administration Guide* for details on:

- Creating the deployment environment for a mobilized web application
- Configuring the Mobility servlet filter
- Configuring the web application's Web Deployment Descriptor (*web.xml* file) for the Mobility servlet filter

Mobilize Your Own Applications

Once you have installed and configured WebLogic Mobility Server and the Device Repository, you are almost ready to begin mobilizing your own web applications and portal projects.

If you installed WebLogic Mobility Server with the Mobility Extension for BEA Workshop, it is recommended that you go through the *BEA Mobilize Your Portal Guide* and the *BEA Sample Mobility Portal Guide* after using this guide. The *BEA Mobilize Your Portal Guide* explains how to mobilize a portal and the *BEA Sample Mobility Portal Guide* illustrates the features of a mobilized BEA Portal Framework.

If you installed WebLogic Mobility Server with the Mobility Extension for BEA WebLogic Workshop version 8.1, you should have subsequently imported the Sample Workshop Project (“restaurantWeb”) provided with the product. For a step-by-step exercise in mobilizing the sample workshop application, see the *BEA Sample Workshop Mobility Project Guide*

Additionally, see the “Working with Diagnostics” section of the *BEA WebLogic Mobility Server User Guide* for information on configuring and using the Diagnostics tools.

Note: Documentation can be accessed from the BEA website.

Appendices

Appendix A: Update the WebLogic Mobility Server Install Location with BEA WebLogic Workshop

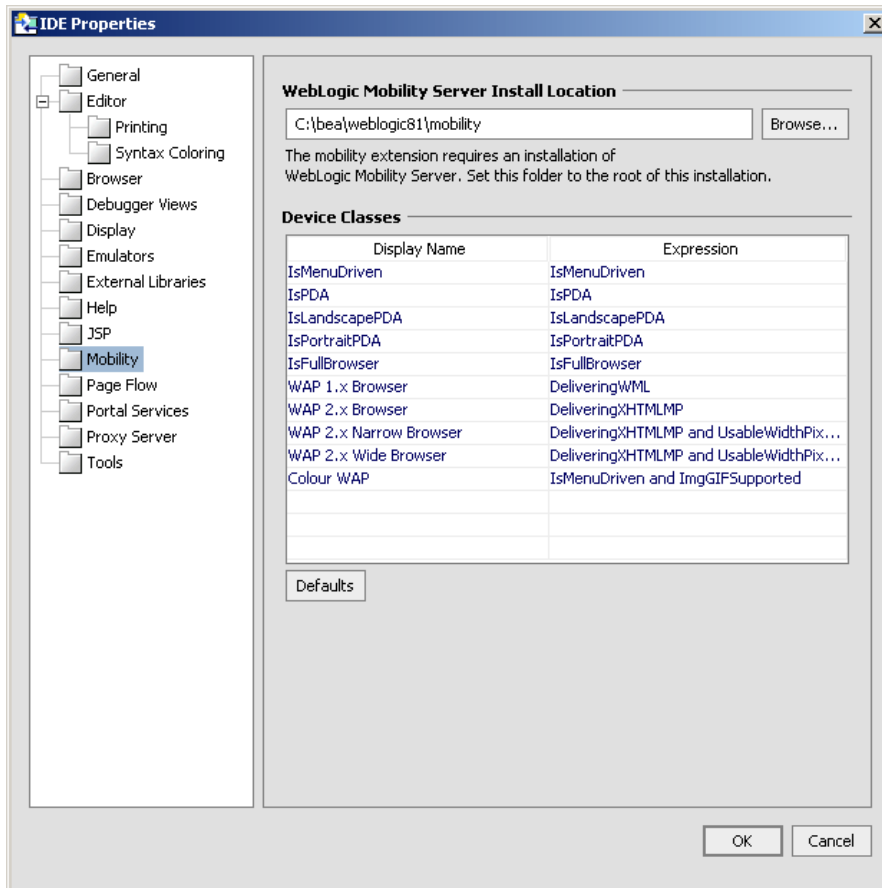
If you had been using an old WebLogic Mobility Server installation with the Mobility Extension for BEA Workshop, and install a new version of WebLogic Mobility Server with Mobility Extension in a new location (on a BEA WebLogic 8.1 or 9.X platform), when you first start BEA Workshop you will need to configure which installation to use.

Note: In BEA WebLogic Workshop 8.1, a warning will be displayed when you first start Workshop informing you that a new WebLogic Mobility Server been installed, and that you should click **OK** to configure which installation to use. Clicking **OK** will launch the “IDE Properties” dialog

In the “IDE Properties” dialog (8.1) or Windows “Preferences” panel (9.X) the default **WebLogic Mobility Server Install Location** setting points to the old location—click **Browse** and specify the new install location.

Note: If you re-installed WebLogic Mobility Server with the Mobility Extension for BEA Workshop over an old location, WebLogic will automatically pick up the new files, etc. without any user input.

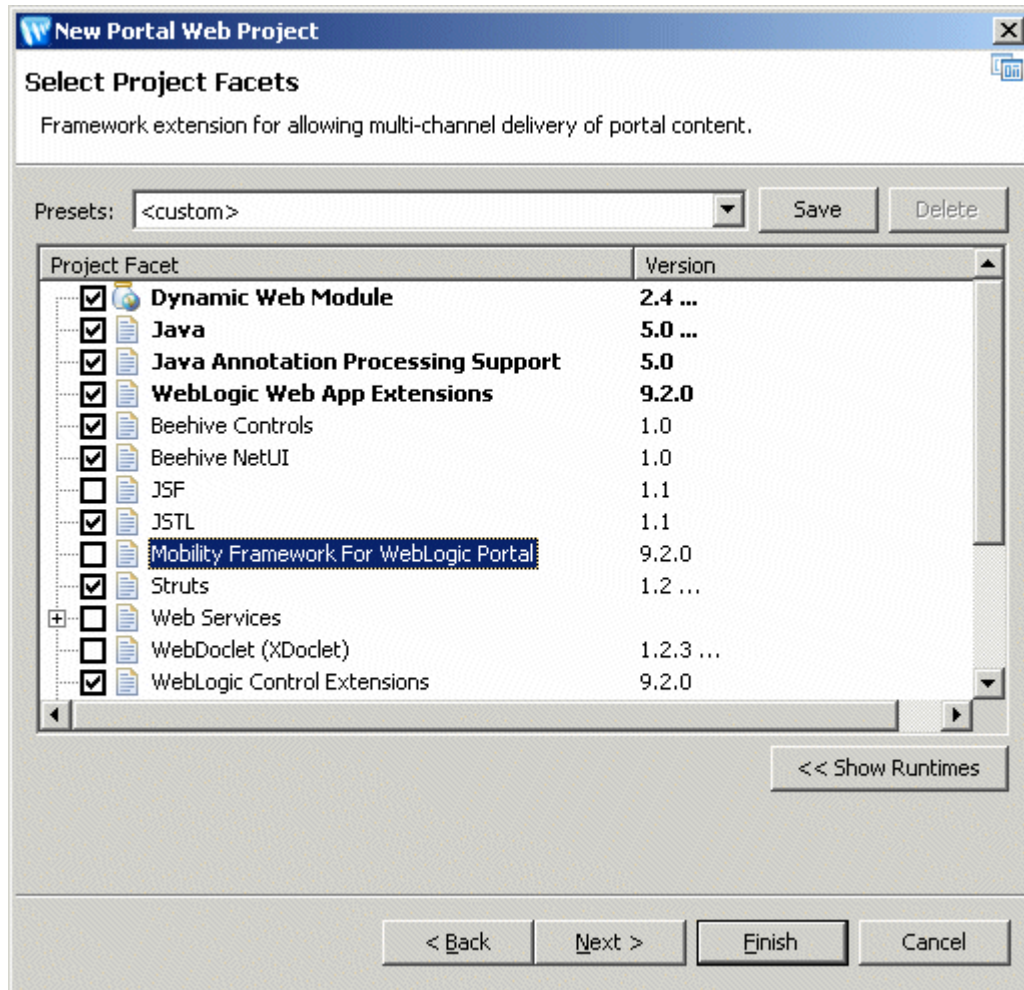
Sample Workshop 8.1 WebLogic Mobility Server Location



Appendix B: Mobility Framework for WebLogic Portal 9.2

The Select Project Facets panel is displayed when you create new BEA WebLogic Portal portal web projects, dynamic web projects or EAR projects.

Select the **Mobility Framework for WebLogic Portal** to insert the Mobility Framework into your portal project....



Note: You can add facets when creating the projects, or you can return and add them in at a later stage.

Deploying WebLogic Mobility Server as an EAR file in BEA WebLogic 9.2 Portal

If you select the Mobility Framework for WebLogic Portal facet when creating an EAR file and attempt to deploy this file on another WebLogic 9.2 instance, you will receive an error unless you perform the following step:

Necessary step: Deploy the `portal/lib/modules/wlp-mobility-web-lib.war` file as a library onto the new server using the WLS Admin Console. This deployment adds an entry to the server's `config.xml` file and resolves the issue.