

BEA WebLogic Adapter for PeopleSoft®8

Installation and Configuration Guide for WebLogic Integration 2.1

Release 7.0

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BEA WebLogic Adapter for PeopleSoft 8 Installation and Configuration Guide for WebLogic Integration 2.1

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Table of Contents

About This Document

ΛU	out This Document	
	Audience	vi
	Related Information	vi
	Contact Us!	vii
	Documentation Conventions	viii
1.	Installing the Adapter for WebLogic Integration 2.1	
	Before Installing the Adapter	1-2
	Understanding the Representation of Paths	
	Step 1. Obtaining the BEA WebLogic Adapter for PeopleSoft 8	
	Step 2. Extracting JARs and Adjusting the Classpath	
	Extracting JARs and Adjusting the Classpath for Windows	
	Extracting JARs and Adjusting the Classpath for UNIX	
	Step 3. Configuring the WebLogic Integration Database for the Domain	1-7
	Step 4. Replacing the xmltoolkit.jar File	
	Step 5. Updating the BEA License	. 1-10
	Step 6. Deploying the Adapter Using the WebLogic Server Console	. 1-11
	Step 7. Adding the Administrative Server User Name to the Adapter Group	1-15
	Next Steps	. 1-16
2.	Installing and Compiling the Component Interfaces	
۷.		
	BEA WebLogic Adapter for PeopleSoft 8 Component Interfaces	2-2
	Step 1. Making Component Interfaces Available to PeopleSoft 8	2-2
	Importing Project BEA_CI_81 or BEA_CI_84 to PeopleSoft 8	2-3
	Step 2. Configuring Component Interface Security	. 2-14
	Step 3. Testing the Component Interfaces	. 2-21

	Step 4. Modifying the Classpath of the Machine that Runs BEA Application Explorer	-27
3.	Installing and Configuring the BEA TCP/IP Message Router	
	Installing BEA TCP/IP Handler for PeopleSoft Release 8.1	3-1
	Step 1. Extract and Install the BEA TCP/IP Handler	3-2
	Step 2. Configure the BEA TCP/IP Handler on the PeopleSoft 8 Gateway	
	Server	3-3
	Installing BEA TCP/IP Target Connector for PeopleSoft Release 8.4 and High	ıer
	3-10	
	How to Create a Gateway3-	-11

About This Document

This document explains how to install, configure, and deploy the BEA WebLogic Adapter for PeopleSoft 8 for WebLogic Integration 2.1, which is used to develop online connections to PeopleSoft 8 applications.

This document is organized as follows:

- Chapter 1, "Installing the Adapter for WebLogic Integration 2.1," directs users to the information they need before installing the BEA WebLogic Adapter for PeopleSoft 8 and describes how to install the adapter.
- Chapter 2, "Installing and Compiling the Component Interfaces," describes how to install and compile the component interfaces.
- Chapter 3, "Installing and Configuring the BEA TCP/IP Message Router," describes how to install and configure the BEA TCP/IP Handler to enable PeopleSoft 8 event functionality.

Audience

This document is written for system integrators who develop client interfaces between PeopleSoft 8 and other applications. It describes how to install and deploy the BEA WebLogic Adapter for PeopleSoft 8 and how to use it with WebLogic Integration and adapter tools to develop online connections to PeopleSoft applications. It is assumed that readers know Web technologies and have a general understanding of Microsoft Windows and UNIX systems as well as:

- General knowledge of the PeopleSoft environment, including Application Designer and PeopleTools.
- General knowledge of PeopleSoft Application Messaging and PeopleSoft Component Interface.
- Business application knowledge in some specific application area.
- Knowledge of PeopleSoft 8 processes and data model for the required application area.
- General knowledge of WebLogic Integration architecture.
- General knowledge of client-server concepts.

Related Information

The BEA corporate Web site (www.bea.com) provides all documentation for WebLogic Server and WebLogic Integration. For information about these products, go to http://e-docs.bea.com. Documents that you may find helpful when installing the BEA WebLogic Adapter for PeopleSoft 8 are:

- BEA WebLogic Adapter for PeopleSoft 8 User Guide
- BEA Application Explorer Installation Guide

■ BEA WebLogic Server 6.1 installation and user documentation, which is available at the following URL:

```
http://edocs.bea.com/wls/docs61/index.html
```

■ BEA WebLogic Integration 2.1 installation and user documentation, which is available at the following URL:

```
http://edocs.bea.com/wlintegration/v2_1sp/index.html
```

- PeopleSoft 8 Documentation, available online or on CD-ROM. The following components are applicable:
 - PeopleSoft Component Interface
 - PeopleSoft Internet Architecture Administration
 - PeopleSoft Application Messaging

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 which version of the BEA WebLogic Adapter for PeopleSoft 8 documentation you are using.

If you have any questions about this version of BEA WebLogic Adapter for PeopleSoft 8, or if you have problems installing and running 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

Documentation Conventions

The following documentation conventions are used throughout this document.

Convention	Item
boldface text	Indicates terms defined in the glossary.
Ctrl+Tab	Indicates that you must press two or more keys simultaneously.
italics	Indicates emphasis or book titles.
monospace text	Indicates code samples, commands and their options, data structures and their members, data types, directories, and file names and their extensions. Monospace text also indicates text that you must enter from the keyboard. Examples: #include <iostream.h> void main () the pointer psz chmod u+w * \tux\data\ap .doc tux.doc BITMAP float</iostream.h>
monospace boldface text	Identifies significant words in code. Example: void commit ()
monospace italic text	Identifies variables in code. Example: String expr

Convention	Item
UPPERCASE	Indicates device names, environment variables, and logical operators.
TEXT	Examples:
	LPT1
	SIGNON
	OR
{ }	Indicates a set of choices in a syntax line. The braces themselves should never be typed.
[]	Indicates optional items in a syntax line. The brackets themselves should never be typed.
	Example:
	<pre>buildobjclient [-v] [-o name] [-f file-list] [-l file-list]</pre>
	Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed.
	Indicates one of the following in a command line:
	■ That an argument can be repeated several times in a command line
	■ That the statement omits additional optional arguments
	■ That you can enter additional parameters, values, or other information
	The ellipsis itself should never be typed.
	Example:
	<pre>buildobjclient [-v] [-o name] [-f file-list] [-l file-list]</pre>
	Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.

Installing the Adapter for WebLogic Integration 2.1

This section provides instructions for installing the BEA WebLogic Adapter for PeopleSoft 8 with WebLogic Integration. It includes the following topics:

- Before Installing the Adapter
- Understanding the Representation of Paths
- Step 1. Obtaining the BEA WebLogic Adapter for PeopleSoft 8
- Step 2. Extracting JARs and Adjusting the Classpath
- Step 3. Configuring the WebLogic Integration Database for the Domain
- Step 4. Replacing the xmltoolkit.jar File
- Step 5. Updating the BEA License
- Step 6. Deploying the Adapter Using the WebLogic Server Console
- Step 7. Adding the Administrative Server User Name to the Adapter Group
- Next Steps

Before Installing the Adapter

Before you install the BEA WebLogic Adapter for PeopleSoft 8, you must review the BEA WebLogic Adapter for PeopleSoft 8 *Release Notes* to ensure that you have the required prerequisite software installed. The BEA WebLogic Adapter for PeopleSoft 8 *Release Notes* is available at the following URL:

http://edocs.bea.com/wladapters/doc70/index.html

Understanding the Representation of Paths

Because the location of files in the WebLogic Integration environment depends on options selected during installation and configuration, the conventions that follow are used throughout to represent paths.

■ BEA_HOME represents the BEA Home directory specified for your WebLogic installation.

For example, if you install the product in the default location on a Windows system, BEA_HOME represents c:\bea.

■ WLI_HOME represents the root of your WebLogic Integration installation.

For example:

- If you install WebLogic Integration 2.1 in the default location on a Windows system, WLI_HOME represents c:\bea\wlintegration2.1.
- domain is used to indicate the name of a domain.
 - In WebLogic Integration 2.1, preconfigured domains (bpmdomain, eaidomain, wlidomain, and samples) are created as subdirectories of the WLI_HOME\config directory. Therefore, domain may be used to represent the root of a preconfigured WebLogic Integration 2.1 domain as follows:

WLI HOME\config\domain

■ DOMAIN HOME represents the complete path to the root of a domain.

For example:

 If you install WebLogic Integration 2.1 in the default location on a Windows system, DOMAIN_HOME represents c:\bea\wlintegration2.1\config\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.

Unlike WLI_HOME and BEA_HOME, DOMAIN_HOME is not an environment variable that is set by default in the WebLogic Integration environment.

Step 1. Obtaining the BEA WebLogic Adapter for PeopleSoft 8

The BEA WebLogic Adapter for PeopleSoft 8 is packaged as an EAR file (BEA_PEOPLESOFT_1_0.ear). You can obtain the software on CD or download it from www.bea.com.

Note: At the time of publication of this document, WebLogic Server 6.1 is unable to explode RAR files (BEA Support CASE number 333672). Use an extraction tool (such as WinZip) to extract the contents of the adapter EAR file,

BEA_PEOPLESOFT_1_0.ear, and add the location of the unpackaged objects to the server's classpath (see Step 2. Extracting JARs and Adjusting the Classpath).

Step 2. Extracting JARs and Adjusting the Classpath

Set the classpath using the procedure appropriate for your system:

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

Extracting JARs and Adjusting the Classpath for Windows

To unzip the adapter JAR files and adjust the classpath on Windows, complete the following steps:

- 1. Use WinZip (or another similar extracting product) to extract the BEA_PEOPLESOFT_1_0.ear file to a directory of your choice (for example, BEA_HOME\lib\PeopleSoft).
- Copy the psjoa.jar from your PS_HOME Web directory to the directory into which you extracted the BEA_PEOPLESOFT_1_0.ear file (for example, BEA_HOME\lib\PeopleSoft).

The psjoa.jar file is the Java Object Adapter (JOA) shipped with your PeopleSoft application. This file is required by both WebLogic Server and the BEA Application Explorer. It can be found in your PS_HOME Web directory.

Note: The psjoa.jar file is release-specific. Each time you upgrade your Peopletools release, you must obtain the current version of psjoa.jar, shut down WebLogic Server, and replace the old psjoa.jar with the current version.

3. If you are using PeopleSoft release 8.1x, copy the pstools.properties file (which is also found in your PS_HOME Web directory) to the same directory as the psjoa.jar file.

4. Go to the root directory for your domain:

```
cd DOMAIN HOME
```

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

5. Find the Set Domain Type Data. cmd file.

Here, <code>DomainType</code> is the type of the domain. For example, if your domain is configured to support the development of solutions that employ the full range of WebLogic Integration functionality, it contains the <code>SetwliDomainData.cmd</code> file.

6. Update the SVRCP environment variable settings in the SetDomainTypeData.cmd file.

Note: The SVRCP environment variable is used in the Set*DomainType*Data script to set the classpath for the java executable.

After the following line:

```
set SVRCP=%SVRCP%;%WLI DOMAIN HOME%\wlai
```

add the following JAR files, which are listed in the order required for the classpath:

```
REM Set PeopleSoft 8 Adapter classpath

SET SVRCP=%SVRCP%; BEA_HOME\lib\PeopleSoft\libi-edaqm.jar

SET SVRCP=%SVRCP%; BEA_HOME\lib\PeopleSoft\BEA_PEOPLESOFT_1_0.jar

SET SVRCP=%SVRCP%; BEA_HOME\lib\PeopleSoft\libi-psoft.jar

SET SVRCP=%SVRCP%; BEA_HOME\lib\PeopleSoft\psjoa.jar

SET SVRCP=%SVRCP%; BEA_HOME\lib\PeopleSoft\xercesImpl.jar

SET SVRCP=%SVRCP%; BEA_HOME\lib\PeopleSoft\xmlParserAPIs.jar

REM For PS 8.1x, use PS_BEA_CI81.jar.

REM For PS 8.4x, use PS_BEA_CI84.jar.

SET SVRCP=%SVRCP%; BEA_HOME\lib\PeopleSoft\PS_BEA_CInn.jar

REM For PS 8.1x, add the location of

REM for PS 8.1x, add the location of

REM the pstools.properties file.

SET SVRCP=%SVRCP%; BEA_HOME\lib\PeopleSoft
```

Here, BEA_HOME\lib\PeopleSoft represents the directory specified in step1.

Extracting JARs and Adjusting the Classpath for UNIX

To extract the adapter JAR files and adjust the classpath on UNIX, complete the following steps:

- Use jar (or another similar extracting product) to extract BEA_PEOPLESOFT_1_0.ear to a directory of your choice (for example, BEA_HOME/lib/PeopleSoft).
- Copy the psjoa.jar from your PS_HOME Web directory to the directory into which you extracted the BEA_PEOPLESOFT_1_0.ear file (for example, BEA_HOME\lib\PeopleSoft).

The psjoa.jar file is the Java Object Adapter (JOA) shipped with your PeopleSoft application. This file is required by both WebLogic Server and the BEA Application Explorer. It can be found in your PS_HOME Web directory.

Note: The psjoa.jar file is release-specific. Each time you upgrade your Peopletools release, you must obtain the current version of psjoa.jar, shut down WebLogic Server, and replace the old psjoa.jar with the current version.

- 3. If you are using PeopleSoft release 8.1x, copy the pstools.properties file (which is also found in your PS_HOME Web directory) to the same directory as the psjoa.jar file.
- 4. Go to the root directory for your domain:

cd DOMAIN HOME

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

5. Find the Set Domain Type Data. cmd file.

Here, <code>DomainType</code> is the type of the domain. For example, if your domain is configured to support the development of solutions that employ the full range of WebLogic Integration functionality, it contains the <code>SetwliDomainData.cmd</code> file.

6. Update the SVRCP environment variable settings in the Set DomainTypeData.cmd file.

Note: The SVRCP environment variable is used in the Set*DomainType*Data script to set the classpath for the java executable.

After the following line:

```
set SVRCP=%SVRCP%;%WLI_DOMAIN_HOME%\wlai
add the following JAR files:
# Set PeopleSoft 8 Adapter classpath
SVRCP=$SVRCP:BEA_HOME/lib/PeopleSoft/ibi-edaqm.jar
SVRCP=$SVRCP:BEA_HOME/lib/PeopleSoft/BEA_PEOPLESOFT_1_0.jar
SVRCP=$SVRCP:BEA_HOME/lib/PeopleSoft/ibi-psoft.jar
SVRCP=$SVRCP:BEA_HOME/lib/PeopleSoft/psjoa.jar
SVRCP=$SVRCP:BEA_HOME/lib/PeopleSoft/xercesImpl.jar
SVRCP=$SVRCP:BEA_HOME/lib/PeopleSoft/xmlParserAPIs.jar
# For PS 8.1x, use PS_BEA_CI81.jar.
# For PS 8.4x, use PS_BEA_CI84.jar.
SVRCP=$SVRCP:BEA_HOME/lib/PeopleSoft/PS_BEA_CInn.jar
# For PS 8.1x, add the location of
# the pstools.properties file.
SVRCP=$SVRCP:BEA_HOME/lib/PeopleSoft
```

Here, BEA HOME/lib/PeopleSoft is the directory specified in step1.

Step 3. Configuring the WebLogic Integration Database for the Domain

If you have not already done so, you must create the WebLogic Integration database tables for your domain. For detailed instructions, see "Configuring the Database for a Domain" in *Starting, Stopping and Customizing* BEA WebLogic Integration, which is available at the following URL:

http://edocs.bea.com/wlintegration/v2_1sp/config/index.htm

Step 4. Replacing the xmltoolkit.jar File

The BEA WebLogic Adapters include a new xmltoolkit.jar file. You must replace your existing WebLogic Integration xmltoolkit.jar file with the new JAR file.

To configure the new xmltoolkit.jar file, follow these steps:

- 1. Rename your original xmltoolkit.jar file to xmltoolkit.jar.old by entering the commands appropriate for your operating system:
 - On a Windows system:

```
cd WLI_HOME\lib
rename xmltoolkit.jar xmltoolkit.jar.old
```

• On a UNIX system:

```
cd WLI_HOME/lib
mv xmltoolkit.jar xmltoolkit.jar.old
```

- 2. Extract the xmltoolkit.jar file from the adapter EAR file into a temporary directory.
- 3. Copy the new xmltoolkit.jar file (extracted in step 2) to the WLI_HOME\lib directory for Windows or the WLI_HOME/lib directory for UNIX.

Caution: Simply replacing the xmltoolkit.jar file is not sufficient; you must also make changes to the setenv and SetDomainTypeData scripts as described in the following steps.

- 4. Edit the top-level setenv script and make the appropriate changes for your operating system:
 - On a Windows system, edit the WLI HOME\setenv.cmd script.

Replace the line:

```
set WLICOMMONCP=
with
set WLICOMMONCP=%WLI HOME%\lib\xmltoolkit.jar
```

On a UNIX system, edit the WLI_HOME/setenv.sh script.

Replace the line:

```
WLICOMMONCP=$WLI_LIB/wlicommon.jar
with
WLICOMMONCP=$WLI_LIB/wlicommon.jar:$WLI_HOME/lib/xmltoolkit.
iar
```

5. Edit the Set Domain Type Data script.

Here, <code>DomainType</code> is the type of the domain. For example, depending on the configuration of your domain, locate and edit the <code>SetwliDomainData.cmd</code> or <code>SeteaiDomainData.cmd</code> file.

• On a Windows system:

For example, edit the DOMAIN HOME\SetwliDomainData.cmd script.

Replace the line:

```
set SVRCP=%WLISERVERCP%;%CMNCP%
with
set
SVRCP=%WLI_HOME%\lib\xmltoolkit.jar;%WLISERVERCP%;%CMNCP%
```

On a UNIX system:

For example, edit the DOMAIN_HOME/SetwliDomainData script.

Replace the line:

```
SVRCP=$WLISERVERCP:$CMNCP
with
SVRCP=$WLI_HOME/lib/xmltoolkit.jar:$WLISERVERCP:$CMNCP
```

Step 5. Updating the BEA License

The BEA WebLogic Adapter for PeopleSoft 8 cannot be used without a valid software license. If you have downloaded the adapter for evaluation, you must obtain an evaluation license as described on the adapter download page. If you have purchased a license for the adapter, the license file is typically sent to you as an e-mail attachment.

When you have obtained a valid license for the adapter, update your license. bea file by completing the following steps:

Save the license file that you obtained with a name other than license.bea, in the
 BEA_HOME directory. For example, save the file as
 peoplesoft_adapter_license.bea. Use this file as the
 license_update_file in step 4 of this procedure.

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

- 2. Perform the step appropriate for your platform:
 - 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.
- If it is not already included, add the JDK to your PATH variable by executing the command appropriate to your system:
 - On a Windows system:
 set PATH=BEA_HOME\jdk131_03\bin; %PATH%
 - On a UNIX system:

```
PATH=BEA_HOME/jdk131_03/bin:$PATH export PATH
```

- 4. Merge the license update file into your existing license by executing the command appropriate to your system:
 - On a Windows system:

UpdateLicense license_update_file

On a UNIX system:

```
sh UpdateLicense.sh license update file
```

Here, <code>license_update_file</code> is the name to which you saved the license update file in step 1.

5. Save a copy of your updated license.bea file in a safe place outside the WebLogic Integration and application installation directories.

Step 6. Deploying the Adapter Using the WebLogic Server Console

After the BEA WebLogic Adapter for PeopleSoft 8 is installed, it must be deployed to WebLogic Server for your domain (for example, wlidomain). To configure and deploy an adapter using the WebLogic Server Administration Console, complete the following steps:

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

```
http://localhost:port/console/
```

Here, *localhost* represents the machine on which WebLogic Server is running and *port* represents the listening port.

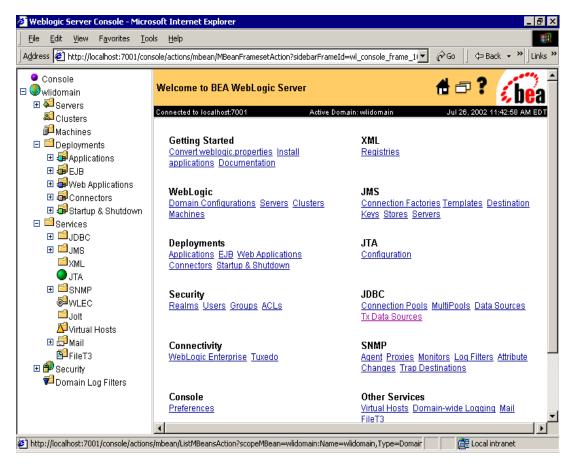
For example, http://localhost:7001/console/

3. When prompted, enter the user name and password for the server.

Note: If you have not updated the default login, see "WebLogic Integration Users and Passwords" in *Starting, Stopping, and Customizing* WebLogic Integration at the following URL:

http://edocs.bea.com/wlintegration/v2_1sp/config/getstart.htm The WebLogic Server Administration Console opens.

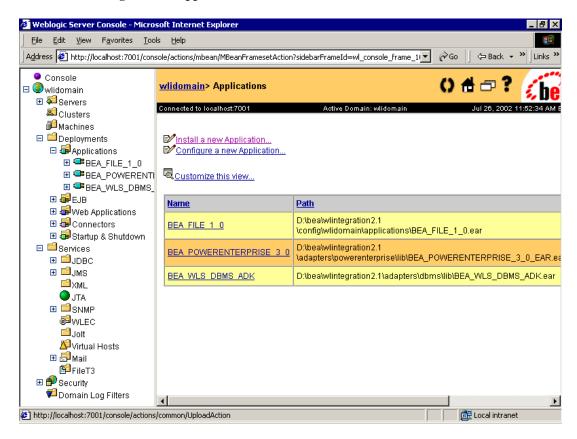
Figure 1-1 WebLogic Server Console



4. In the left pane, choose Deployments and then Applications from the navigation tree.

The console displays the Applications window.

Figure 1-2 Applications Window



- Click the Install a new Application link.
 The console displays the Install or Update an Application window.
- Click Browse to locate the application archive you selected during installation (BEA_PEOPLESOFT_1_0.ear).

Install or Update an Application Connected to localhost:7001 Active Domain: wlidomain Upload and Install an Application Click on the 'browse' button below to locate an application archive on the machine from which you are browsing. When you have located the file, click 'upload' to install it on this WebLogic Administration Server. The following types of application files may be uploaded: A .jar containing EJBs (Enterprise Java Beans) A .war (Web Application Archive) containing JSPs and Servlets A .rar (Resource Adapter Archive) containing a JCA Connector module An .ear (J2EE Enterprise Application Archive) containing any of the above Note: if you browse for the file, you may have to adjust the file-type filter to 'All' in order to find .jar, .war, .rar and .ear files. C:\downloads\BEA_PEOPLESOFT 1 0.e Browse... Upload Cancel

Figure 1-3 Locating the Application Archive Window

- 7. Click Upload to upload the BEA PEOPLESOFT 1 0.ear file.
 - The console displays the application files currently installed to indicate that the upload is complete and the adapter file is deployed to WebLogic Server.
- 8. You can verify deployment by viewing the adapter configuration, as follows:
 - a. Choose Deployments and then Applications from the navigation tree.
 - b. Click the BEA_PEOPLESOFT_1_0.ear file link.

Step 7. Adding the Administrative Server User Name to the Adapter Group

A user group, adapter, is defined in each domain that supports application integration functionality. Before you create an application view that employs the events or services supported by an adapter, you must add the user name defined for the administrative server to the adapter group.

Note: By default, the adapter group includes the user system. If the user name defined for the administrative server is system, skip this step. For example, if you are starting the server in a preconfigured domain, and you have not modified the default administrative server login, you can skip this step.

To add the administrative server user name to the adapter group, complete the following steps:

- 1. In the left pane of the WebLogic Server Administration Console, choose Security and then Groups from the navigation tree.
 - The console displays groups currently defined for the domain.
- 2. Locate and click the link for the adapter group to display the group definition.

Figure 1-4 Group Definition



- 3. If the administrative server user name is not included in the Members list, enter the user name in the Add Users field.
- 4. Click Apply to add the user name to the group.

The name is added to the Members list.

Next Steps

If you have not already installed the BEA Application Explorer, install it now. See the BEA Application Explorer Installation and Configuration Guide.

When you have successfully deployed the adapter and installed the BEA Application Explorer, you can log on to the WebLogic Integration Application View Console to create application views that employ events and services supported by the BEA WebLogic Adapter for PeopleSoft 8. For more information, see the BEA WebLogic Adapter for PeopleSoft 8 *User Guide*.

2 Installing and Compiling the Component Interfaces

This section describes how to install and compile the component interfaces. It includes the following topic and installation steps:

- BEA WebLogic Adapter for PeopleSoft 8 Component Interfaces
- Step 1. Making Component Interfaces Available to PeopleSoft 8
- Step 2. Configuring Component Interface Security
- Step 3. Testing the Component Interfaces
- Step 4. Modifying the Classpath of the Machine that Runs BEA Application Explorer

Note: For more information about the BEA Application Explorer, see the *BEA Application Explorer User Guide*.

BEA WebLogic Adapter for PeopleSoft 8 Component Interfaces

BEA delivers two component interfaces as part of the BEA WebLogic Adapter for PeopleSoft 8. These component interfaces are used in conjunction with the BEA Application Explorer to facilitate the creation of schemas for events and services. The BEA Application Explorer uses the delivered components for metadata information to build schemas.

For the delivered component interfaces, you must perform the following steps:

- 1. Make the delivered component interfaces available to PeopleSoft 8.
- 2. Configure the component interface security.
- 3. Test the component interfaces.
- 4. Modify the classpath of the machine that runs BEA Application Explorer.

Step 1. Making Component Interfaces Available to PeopleSoft 8

The supplied component interfaces are delivered via a PeopleSoft project. For PeopleSoft release 8.1x, the project is called BEA_CI_81 and is contained within file, BEA_CI_81.zip. For PeopleSoft release 8.4x, the project and file name are BEA_CI_84 and BEA_CI_84.zip, respectively. The zip files are located within the BEA_PEOPLESOFT_1_0.ear file. You can extract it using any extraction software.

Importing Project BEA_CI_81 or BEA_CI_84 to PeopleSoft 8

The following steps describe how to import the BEA_CI_81 or BEA_CI_84 project to PeopleSoft 8.

- Unzip the BEA_CI_81.zip or BEA_CI_84.zip file to a directory of your choice.
 The unzip process will create its own subdirectory.
 - For example, if you extract it to c:\temp, a subdirectory called BEA_CI_81 or BEA_CI_84 is created in c:\temp.
- 2. Launch the PeopleSoft 8 Application Designer in two-tier mode.
- 3. From the File menu, choose Copy Project from File.

Note: In PeopleSoft release 8.4 or higher, from the Tools menu, you must choose Copy Project→From File.

4. Navigate to the original directory to which you unzipped the file.

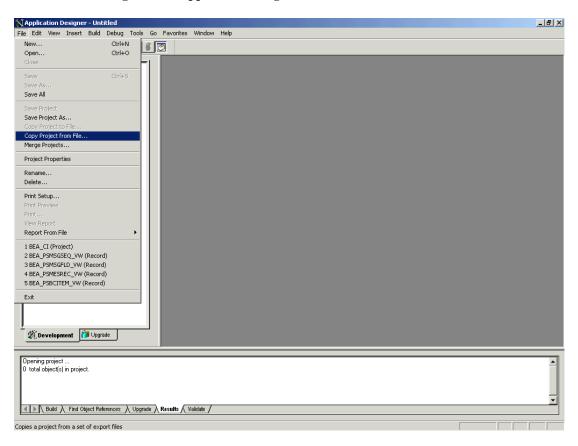


Figure 2-1 Application Designer Window - Release 8.1

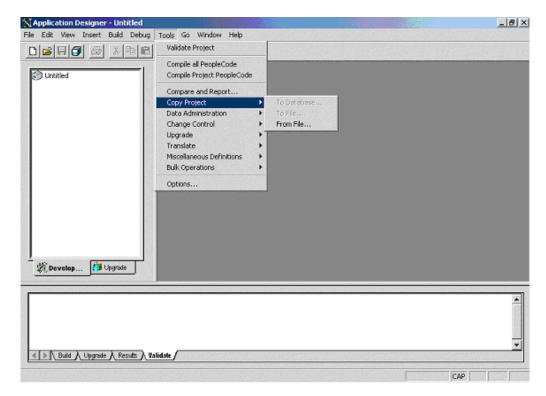


Figure 2-2 Application Designer Window - Release 8.4

The Application Designer displays the Copy Project From File dialog box.

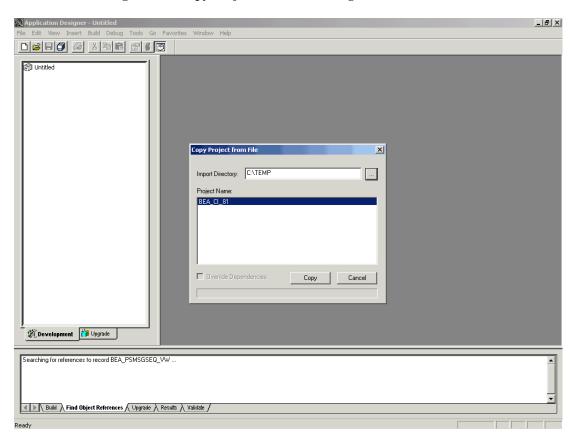


Figure 2-3 Copy Project From File Dialog Box - Release 8.1

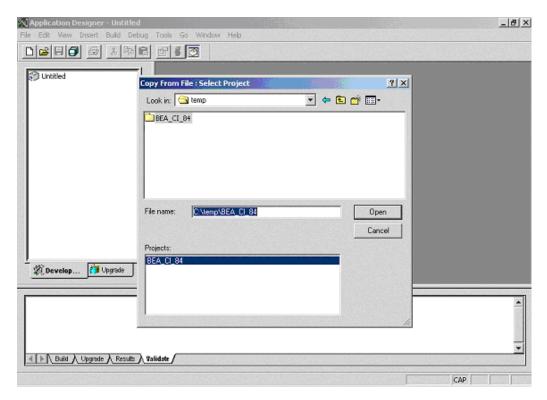


Figure 2-4 Copy From File: Select Project Dialog Box - Release 8.4

5. Click Copy (in release 8.1) or Open (in release 8.4) to open the Copy dialog box.

Note: Although the following figures illustrate PeopleSoft release 8.4, the corresponding steps are accurate for releases 8.1 and 8.4.

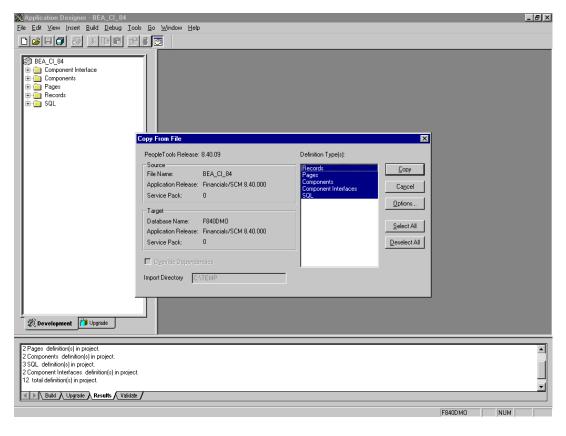


Figure 2-5 Application Designer - Copy From File Dialog Box

 Make sure that all the objects listed under Object Types are highlighted and click Copy. The Application Designer displays a copy ended message to indicate successful completion.

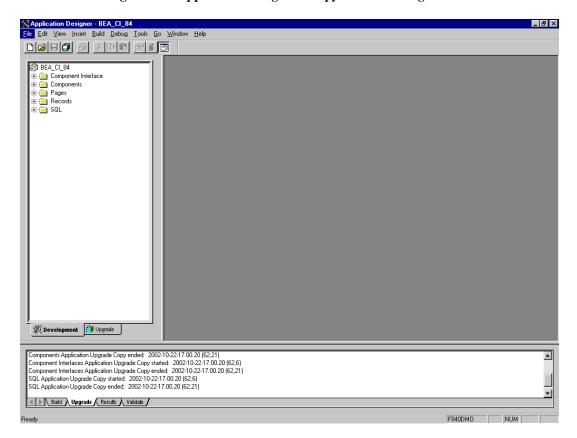


Figure 2-6 Application Designer - Copy Ended Message

Build the views in the project by choosing Build—Project.
 The Build dialog box opens.

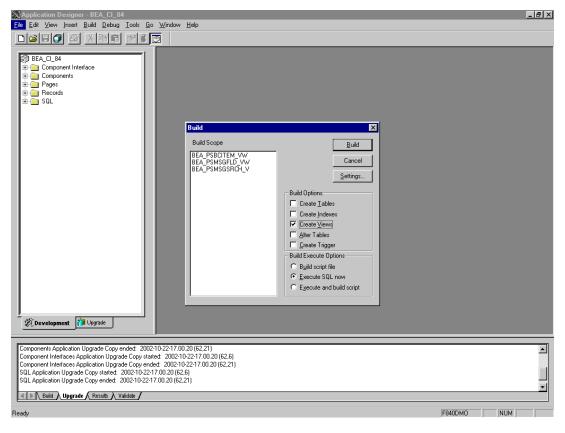


Figure 2-7 Application Designer - Build Dialog Box

- 8. Select Create Views in Build Options. Select your site's customary option in Build Execute Options. (In the previous figure, we have selected Execute SQL now.)
- 9. Click Build.

The Application Designer displays a Build Progress status window.

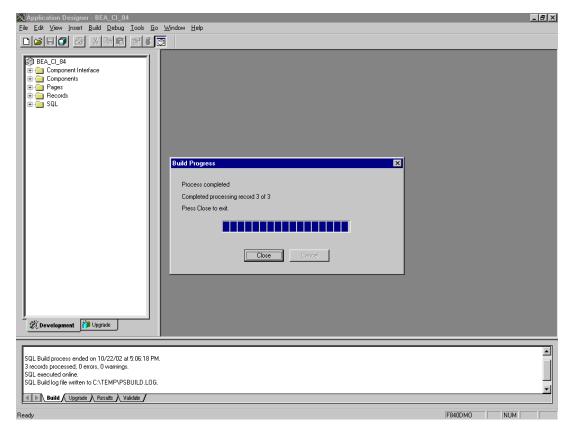


Figure 2-8 Application Designer - Build Progress Dialog Box

Notice that there are zero errors and zero warnings.

You may use your native SQL Tool to view the records from the generated view to ensure that they have been created correctly.

10. If the view has not been generated correctly, click Close and double-click the SQL Build log statement.

The PSBUILD log file displays.

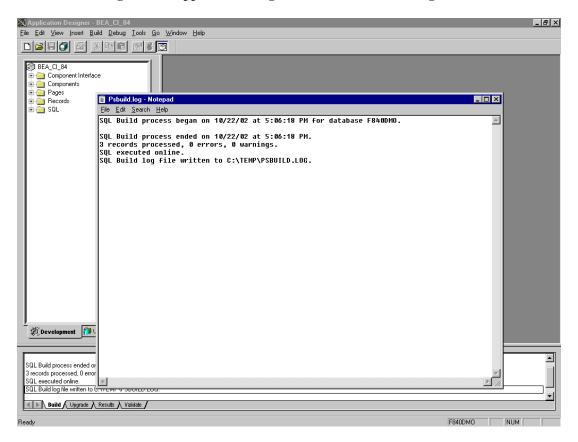


Figure 2-9 Application Designer - PSBUILD Process Log File

11. If you encounter problems, check the Build settings options by choosing Build→Settings.

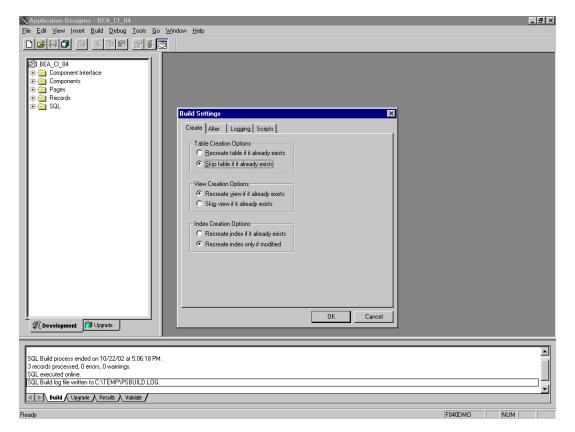


Figure 2-10 Application Designer - Build Settings Dialog Box

Depending on the application server database for PeopleSoft 8, some databases may require the Tablespace name. Consult your PeopleSoft 8 database administrator for more information regarding this function.

Step 2. Configuring Component Interface Security

Before the delivered component interfaces can be used, security for each component interface must be set. Component interface security should be set for each distinct Permission List belonging to users who are going to use the product being installed.

You must set the security for all delivered component interfaces in the project. In PeopleSoft release 8.1, you may set security in 2, 3, or 4-tier mode; in release 8.4 and higher, you may set security 4-tier mode. Regardless of your release level or interface, you must follow the same steps. The figures in the following steps show how to configure component interface security for PeopleSoft release 8.4 in 4-tier mode.

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

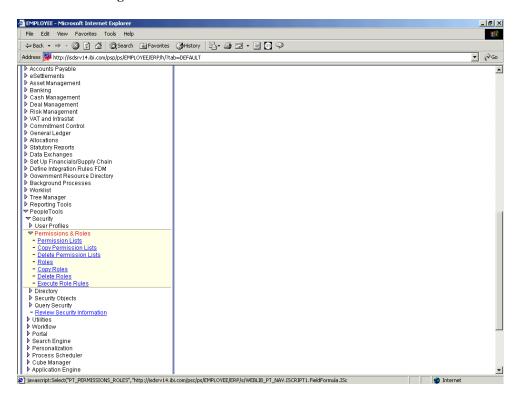
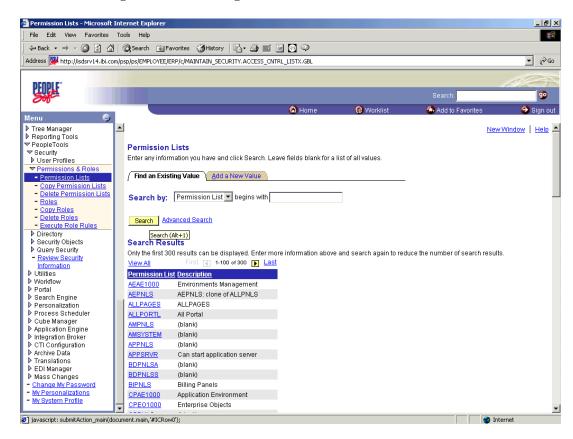


Figure 2-11 Permission Lists Window

2. Click Search and select the relevant Permission List.

Figure 2-12 Searching for Permission Lists



Click the right arrow next to the Sign-on Times tab to display the Component Interfaces tab.

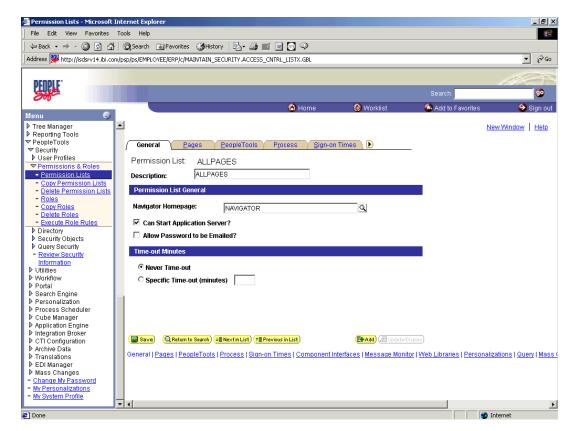


Figure 2-13 Finding the Component Interfaces tab

4. Click the Component Interfaces tab.

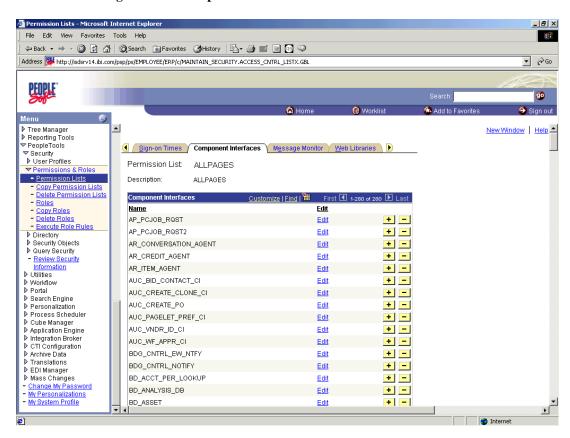


Figure 2-14 Component Interfaces Window

5. Click the + button to add a new row to the Component Interfaces list.

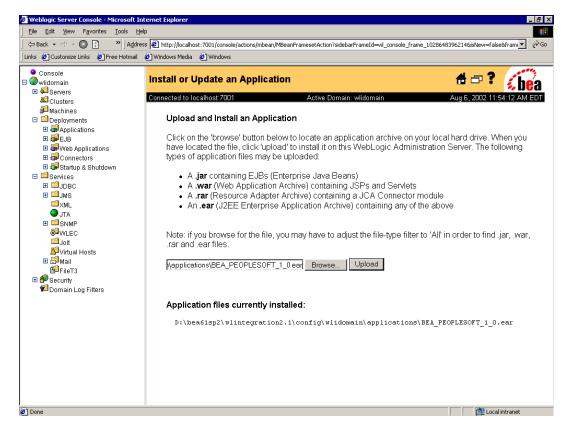


Figure 2-15 Component Interfaces List

6. Enter or select the BEA CI ATTRIBUTES component interface and click Edit.

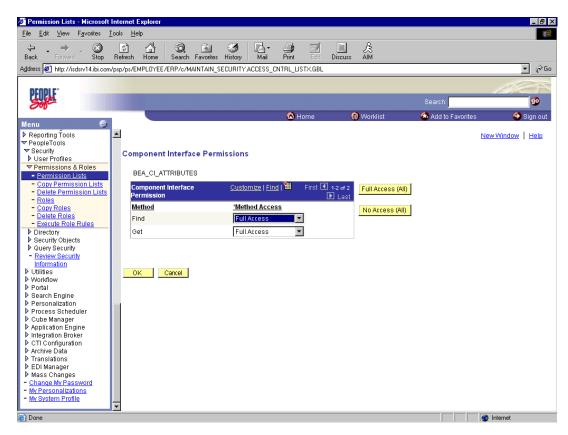


Figure 2-16 Component Interface Permissions Window

- 7. Click Full Access (All) to set the Get and Find methods to Full Access.
- 8. Click OK.

- 9. Repeat steps 5 through 8 for the BEA_CI_MESSAGES component interface.
- 10. Scroll down to the bottom of the Component Interfaces window and click Save.

Step 3. Testing the Component Interfaces

All BEA delivered component interfaces must be tested individually before continuing. Using Application Designer, open each component interface individually and test the component interfaces BEA_CI_ATTRIBUTES and BEA_CI_MESSAGES by executing the Find and Get methods.

- 1. Open the BEA_CI_ATTRIBUTES Component Interface.
- 2. Choose Tools→Test Component Interface.

The Component Interface Tester dialog box opens.

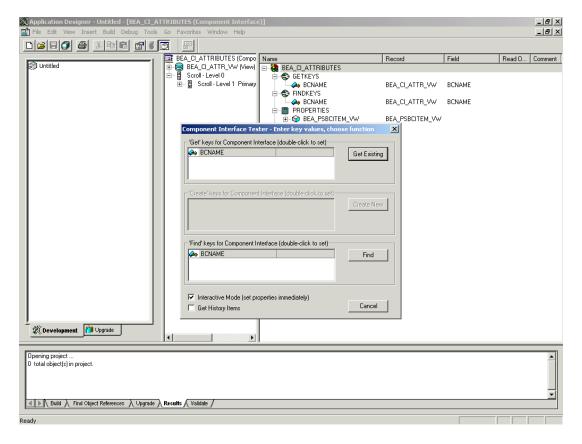


Figure 2-17 Component Interface Tester Dialog Box

Note that the Create New option is disabled. This is because the Add method is not applicable to this component interface.

3. Click the Find button. Entries for the underlying component are displayed.

A message may appear stating that display is limited to a certain number of entries; this is not a problem.

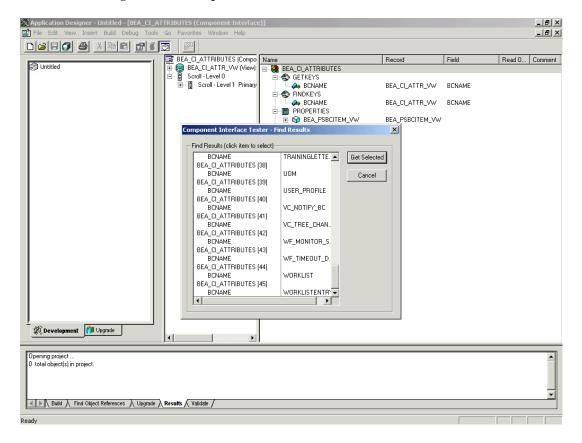


Figure 2-18 Component Interface Tester - Find Results Window

4. Highlight one of the lines with its corresponding key in the Find Results window and click the Get Selected button.

The relevant data for the selected key is displayed.

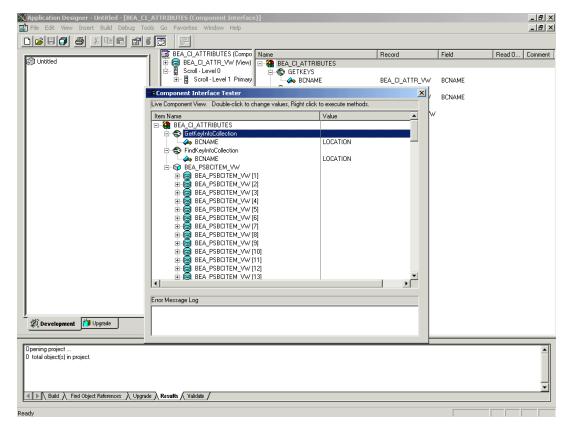


Figure 2-19 Component Interface Tester Window

If this window is displayed, the component interface has been successfully tested for the Find method.

5. Click the Get button. For the Get method, an existing key must be entered.

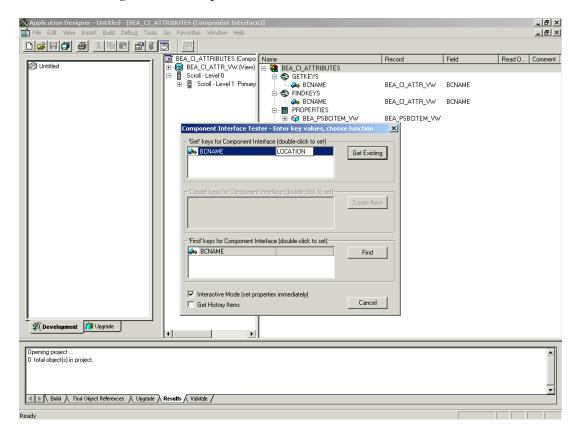


Figure 2-20 Component Interface Tester Window

The exposed properties for the key that is entered are returned.

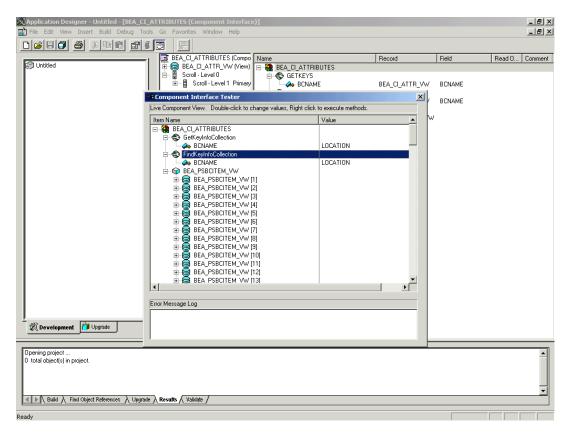


Figure 2-21 Component Interface Tester - Results Window

If this window is displayed, the component interface has been successfully tested for the Get method.

6. Repeat this process for each of the delivered component interfaces.

Step 4. Modifying the Classpath of the Machine that Runs BEA Application Explorer

The BEA Application Explorer requires the same set of jar files as required by the WebLogic Integration Server. These are the jar files that were extracted in Step 2. Extracting JARs and Adjusting the Classpath in Chapter 1, "Installing the Adapter for WebLogic Integration 2.1," and put in the classpath in the SetDomainTypeData.cmd file.

However, unlike the WebLogic Integration Server, no changes in command files are required. It is sufficient to simply place these files in the lib directory of the BEA Application Explorer. These files include the PeopleSoft Java Object Adapter file (psjoa.jar) and pstools.properties (for release 8.1)

The psjoa.jar and the pstools.properties change with each release. For information on replacing these files, see the warning at the end of the section called Step 2. Extracting JARs and Adjusting the Classpath in Chapter 1, "Installing the Adapter for WebLogic Integration 2.1."

3 Installing and Configuring the BEA TCP/IP Message Router

To enable PeopleSoft 8 to send an XML event document to the WebLogic environment using TC/PIP, you must load the required software on the PeopleSoft 8 system and configure the PeopleSoft 8 application gateway. This section describes how to do so, and includes the following topics:

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

Installing BEA TCP/IP Handler for PeopleSoft Release 8.1

This topic provides instructions for installing the BEA TCP/IP Handler for PeopleSoft release 8.1. It includes the following steps:

- Step 1. Extract and Install the BEA TCP/IP Handler
- Step 2. Configure the BEA TCP/IP Handler on the PeopleSoft 8 Gateway Server

Step 1. Extract and Install the BEA TCP/IP Handler

The BEA TCP/IP Handler software for PeopleSoft release 8.1 is in the TCPIPHandler81.jar file and is located within the BEA_PEOPLESOFT_1_0.ear archive. To extract the .jar file from the .ear archive, use WinZip or a similar extraction tool. Once extracted, you must port the file to the platform where the PeopleSoft 8 gateway Web server is located, place it in the servletclasses directory under the PeopleSoft Web server, and extract the embedded class files.

The following example illustrates an installation on a UNIX SUN/Solaris machine where the PeopleSoft 8 application server is running:

- 1. Log on to the UNIX machine with the proper PeopleSoft 8 ID and permissions.
- 2. Navigate to the PeopleSoft 8 Web servlets directory. This may vary between releases and may change according to you r Web Server, but typically it is:

```
$PS_HOME/webserv/servletclasses
```

3. Issue the jar command to extract the class files required by PeopleSoft.

This is a sample command:

```
jar -xvf /tmp/TCPIPHandler81.jar
```

The following output would be displayed:

```
$ jar -xvf /tmp/TCPIPHandler81.jar
    created: META-INF/
extracted: META-INF/MANIFEST.MF
extracted: psft/pt8/tcphandler/TCPIPHandler81$Entry.class
extracted:
psft/pt8/tcphandler/TCPIPHandler81$HandlerEntry.class
extracted:
psft/pt8/tcphandler/TCPIPHandler81$PublicationHandler.class
extracted: psft/pt8/tcphandler/TCPIPHandler81.class
extracted: psft/pt8/tcphandler/TCPIPHandler81.class$
```

Notice that the files are placed in a new directory, tcphandler, under the psft/pt8 directory structure.

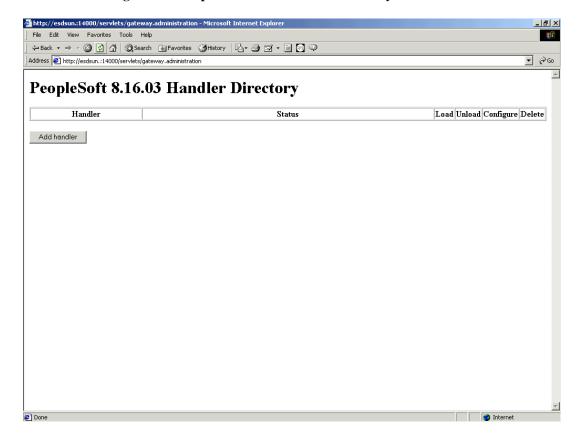
Step 2. Configure the BEA TCP/IP Handler on the PeopleSoft 8 Gateway Server

To configure the BEA TCP/IP Handler software, perform the following steps:

1. Launch the PeopleSoft 8 configuration servlet interface (server gateway). This is typically under:

http://serverURL/servlets/gateway.administration

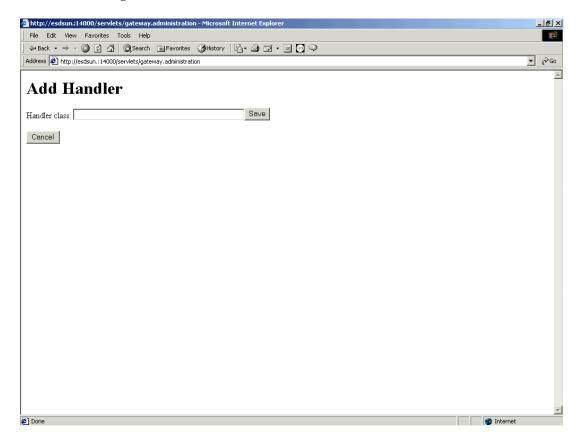
Figure 3-1 PeopleSoft 8.16.03 Handler Directory Window



2. Click the Add handler button.

The Add Handler window opens.

Figure 3-2 Add Handler Window



- 3. In the Handler class field, enter the name of the BEA PeopleSoft 8 handler class: psft.pt8.tcphandler.TCPIPHandler81
- 4. Click Save. The Handler displays the following status window:

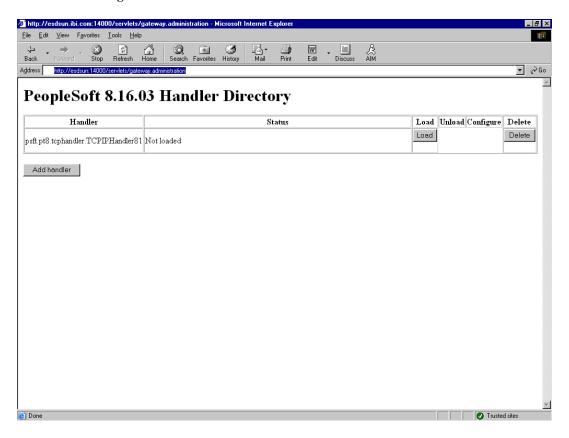


Figure 3-3 Handler Status Window

The handler appears in the Handler directory list, but the Status reads Not loaded.

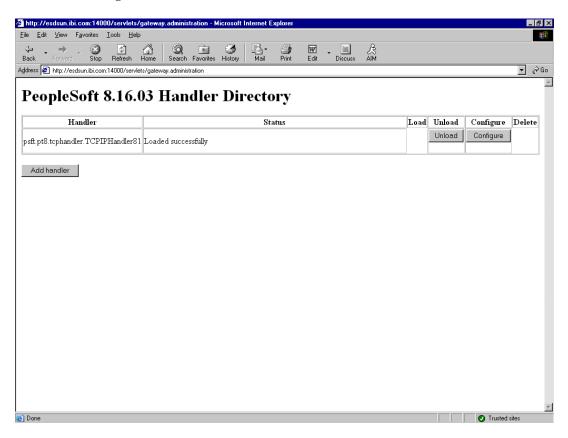
5. Click Load to activate that handler. Once loaded, the gateway servlet loads the specified Java class in memory after searching the machine Classpath.

The Status column should read Loaded successfully. If you receive a ClassNotFoundException error as the status, the gateway servlet did not find the particular Java class you indicated. Make sure that the Classpath is correct. If necessary, you may need to restart your Web server.

During production, you may want to temporarily deactivate a handler. To deactivate a handler, click the Unload button. This removes the particular handler from the list of active registered handlers to which the gateway servlet can publish messages.

If the .jar file was placed in the correct PeopleSoft 8 application directory on the correct application server, the following screen opens:

Figure 3-4 Load Handler Window



6. Click the Configure button to switch to the lookup table view.

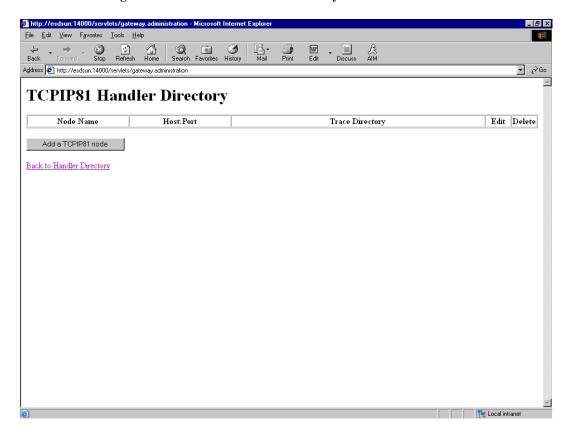


Figure 3-5 TCPIP81 Handler Directory Window

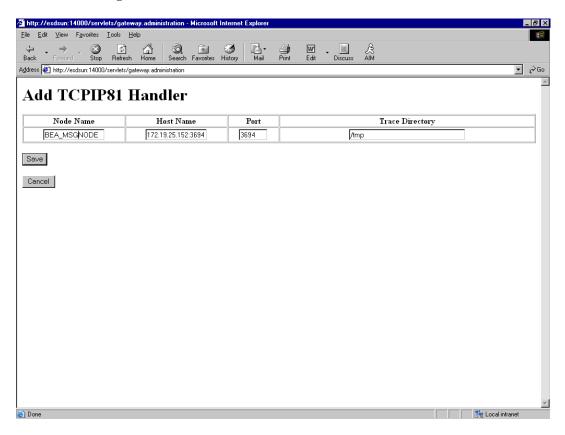
7. Click the Add a TCPIP81 node button.

The TCPIP81 Handler window opens.

- 8. In the Node Name field, enter the name of the node you want to add, such as ${\tt BEA_MSGNODE}.$
- 9. In the Host Name field, enter the name of the host machine of the WebLogic Integration server.
- 10. In the Port field, enter the TCP port that was entered during the adding of the application view event.

11. In the Trace Directory field, enter the directory where the trace file should be created in case the handler experiences some problem with the message delivery.





12. Click Save. The BEA Handler Directory window opens.

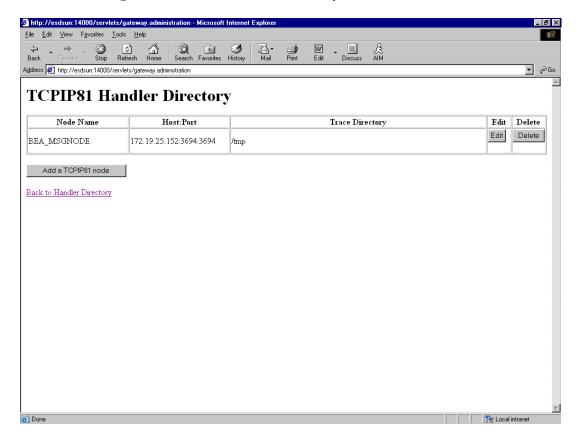


Figure 3-7 TCPIP81 Handler Directory Window With Node

The BEA TCP/IP Handler configuration is now complete.

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

The BEA TCP/IP Target Connector software for PeopleSoft release 8.4 is in the TCPIPTARGET84.class file and is located within the BEA_PEOPLESOFT_1_0.ear archive. To extract the .class file from the .ear archive, use WinZip or a similar extraction program. Once extracted, you must port the file to the platform where the PeopleSoft 8 gateway Web server is located and place it in the PS server target connector directory. This will be located in different places depending on your web server. Typically, these will be:

■ For WebLogic,

c:\bea\wlserver6.1\config\peoplesoft\applications\PSIGW\Web-inf
\classes\com\peoplesoft\pt\integrationgateway\targetconnector

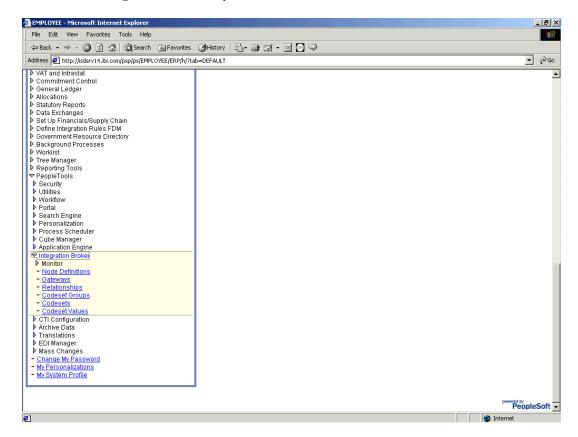
■ For WebSphere,

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

How to Create a Gateway

1. Click PeopleTools \rightarrow Integration Broker \rightarrow Gateways.

Figure 3-8 Gateways Window



Find the Local Gateway and enter the URL in the Gateway URL field.This URL is usually set during installation.

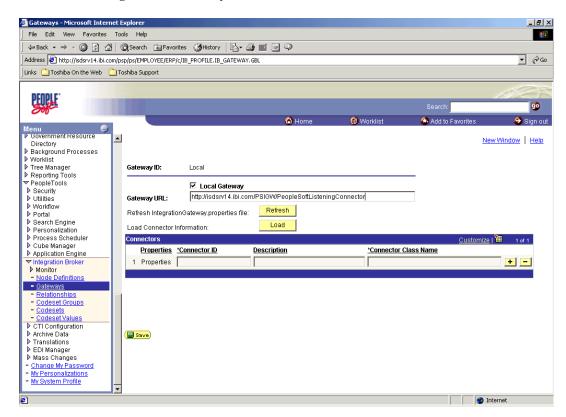


Figure 3-9 Gateway URL Window

3. Click the Load button. The Connector Properties are displayed. These are predefined during the Integration Broker installation.

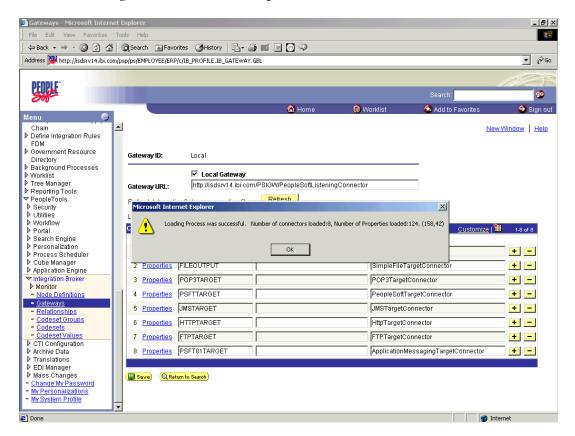


Figure 3-10 Connector Properties Window

- 4. Click OK. The TCPIPTARGET84 connector is included in the Connectors list.
- 5. Enter the Gateway URL. The following window opens.

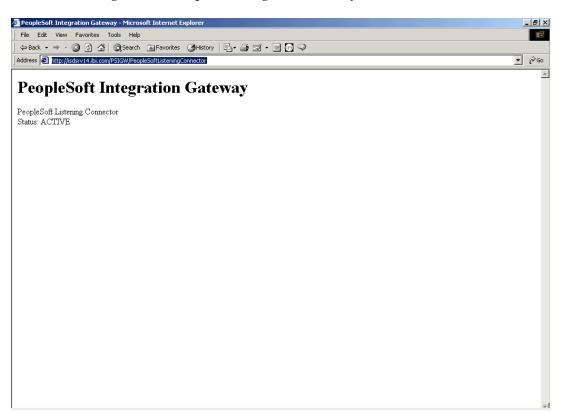


Figure 3-11 PeopleSoft Integration Gateway Window

The Gateway is now configured.