BEA WebLogic Adapter for PeopleSoft® 8

Installation and Configuration Guide

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About This Document

This document explains how to install and configure the BEA WebLogic Adapter for PeopleSoft 8.

This document is organized as follows:

- Chapter 1, "Installing the BEA WebLogic Adapter for PeopleSoft 8," explains how to install the adapter.
- Chapter 2, "Installing the Component Interfaces," explains how to install and configure the PeopleSoft component interfaces.
- Chapter 3, "Installing and Configuring the BEA TCP/IP Message Router," explains how to install and configure the BEA TCP/IP Message Router to enable PeopleSoft events.

Who Should Read This Documentation

This document is intended for the following members of an integration team:

- Integration Specialists—Lead the integration design effort. Integration specialists have expertise in defining the business and technical requirements of integration projects, and in designing integration solutions that implement specific features of WebLogic Integration. The skills of integration specialists include business and technical analysis, architecture design, project management, and WebLogic Integration product knowledge.
- Technical Analysts—Provide expertise in an organization's information technology infrastructure, including telecommunications, operating systems, applications, data repositories, future technologies, and IT organizations. The skills of technical analysts include technical analysis, application design, and information systems knowledge.

- Enterprise Information System (EIS) Specialists—Provide domain expertise in the systems that are being integrated using WebLogic adapters. The skills of EIS specialists include technical analysis and application integration design.
- System Administrators—Provide in-depth technical and operational knowledge about databases and applications deployed in an organization. The skills of system administrators include capacity and load analysis, performance analysis and tuning, deployment topologies, and support planning.

Background Knowledge

This document assumes that you have an understanding of:

- Web technologies
- WebLogic Integration
- PeopleSoft software, system, and environment. This includes understanding of PeopleSoft tools and configuration as well as processes and data models.
- Your specific PeopleSoft business needs and applications.

Additional Information

To learn more about the software components associated with the adapter, see the following documents:

- *BEA WebLogic Adapter for PeopleSoft 8 Release Notes*

  `http://edocs.bea.com/wladapters/peoplesoft/docs81/pdf/relnotes.pdf`
- *BEA WebLogic Adapter for PeopleSoft 8 Installation and Configuration Guide*

  `http://edocs.bea.com/wladapters/peoplesoft/docs81/pdf/install.pdf`
- *BEA Application Explorer Installation and Configuration Guide*

  `http://edocs.bea.com/wladapters/bae/docs81/index.html`
- *Introduction to the BEA WebLogic Adapters*

  `http://edocs.bea.com/wladapters/docs81/index.html`
- BEA WebLogic Adapters 8.1.0 Dev2Dev Product Documentation

http://dev2dev.bea.com/products/product.jsp?highlight=wla

- Application Integration documentation

  Introducing Application Integration

  http://edocs.bea.com/wli/docs81/aiover/index.html

  Using the Application Integration Design Console

  http://edocs.bea.com/wli/docs81/aiuser/index.html

- BEA WebLogic Integration documentation

  http://edocs.bea.com/wli/docs81/index.html

- BEA WebLogic Platform documentation

  http://edocs.bea.com/platform/docs81/index.html

- PeopleSoft documentation

  www.peoplesoft.com

Contact Us!

Your feedback on the BEA WebLogic Adapter for PeopleSoft 8 documentation is important to us. Send us e-mail at **docsupport@bea.com** if you have questions or comments. Your comments will be reviewed directly by the BEA professionals who create and update the BEA WebLogic Adapter for PeopleSoft 8 documentation.

In your e-mail message, please indicate that you are using the documentation for BEA WebLogic Adapter for PeopleSoft 8 and the version of the documentation.

If you have any questions about this version of BEA WebLogic Adapter for PeopleSoft 8, or if you have problems using the BEA WebLogic Adapter for PeopleSoft 8, contact BEA Customer Support through BEA WebSUPPORT at **www.bea.com**. You can also contact Customer Support by using the contact information provided on the Customer Support Card which is included in the product package.

When contacting Customer Support, be prepared to provide the following information:

- Your name, e-mail address, phone number, and fax number
- Your company name and company address
- Your machine type and authorization codes
- The name and version of the product you are using

- A description of the problem and the content of pertinent error messages

CHAPTER 1

Installing the BEA WebLogic Adapter for PeopleSoft 8

This section explains how to install the BEA WebLogic Adapter for PeopleSoft 8 with WebLogic Integration on both Windows and UNIX systems.

This section is organized as follows:

Preparing to Install the Adapter

Before you install the BEA WebLogic Adapter for PeopleSoft 8, be sure to complete the following tasks:

- Review the Release Notes
- Understanding the Representation of Paths

Review the Release Notes

The *BEA WebLogic Adapter for PeopleSoft 8 Release Notes* contain important information about the software you must install prior to installing the BEA WebLogic Adapter for PeopleSoft 8. Also, be sure to check the release notes for information about any required patches for your system. The *BEA WebLogic Adapter for PeopleSoft 8 Release Notes* are available at the following URL:

`http://edocs.bea.com/wladapters/docs81/pdf/relnotes.pdf`

Understanding the Representation of Paths

When you install WebLogic Integration, you specify the locations for files. Some of these files are required by the adapter. This document uses the following conventions to represent the locations of these files.

- *`BEA_HOME`* represents the BEA Home directory of your WebLogic installation. For example:
  - If you install the product in the default location on a Windows system, *`BEA_HOME`* represents `c:\bea`.
  - If you install the product in the default location on a UNIX system, *`BEA_HOME`* represents `/bea`.
- *`WLI_HOME`* represents the root of your WebLogic Integration installation. For example:
  - If you install WebLogic Integration in the default location on a Windows system, *`WLI_HOME`* represents `c:\bea\weblogic81\integration`.
  - If you install WebLogic Integration in the default location on a UNIX system, *`WLI_HOME`* represents `/bea/weblogic81/integration`.
- *`domain`* is used to indicate the name of a domain.

You use the Configuration Wizard to create custom user domains. When you set up the domain configuration with the Configuration Wizard, you must specify a domain name, *domain*. You must also indicate where the directory associated with this domain is created. This directory contains files required for that domain. To learn more about the Configuration Wizard, see *Creating WebLogic Configurations Using the Configuration Wizard* which is available at the following URL:

http://edocs.bea.com/platform/docs81/confgwiz/index.html

- *DOMAIN_HOME* represents the complete path to the root of a domain.

  For example, if you use the Configuration Wizard to create a domain in the default location on a Windows system, *DOMAIN_HOME* represents `c:\bea\weblogic81\user_projects\domains\`*domain*.

  If you use the Configuration Wizard to create a domain in the default location on a UNIX system, *DOMAIN_HOME* represents `/bea/weblogic81/user_projects/domains/`*domain*.

Note: *WLI_HOME* and *BEA_HOME* (italicized) also represent the corresponding Windows and UNIX environment variables. For example, the literal interpretation of *WLI_HOME* is `%WLI_HOME%` for Windows and `$WLI_HOME` for UNIX.

Installing the Adapter

This section explains how to install the BEA WebLogic Adapter for PeopleSoft 8 with WebLogic Integration. It includes the following steps:

Step 1. Obtain the BEA WebLogic Adapter for PeopleSoft 8

To obtain the EAR file containing the BEA WebLogic Adapter for PeopleSoft 8 software (`BEA_PEOPLESOFT_8_1.ear`), do one of the following:

- Download the file from the following URL:

http://commerce.bea.com/products/weblogicadapters/wl_adapter_home.jsp

- Obtain the software on CD.

Step 2. Configure the Domain

You must deploy the BEA WebLogic Adapter for PeopleSoft 8 in a domain that supports application integration functionality. You can create one of your own, or use the sample integration domain. The sample integration domain is:

- On Windows: *BEA_HOME*\weblogic81\samples\domains\integration
- On UNIX: *BEA_HOME*/weblogic81/samples/domains/integration

If you have not already done so, use the Configuration Wizard to create the domain. Select the Integration domain template.

To learn more about the Configuration Wizard, see the *Creating WebLogic Configurations Using the Configuration Wizard* at the following URL:

http://edocs.bea.com/platform/docs81/confgwiz/index.html

Step 3. Extract the Adapter Files and Change the WebLogic Script

This section explains how to extract the BEA WebLogic Adapter for PeopleSoft 8 jar file and edit your WebLogic script to add files to the CLASSPATH and adjust the PATH.

Note: For WebLogic Integration 8.1 SP2, the script file you edit is `setDomainEnv.cmd` or `setDomainEnv.sh`. For versions of WebLogic Integration, earlier than 8.1 SP2, the file name is `startWeblogic.cmd` or `startWebLogic.sh`.

Set the classpath using the procedure appropriate for your system:

- Extracting Files and Adjusting the Classpath for Windows
- Extracting Files and Adjusting the Classpath for UNIX

Extracting Files and Adjusting the Classpath for Windows

To extract the BEA WebLogic Adapter for PeopleSoft 8 files and edit the WebLogic script:

1. Use WinZip (or another similar extracting product) to extract the `BEA_PEOPLESOFT_8_1.ear` file to a directory of your choice (for example, *BEA_HOME*\adapters\peoplesoft).

2. Find the PeopleSoft Java Object Adapter jar file `psjoa.jar` in your `PS_HOME` directory. Both the adapter and the BEA Application Explorer need this file to work with PeopleSoft. Copy this file to the directory where you extracted the adapter ear file. If you have the BEA Application Explorer installed, copy this file also to the BEA Application Explorer `\lib` directory.

   Note: The PeopleSoft Java Object Adapter jar file is specific to your release of PeopleSoft. As part of any upgrade of your PeopleSoft release, you must also upgrade the file used by the adapter and the BEA Application Explorer. To do this, shut down WebLogic Server, copy the new `psjoa.jar` file into the directory that contains the adapter ear file, and also to the BEA Application Explorer `\lib` directory, and start WebLogic Server up again.

3. If you are using PeopleSoft 8.1x, you also need the `pstools.properties` file. You can find this file in your `PS_HOME` directory. Copy the `pstools.properties` file to the directory that contains the adapter ear file. If you have the BEA Application Explorer installed, copy this file to the BEA Application Explorer `\lib` directory.

4. Go to the root directory for your domain:

   ```
   cd DOMAIN_HOME
   ```

   Note: You must choose a domain that supports application integration functionality.

5. Open the WebLogic script file with an ASCII editor. For WebLogic Integration 8.1 SP2, the file is `setDomainEnv.cmd`. For earlier versions of WebLogic Integration, the file is `startWebLogic.cmd`.

6. Find the following command in the script file:

   ```
   set CLASSPATH=%ARDIR%\ant\ant.jar;%JAVA_HOME%\jre\lib\rt.jar
   ```

7. Immediately *after* this command line, insert the following lines so that the `CLASSPATH` and `PATH` point to the adapter files:

   ```
   rem ==== PeopleSoft Java Libraries and DLLs (for JNI calls) ====
   set CLASSPATH=%CLASSPATH%;BEA_HOME\adapters\peoplesoft\psjoa.jar
   set CLASSPATH=%CLASSPATH%;BEA_HOME\adapters\peoplesoft\psclasses.jar
   ```

   Note: `psclasses.jar` is a file that you must generate. See the *BEA WebLogic Adapter for PeopleSoft 8 User Guide* for instructions on generating this file.

   In the following line, replace the *nn* with the number of your PeopleSoft release. For example, If you use PeopleSoft 8.1, the file name is `PS_BEA_CI81.jar`. If you use PeopleSoft 8.4, the file name is `PS_BEA_CI84.jar`.

   ```
   set CLASSPATH=%CLASSPATH%;BEA_HOME\adapters\peoplesoft\PS_BEA_CInn.jar
   ```

If you use PeopleSoft 8.1, add the directory containing the `pstools.properties` file to the classpath.

```
set CLASSPATH=%CLASSPATH%;BEA_HOME\adapters\peoplesoft
```

8. Place the component interface API files in the classpath. For information on compiling the PeopleSoft API Java programs, see the *BEA WebLogic Adapter for PeopleSoft 8 User Guide*.
9. Save your changes and close the script file.

Extracting Files and Adjusting the Classpath for UNIX

To extract the BEA WebLogic Adapter for PeopleSoft 8 files and edit the WebLogic script:

1. Use jar (or another similar extracting product) to extract `BEA_PEOPLESOFT_8_1.ear` to a directory of your choice (for example, *BEA_HOME*`/adapters/peoplesoft`).
2. Find the PeopleSoft Java Object Adapter jar file `psjoa.jar` in your `PS_HOME` directory. This file is part of your PeopleSoft distribution. Both the adapter and the BEA Application Explorer need this jar file to work with PeopleSoft. Copy this file to the directory where you extracted the adapter ear file. If you have the BEA Application Explorer installed, copy this file also to the BEA Application Explorer `/lib` directory (Windows).

   Note: The PeopleSoft Java Object Adapter jar file is specific to your release of PeopleSoft. As part of any upgrade of your PeopleSoft release, you must also upgrade the file used by the adapter and the BEA Application Explorer. To do this, shut down WebLogic Server, copy the new `psjoa.jar` file into the directory that contains the adapter ear file and also to the BEA Application Explorer `/lib` directory, and start WebLogic Server up again.
3. If you are using PeopleSoft 8.1x, you also need the `pstools.properties` file. You can find this file in your `PS_HOME` directory. Copy the `pstools.properties` file to the directory that contains the adapter ear file. If you have the BEA Application Explorer installed, copy this file also to the BEA Application Explorer `/lib` directory.
4. Find the `tools.jar` file in your JDK directory.
5. Go to the root directory for your domain:

   ```
   cd DOMAIN_HOME
   ```

   Note: You must choose a WebLogic Integration domain that supports application integration functionality.

6. Open the WebLogic script file with an editor. For WebLogic Integration 8.1 SP2, the file is `setDomainEnv.sh`. For earlier versions of WebLogic Integration, the file is `startWebLogic.sh`.
7. Find the `PRE_CLASSPATH` variable.
8. Add the path to the `tools.jar` file to the `PRE_CLASSPATH` variable.
9. Update the `CLASSPATH` environment variable settings in the script file.

   After the following line:

   ```
   CLASSPATH="${ARDIR}/ant/ant.jar:${JAVA_HOME}/jre/lib/rt.jar"
   ```

   add the following JAR files:

   ```
   CLASSPATH=$CLASSPATH:BEA_HOME/adapters/peoplesoft/psjoa.jar
   ```

   ```
   CLASSPATH=$CLASSPATH:BEA_HOME/adapters/peoplesoft/psclasses.jar
   ```

   Note: `psclasses.jar` is a file that you must generate. See the *BEA WebLogic Adapter for PeopleSoft 8 User Guide* for instructions on generating this file.

   In the following line, replace the *nn* with the number of your PeopleSoft release. For example, If you use PeopleSoft 8.1, the file name is `PS_BEA_CI81.jar`. If you use PeopleSoft 8.4, the file name is `PS_BEA_CI84.jar`.

   ```
   CLASSPATH=$CLASSPATH:BEA_HOME/adapters/peoplesoft/PS_BEA_CInn.jar
   ```

   If you use PeopleSoft 8.1, add the directory containing the `pstools.properties` file to the classpath.

   ```
   CLASSPATH=$CLASSPATH:BEA_HOME/adapters/peoplesoft
   ```

10. Place the component interface API files in the classpath. For information on compiling the PeopleSoft API Java programs, see the *BEA WebLogic Adapter for PeopleSoft 8 User Guide*.
11. Save your changes and close the script file.

Step 4. Update the BEA License

In order to use the BEA WebLogic Adapter for PeopleSoft 8 you must have a valid software license. If you have downloaded the adapter for evaluation, see the instructions on the adapter download page to obtain an evaluation license. If you have purchased a license for the adapter, you should receive the license file as an e-mail attachment. Once you have the license file for the adapter, you must update your `license.bea` file to include the new information for the adapter.

To update your `license.bea` file:

1. Save the adapter license file in the *`BEA_HOME`* directory. To avoid overwriting your `license.bea` file, use a name other than `license.bea`. For example, save the file as `peoplesoft_adapter_license.bea`. The adapter license file is the *`license_update_file`* referred to in step 4 of this procedure.

   Warning: Do not overwrite or change the name of the existing `license.bea` file.

2. Go to the *`BEA_HOME`* directory:
   - On a Windows system, open an MS-DOS session and go to the *`BEA_HOME`* directory.
   - On a UNIX system, go to the *`BEA_HOME`* directory.
3. Add the JDK to your `PATH` variable. If it is already included, skip to step 4.
   - On a Windows system:

     ```
     set PATH=BEA_HOME\jdk141_03\bin;%PATH%
     ```

   - On a UNIX system:

     ```
     PATH=BEA_HOME/jdk141_03/bin:$PATH
     export PATH
     ```

4. Merge the adapter license file into your existing license:
   - On a Windows system:

     ```
     UpdateLicense license_update_file
     ```

   - On a UNIX system:

     ```
     sh UpdateLicense.sh license_update_file
     ```

   Here, *`license_update_file`* is the name of the adapter license file you saved in step 1.
5. Save a backup copy of your updated `license.bea` file. This backup location should be a safe place that is neither the WebLogic Integration nor the application installation directories.

Step 5. Deploy the Adapter

After you have installed the BEA WebLogic Adapter for PeopleSoft 8, you must deploy it to your domain.

To deploy the adapter:

1. Start WebLogic Server in your domain.

2. Start the WebLogic Server Administration Console in a browser using the following URL:

   `http://host:port/console/`

   where

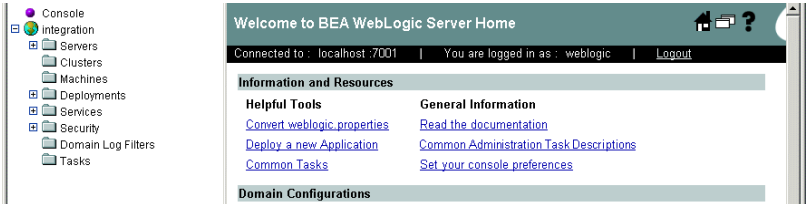
   – *host* represents the machine on which WebLogic Server is running

   – *port* represents the listening port.

   For example, `http://localhost:7001/console/`

3. Enter the user name and password for the server.

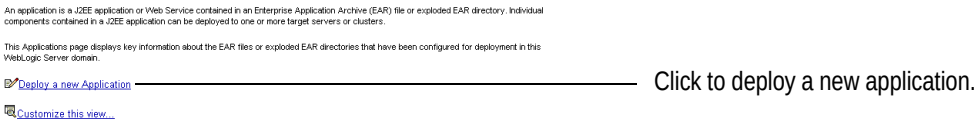
   The WebLogic Server Administration Console appears.



4. In the left pane, expand the Deployments node.

5. Under the Deployments node, click the Applications node.

   The Administration Console displays the Applications window.

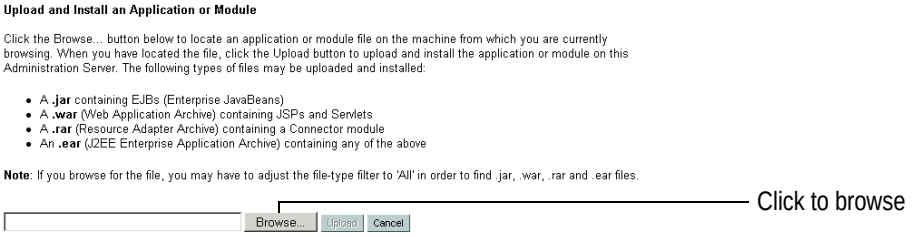


6. Click the Deploy a new Application link.

   The Administration Console displays the Deploy an Application window.

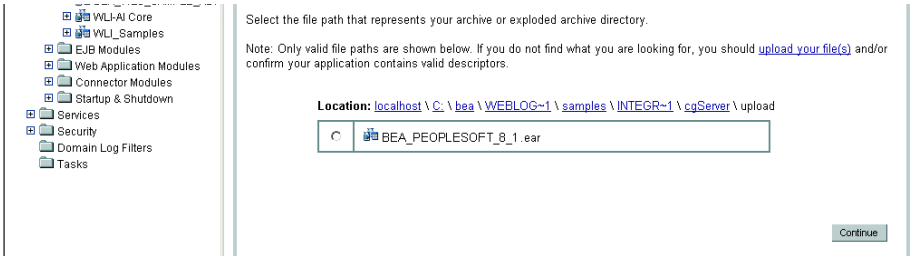
7. Click the upload your files(s) link.

   The Administration Console displays the Install or Update an Application window.



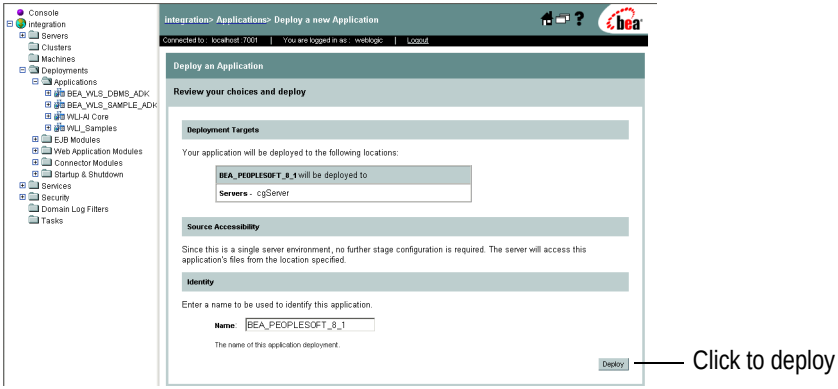
8. Click the Browse button, navigate to the directory in which the `BEA_PEOPLESOFT_8_1.ear` file resides, and then click the Upload button.

   The Administration Console prompts you to confirm the uploaded application.



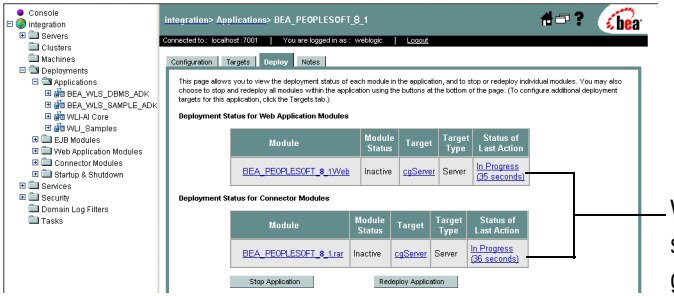
9. Click the radio button next to the application file and then click Continue.

   The Administration Console uploads the file and displays the Deploy an Application window (in which the default target server is specified).



10. Click the Deploy button.

    The Administration Console deploys the application and displays its deployment status.



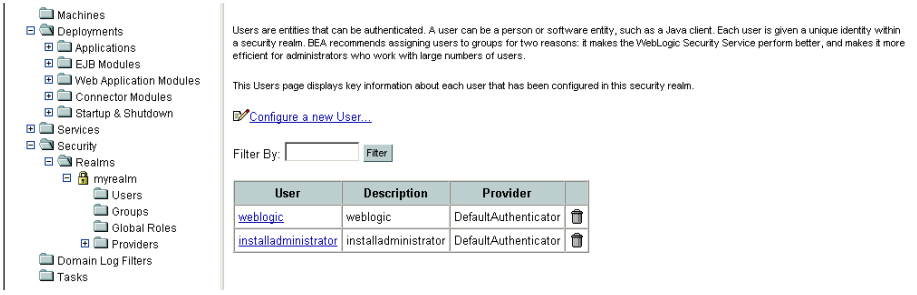
Step 6. Create an Adapter Administrative User

If you want to manage security for the BEA WebLogic Adapter for PeopleSoft 8, you can create an administrative user (such as `peoplesoftAdapterAdmin`) who is authorized to log in to the Application View Console, create application views, configure services and events, deploy, and test. This adapter administrator also needs to be added to the `Administrators` group.

To create a new adapter administrative user:

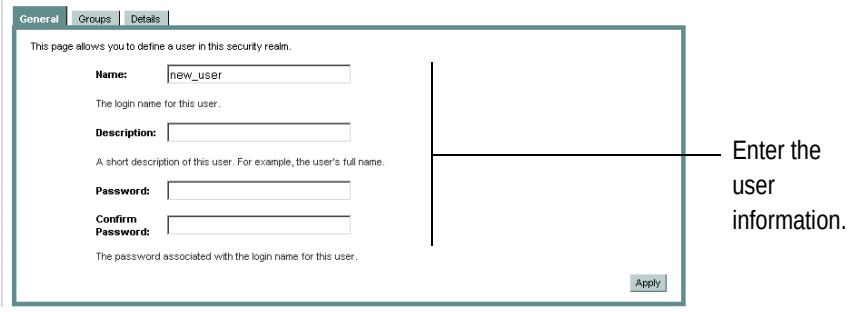
1. In the left pane of theWebLogic Server Administration Console, click the Security node.
2. In the left pane, click the Realms node.
3. In the left pane, click the name of the realm for which you want to configure security.
4. In the left pane, click Users.

   The Users page opens.



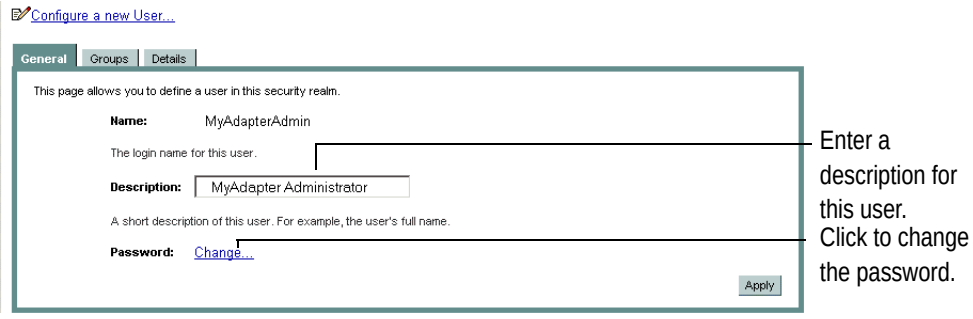
5. Click the Configure a New User link.

   The Create User page opens.



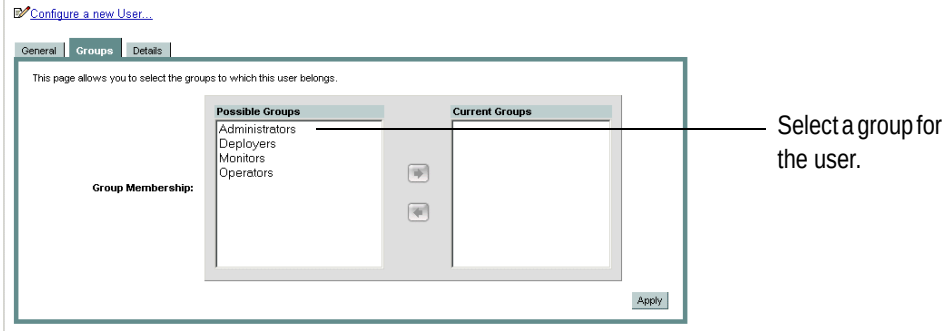
6. Enter the user name, description and password, and then click the Apply button.

   The User page opens.



7. Click the Groups tab.

   The Groups page opens.



8. In the Possible Groups list, select Administrators and then click the right arrow to add the Administrators group to the list of current groups.

9. Click the Apply button.
10. In the left pane, click the Users node and confirm that the user you created appears in the list of users.

Next Steps

After you have finished installing the BEA WebLogic Adapter for PeopleSoft 8, you can proceed to the following tasks:

- Installing the Component Interfaces
- Installing the BEA Application Explorer
- Starting Integration with PeopleSoft

Installing the BEA Application Explorer

To proceed, you must install the BEA Application Explorer. If you do not already have it installed, do so now. To learn more about installing the BEA Application Explorer, see the *BEA Application Explorer Installation and Configuration Guide* at the following URL:

`http://edocs.bea.com/wladapters/docs81/index.html`

Starting Integration with PeopleSoft

After you have successfully installed and deployed the BEA WebLogic Adapter for PeopleSoft 8 and the BEA Application Explorer, you can begin integrating with your PeopleSoft system using the adapter and BEA WebLogic Integration. To learn more about integrating with PeopleSoft, see the *BEA WebLogic Adapter for PeopleSoft 8 User Guide* at the following URL:

`http://edocs.bea.com/wladapters/docs81/index.html`

CHAPTER 2

Installing the Component Interfaces

The PeopleSoft component interfaces contain metadata that the BEA Application Explorer uses to generate schemas for the PeopleSoft services and events used by your application. The adapter distribution contains two such component interfaces. You must install these files to enable the BEA Application Explorer to properly generate schemas.

This section explains:

- Extracting and Importing the Component Interface Files
- Configuring Security for the Component Interfaces
- Testing the Component Interfaces

Extracting and Importing the Component Interface Files

This section explains how to extract and import the component interface files so that the BEA Application Explorer can use them.

To learn more about the BEA Application Explorer, see the *BEA Application Explorer Installation and Configuration Guide* at the following URL:

`http://e-docs.bea.com/wladapters/bae/docs81/pdf/install.pdf`

This section is organized as follows:

- Extracting the Component Interface Files
- Importing the Component Interface Files into PeopleSoft

Extracting the Component Interface Files

There are two component interface files included in the adapter distribution. The first step is to extract them from the adapter ear file, `BEA_PEOPLESOFT_8_1.ear`.

Extracting the Files on Window System

To extract the files on a Windows system:

1. Using WinZip, or another extraction utility, extract the project file from the adapter ear file:
   - For PeopleSoft.1x, the file is `BEA_CI_81.zip`
   - For PeopleSoft.4 and higher, the file is `BEA_CI_84.zip`

   Extract the project file to a directory of your choice.

   The extraction process creates a subdirectory with the same name as the project file. For example, if you extract the PeopleSoft.4 project file into the Windows directory `c:\adapters`, you will see this directory: `c:\adapters\BEA_CI_84`.

Extracting the Files on a UNIX System

To extract the files on a UNIX system:

1. Using jar or another extraction utility, extract the project file from the adapter ear file:
   - For PeopleSoft.1x, the file is `BEA_CI_81`
   - For PeopleSoft.4 and higher, the file is `BEA_CI_84`

   Extract the project file to a directory of your choice.

   The extraction process creates a subdirectory with the same name as the project file. For example, if you extract the PeopleSoft.4 project file into the UNIX directory `/adapters`, you will see this directory: `/adapters/BEA_CI_84`.

Importing the Component Interface Files into PeopleSoft

The component interface files are a PeopleSoft project. In order to use them, you must import this project into your PeopleSoft installation.

These are the steps for importing your project into PeopleSoft:

- Copying the Component Interface Files into PeopleSoft
- Building the Component Interface Project in PeopleSoft

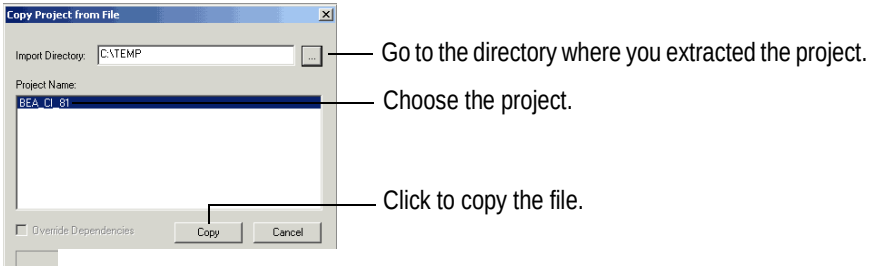
Copying the Component Interface Files into PeopleSoft

After you have extracted the project files, the next step is to copy them into PeopleSoft.

To copy the component interface files:

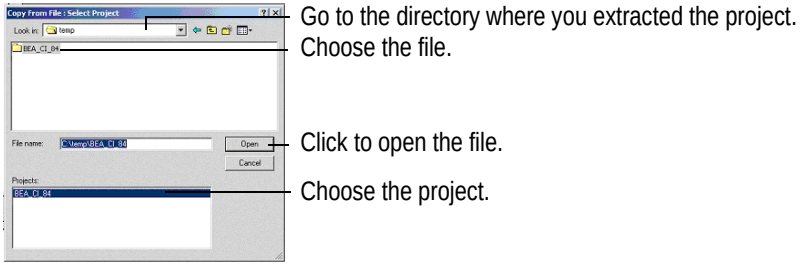
1. Start the PeopleSoft Application Designer in two-tier mode.
2. Copy the project into PeopleSoft from the file.
   - In PeopleSoft.1, Select File→Copy Project from File.

     The Copy Project From File dialog appears.



   - In PeopleSoft.4, select Tools→Copy Project→From File...

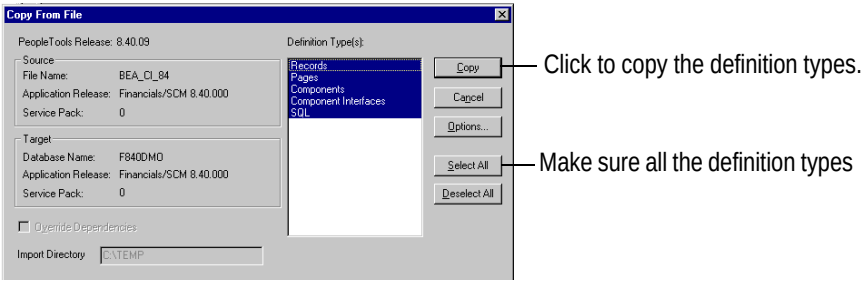
     The Copy From File: Select Project dialog appears.



3. Go to the directory where you extracted the project file. Using the example above, that is `c:\adapters\BEA_CI_84`.
4. Open the Copy dialog.
   - In PeopleSoft.1, select the file and click Copy.

– In PeopleSoft.4 select the file and the project. Click Open.

The Copy From File dialog appears.



5. Make sure all the definition types are selected. Click copy to copy these definition types into your PeopleSoft installation.

   When this copy is successfully completed, a copy ended message appears in the bottom pane of the Application Designer window.

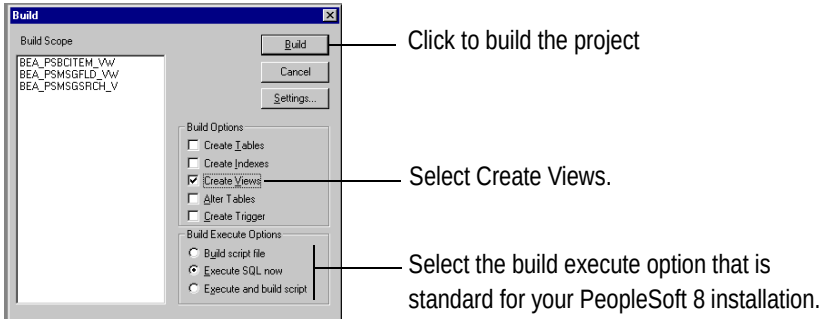
Building the Component Interface Project in PeopleSoft

After you have copied the files into PeopleSoft, the next step is to build the project.

To build the project:

1. Choose Build → Project

   The Build dialog appears.



2. Select Create Views. Select the build execute option that is standard for your PeopleSoft installation. Click Build.

   A progress indicator appears.

Note: When the build is done, you can use your native SQL tool to look at the views that the build created.

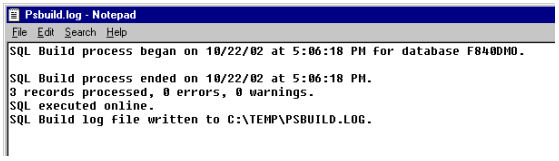
3. Click Close to close the build progress indicator.

Troubleshooting the Build

If the build generated errors, you must troubleshoot the build to find and correct the errors.

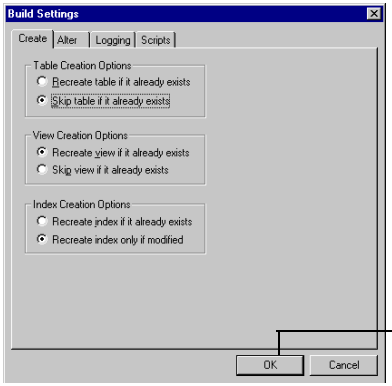
1. In the bottom pane of the application designer window, double-click the line that begins: `SQL Build log written`

   The SQL build log appears.



2. Choose Build → Settings.

   The build settings dialog appears.



When the settings are correct for your PeopleSoft installation, click OK.

3. Make sure the build setting are correct for your PeopleSoft installation.

   Note: Your installation may use a database that requires you to specify the tablespace name. Consult your PeopleSoft administrator for this information.

4. Click OK.

5. Restart the build. See Building the Component Interface Project in PeopleSoft.

Configuring Security for the Component Interfaces

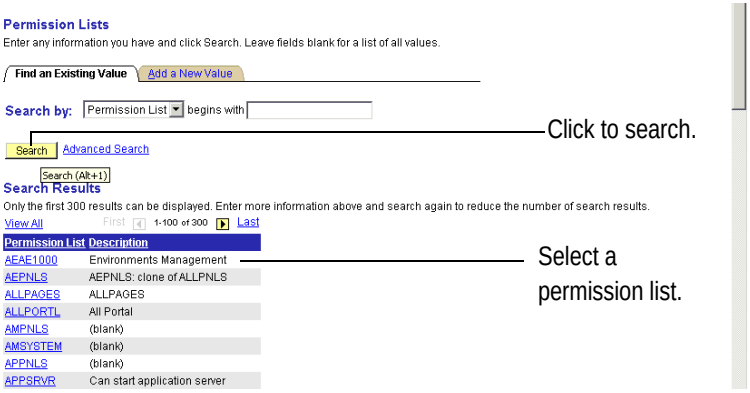
Now that the component interfaces are copied into your PeopleSoft installation and built, you must configure the security for them. To configure security, you must set the component interface security for each distinct Permission List belonging to users who will be using the component interfaces.

For PeopleSoft.1, you can set 2, 3, or 4-tier mode security. For PeopleSoft.4 and higher you can set 4-tier mode security. The process is the same for all supported release levels.

To configure security for the component interfaces:

1. Choose PeopleTools→Security→User Profiles→Permissions & Roles→Permission Lists.

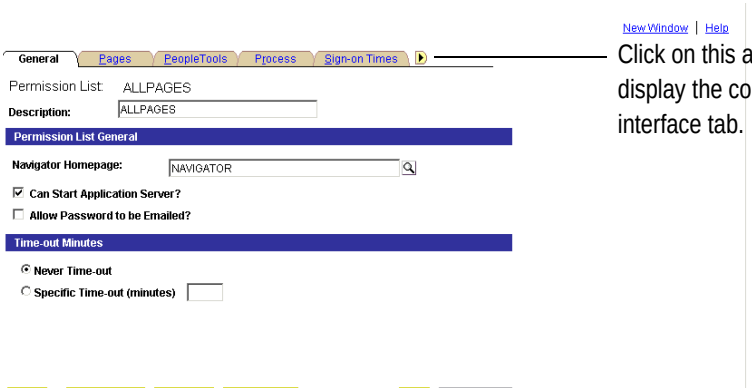
   The permission lists window appears.



2. Click Search.

3. Select a permission list.

   The page for that permission list appears.



4. On the right side of the row of tabs, click the right arrow. This arrow is next to the Sign-On Times tab. This displays the Component Interfaces tab.

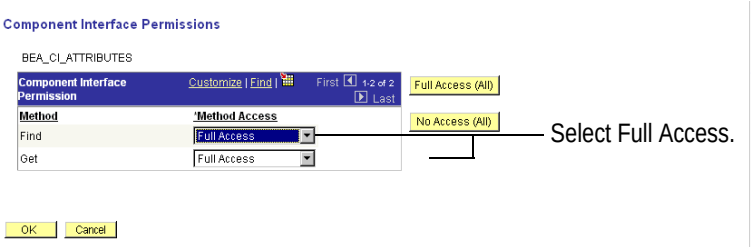
5. Click the Component Interfaces tab.

   This page lists the component interfaces for the permission list you selected.

6. Click the + button to add a new component interface to the list.

7. Browse and select the `BEA_CI_ATTRIBUTES` component interface. Click Upload.

   The Component Interface Permissions window appears.



8. Under Method Access, choose for both the Find and Get methods. Click OK.
9. Repeat steps 6 through 8 to add the `BEA_CI_MESSAGES` component interface and set permissions for it.
10. When you have added the component interfaces, click Save at the bottom of the component interfaces window.

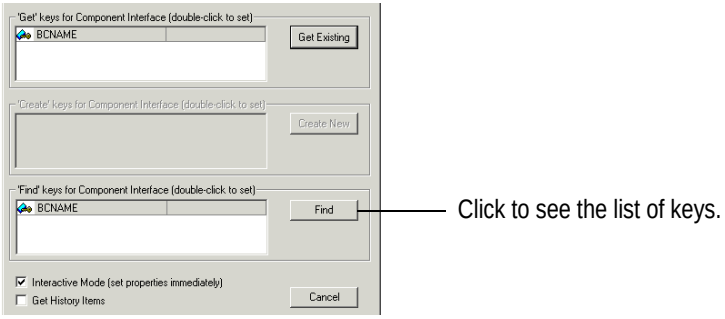
Testing the Component Interfaces

Once you have the component interfaces installed and security set, you must test the interfaces. The testing process involves opening each component interface individually in the Application Designer and executing its Find and Get methods.

To test the component interfaces:

1. In the Application Designer, open the `BEA_CI_ATTRIBUTES` component interface.
2. Choose Tools → Test Component Interface.

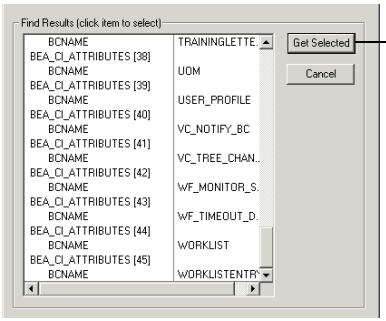
   The Component Interface Test dialog appears.



Note: Notice that the Create New option is disabled. This is correct. The add method does not apply to the `BEA_CI_ATTRIBUTES` component interface.

3. Click Find.

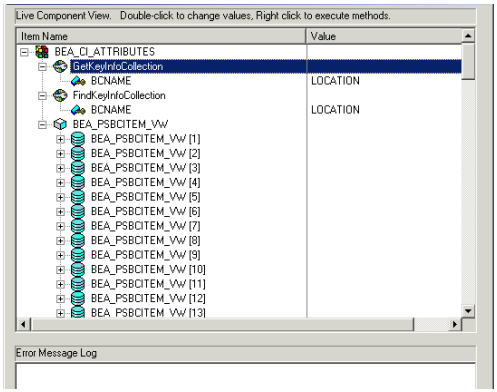
The list of keys for the component appear.



Note: You may see an error message indicating a limit on the number of entries that can be displayed. This does not have any effect on your test.

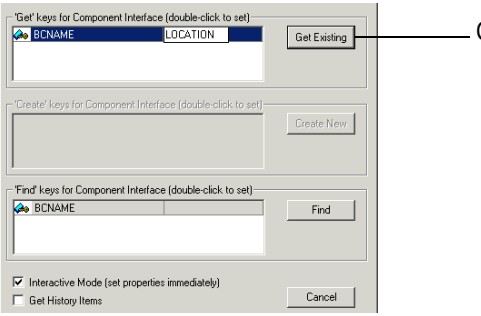
4. Highlight a key and click Get Selected.

   A window with the details for the selected key appears.



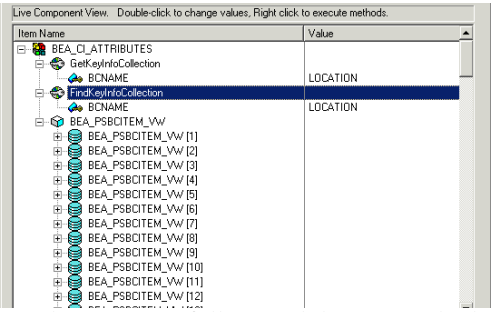
   You have successfully tested the component's Find method.

5. In the Component Interface Tester window, click Get Existing. To test the get method, you must supply an existing key.



Click to start testing the get method.

The properties for that key appear.



You have successfully tested the Get method.

6. Repeat this process for the remaining component interfaces included with the adapter.

Next Steps

To continue configuring the adapter, see Chapter 3, "Installing and Configuring the BEA TCP/IP Message Router."

CHAPTER 3

Installing and Configuring the BEA TCP/IP Message Router

The BEA TCP/IP message router allows PeopleSoft to send XML event documents to your application using TCP/IP. The process of enabling this involves installing the software and configuring the PeopleSoft application gateway.

This section is organized as follows:

- Installing the BEA TCP/IP Handler for PeopleSoft 8.1
- Installing the BEA TCP/IP Target Connector for PeopleSoft 8.4 and Higher

Installing the BEA TCP/IP Handler for PeopleSoft 8.1

This section explains how to install the BEA TCP/IP handler for PeopleSoft 8.1.

This process has the following steps:

- Extracting and Installing the BEA TCP/IP Handler
- Configuring the BEA TCP/IP Handler for the PeopleSoft Gateway Server-

Note: To learn more about installing and configuring the BEA TCP/IP target connector for PeopleSoft 8.4, see "Installing the BEA TCP/IP Target Connector for PeopleSoft 8.4 and Higher."

Extracting and Installing the BEA TCP/IP Handler

The BEA TCP/IP handler is included in the adapter ear file. It is the `iwpsevent81.jar` file.

To extract and install the BEA TCP/IP handler:

1. On the machine where you placed the adapter ear file, extract the BEA TCP/IP handler jar file: `iwpsevent81.jar`.
2. Log on to the machine running PeopleSoft, using valid a PeopleSoft ID and permissions.
3. Go to the PeopleSoft Web servlets directory. The exact location of this directory may vary from release to release. However, in general:
   - On Windows, it is `%PS_HOME%\webserv\servletclasses`
   - On UNIX, it is `$PS_HOME/webserv/servletclasses`
4. Copy the TCP/IP handler jar file to the servlets directory.
5. Extract classes from the TCP/IP handler jar file, `iwpsevent81.jar` using WinZip, jar, or a similar extraction utility.

   The files are extracted in a new directory, `tcphandler`. On Windows, this file is under `psft\pt8`. On UNIX, this is under `psft/pt8`.

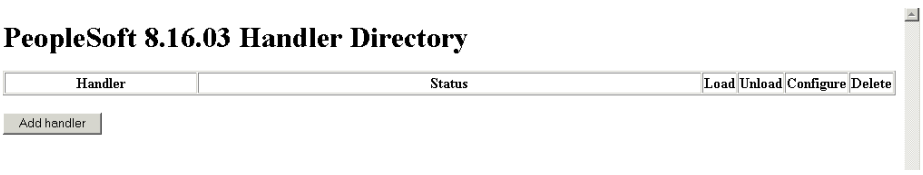
Configuring the BEA TCP/IP Handler for the PeopleSoft Gateway Server

To configure the BEA TCP/IP handler gateway server:

1. Start the PeopleSoft configuration servlet interface (server gateway). The location of this servlet may vary from release to release. It is generally located here: `http://`*`serverURL`*`/servlets/gateway.administration`

   Here, *`serverURL`* is the URL of the PeopleSoft server.

   The PeopleSoft handler directory window appears.



2. Click Add Handler to add a new handler to the list.

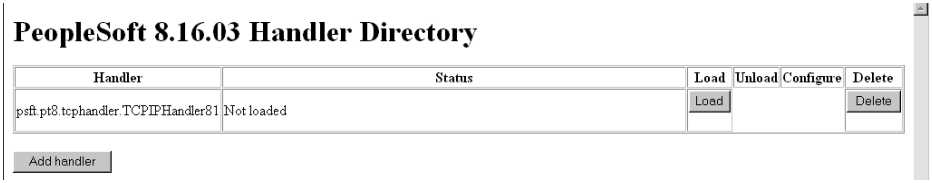
The Add Handler window appears.

3. Enter the name of the BEA TCP/IP handler class:

   `psft.pt8.tcphandler.TCPIPHandler81`

4. Click Save.

   The status window appears. Note the status is Not Loaded.

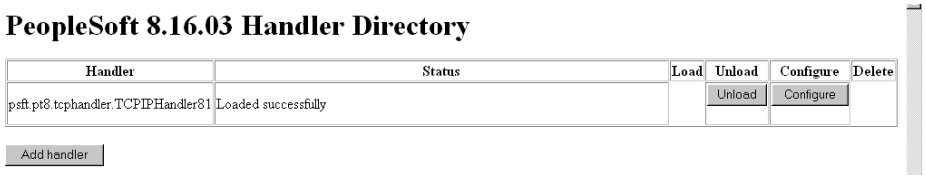


5. Click Load. This activates the handler. The gateway servlet loads the Java class you specified.

   If the gateway servlet finds the class at the path you specified and loaded it successfully, the status becomes Loaded successfully.

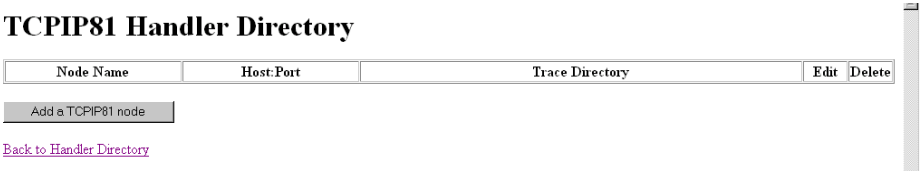
   If the gateway servlet throws a ClassNotFoundException, it failed to find the class you indicated at the path you indicated. Make sure the classpath is correct. If you change this, you may need to stop and restart your Web server.

   Sometimes you may need to deactivate a handler during production. To do this, click Unload. Once unloaded, the handler cannot receive or process messages published by the gateway server.



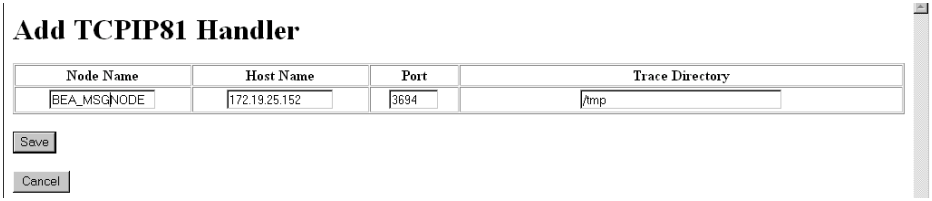
6. Click Configure.

   The table view appears.



7. Click Add a TCPIP81 node.

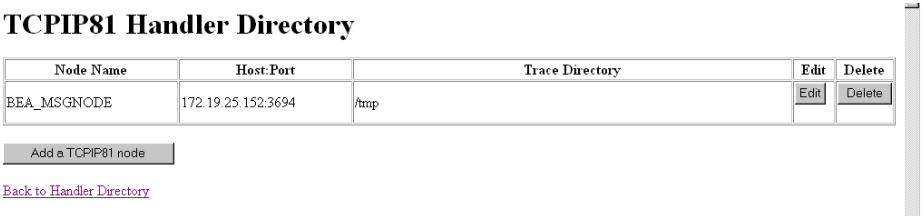
   The TCPIP81 Handler window appears.



8. Enter the values for the TCP/IP Handler:
   - Node name: the name of the node to add, such as `BEA_MSGNODE`.
   - Host name: the name of the host running the BEA WebLogic Integration server.
   - Port: the TCP port specified when you added the application view event.
   - Trace directory: the directory where the trace file is written. Trace files contain information about any problems with message delivery.

9. Click Save.

   The TCPIP Handler window shows the new TCP/IP message handler.



   You have successfully configure the BEA TCP/IP Handler.

Installing the BEA TCP/IP Target Connector for PeopleSoft 8.4 and Higher

For PeopleSoft 8.4, the TCP/IP handler is called the TCP/IP target connector.

This section is organized as follows:

Extracting and Installing the Target Connector

The class file for this component is included in the adapter ear file. The TCP/IP target connector is in the `TCPIPTarget84.class` file.

To extract and install the target connector:

1. On the machine where you placed the adapter ear file, use WinZip, jar of a similar extraction utility to extract the BEA TCP/IP target connector class file from the jar file: `iwpsevent84.jar`.
2. Log on to the machine running PeopleSoft, using valid a PeopleSoft ID and permissions.
3. Go to the PeopleSoft gateway Web server target connector directory. The exact location of this directory may vary from release to release. However, in general:
   - On Windows for WebLogic, it is:

```
c:\bea\wlserver8.1\config\peoplesoft\applications\PSIGW\Web-inf\classes\com\
peoplesoft\pt\integrationgateway\targetconnector
```

   - On UNIX for WebLogic, it is:

```
/bea/wlserver8.1/config/peoplesoft/applications/PSIGW/Web-inf/classes/com/
peoplesoft/pt/integrationgateway/targetconnector
```

   - On Windows for WebSphere, it is:

```
c:\websphere\AppServer\installedApps\peoplesoft\PSIGW\Web-inf\classes\com\
peoplesoft\pt\integrationgateway\targetconnector
```

   - On UNIX for WebSphere, it is:

```
websphere/AppServer/installedApps/peoplesoft/PSIGW/Web-inf/classes/com/
peoplesoft/pt/integrationgateway/targetconnector
```

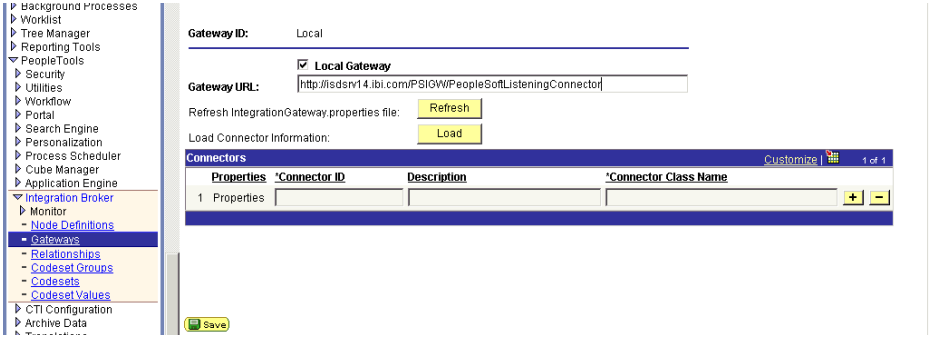
4. Copy the TCP/IP target connector class file to the target connector directory.

Creating a Gateway

To create a gateway:

1. Choose PeopleTools→Integration Broker→Gateways.

   The Gateway URL window appears.

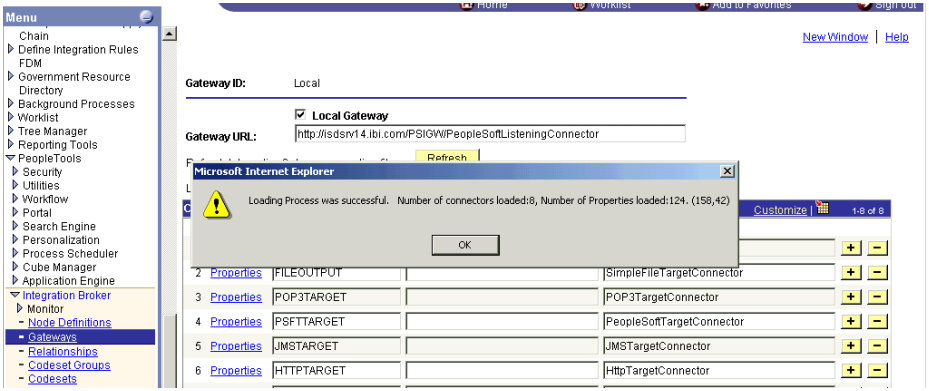


2. Find the local gateway. Enter the URL for this gateway in the gateway URL field.

   Note: The gateway URL is set during installation.

3. Click Load.

   The Connector properties window appears.



   Note: The connector properties are predefined during Integration Broker installation.

4. The status window appears. Click OK to dismiss this window.

   The connector TCPIPTARGET84 appears in the connectors list.

5. Enter the gateway URL.

   The Gateway Window appears.

   You have successfully configured the gateway.

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