

SUN SEEBEYOND

eWAY™ ADAPTER FOR PEOPLESOFT USER'S GUIDE

Release 5.1.1



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Introduction

This document describes how to install, configure, and implement the Sun SeeBeyond eWay™ Adapter for PeopleSoft (also called the PeopleSoft eWay throughout this document) in a typical eGate™ environment.

This chapter provides a brief overview the PeopleSoft eWay, as well as a introduction to this user's guide.

What's in This Chapter

- [About PeopleSoft](#) on page 7
- [About the PeopleSoft eWay](#) on page 7
- [What's New in This Release](#) on page 8
- [What's in This Document](#) on page 8
- [Sun Microsystems, Inc. Web Site](#) on page 9

1.1 About PeopleSoft

PeopleSoft's Enterprise Resource Planning (ERP) software is a full-function application package that offers business applications for financials, human resources, customer relations, supply chain management, materials management, and business analytics. PeopleSoft provides what it calls "pure-Internet" architecture: Web-based applications designed to streamline a company's operations by integrating systems to effectively connect it's various departments, customers, and suppliers.

1.2 About the PeopleSoft eWay

The Sun Java Composite Application Platform Suite and the PeopleSoft eWay enable PeopleSoft to easily and transparently integrate with legacy systems, enterprise applications, and other platforms. The Sun SeeBeyond eWay™ Adapter for PeopleSoft exposes JCA and Web services compliant interfaces for the purpose of application and business integration.

1.3 What's New in This Release

The Sun SeeBeyond eWay™ Adapter for PeopleSoft version 5.1.1 includes the following changes and new features:

- **Version Control:** An enhanced version control system allows you to effectively manage changes to the eWay components.
- **Multiple Drag-and-Drop Component Mapping from the Deployment Editor:** The Deployment Editor now allows you to select multiple components from the Editor's component pane, and drop them into your Environment component.
- **Support to read configuration parameters from LDAP at runtime.**
- **Connectivity Map Generator:** Generates and links your Project's Connectivity Map components using a Collaboration or Business Process.

Many of these features are documented further in the *Sun SeeBeyond eGate™ Integrator User's Guide* or the *Sun SeeBeyond eGate™ Integrator System Administrator Guide*.

1.4 What's in This Document

This guide contains the following information:

- **Chapter 1 "Introduction" on page 7** provides an overview of the PeopleSoft eWay and the PeopleSoft eWay User's Guide.
- **Chapter 2 "Installing the PeopleSoft eWay" on page 11** provides the supported operating systems and system requirements for the PeopleSoft eWay. It also describes how to install the PeopleSoft eWay, its documentation, and its sample Projects.
- **Chapter 3 "Configuring the eWay Properties" on page 19** describes the process for configuring the PeopleSoft eWay to run in your environment.
- **Chapter 4 "Configuring the PeopleSoft Server for the PeopleSoft eWay Projects" on page 36** describes how to configure the PeopleSoft server to work with the PeopleSoft eWay.
- **Chapter 5 "Using the PeopleSoft eWay with eInsight" on page 62** describes how to use the PeopleSoft eWay with the eInsight Business Process Manager and the Web Services interface.
- **Chapter 6 "Using the PeopleSoft eWay with Java Collaborations" on page 80** describes how to implement a PeopleSoft eWay Project that uses Java Collaboration Definitions to provide the business logic.
- **Appendix A "Generating DTDs from PeopleSoft 8.13" on page 101** describes how to generate DTDs from PeopleSoft 8.13, and use these DTDs to create the OTDs used to create the business logic for the PeopleSoft eWay.

1.4.1. Scope of the Document

This user's guide provides a description of the Sun SeeBeyond eWay™ Adapter for PeopleSoft. It includes directions for installing the eWay, configuring the eWay properties, and implementing the eWay's sample Projects. This document is also intended as a reference guide, listing available properties, functions, and considerations.

1.4.2 Intended Audience

This guide is intended for experienced computer users who have the responsibility of helping to set up and maintain a fully functioning Java Composite Application Platform Suite system. This person must also understand any operating systems on which the Java Composite Application Platform Suite will be installed (Windows and UNIX), and must be thoroughly familiar with Windows-style GUI operations.

1.4.3 Text Conventions

The following conventions are observed throughout this document.

Table 1 Text Conventions

Text Convention	Used For	Examples
Bold	Names of buttons, files, icons, parameters, variables, methods, menus, and objects	▪ Click OK. ▪ On the File menu, click Exit. ▪ Select the eGate.sar file.
Monospaced	Command line arguments, code samples; variables are shown in <i>bold italic</i>	<code>java -jar <i>filename</i>.jar</code>
Blue bold	Hypertext links within document	See Text Conventions on page 9
<u>Blue underlined</u>	Hypertext links for Web addresses (URLs) or email addresses	http://www.sun.com

1.5 Sun Microsystems, Inc. Web Site

The Sun Microsystems web site is your best source for up-to-the-minute product news and technical support information. The site's URL is:

<http://www.sun.com>

1.6 Documentation Feedback

We appreciate your feedback. Please send any comments or suggestions regarding this document to:

CAPS_docsfeedback@sun.com

Installing the PeopleSoft eWay

This Chapter describes how to install the Sun SeeBeyond eWay™ Adapter for PeopleSoft, as well as the accompanying documentation and sample Projects.

What's in This Chapter

- [PeopleSoft eWay System Requirements](#) on page 11
- [Installing the PeopleSoft eWay](#) on page 12
- [Installing the HTTP Publication Handler for PeopleTools 8.13](#) on page 15
- [Updating the eGate API Kit](#) on page 16
- [ICAN 5.0 Project Migration Procedures](#) on page 16

2.1 PeopleSoft eWay System Requirements

The PeopleSoft eWay Readme contains the latest information on:

- Supported Operating Systems
- System Requirements
- External System Requirements
- The PeopleSoft eWay Readme is uploaded with the eWay's documentation file (PeopleSofteWayDocs.sar) and can be accessed from the Documentation tab of the Sun Java Integrator Suite Installer. Refer to the PeopleSoft eWay Readme for the latest requirements before installing the PeopleSoft eWay.

HTTP and JMS Support

The table below shows the support for inbound and outbound Business Processes and Collaborations depending on what version of PeopleSoft is used. The PeopleSoft eWay does not support JMS inbound and outbound Business Processes and Collaborations for PeopleTools 8.13. These are supported for PeopleTools 8.42.

Table 2 JMS and HTTP Support—PeopleTools 8.13

	HTTP inbound	HTTP outbound	JMS inbound	JMS outbound
eInsight	yes	yes	no	no

Table 2 JMS and HTTP Support—PeopleTools 8.13

	HTTP inbound	HTTP outbound	JMS inbound	JMS outbound
eGate only	yes	yes	no	no

Table 3 JMS and HTTP Support—PeopleTools 8.42

	HTTP inbound	HTTP outbound	JMS inbound	JMS outbound
eInsight	yes	yes	yes	yes
eGate only	yes	yes	yes	yes

2.2 Installing the PeopleSoft eWay

The Sun Java Composite Application Platform Suite Installer, a web-based application, is used to select and upload eWays and add-on files during the installation process. The following section describes how to install the components required for this eWay.

Note: When the Repository is running on a UNIX operating system, the eWays are loaded from the Enterprise Manager running on a Windows platform connected to the Repository server using Internet Explorer.

2.2.1 Installing the PeopleSoft eWay on an eGate Supported System

Follow the directions for installing the Sun Java Composite Application Platform Suite in the *Sun Java Composite Application Platform Suite Installation Guide*. After you have installed eGate or eInsight, do the following:

- 1 From the Sun Java Composite Application Platform Suite Installer's **Select Sun Java Composite Application Platform Suite Products to Install** table (Administration tab), expand the **eWay** option.
- 2 Select the products for your Sun Java Composite Application Platform Suite and include the following:

- ♦ **FileeWay** (the File eWay is used by most sample Projects)
- ♦ **PeopleSofteWay**

To upload the PeopleSoft eWay User's Guide, Help file, Javadoc, Readme, and sample Projects, select the following:

- ♦ **PeopleSofteWayDocs**
- 3 Once you have selected all of your products, click **Next** in the top-right or bottom-right corner of the **Select Sun Java Composite Application Platform Suite Products to Install** box.
 - 4 From the **Selecting Files to Install** box, locate and select your first product's SAR file. Once you have selected the SAR file, click **Next**. Your next selected product

appears. Follow this procedure for each of your products. The **Installation Status** window appears and installation begins after the last SAR file has been selected.

- 5 Once your product's installation is finished, continue installing the Suite as instructed in the *Sun Java Composite Application Platform Suite Installation Guide*.

Adding the eWay to an Existing Suite Installation

If you are adding the eWay to an existing Sun Java Composite Application Platform Suite installation, do the following:

- 1 Complete steps 1 through 4 above.
- 2 Once your product's installation is finished, open the Enterprise Designer and select **Update Center** from the Tools menu. The **Update Center Wizard** appears.
- 3 For Step 1 of the wizard, simply click **Next**.
- 4 For Step 2 of the wizard, click the **Add All** button to move all installable files to the **Include in Install** field, then click **Next**.
- 5 For Step 3 of the wizard, wait for the modules to download, then click **Next**.
- 6 The wizard's Step 4 window displays the installed modules. Review the installed modules and click **Finish**.
- 7 When prompted, restart the IDE (Integrated Development Environment) to complete the installation.

2.2.2 Installing eWay Enterprise Manager plug-ins

The **Sun SeeBeyond Enterprise Manager** is a Web-based interface that allows you to monitor and manage your Java Integration Suite applications. The Enterprise Manager requires an eWay specific "plug-in" for each of your installed eWays. These plug-ins enable the Enterprise Manager to target specific alert codes for each eWay type, as well as to start and stop the inbound eWays.

The *Sun Java Composite Application Platform Suite Installation Guide* describes how to install the Sun SeeBeyond Enterprise Manager. The *Sun SeeBeyond eGate™ Integrator System Administration Guide* describes how to monitor servers, Services, logs, and alerts using the Sun SeeBeyond Enterprise Manager and the command-line client.

The **eWay Enterprise Manager plug-ins** are available from the **List of Components to Download** under the Sun Java Composite Application Platform Suite Installer's **DOWNLOADS** tab.

There are two ways to add the eWay Enterprise Manager plug-ins:

- 1 From the Enterprise Manager:
 - A From the **Enterprise Manager's** Explorer toolbar, click the **Configuration** icon.
 - B Click the **Web Applications Manager** tab, go to the **Auto-Install from Repository** tab, and connect to your Repository.

- C Select the application plug-ins you require. Be sure to include the **eWays Base Enterprise Manager Plug-In**. Click **Install**. The application plug-ins are installed and deployed.
- 2 From the **Sun Java Composite Application Platform Suite Installer**:
 - A From the **Sun Java Composite Application Platform Suite Installer's Download** tab, select the Plug-Ins you require and save them to a temporary directory.
 - B Log onto the **Sun SeeBeyond Enterprise Manager**. From the **Enterprise Manager's** Explorer toolbar, click the **Configuration** icon.
 - C Click the **Web Applications Manager** tab and go to the **Manage Applications** tab.
 - D Browse to and select the WAR file for the application plug-in that you downloaded, and click **Deploy**. The plug-in is installed and deployed.

PeopleSoft eWay Alert Codes

You can view and delete alerts using the Enterprise Manager. An alert is triggered when a specified condition occurs in a Project component. The purpose of the alert is to warn the administrator or user that a condition has occurred.

To View the eWay Alert Codes

- 1 Add the eWay Enterprise Manager plug-in for this eWay.
- 2 From the Enterprise Manager's **Explorer** toolbar, click the **Configuration** icon.
- 3 Click the **Web Applications Manager** tab and go to the **Manage Alert Codes** tab. Your installed alert codes are displayed under the **Results** section. If your eWay alert codes are not available displayed under **Results**, do the following
 - A From the **Install New Alert Codes** section, browse to and select the eWay alert properties file for the application plug-in that you added. The alert properties files are located in the **alertcodes** folder of your Sun Java Composite Application Platform Suite installation directory.
 - B Click **Deploy**. The available alert codes for your application are displayed under **Results**. A listing of available this eWay's alert codes is displayed in Table 4 for PeopleSoft Client, and [Table 5 on page 15](#) for PeopleSoft Server.

Table 4 PeopleSoft Client eWay Alert Codes

Alert Code	Description	User Actions
PSOFTHTTPCLIENTEWAY-CONFIG-FAILED000001	Configuration error encountered for Peoplesoft HTTP Client eWay.	Verify eWay Environment configuration properties are valid.
PSOFTHTTPCLIENTEWAY-CONNECT-FAILED000002	Failed to prepare the Peoplesoft HTTP Client agent for establishing the connection to the HTTP server.	Verify that the PeopleSoft server is running.

Alert Code	Description	User Actions
PSOFTHTTPCLIENTEWAY-POST-FAILED000005	Failed on HTTP POST request to URL {0}.	- Verify eWay Environment configuration properties are valid. - Verify that the PeopleSoft server is running.

Table 5 PeopleSoft Server eWay Alert Codes

Alert Code	Description	User Actions
PSOFTHTTPSERVEREWAY-REQUEST-FAILED000001	Failed to process the POST or GET request.	Message cannot be processed. Verify that your message content is compatible with PeopleSoft.

An alert code is a warning that an error has occurred. It is not a diagnostic. The user actions noted above are just some possible corrective measures you may take. Refer to the log files for more information. For information on managing and monitoring alert codes and logs, see the *Sun SeeBeyond eGate Integrator System Administration Guide*.

2.2.3 After Installation

Once you install the eWay, it must then be incorporated into a Project before it can perform its intended functions. See the *Sun SeeBeyond eGate™ Integrator User's Guide* for more information on incorporating the eWay into an eGate Project.

2.3 Installing the HTTP Publication Handler for PeopleTools 8.13

If you are using PeopleTools 8.13, you must install the HTTP Publication Handler as described in this section.

After the installation, configure the subscription handler as described in [“Adding the HTTP publication handler” on page 59](#).

Installing the HTTP Publication Handler On Windows

- 1 Stop the web server (Apache or WebLogic).
- 2 Stop the PeopleSoft 8 Application Server for the appropriate domain.
- 3 Extract the **com.stc.eways.psofthttphandler.jar** file from the **PeopleSofteWay.sar**.
- 4 For Apache, copy the JAR file to the **servlets** subdirectory under the servlet engine installation directory.
- 5 For WebLogic, copy the JAR file to the **servletclasses** subdirectory under the **weblogic\myserver** directory in the PeopleSoft domain installation; for example:

```
\weblogic\myserver\servletclasses
```

- 6 Extract the contents of the JAR file.
- 7 Start (boot) the Application Server for the appropriate domain.
- 8 Start the web server.

Installing the HTTP Publication Handler on UNIX

- 1 Stop the Web server (Apache or WebLogic).
- 2 Stop the PeopleSoft 8 Application Server for the appropriate domain.
- 3 Extract the **com.stc.eways.psofthttphandler.jar** file from the **PeopleSofteWay.sar**.
- 4 For Apache, copy the JAR file to the **servlets** subdirectory under the **webserv** directory in the PeopleSoft domain installation; for example:

```
/psoft/FDM80/webserv/servlets
```

- 5 For WebLogic, copy the JAR file to the **servletclasses** subdirectory under the **weblogic/myserver** directory in the PeopleSoft domain installation; for example:

```
/do1/psoft/fdm80/weblogic/myserver/servletclasses
```

- 6 Extract the contents of the JAR file with the following command:

```
jar -tf com.stc.eways.psofthttphandler.jar
```

- 7 Start (boot) the Application Server for the appropriate domain.
- 8 Start the Web server.

2.4 Updating the eGate API Kit

The eGate API Kit provides an interface for PeopleSoft client applications to exchange data with eGate Projects via the Sun Java Composite Application Platform Suite JMS. To update the Sun Java Composite Application Platform Suite and the PeopleSoft eWay to use the 5.1.1 eGate API Kit, install the 5.1.1 eGate API Kit as instructed by the *Sun SeeBeyond eGate API Kit Developer's Guide*.

2.5 ICAN 5.0 Project Migration Procedures

This section describes how to transfer your current ICAN 5.0 Projects to Sun Java Composite Application Platform Suite, version 5.1.1. Only Projects developed on ICAN 5.0.2 and above can be migrated successfully to the Sun Java Composite Application Platform Suite. To migrate your ICAN 5.0 Projects, do the following:

Export the Project

- 1 Before you export your Projects, save your current ICAN 5.0 Projects to your Repository.

- 2 From the Project Explorer, right-click your Repository and select **Export** from the shortcut menu. The Export Manager appears.
- 3 From the **Select Projects from the list field** of the Export Manager, select one or more Projects that you want to export and move them to the **Selected Projects** field by clicking the **Add to Select Items** (arrow) button, or click **All** to include all of your Projects.
- 4 In the same manner, from the **Select Environments from the list field**, select the Environments that you want to export and move them to the **Selected Environments** field by clicking the **Add to Select Items** (arrow) button, or click **All** to include all of your Environments.
- 5 Browse to select a destination for your Project ZIP file and enter a name for your Project in the **ZIP file** field.
- 6 Click **Export** to create the Project ZIP file in the selected destination.

Install Sun Java Composite Application Platform Suite

- 7 Install Sun Java Composite Application Platform Suite, including all eWays, libraries, and other components used by your ICAN 5.0 Projects.
- 8 Start the Sun SeeBeyond Enterprise Designer.

Import the Project

- 9 From the Enterprise Designer's Project Explorer, right-click the Repository and select **Import Project** from the shortcut menu. The Import Manager appears.
- 10 Browse to and select your exported Project file.
- 11 Click **Import**. A warning message, "**Missing APIs from Target Repository**," may appear at this time. This occurs because various product APIs were installed on the ICAN 5.0 Repository, when the Project was created, that are not installed on the Sun Java Composite Application Platform Suite Repository. These APIs may or may not apply to your Projects. You can ignore this message if you have already installed all of the components that correspond to your Projects. Click **Continue** to resume the Project import.
- 12 Close the Import Manager after the Project is successfully imported.

Deploy the Project

- 13 You must create a new Deployment Profile for each of your imported Projects. When you export a Project, the Project's components are automatically "*checked in*" to Version Control to write-protect each component. These protected components appear in the Explorer tree with a red padlock in the bottom-left corner of each icon. Before you can deploy the imported Project, the Project's components must first be "*checked out*" of Version Control from both the Project Explorer and the Environment Explorer. To "*check out*" all of the Project's components, do the following:
 - A From the Project Explorer, right-click the Project and select **Version Control > Check Out** from the shortcut menu. The Version Control - Check Out dialog box appears.
 - B Select **Recurse Project** to specify all components, and click **Check Out**.

- C Select the Environment Explorer tab, and from the Environment Explorer, right-click the Project's Environment and select **Version Control > Check Out** from the shortcut menu.
 - D Select **Recurse Environment** to specify all components, and click **Check Out**.
- 14 If your imported Projects include File eWays, they must be reconfigured in your Environment prior to deploying the Project. To reconfigure your File eWays, do the following:
 - A The Environment File External System properties can now accommodate both inbound and outbound eWays. If your previous Environment includes both inbound and outbound File External Systems, delete one of these (for example, the outbound File External System).
 - B From the Environment Explorer tree, right-click your remaining File External System, and select **Properties** from the shortcut menu. The Properties Editor appears.
 - C The Directory property has been relocated from the Connectivity Map Properties to the Environment Properties. Set the inbound and outbound Directory values, and click **OK**.
- 15 Deploy your Projects.

Note: *Only Projects developed on 5.0.2 and above can be imported and migrated successfully into the Java Integration Suite.*

Configuring the eWay Properties

This chapter describes how to configure the PeopleSoft eWay properties, and provides a list of the eWay properties and their required values.

What's in This Chapter

- [Configuring the PeopleSoft eWay](#) on page 19
- [PeopleSoft HTTP Client Connectivity Map Properties](#) on page 23
- [PeopleSoft HTTP Server Connectivity Map Properties](#) on page 24
- [PeopleSoft HTTP Client eWay Environment Properties](#) on page 25

3.1 Configuring the PeopleSoft eWay

The PeopleSoft eWay includes two component eWays:

- **PeopleSoft HTTP Client eWay:** The PeopleSoft HTTP Client eWay includes both Connectivity Map and Environment properties and must be configured from both locations.
- **PeopleSoft HTTP Server eWay:** The PeopleSoft HTTP Server eWay includes only Connectivity Map properties. There are no Environment properties.

Once a component eWays and the Environment (with the external systems) have been created, the properties can be modified for your specific system.

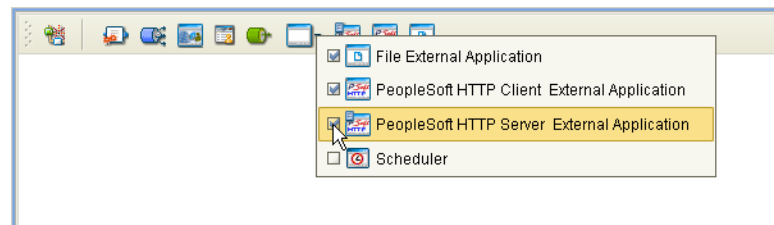
3.1.1 Selecting PeopleSoft HTTP Client or PeopleSoft HTTP Server as the External Application

To create a **PeopleSoft HTTP Client eWay** you must first create a PeopleSoft HTTP Client External Application in your Connectivity Map. PeopleSoft HTTP Client eWays are located between a PeopleSoft HTTP Client External Application and a Service. Services are containers for Java Collaborations, Business Processes, eTL processes, and so forth.

To create a PeopleSoft External Application

- 1 From the Connectivity Map toolbar, click the External Applications icon.

Figure 1 External Applications Selection Menu

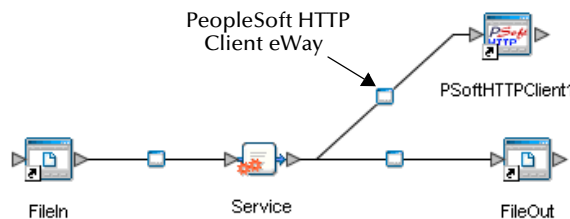


- 2 Select the **PeopleSoft HTTP Client External Application** from the menu (see Figure 1). The selected PeopleSoft HTTP Client External Application icon appears on the Connectivity Map toolbar. The PeopleSoft HTTP Server External Application is similarly created.

3.1.2 Accessing the eWay Properties

When you connect an External Application to a Collaboration, the Enterprise Designer automatically assigns the appropriate eWay to the link (see Figure 2). Each eWay is supplied with a template containing its default configuration properties, accessible from the Connectivity Map and/or the Environment Explorer tree.

Figure 2 Connectivity Map with Components



Modifying the eWay Connectivity Map Properties

The properties accessed from the Connectivity Map commonly apply to a specific component eWay, and may vary from other eWays (of the same type) in the Project.

- 1 From the Connectivity Map, double click the eWay icon located in the link between the associated External Application and the Service.
- 2 The eWay **Properties Editor** opens displaying the eWay's default Connectivity Map properties. Make any necessary modifications and click **OK** to save the settings.

Modifying the eWay Environment Properties

These properties (Environment) are commonly global, applying to all eWays (of the same type) in the Project. The saved properties are shared by all eWays for the specified External System.

- 1 From the Environment Explorer tree, right-click the Sun Java System AppServer External System. Select **Properties** from the shortcut menu. The **Properties Editor** opens with the Sun AppServer eWay Environment properties.

- 2 Make any necessary modifications to the Environment properties, and click **OK** to save the settings.

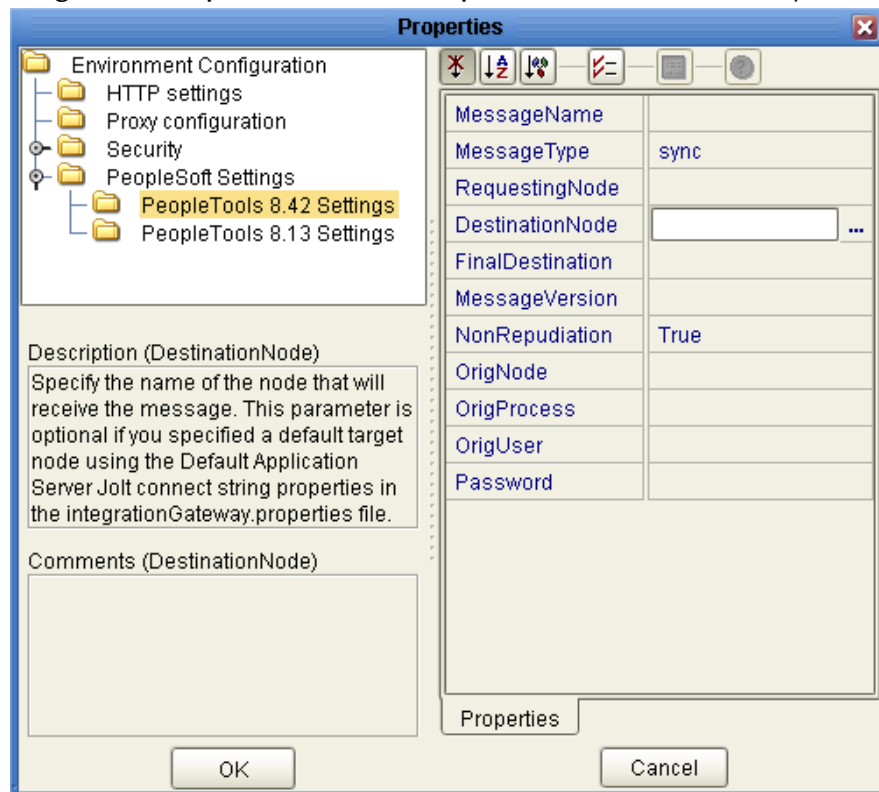
3.1.3 Using the Properties Editor

The Properties Editor displays the eWay's configuration template and allows you to modify and save an eWays default property configuration.

Modifying the Default eWay Properties

- 1 From the upper-left pane of the Properties Editor, select a subdirectory of the Properties tree. The parameters contained in that subdirectory are now displayed in the right pane of the Properties Editor. For example, select the **PeopleSoft Settings > PeopleTools 8.42 Settings** subdirectory in the Properties tree. The **PeopleTools 8.42 Settings** section's editable parameters are now displayed in the Properties pane, as shown in Figure 3

Figure 3 Properties Editor - PeopleSoft HTTP Client eWay



- 2 Click on any property field to make it editable. For example, click on the **DestinationNode** property to edit the setting. For this property, you can type the value into the field. If a property value requires is true/false or multiple choice, the field reveals a submenu of property options.

Click on the ellipsis (. . .) in the properties field (displayed when you click on the field). A separate configuration dialog box appears. This is helpful for large values that cannot be fully displayed in the parameter's property field. Enter the property value in the dialog box and click **OK**. The value now appears in the property field.

- 3 A description of each parameter is displayed in the **Description** pane when that parameter is selected. This provides a short description of the property and the required values.
- 4 The **Comments** pane provides an log area to enter any information about the currently selected parameter that you may want to save. Your entries are saved automatically for future referral.
- 5 Click **OK** to close the Properties Editor and save the changes.

3.2 PeopleSoft eWay Properties

The PeopleSoft eWay properties are organized into the following sections:

- [PeopleSoft HTTP Client Connectivity Map Properties](#) on page 23
- [PeopleSoft HTTP Server Connectivity Map Properties](#) on page 24
- [PeopleSoft HTTP Client Connectivity Map Properties](#) on page 23

3.3 PeopleSoft HTTP Client Connectivity Map Properties

The PeopleSoft HTTP Client eWay properties, accessed from the Connectivity Map, are organized into the following sections:

- [HTTP Settings](#) on page 23

Note: *SSL and proxy configurations (HTTPS) are not supported in this release.*

3.3.1 HTTP Settings

The **HTTP Settings** section of the PeopleSoft HTTP Client eWay Connectivity Map properties contains the top-level parameters displayed in Table 6.

Table 6 Connectivity Map - HTTP Settings

Name	Description	Required Value
Allow cookies	Specifies whether cookies sent from servers are allowed to be stored and sent on subsequent requests. If cookies are not allowed, sessions are not supported.	True or False . True indicates that cookies sent from the server are allowed. False indicates that Cookies are not accepted. The configured default is True .
Accept type	Specifies the default Accept-Type header value included when a request is sent to the server; for example, text/html, text/plain, text/xml.	An Accept-type header value. The configured default is text/xml .

Caution: *Calling the clear() method in the Collaboration Editor clears all HTTP properties. Once the properties have been cleared, you must manually rebuild the header and payload sections of the Request message in the Transformation Designer.*

3.4 PeopleSoft HTTP Server Connectivity Map Properties

The PeopleSoft HTTP Server eWay properties, accessed from the Connectivity Map, are organized into the following sections:

- [HTTP Server External Configuration](#) on page 24

Note: The PeopleSoft HTTP Server eWay does not possess Environment properties.

3.4.1 HTTP Server External Configuration

The HTTP Server External Configuration section of the PeopleSoft HTTP Server eWay Connectivity Map properties contains the top-level parameters displayed in Table 6.

Table 7 Connectivity Map - HTTP Server External Configuration

Name	Description	Required Value
servlet-url	Specifies the last path component of the HTTP server servlet URL. This URL is the one the client uses to access the server. The property value must be the servlet name, for example: HttpServerServlet. The total URL is made up of several components, including the Project deployment name and the value entered for this property. The servlet name must match the Primary URL property on the PeopleSoft server as described in Configuring the Connector to Post to eGate using HTTP on page 41. For example, a complete servlet URL appears as follows: <pre>http://<yourmachinename>:18001/<yourdeploymentname>_servlet_<servletname>/<servletname></pre> Where: ♦ yourmachinename is the name of the machine where your current Logical Host is running. ♦ 18001 is the port number specified as the connector port in the Integration Server properties (IS Configurations > Sections > Web Container Configuration > Web Server Configurations > Default Web Server > Connector Port). ♦ yourdeploymentname is the name of your current Project's Deployment Profile concatenated with _servlet. ♦ servletname is the name of the PeopleSoft servlet. This is the value needed for this property. Note: The servlet-url parameter does not support LDAP values.	Enter the name of the PeopleSoft Servlet. This is the last path component of the HTTP server servlet URL.

3.5 PeopleSoft HTTP Client eWay Environment Properties

The PeopleSoft HTTP Client eWay properties, accessed from the Environment Explorer tree, are organized into the following sections:

- [HTTP Settings](#) on page 25
- [Proxy configuration](#) on page 27
- [Security > Authentication](#) on page 28
- [Security > SSL](#) on page 29
- [PeopleSoft Settings](#) on page 31
- [PeopleSoft Settings > PeopleTools 8.42 Settings](#) on page 32
- [PeopleSoft Settings > PeopleTools 8.13 Settings](#) on page 34

3.5.1 HTTP Settings

The **HTTP Settings** section of the PeopleSoft HTTP Client eWay Environment properties contains the top-level parameters displayed in Table 8.

Table 8 Environment - HTTP Settings

Name	Description	Required Value
URL	Specifies the default URL used to establishing an HTTP connection. eGate uses the PeopleSoft eWay to send an HTTP post request to PeopleSoft's HTTP listening connector. The PeopleSoft HTTP listening connector monitors specific ports for incoming HTTP messages. It is implemented as a Java HttpServlet object running inside WebLogic's application server. For PeopleTools 8.13, use the following: ▪ Apache: <code>http://PSFTHOST/servlets/psft.pt8.gateway.GatewayServlet</code> ▪ WebLogic: <code>http://PSFTHOST/servlets/gateway</code> ▪ For PeopleTools 8.42, use: <code>http://PSFTHOST:90/PSIGW/HttpListeningConnector</code> where <i>PSFTHOST</i> is the PeopleSoft server host name. You can verify the 8.42 HTTP listening connector servlet by verifying the web.xml as described in "Verifying the HTTP Listening Connector" on page 45. Note: The URL parameter does not support LDAP values.	The default URL used for establishing an HTTP connection.

Table 8 Environment - HTTP Settings (Continued)

Name	Description	Required Value
Content type	Specifies the default Content-Type header value to include when sending a request to the server.	The default Content-Type header value. The configured default is: text/xml; charset=iso_8859-1
Encoding	Specifies the default encoding used when reading or writing textual data.	The default encoding used when reading or writing textual data. The configured default is ASCII .

3.5.2 Proxy configuration

The **Proxy configuration** section of the PeopleSoft HTTP Client eWay Environment properties contains the top-level parameters displayed in Table 9.

Table 9 Environment - Proxy configuration

Name	Description	Required Value
Proxy host	Specifies the hostname of the HTTP proxy server.	The hostname (string) of the HTTP proxy server.
Proxy port	Specifies the port of the HTTP proxy host.	The port number of the HTTP proxy server. The configured default is 8080 .
Proxy username	Specifies the username for accessing the HTTP proxy server.	A user name (login) for the HTTP proxy server.
Proxy password	Specifies the password required for accessing the HTTP proxy host.	A password for the HTTP proxy server.

3.5.3 Security > Authentication

The **Security > Authentication** section of the PeopleSoft HTTP Client eWay Environment properties contains the top-level parameters displayed in Table 10.

Table 10 Environment - Security > Authentication

Name	Description	Required Value
Http username	Specifies the username used to authenticate the Web site specified by the URL.	A user name with access permission.
Http password	Specifies the password used to authenticate the Web site specified by the URL.	A password linked to the user name.

3.5.4 Security > SSL

The **Security > SSL** section of the PeopleSoft HTTP Client eWay Environment properties contains the top-level parameters displayed in Table 11.

Note: SSL is not currently supported for the PeopleSoft eWay. This section is reserved for future product enhancement.

Table 11 Environment - Security > SSL

Name	Description	Required Value
Protocol SSL	Specifies the Secure Sockets Layer (SSL) or Transport Layer Security (TLS) protocol used when establishing an SSL connection with the server.	Select the appropriate protocol. The options are: ♦ No SSL ♦ TLS ♦ TLSv1 ♦ SSLv3 ♦ SSLv2 ♦ SSL The configured default is No SSL
JSSE Provider Class	Specifies the fully qualified name of the JSSE provider class.	The name of the JSSE provider class. The configured default value is com.sun.net.ssl.internal.ssl.Provider.
X509 Algorithm Name	Specifies the X509 algorithm name to use for the trust and key manager factories.	The X509 algorithm name to use for the trust and key manager factories. The configured default is SunX509
Verify hostname	Specifies whether hostname verification is done on the server certificate during the SSL handshake.	True or False. True indicates that hostname verification is performed on the server certificate during the SSL handshake. The configured default is False.
KeyStore type	Specifies the keystore type for the keystore used for key/certificate management when establishing SSL connections.	The keystore type. The configured default is JKS .
KeyStore	Specifies the keystore used for key/certificate management when establishing SSL connections.	The keystore used for key/certificate management.
Keystore username	Specifies a username for accessing the keystore used for key/certificate management when establishing SSL connections.	A user name (login) with permission to access the keystore.

Table 11 Environment - Security > SSL (Continued)

Name	Description	Required Value
Keystore password	Specifies the password for accessing the keystore used for key/certificate management when establishing SSL connections.	A password associated with the KeyStore username to access the keystore.
TrustStore type	Specifies the truststore type of the truststore used for CA certificate management when establishing SSL connections.	The truststore type. The configured default is JKS .
TrustStore	Specifies the truststore used for CA certificate management when establishing SSL connections.	The name of the truststore.
TrustStore password	Specifies the password for accessing the truststore used for CA certificate management when establishing SSL connections.	A password that permits access to the truststore.

3.5.5 PeopleSoft Settings

The **PeopleSoft Settings** section of the PeopleSoft HTTP Client eWay Environment properties contains the top-level parameters displayed in Table 12.

These settings must match the PeopleSoft server configurations as described in [“Configuring the PeopleSoft Server for the PeopleSoft eWay Projects” on page 36.](#)

Table 12 Environment - PeopleSoft Settings

Name	Description	Required Value
PeopleTools Version	Specifies the version of PeopleTools installed. The value options are: ▪ 8.42: PeopleTools version 8.42 ▪ 8.13: PeopleTools version 8.13	Select 8.13 or 8.42 . The configured default is 8.42 .

3.5.6 PeopleSoft Settings > PeopleTools 8.42 Settings

The **PeopleSoft Settings > PeopleTools 8.42 Settings** section of the PeopleSoft HTTP Client eWay Environment properties contains the top-level parameters displayed in Table 13.

The PeopleTools settings must match the configurations for the PeopleSoft server described in [“Configuring PeopleTools 8.42” on page 37](#).

At minimum, you must specify the following properties:

- [MessageName](#) on page 32
- [DestinationNode](#) on page 32
- [RequestingNode](#) on page 32
- [MessageVersion](#) on page 32

Table 13 Environment - PeopleSoft Settings > PeopleTools 8.42 Settings

Name	Description	Required Value
MessageName	Specifies the name of the message.	The name of the message.
MessageType	Specifies the type of message being sent. The type options are: ▪ sync: Synchronous message ▪ async: Asynchronous message ▪ ping: Ping message	Select sync , async , or ping .
RequestingNode	Specifies the name of the node sending the request.	The name of the node sending the request.
DestinationNode	Specifies the name of the node that receives the message. This parameter is optional when you specified a default target node using the Default Application Server Jolt connect string properties in the integrationGateway.properties file.	The name of the node that receives the message.
FinalDestination	Specifies the name of the node that ultimately receives the message. This is common when a PeopleSoft Integration Broker hub is used.	The name of the node that ultimately receives the message.
MessageVersion	Specifies the message version.	The message version.
NonRepudiation	Specifies whether the message content in the request should be processed using nonrepudiation logic.	True or False . True indicates that nonrepudiation logic will be used to process the message content of the request.
OrigNode	Specifies the name of the node that started the process. This property is optional.	The name of the node that started the process.

Table 13 Environment - PeopleSoft Settings > PeopleTools 8.42 Settings (Continued)

Name	Description	Required Value
OrigProcess	Specifies the originating process by which the message was initially generated.	The originating process by which the message was initially generated.
OrigUser	Specifies the user ID for the user from which the message was initially generated. This property is optional.	The user ID for the user from which the message was initially generated.
Password	Specifies the password as entered in the target node's definition for the source node. The target node authenticates the password when it receives the message. This parameter is only required if password authentication is enabled for the source node definition in the target database.	The password, as it is presented in the target node's definition for the source node.

3.5.7 PeopleSoft Settings > PeopleTools 8.13 Settings

The **PeopleSoft Settings > PeopleTools 8.13 Settings** section of the PeopleSoft HTTP Client eWay Environment properties contains the top-level parameters displayed in Table 14.

The PeopleTools settings must match the configurations for the PeopleSoft server described in [“Configuring PeopleTools 8.13” on page 52](#).

At minimum, you must specify the following properties:

- [MessageVersion](#) on page 34
- [FromNode](#) on page 34
- [ToNode](#) on page 34
- [Channel](#) on page 34
- [PublicationProcess](#) on page 34
- [Subject](#) on page 35

Table 14 Environment - PeopleSoft Settings > PeopleTools 8.13 Settings

Name	Description	Required Value
MessageVersion	Specifies the message version.	The message version.
ToNode	Specifies the name of the node for which the message is intended. This must correspond to an entry in the node lookup table on the gateway servlet, and the name of the local node (node definition) on the receiving PeopleSoft system.	The name of the node for which the message is intended.
FromNode	Specifies the name of the node from which messages originate. The node name must match the node definition for the third party system as defined in the receiving PeopleSoft system.	The name of the node from which the messages originate.
Channel	Specifies the name of the message channel containing the message.	The name of the message channel.
PublicationProcess	Specifies the application-defined name of the program that generated the message. This may be required by the application.	The application-defined name of the program that generated the message.
Password	Specifies the password associated with the destination node. This value is stored in the PeopleSoft database and must be communicated to the system administrators for the publishing system. If the node definition on the sending system has a node group defined, the password will be present. If the node definition on the receiving system has a node group defined, the password must be present and must match the node group password.	The password associated with the destination node.

Table 14 Environment - PeopleSoft Settings > PeopleTools 8.13 Settings (Continued)

Name	Description	Required Value
DefaultDataVersion	Specifies the default message version for the sending system.	The default message version.
OriginatingNode	Specifies the name of the node that originally published the message. This property is used to prevent circular publishing. If not in the XML file, the system sets it to the publishing node name.	The name of the node that originally published the message.
PublicationID	Specifies the system generated identifier for the publication. The fields, FromNode , Channel , and PublicationID , uniquely identify the publication. If the FromNode is specified and the Publication ID is omitted, the publication ID is set to the next available publication ID on that channel within the subscribing PeopleSoft database.	The system generated identifier for the publication.
Publisher	Specifies the application-defined operator ID class that published the message. This may be required by the application.	The application-defined operator ID class that published the message.
SubChannel	Specifies the name of the subchannel that contains the message. Messages in the same channel, but in different subchannels, are assumed to refer to distinct objects (for example, different POs or different employees), and are processed in parallel if possible. This field contains the concatenated values that represent the subchannel. For example, if the subchannel is Business Unit, Journal ID , then the value of this field is M04123456789 where Business Unit = M04 and Journal ID = 123456789 . Include this field if the subscribing PeopleSoft system has a defined subchannel, otherwise, it may be omitted.	The name of the subchannel that contains the message. See the description for the naming format.
Subject	Specifies the name of the message as defined in the PeopleSoft system.	The name of the message as defined in the PeopleSoft system.
SubjectDetail	Specifies the application defined subtype of the message name.	The application defined subtype of the message name.

Configuring the PeopleSoft Server for the PeopleSoft eWay Projects

For the PeopleSoft eWay to communicate with PeopleSoft servers, the PeopleSoft Integration Gateway must be configured for eGate postings as described in this chapter.

What's in This Chapter

- [Overview](#) on page 36
- [Configuring PeopleTools 8.42](#) on page 37
- [Configuring PeopleTools 8.13](#) on page 52

4.1 Overview

For the Sun Java Composite Application Platform Suite to post and receive messages from PeopleSoft, you must configure the PeopleSoft server. The configurations are different for PeopleTools 8.13 and 8.42. For PeopleTools 8.42, there are also different configurations depending on whether the PeopleSoft eWay Project uses JMS, HTTP, or both. Table 15 summarizes the different configurations.

Table 15

Version	JMS	HTTP
PeopleTools 8.42	Source node Target node .bindings file IntegrationGateway.properties	Source node Target node HTTP listening connector HTTP publication handler
PeopleTools 8.13	n/a	PeopleSoft message node HTTP message node Message channel inbound Message channel outbound PeopleSoft subscription handler HTTP publication handler

The sections below describe how to configure PeopleSoft servers to communicate with the PeopleSoft eWay using PeopleTools 8.42 or 8.13. Information about the PeopleSoft server can be found in the PeopleBooks documentation provided by PeopleSoft.

4.2 Configuring PeopleTools 8.42

This section describes how to configure PeopleTools 8.42 to integrate using the Sun Java Composite Application Platform Suite. When you use this version of PeopleTools, you can create the PeopleSoft eWay Projects that use inbound and outbound JMS data flows, and inbound HTTP data flows. Inbound HTTP data flows are only supported when you use an eInsight implementation of the eWay.

4.2.1 Configuring PeopleSoft for eGate Posting

The following section describes how to create PeopleSoft nodes to receive and post messages with the Sun Java Composite Application Platform Suite.

Creating Source Nodes to Receive eGate Posts

The procedure below describes how to set up the PeopleSoft node to receive eGate messages.

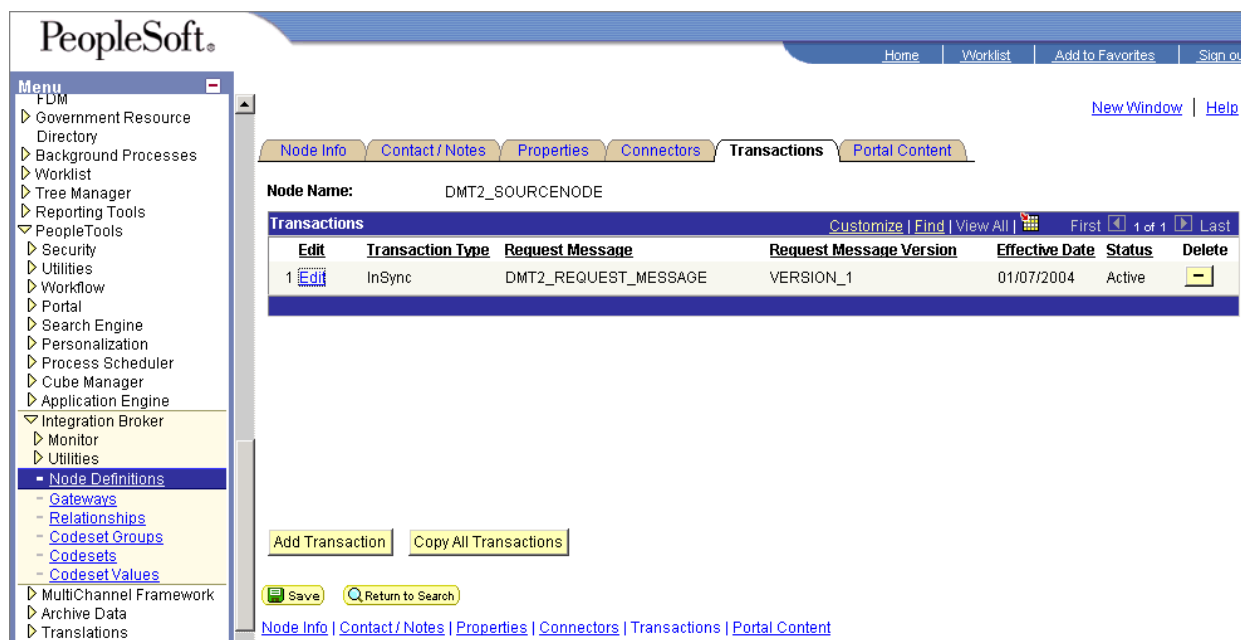
- 1 Log into the PeopleSoft server.
- 2 Follow the PeopleSoft documentation to create a new node and configure it as shown in Figure 4.

Figure 4 Adding the Node to Receive eGate Posts

The screenshot shows the PeopleSoft web interface. On the left is a navigation menu with categories like FDM, Government Resource, Directory, Background Processes, Worklist, Tree Manager, Reporting Tools, PeopleTools, Security, Utilities, Workflow, Portal, Search Engine, Personalization, Process Scheduler, Cube Manager, Application Engine, Integration Broker, Monitor, Utilities, Node Definitions (selected), Gateways, Relationships, Codeset Groups, Codesets, Codeset Values, MultiChannel Framework, Archive Data, Translations, and EDI Manager. The main content area is titled 'Node Info' and has tabs for 'Contact / Notes', 'Properties', 'Connectors', 'Transactions', and 'Portal Content'. The 'Node Name' is 'DMT2_SOURCENODE'. The 'Description' is 'SOURCENODE for egate http post'. The 'Company ID' is empty. The 'Node Type' is 'PIA'. The 'Routing Type' is 'Implicit'. The 'Authentication Option' is 'None'. There are checkboxes for 'Active Node' (checked), 'Local Node' (unchecked), 'Default Local Node' (unchecked), and 'Non-Repudiation' (unchecked). There are buttons for 'Copy', 'Rename', and 'Delete'. Below these are fields for 'Hub Node', 'Master Node', 'Image Name', and 'Code Set Group Name', each with a search icon. At the bottom are 'Save' and 'Return to Search' buttons. A breadcrumb trail at the bottom reads 'Node Info | Contact / Notes | Properties | Connectors | Transactions | Portal Content'.

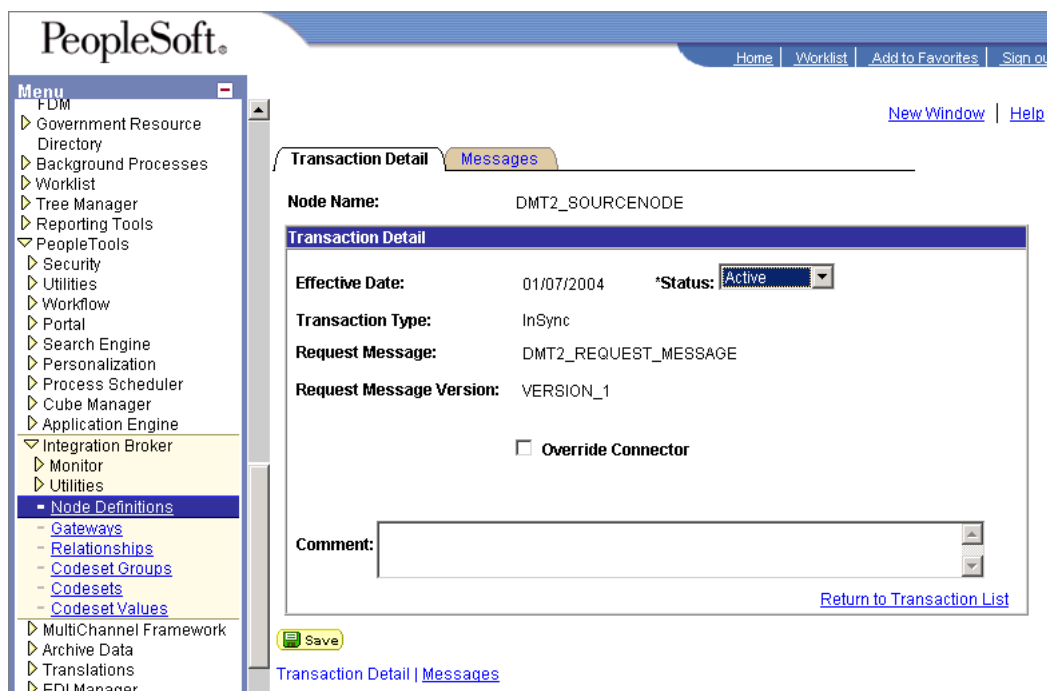
- 3 Add a transaction for the eGate post using your own naming convention and configure it as displayed in Figure 5 on page 38.

Figure 5 Adding the Transaction to Receive eGate Posts



- Click **Edit**. The **Transaction Detail** tab appears. Configure the transaction as shown in Figure 6.

Figure 6 Configuring the Transaction to Receive eGate Posts



- Click **Messages**. From the **Messages** tab, configure the messages for the eGate post as shown in Figure 7 on page 39.

Figure 7 Configuring the Messages to Receive eGate Posts

PeopleSoft. Home Worklist Add to Favorites Sign out

Menu
FDM
Government Resource Directory
Background Processes
Worklist
Tree Manager
Reporting Tools
PeopleTools
Security
Utilities
Workflow
Portal
Search Engine
Personalization
Process Scheduler
Cube Manager
Application Engine
Integration Broker
Monitor
Utilities
Node Definitions
Gateways
Relationships
Codeset Groups
Codesets
Codeset Values
MultiChannel Framework
Archive Data
Translations
EDI Manager

Transaction Detail Messages

Node Name: DMT2_SOURCENODE

Transaction Messages Find View All First 1 of 1 Last

Effective Date: 01/07/2004 Status: Active

Transaction Type: InSync ☐ Log Message Detail?

Request Message

Name: DMT2_REQUEST_MESSAGE Version: VERSION_1

External Name:

Response Message

Name: DMT2_RESPONSE_MESSAGE Version: VERSION_1

External Name:

Return to Transaction List

Save

Transaction Detail Messages

Activating Message Channels to Receive eGate Messages

Each channel must be defined and activated before the eWay can post any data. The procedure below describes how to activate the message channels for subscription to the PeopleSoft eWay.

To activate message channels to receive eGate HTTP posts

- 1 From the PeopleSoft Application Designer, create a channel. You can use the default properties.
- 2 Create the request and response message definitions. These message do not require PeopleCode.
- 3 Click **Message Properties**. The **Message Properties** dialog box appears.
- 4 Select the **Active** option and click **OK** (see [Figure 8 on page 40](#)).

Figure 8 Activating Message Channels

Creating Target Nodes to Post Messages to eGate Using HTTP

The procedure below describes how to create and configure PeopleSoft nodes to post messages to eGate using HTTP.

To create target nodes to post messages to eGate using HTTP

- 1 Follow the PeopleSoft documentation to create a new node using your own naming convention and configure it as displayed in Figure 9.

Figure 9 Creating Nodes to Post to eGate

- 2 Select the target connector ID. From the Connectors tab, enter the values displayed in Figure 10.

Figure 10 Configuring the Connector to Post to eGate using HTTP

PeopleSoft. Home | Worklist | Add to Favorites | Sign out

Menu

- Background Processes
- Worklist
- Tree Manager
- Reporting Tools
- PeopleTools
 - Security
 - Utilities
 - Workflow
 - Portal
 - Search Engine
 - Personalization
 - Process Scheduler
 - Cube Manager
 - Application Engine
- Integration Broker
 - Monitor
 - Utilities
 - Node Definitions
 - Gateways
 - Relationships
 - Codeset Groups
 - Codesets
 - Codeset Values
- MultiChannel Framework
- Archive Data
- Translations
- EDI Manager
- Mass Changes
- Change My Password

New Window | Help

Node Info | Contact/ Notes | Properties | **Connectors** | Transactions | Portal Content

Node Name: DMT2_TARGETNODE

Gateway ID: LOCAL

Connector ID: HTTPTARGET

Properties

Customize | Find | View All | First | 1-3 of 3 | Last

Property ID	Property Name	Required	Value
1 HEADER	sendUncompress	☒	Y
2 HTTPPROPERTY	Method	☒	POST
3 PRIMARYURL	URL	☒	http://portal-eway:18004/Deploy

Save | Return to Search

Node Info | Contact/ Notes | Properties | Connectors | Transactions | Portal Content

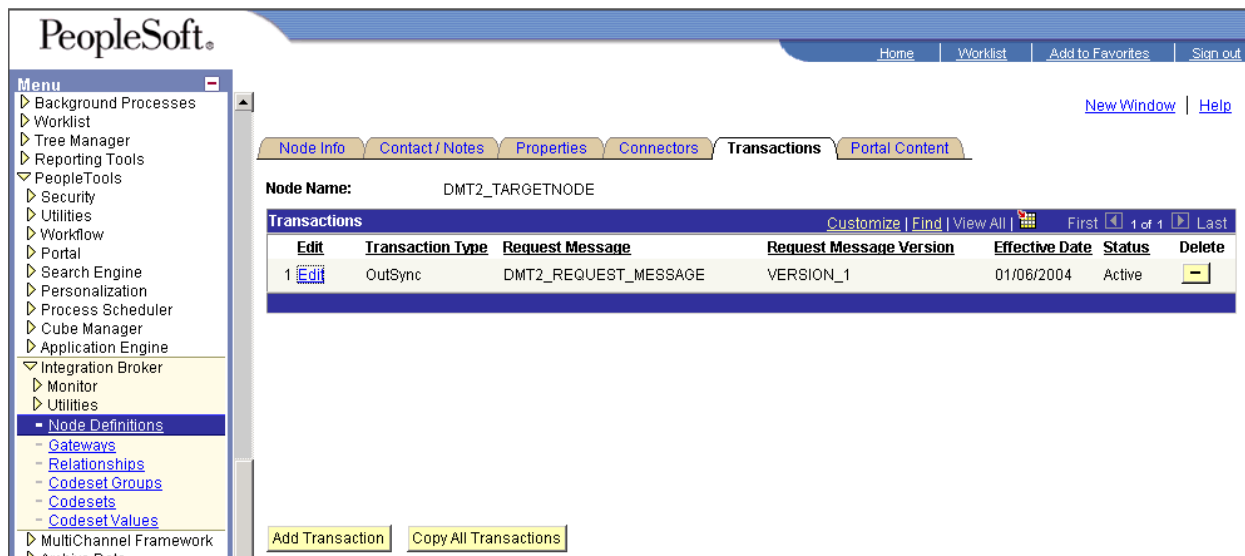
Use the following format for the **PRIMARYURL** property:

```
http://<yourmachinename>:18001/
<yourdeploymentname>_servlet_<servletname>/<servletname>
```

This property must match the logical eWay Servlet-url property defined in the Enterprise Designer as described in “[servlet-url](#)” on [page 24](#). The port number must match the default Web server port number specified in the Integration Server properties in the Enterprise Designer. The Deployment Profile is the name of the Project’s Deployment Profile defined in the Enterprise Designer. The Deployment Profile name must be followed by **_servlet_servletname**.

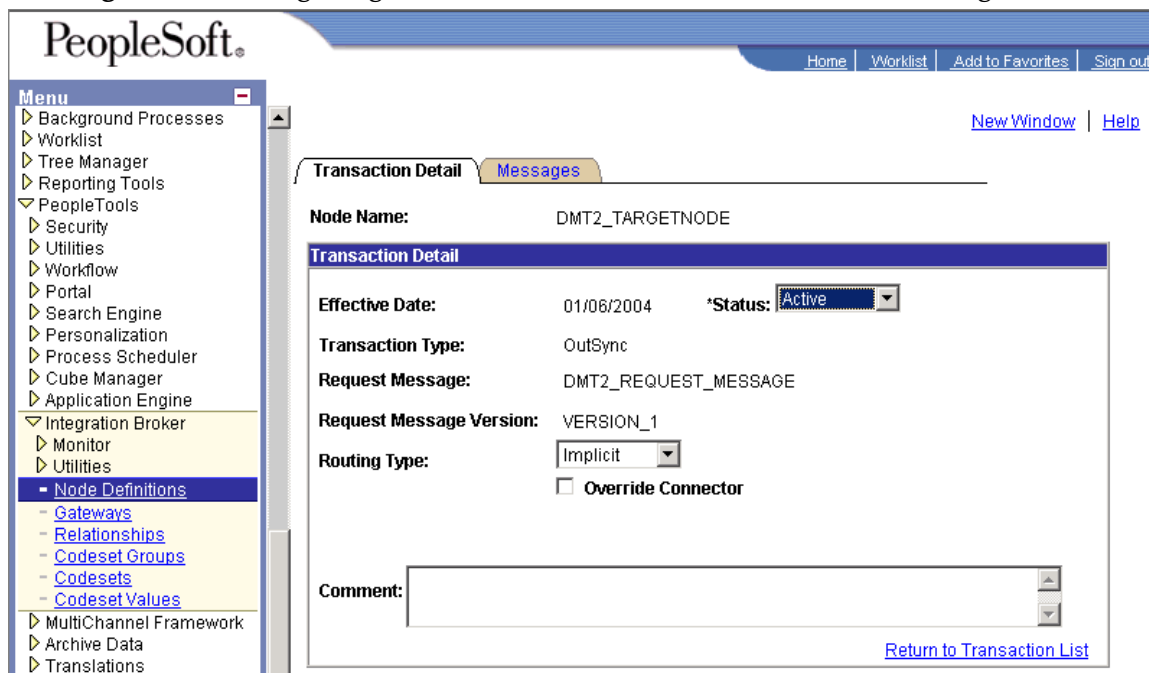
- 3 Configure the transaction as displayed in [Figure 11 on page 42](#)).

Figure 11 Configuring the Transaction to Post to eGate using HTTP



4 Click **Edit** (see Figure 12).

Figure 12 Configuring the Transaction Detail to Post to eGate Using HTTP



5 Click **Messages**. The **Messages** tab is displayed (see Figure 13 on page 43).

Figure 13 Configuring the Messages to Post to eGate Using HTTP

PeopleSoft.

Home Worklist Add to Favorites Sign out

New Window Help

Transaction Detail Messages

Node Name: DMT2_TARGETNODE

Transaction Messages Find View All First 1 of 1 Last

Effective Date: 01/06/2004 Status: Active

Transaction Type: OutSync ☐ Log Message Detail?

Request Message

Name: DMT2_REQUEST_MESSAGE Version: VERSION_1

External Name:

Response Message

Name: DMT2_RESPONSE_MESSAGE Version: VERSION_1

External Name:

Return to Transaction List

Creating Target Nodes to Post to eGate Using JMS

After creating the source node in PeopleTools, follow the procedure below to create the JMS target node.

To create the target Node to post to eGate using JMS

- 1 Follow the PeopleSoft documentation to create a new node using your own naming convention and configure it as displayed in Figure 14.

Figure 14 Creating Nodes to Post to eGate Using JMS

PeopleSoft.

Home Worklist Add to Favorites Sign out

New Window Help

Node Info Contact / Notes Properties Connectors Transactions Portal Content

Node Name: RC_TARGETNODE

*Description: RC_TARGETNODE Copy

Company ID: Rename

*Node Type: PIA ☒ Active Node Delete

*Routing Type: Implicit ☐ Local Node

*Authentication Option: None ☐ Default Local Node ☐ Non-Repudiation

Hub Node:

Master Node:

Image Name:

Code Set Group Name:

Save Return to Search

Node Info | Contact / Notes | Properties | Connectors | Transactions | Portal Content

- 2 Select the target connector ID, and enter the values shown in Figure 15.

Figure 15 Configuring the Connectors to Post to eGate Using JMS

PeopleSoft. Home | Worklist | Add to Favorites | Sign out

Menu

- Statutory Reports
- Data Exchanges
- Set Up Financials/Supply Chain
- Define Integration Rules
- FDM
- Government Resource Directory
- Background Processes
- Worklist
- Tree Manager
- Reporting Tools
- PeopleTools
 - Security
 - Utilities
 - Workflow
 - Portal
 - Search Engine
 - Personalization
 - Process Scheduler
 - Cube Manager
 - Application Engine
 - Integration Broker
 - Monitor
 - Utilities
 - Node Definitions**
 - Gateways
 - Relationships
 - Codeset Groups
 - Codesets
 - Codeset Values
 - MultiChannel Framework
 - Archive Data
 - Translations
 - EDI Manager
 - Mass Changes
 - Change My Password
 - My Personalizations
 - My System Profile

Node Name: RC_TARGETNODE

Gateway ID: LOCAL

Connector ID: JMSTARGET

Properties

Property ID	Property Name	Required	Value
1	HEADER	☒	Y
2	JMSTARGET	☒	AUTO_ACKNOWLEDGE
3	JMSTARGET	☒	NON_PERSISTENT
4	JMSTARGET	☒	QueueConnectionFactory
5	JMSTARGET	☒	0
6	JMSTARGET	☒	Text
7	JMSTARGET	☒	
8	JMSTARGET	☒	0
9	JMSTARGET	☒	SeeBeyond
10	JMSTARGET	☐	GenericInQueue
11	JMSTARGET	☒	FALSE
12	JMSTARGET	☒	file:C:/jndibindings/
13	JMSTARGET	☒	

The JMS properties, such as persistence and acknowledgement modes, must match the settings for the JMS client as defined from the Connectivity Map. For information about JMS properties, refer to the *Sun SeeBeyond eGate™ Integrator JMS Reference Guide*.

The **JMSQueue** or **JMSTopic** property must match the name of the queue/topic in the Connectivity Map. The target destination must match the incoming queue/topic, and the source destination must match the outgoing queue/topic.

The **JMSFactory** property must point to the topic or queue ConnectionFactory for the topic or queue properties in the JNDI bindings file.

The **JMSUrl** property must point to your JNDI bindings file (see [“Creating the JNDI Bindings File for JMS Posting” on page 49](#)).

Make sure that the node that uses **JMSTargetConnector** as the connector is setup correctly in regard to the, **JMSUserName**, **JMSPassword**.

4.2.2 Additional HTTP Configurations

Verifying the HTTP Listening Connector

Two types of HTTP connectors are used with PeopleSoft eWay Projects that use HTTP to communicate to PeopleSoft: the **HTTP listening connector** and the **HTTP target connector**.

The PeopleSoft server uses the HTTP listening connector to receive messages from. The PeopleSoft eWay HTTP client external application is used to post to the HTTP listening connector. You do not have to configure the HTTP listening connector; the connector is started automatically by the PeopleSoft Integration Application.

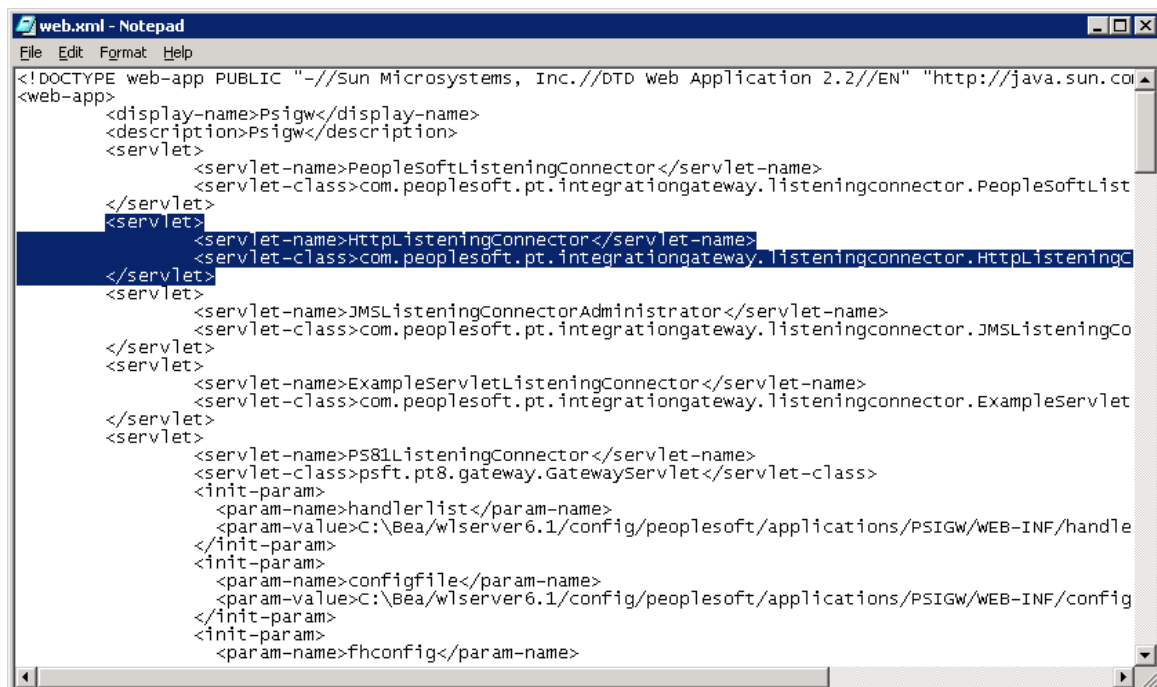
However, you must set the location for the HTTP listening connector in the Environment properties of the PeopleSoft eWay as described in [“URL” on page 25](#). The routing of messages in the PeopleSoft server is decided by the content of the message in the header section.

The HTTP target connector is used to send HTTP messages to eGate. The eGate component receiving the HTTP message is a servlet. The servlet name is specified in the Connectivity Map as described in [“servlet-url” on page 24](#).

To verify HTTP listening connector

- 1 In a text editor, open the web.xml file in the following directory:
`bea\wlserver6.1\config\peoplesoft\applications\PSIGN\WEB-INF`
where *bea* is the WebLogic installation directory.
- 2 Verify that the following section is included, and add it if it is absent (see Figure 16).

Figure 16 Verifying the HTTP Listening Connector



4.2.3 Additional JMS Configurations

Configuring Inbound JMS Connections

To configure inbound JMS connections, you must edit the IntegrationGateway.properties file as described in the procedure below.

To configure inbound JMS connections

- 1 Open the IntegrationGateWay.properties file from the following directory:

`bea\wlserver6.1\config\peoplesoft\applications\PSIGW\WEB-INF`
where *bea* is the WebLogic installation directory.

- 2 Edit the file for the JMS queue listener properties as shown in Table 16.

You can configure multiple queues by using the convention **ig.jms.queue1**, **ig.jms.queue2**, **ig.jms.queue3**, and so on. Table 16 shows how the JMS listener is configured for the **GenericOutQueue**.

Table 16 JMS Queue Listener Properties

ig.jms.Queues=1	"1" indicates only one queue.
ig.jms.Queue1=GenericOutQueue	The first queue name "GenericOutQueue", must be the same in the .bindings file. The Java code used to generate the entry in the .bindings is: <pre>queue = new STCQueue("GenericOutQueue"); q = null; try { q = (Queue) jndifContext.lookup("GenericOutQueue"); System.out.println(q.getClass().getName()); } catch (Exception e) { System.out.println("fcontext GenericOutQueue lookup exception"); e.printStackTrace(); } if (q == null) { System.out.println("q is null...bind GenericOutQueue as GenericOutQueue"); jndifContext.bind("GenericOutQueue", queue); }</pre>
ig.jms.Queue1.Provider=SunSeeBeyond	The "SunSeeBeyond" entry must match the configuration entry in the integrationgateway.properties file: <pre>ig.jms.JMSProvider.JNDIFactory.SeeBeyond=com.sun.jndi.fscontext. RefFSContextFactory</pre>

Table 16 JMS Queue Listener Properties (Continued)

ig.jms.Queue1.JMSFactory=QueueConnectionFactory	"QueueConnectionFactory" is the JNDI name in the .bindings file. Use the following Java code to generate the entry: <pre> QueueConnectionFactory tgtqcf = null; try { /*you can change the jndi name here, the jndi name use here must be exactly same *as in the websphere's Generic JMS Provider's configuration External JNDI Name */ tgtqcf = (QueueConnectionFactory) jndifContext.lookup("QueueConnectionFactory"); } catch (Throwable e) { System.out.println("fcontext QueueConnectionFactory lookup exception"); e.printStackTrace(); } if (tgtqcf == null) { System.out.println("fcontext QueueConnectionFactory lookup is null..."); jndifContext.bind("QueueConnectionFactory", srcqcf); } else { System.out.println("fcontext QueueConnectionFactory is NOT null...unbind then re-bind QueueConnectionFactory"); jndifContext.unbind("QueueConnectionFactory"); jndifContext.rebind("QueueConnectionFactory", srcqcf); } </pre>
ig.jms.Queue1.MessageSelector=	see the <i>Sun SeeBeyond eGate™ JMS Reference Guide</i> .
ig.jms.Queue1.Url=file:c:/jndibindings/	The URL of the .bindings file. Because PeopleSoft only supports fcontext, this is a directory name.
ig.jms.Queue1.User=Administrator	User name to eGate JMS server.
ig.jms.Queue1.Password=SwBAuVVABok=	Encrypted value of the password to eGate JMS server. Use the PeopleSoft utility pscipher to get the encrypted value.

3 Edit the file for the JMS queue listener properties as shown in Table 17.

You can configure multiple queues by using the convention **ig.topic1**, **ig.topic2**, **ig.topic3**, and so on. Table 17 shows how to configure the JMS topic to use the **GenericOutTopic**.

Table 17 JMS Topic Listener Properties

ig.jms.Topics=1	"1" indicates only one topic.
-----------------	-------------------------------

Table 17 JMS Topic Listener Properties (Continued)

ig.jms.Topic1=GenericOutTopic	The first topic name "GenericOutTopic", must be the same in the .bindings file. The Java code to generate this entry in the .bindings is: <pre>topic = new STCTopic("GenericOutTopic"); t = null; try { /*you can change the jndi name here, the jndi name use here must be exactly same *as in the websphere's Generic JMS Provider's configuration External JNDI Name */ t = (Topic) jndifContext.lookup("GenericOutTopic"); System.out.println(t.getClass().getName()); } catch (Exception e) { System.out.println("fcontext GenericOutTopic lookup exception"); e.printStackTrace(); } if (t == null) { System.out.println("t is null...bind GenericOutTopic as GenericOutTopic"); jndifContext.bind("GenericOutTopic", topic); }</pre>
ig.jms.Topic1.Provider=SunSeeBeyond	The "SunSeeBeyond" entry must match the configuration entry in the integrationgateway.properties file: <pre>ig.jms.JMSProvider.JNDIFactory.SeeBeyond=com.sun.jn di.fscontext.RefFSContextFactory</pre>

Table 17 JMS Topic Listener Properties (Continued)

ig.jms.Topic1.JMSFactory=TopicConnectionFactory	"TopicConnectionFactory" is the JNDI name in the .bindings file. Use the following Java code to generate the entry: <pre> TopicConnectionFactory tgttcf = null; try { /*you can change the JNDI name here, the JNDI name use here must be exactly same *as in WebSphere's Generic JMS Provider's configuration External JNDI Name */ tgttcf = (TopicConnectionFactory) jndifContext.lookup("TopicConnectionFactory"); } catch (Throwable e) { System.out.println("fcontext TopicConnectionFactory lookup exception"); e.printStackTrace(); } if (tgttcf == null) { System.out.println("fcontext TopicConnectionFactory lookup is null..."); jndifContext.bind("TopicConnectionFactory", srctcf); } else { System.out.println("fcontext TopicConnectionFactory is NOT null...unbind then re- bind TopicConnectionFactory"); jndifContext.unbind("TopicConnectionFactory"); jndifContext.rebind("TopicConnectionFactory", srctcf); } </pre>
ig.jms.Topic1.MessageSelector=	Refer to the queue table.
ig.jms.Topic1.Url=file:c:/jndibindings/	Refer to the queue table.
ig.jms.Topic1.User=Administrator	Refer to the queue table.
ig.jms.Topic1.Password=SwBAuVVABok=	Refer to the queue table.

Creating the JNDI Bindings File for JMS Posting

To enable the PeopleSoft eWay to post to PeopleSoft using JMS, you must have a JNDI bindings file in place. You can generate the bindings file with any standard JNDI generation application. Sun provides a sample generation application called **PSFTBindJMS.java**. This program and two associate applications, **compile.bat** and **run.bat**, are included in the sample Project file.

You must edit and recompile the **PSFTBindJMS.java** file before generating the bindings file.

To create the JNDI bindings file, do the following:

- 1 Create the directory, **C:\testprogram**. Copy the **PSFTBindJMS.java**, **compile.bat**, and **run.bat** files to this directory.

Note: *The latest version of the eGate API Kit JAR files must be added to the WebLogic PeopleSoft-PIS server classpath. To confirm this, check the JAR files in the server's setENV.cmd file located in the following location (or equivalent):*

`C:\bea\wlserver6.1\config\peoplesoft\setEnv.cmd`

If you have installed the PeopleSoft-PIA service as a Windows Service, you must uninstall and reinstall the service by executing `unInstallNTServicePIA.cmd` first, then executing `installNTServicePIA.cmd`. This is a runtime classpath requirement to confirm the new classpath.

- 2 Open the **PSFTBindJMS.java** file in a text editor and follow the directions presented in the text of the file. Edit the JNDI bindings generation application with the eGate host name and location. Verify that the eGate JMS server port number is correct. This port number must match the **Server port** property for the JMS IQ Manager in the Enterprise Designer. For information, refer to the *Sun SeeBeyond eGate™ JMS Reference Guide*.
- 3 Modify the following line to point to your own directory:

```
fcontextprops.put(Context.PROVIDER_URL,  
"file:C:\\eGateExports\\PeopleSoft\\JMS");
```

Note: *If you are installing the Sun Java Composite Application Platform Suite and the PeopleSoft eWay on a computer that previously included ICAN 5.0.5, be sure to delete all of the previously installed API JAR files, and follow the directions in the Sun SeeBeyond eGate API Kit Developer's Guide to modify your classpath to include the new API JAR files.*

- 4 Double-click **compile.bat** to compile the program. A class file is generated.
- 5 Double-click **run.bat** to run the program. This creates a **.bindings** file.
- 6 Copy the **.bindings** file to the location of the **JMSUrl** property described in the section above (see [“Creating Target Nodes to Post to eGate Using JMS” on page 43](#)).

When you run the bindings generation application for the first time, the following feedback is displayed:

```
fcontext TopicConnectionFactory lookup exception, you never had  
this jndi entry  
fcontext TopicConnectionFactory lookup is null... will bind to the  
jndi name  
fcontext GenericInTopic lookup exception, it doesn't exist  
GenericInTopic is null...bind GenericInTopic as GenericInTopic  
fcontext GenericOutTopic lookup exception, it doesn't exist  
GenericOutTopic is null...bind GenericOutTopic as GenericOutTopic
```

```
fcontext ErrorTopic lookup exception, it doesn't exist
t is null...bind ErrorTopic as ErrorTopic
fcontext QueueConnectionFactory lookup exception it doesn't exist
fcontext QueueConnectionFactory lookup is null...bind with new
value
fcontext GenericInQueue lookup exception, it doesn't exist
GenericInQueue is null...bind GenericInQueue as GenericInQueue
fcontext GenericOutQueue lookup exception
GenericOutQueue is null...bind GenericOutQueue as GenericOutQueue
```

In the subsequent runs, the following feedback is displayed:

```
fcontext TopicConnectionFactory is NOT null...unbind then re-bind
TopicConnectionFactory will overwrite old value
com.stc.jms.client.STCTopic
fcontext GenericInTopic is NOT null...unbind then re-bind
GenericInTopic will overwrite old value
com.stc.jms.client.STCTopic
fcontext GenericOutTopic is NOT null...unbind then re-bind
GenericOutTopic will overwrite old value
com.stc.jms.client.STCTopic
fcontext ErrorTopic is NOT null...unbind then re-bind ErrorTopic
will overwrite old value
fcontext QueueConnectionFactory is NOT null...unbind then re-bind
QueueConnectionFactory
com.stc.jms.client.STCQueue
fcontext GenericInQueue is NOT null...unbind then re-bind
GenericInQueue will overwrite old value
com.stc.jms.client.STCQueue
fcontext GenericOutQueue is NOT null...unbind then re-bind
GenericOutQueue will overwrite old value
```

- 7 Once you have completed all of these steps, restart the PeopleSoft-PIA services. You can restart the PIA services from the Windows Services console, or you can restart the service from a Command Line using the following command:

```
startIA.cmd
```

After you execute this command, monitor the PIA_weblogic.log file until you see the following output:

```
#### <> <000329>
```

This indicates that the PIA Service is started. If you use this method of starting the PIA service, be aware that the Windows Services console will not accurately reflect that the service has been started.

- 8 Stop and restart the JMSListeningConnector using the URL (see [“Starting and Stopping the JMS Listening Connector” on page 52](#)). After you start the JMS Listening Connector, monitor the PIA_weblogic.log. The following message indicates that the JMS Listening Connector has started correctly:

```
#### <> <> <101047> <[WebAppServletContext(2244929,PSIGW,/PSIGW)]
JMSListeningConnectorAdministrator: init>
#### <> <> <101047> <[WebAppServletContext(2244929,PSIGW,/PSIGW)]
PeopleSoftListeningConnector: init>
```

If you perform step 8 before the PIA service is ready, the JMS Listening Connector will not be active, so it will not receive messages from eGate.

Starting and Stopping the JMS Listening Connector

To start the JMS listening connector, use the following command:

```
http://hostname:port/PSIGW/  
JMSListeningConnectorAdministrator?Activity=START
```

To stop the JMS listening connector, use the following command:

```
http://hostname:port/PSIGW/  
JMSListeningConnectorAdministrator?Activity=STOP
```

Verifying the JMS Connection

To verify if your JMS connection works, you can use the **StartSendMaster.bat** provided by PeopleSoft in the following location:

```
c:\bea\wlserver6.1\config\peoplesoft\applications\PSIGW
```

4.2.4 Verifying PeopleSoft Server Logs

You can verify log information for the PeopleSoft server in the following directory:

```
bea\wlserver6.1\config\peoplesoft\applications\PSIGW
```

where *bea* is the installation directory where WebLogic is installed.

4.2.5 Notes on PeopleSoft Server Disconnections for JMS

If the Logical Host is shut down during a JMS session with PeopleSoft, the PeopleSoft server loses the session. You must reestablish the connection on the PeopleSoft server.

4.3 Configuring PeopleTools 8.13

This section describes how to configure PeopleTools 8.13 to integrate using the eGate Integrator. When you use this version of PeopleTools, you can create PeopleSoft eWay Projects that use inbound HTTP Collaborations. Outbound HTTP Collaborations are only supported when you use eInsight together with eGate.

4.3.1 Creating the PeopleSoft Node to Receive eGate HTTP Posts

The procedure below describes how to create and configure PeopleSoft nodes for eGate HTTP posting.

To create PeopleSoft nodes to receive eGate HTTP posts

- 1 In the PeopleTools Application Designer, click **New** on the **File** menu. The **New** dialog box appears.
- 2 Click **Message Node** and click **OK** to display the Message Node dialog box for Node 1.

- 3 Right-click the **Locations** pane and click **Insert Location**. The **Location** dialog box appears.
- 4 Enter the URL shown below for the PeopleSoft Gateway Servlet and click **OK**.

For Apache:

`http://PSFTHOST/servlets/psft.pt8.gateway.GatewayServlet`

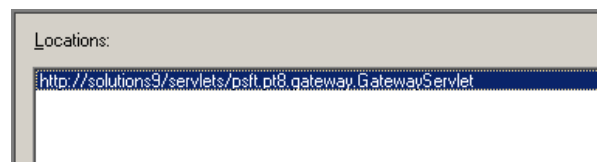
For WebLogic:

`http://PSFTHOST/servlets/gateway`

where *PSFTHOST* is the name of the host computer where PeopleSoft runs.

The URL name displays in the **Message Node** dialog box similar to Figure 17.

Figure 17 PeopleSoft Node for Receiving eGate HTTP Posts

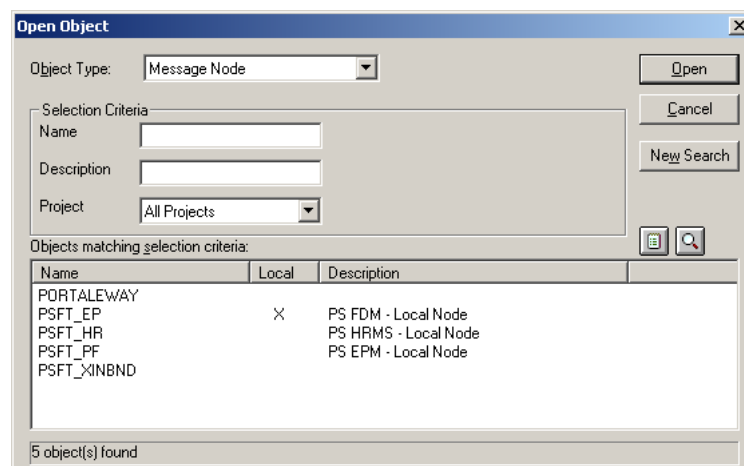


- 5 Click **Save As** on the **File** menu.
- 6 Enter the name of the message node.
- 7 From the File menu, click **Open**. The **Open Object** window appears (see Figure 18).
- 8 To verify that the message node is ready for use, select **Message Node** from the **Object Type** list and click **Open**

A list of all message nodes displays as shown in the Figure 18. The name of the new message node appears in the **Objects matching selection criteria** pane.

Message nodes with PSFT prefixes are created by the PeopleSoft installation. PSFT_EP is the PeopleSoft local node for the Financials application. It is specified as a subscriber to messages sent from the PeopleSoft eWay, and a publisher of messages to the HTTP server.

Figure 18 Viewing Message Nodes



4.3.2 Activating the Message Definition to Receive eGate Posts

PeopleSoft comes with a set of predefined message definitions. The desired message definition is configurable in the eWay with the **Subject** property. The following instructions describe how to activate the message definition for subscription to the PeopleSoft eWay.

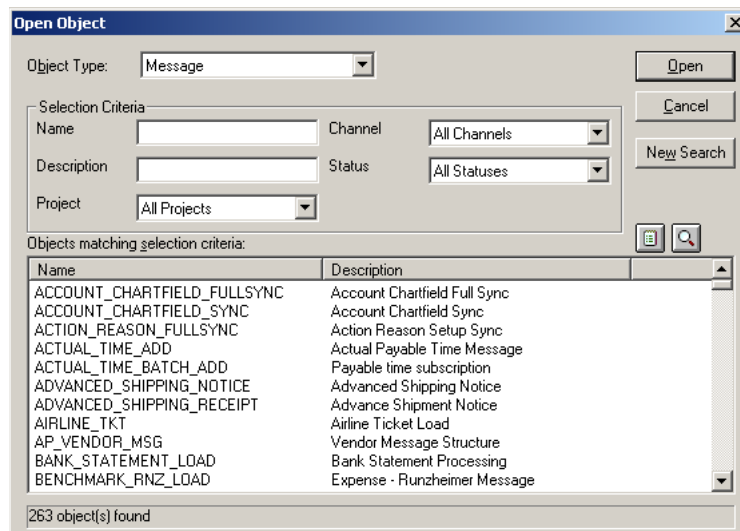
Note: For purposes of this publication the **ADVANCED_SHIPPING_RECEIPT** Message Definition is activated for publish / subscribe.

Each message used for publication must be defined. This definition corresponds to the XML message the eWay publishes, and contains the elements of the data to be published. However, before the eWay can publish any data, the message definition must be activated. The Application Designer includes a list of these definitions.

To activate the message definition to receive eGate posts

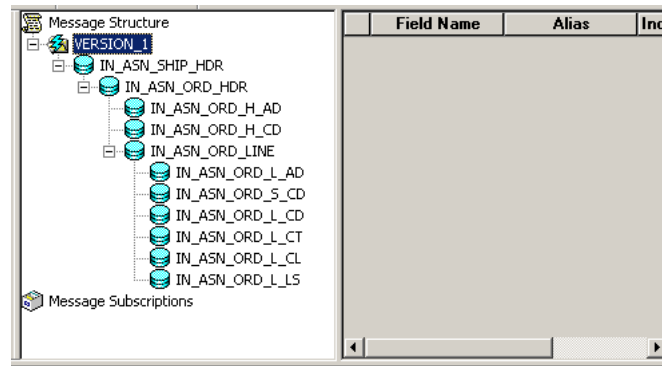
- 1 In PeopleTools Application Designer, click **Open** on **File** menu. The **Open Object** dialog box appears.
- 2 Click **Message** from the **Object Type** list. This displays all available PeopleSoft message definitions (see Figure 19).

Figure 19 Viewing Available Message Destinations



- 3 Double-click the message definition. The **Message** window appears, displaying the record details of the chosen message structure as displayed in [procedure on page 55](#).

Figure 20 Message Structure Details



- 4 Click **Object Properties** on the **File** menu,. The **Message Properties** dialog box appears.
- 5 Click the **Use** tab.
- 6 Select the **Active** option as displayed in Figure 21, and click **OK**.

Figure 21 Activating the Message Definition to Receive eGate Posts

Message Properties

General Use

Status:
☒ Active

Message Channel: ADVANCED SHIPPING NOTICE

Default Version: VERSION_1

Message Viewing / Correction:
☒ Use Message Monitor Dialog
☐ Use Page

Page:
 Menu Name:
 Bar Name:
 Item Name:
 Page Name:
 Action: &Add

OK Cancel

- 7 Save your current changes. You have now activated the message definition for publishing or subscribing.

4.3.3 Defining Message Channel Routing Rules

This procedure describes how to configure message channels. Before you start, determine which message channel you will use. You can configure the PeopleSoft eWay for this message channel with the **Channel** property.

Configuring the Message Channel

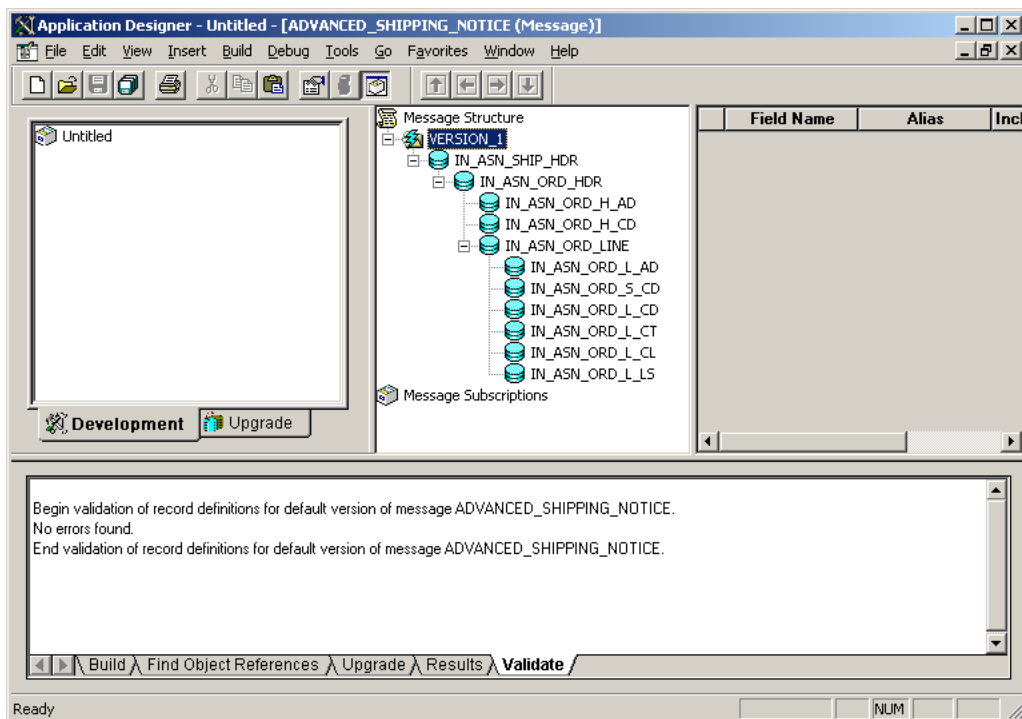
Each message channel logically groups messages together. For purposes of the procedure below, the **ADVANCED_SHIPPING_RECEIPT** message is grouped into the **ADVANCED_SHIPPING_NOTICE** message channel.

To configure the message channel

- 1 Log into the PeopleTools Application Designer.
- 2 Click **Open** on the **File** menu. The **Open Object** dialog box appears.
- 3 Select **Message Channel** from the **Object Type** list and click **Open**. This displays all available message channels.
- 4 Double-click the message channel to be used. The **Message Channel** window appears for that channel.
- 5 Click **Routing Rules**, right-click the pane, and from the shortcut menu, click **Insert message node**. The **Insert Message Node** dialog box appears, displaying the available message nodes.
- 6 Select **PSFT_EP** and click **Insert**. This inserts the message into the routing rules table.
- 7 Select **STCPUBLISHER** and click **Insert**.
- 8 Click **Cancel** to close the dialog box.

The message nodes are now defined on the **Routing Rules** tab of the **Message Channel** window as shown in Figure 22.

Figure 22 Viewing the Message Nodes



Defining Routing Directions for Message Nodes

Routing directions provide you with the ability to assign destinations (Publish To/Subscribe From) to a message node. This section describes the procedure for defining the routing directions for the eWay message node, **Subscribe From**.

To define the routing directions

- 1 In the **Routing Rules** Tab of **Message Channel** window in the Application Designer, right-click **Both (Publish and Subscribe)** for **STCPUBLISHER**, click **Routing Direction**, then **Subscribe From**.
- 2 Right-click **Both (Publish and Subscribe)** for **PSFT_EP**, click **Routing Direction**, and click **Publish To**.

The **Routing Rules** tab now shows that the eWay message node is subscribing to messages from **PSFT_EP** and is publishing to **STCHTTP** (see Figure 23).

Figure 23 Viewing Routing Directions

Messages Routing Rules		
Direction	Message Node Name	Message Node Description
 Publish to	STCHTTP	
 Subscribe from	PSFT_EP	PS FDM - Local Node

- 3 Click **Save** on the **File** menu. You have now defined the routing rule that allows the appropriate message to be published from the eWay to PeopleSoft.

4.3.4 Adding the PeopleSoft Subscription Handler

The procedure below describes how to add the PeopleSoft subscription handler. Before you start the procedure below, make a note of the following PeopleSoft configurations:

- Jolt listener host
- Jolt listener port
- PeopleTools version
- Operator ID
- Operator ID password

To add the PeopleSoft handler directory

- 1 Navigate to the following URL in a browser to open the handler directory:

For Apache:

`http://PSFTHOST/servlets/psft.pt8config.ConfigServlet`

For WebLogic:

`http://PSFTHOST/servlets/gateway.administration`

where *PSFTHOST* is the host where the PeopleSoft Application Messaging Gateway is installed.

The **Handler Directory** page appears (see Figure 24).

Figure 24 Adding the PeopleSoft Handler Directory

Handler	Status	Load	Unload	Configure	Delete
Add handler					

2 Click **Add handler**. The **Add Handler** page appears.

3 Enter the PeopleSoft handler class:

`psft.pt8.psfthandler.PeopleSoftHandler`

as displayed in Figure 25 and click **Save**.

Figure 25 Viewing the New Handler

Handler	Status	Load	Unload	Configure	Delete
psft.pt8.psfthandler.PeopleSoftHandler	Not loaded	Load			Delete
Add handler					

4 Click **Load** to load the PeopleSoft handler class you just added. The status changes to **Loaded successfully**.

5 Click **Configure** to configure the handler. The **Manage Lookup Table** page for the PeopleSoft handler appears (see Figure 26).

Figure 26 Managing the Lookup Table

Node	Machine address:port#	Tools Version	OPRID	Actions
Add a new node				

6 Click **Add a new node** to associate the node with this subscription handler. The **Add an address** window appears (see Figure 27).

Figure 27 Adding an Address

Node	Machine address:port#	Tools Version	OPRID	Password
PSFT_EP e.g., EOE_REMOTE	//solutions9.9000 e.g., //AKT9000...	8.13 e.g., 8.10	VP1 e.g., FTDMO	password e.g., PASSWORD
Save address				
Cancel				

7 Enter the values for the new node, **PSFT_EP**, associated with the subscription handler. These values are mandatory.

8 Click **Save address**. The **Manage Lookup Table** page now displays the new node as shown in Figure 28.

Figure 28 Viewing the New Node

Manage Lookup Table					
Node	Machine address:port#	Tools Version	OPRID	Actions	
PSFT_EP	//solutions9.9000	8.13	VP1	Edit	Delete Add
Add a new node					

The Application Messaging Gateway is now ready to receive XML messages from the eWay and publish the XML messages to PeopleSoft.

4.3.5 Configuring for Subscription

To configure PeopleSoft to publish XML messages to the PeopleSoft eWay involves the following steps:

- [Creating an HTTP eWay Message node](#) on page 59
- [Activating the Message Definition for Subscription](#) on page 59
- [Defining the Message Channel Routing Rules](#) on page 59
- [Adding the HTTP publication handler](#) on page 59

4.3.6 Creating an HTTP eWay Message node

Refer to [“Creating the PeopleSoft Node to Receive eGate HTTP Posts” on page 52](#) to create a message node associated with the PeopleSoft eWay. A message node called STCHTTP is used as an example.

4.3.7 Activating the Message Definition for Subscription

Refer to [“Activating the Message Definition to Receive eGate Posts” on page 54](#) to activate the message to be published to the PeopleSoft eWay. In this case, activate the PO-EXPECTED_RECEIPT_SHIPTO message.

4.3.8 Defining the Message Channel Routing Rules

Refer to [“Defining Message Channel Routing Rules” on page 55](#) to define the routing rules for the message channel to be used.

- Insert the PSFT_EP message node and the HTTP message node previously created.
- Define the routing direction. Select **Subscribe From** for PSFT_EP and **Publish To** for the HTTP message node (STCHTTP).

4.3.9 Adding the HTTP publication handler

This procedure describes how to add the HTTP publication handler. Before you start, verify that the HTTP publication handler is installed as described in [“Installing the HTTP Publication Handler for PeopleTools 8.13” on page 15](#). Also, obtain the HTTP

configuration values for the eWay which is to receive the XML message(s) from PeopleSoft. These are required when configuring the message node corresponding to the subscription handler.

To obtain the HTTP configuration values

- 1 Navigate to the following URL in a browser to open the handler directory:

For **Apache**:

```
http://<yourmachinename>:18001/  
<yourdeploymentname>_servlet_<servletname>/<servletname>.
```

For **WebLogic**:

```
http://<PSFTHOST>/servlets/gateway.administration
```

where *<PSFTHOST>* is the host where the PeopleSoft Application Messaging Gateway is installed.

The **Handler Directory** page appears (see Figure 29).

Figure 29 Adding the PeopleSoft Handler Directory

Handler	Status	Load	Unload	Configure	Delete
Add handler					

- 2 Click **Add handler**. The **Add Handler** page appears.
- 3 Enter the HTTP publication handler class as shown below and click **Save**.
`com.stc.ewpsoft8.stchttphandler.HTTPHandler`
- 4 Click **Save**. The **Handler Directory** page displays the new handler (see Figure 30).

Figure 30 Adding the PeopleSoft Handler Directory

Handler	Status	Load	Unload	Configure	Delete
psft.pt8.psftHandler.PeopleSoftHandler	Loaded successfully		Unload	Configure	
psft.pt8.filehandler.SimpleFileHandler	Loaded successfully		Unload	Configure	
com.stc.eways.psoftadapter.httpHandler.HttpHandler	Loaded successfully		Unload	Configure	
com.stc.ewpsoft8.stcmuxhandler.MuxHandler	Not loaded	Load			Delete
Add handler					

- 5 Click **Load**. The status changes to **Loaded successfully**.
- 6 Click **Configure** for the HTTP handler. The **HTTP Handler Directory** page appears.
- 7 Click **Add an HTTP node** to associate a node with this subscription handler.
- 8 Enter the values for the new node associated with the subscription handler. Scroll to the right to access additional columns.
- 9 In the **Include Headers** column, indicate whether or not you want header information to be retained in the received messages. All values are mandatory.

- A Selecting the check box preserves the header information.
 - B Deselecting the check box strips the header information.
- 10 Click **Save**. This displays the **STCHTTP** node entries. If the entries are correct, the Application Messaging Gateway now can receive XML messages from PeopleSoft and publish the XML messages to the PeopleSoft eWay (in HTTP mode).

You can now ping the HTTP host from the system where the **com.stc.eWays.psofthandler.jar** file is installed. You may need to use the system's full host name.

Chapter 5

Using the PeopleSoft eWay with eInsight

This chapter describes how to use the PeopleSoft eWay with the Sun Java Composite Application Platform Suite's eInsight Business Process Manager and the Web Services interface.

Note: You must have the *eInsight.sar* file installed to use the Web Services interface.

What's in This Chapter

- [The eInsight Engine and Components](#) on page 62
- [The PeopleSoft eWay With eInsight](#) on page 63
- [The PeopleSoft eWay eInsight Sample Project](#) on page 63
- [Importing a Sample Project](#) on page 64
- [Creating the prjPeopleSoft_Sample_BPEL Project](#) on page 65
- [Creating an Environment](#) on page 74
- [Running the Sample](#) on page 79

5.1 The eInsight Engine and Components

eGate components can be deployed as Activities in eInsight Business Processes. Using the Enterprise Designer with eInsight, you can add an Activity to a Business Process, then associate that Activity with an eGate component, such as an eWay. Then, when eInsight runs the Business Process, it automatically invokes that component using its Web Services interface. eGate components that can interface with eInsight in this way include:

- Object Type Definitions (OTDs)
- eWays
- Collaborations

See the *eInsight Business Process Manager User's Guide* for details.

5.2 The PeopleSoft eWay With eInsight

An eInsight Business Process Activity can be associated with the PeopleSoft eWay during the system design phase. To make this association, select the desired operators under the eWay in the Enterprise Explorer and drag it onto the eInsight Business Process Designer canvas.

The PeopleSoft eWay has the following operators available:

- **sendMessage** (for PSoftHTTP client)
- **processRequest** (for PSoftHTTPServer) This supplies both the receive and reply operators.

The operation is automatically changed to an Activity with an icon identifying the component that is the basis for the Activity. At run time, eInsight invokes each step in the order defined by the Business Process. Using eInsight's Web Services interface, the Activity in turn invokes the PeopleSoft eWay.

5.3 The PeopleSoft eWay eInsight Sample Project

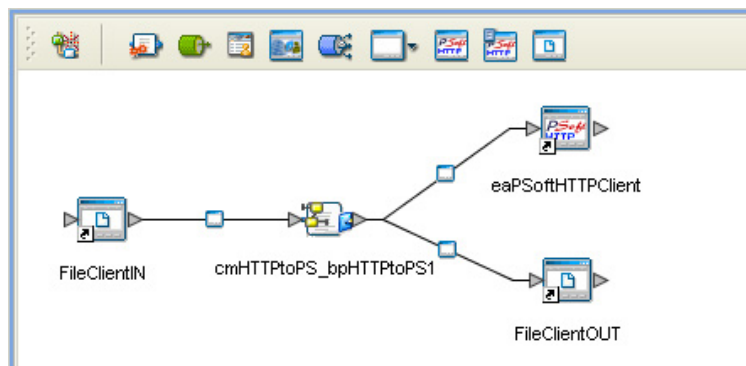
The PeopleSoft eWay sample eInsight Project, **prjPeopleSoft_Sample_BPEL**, includes the following sample operations:

- **HTTPtoPS**: publishes messages to PeopleSoft using HTTP (see Figure 31).
- **PStoHTTP**: Receives messages from PeopleSoft using HTTP (see [Figure 32 on page 64](#)).

This PeopleSoft sample Project is for **PeopleTools 8.42**, and demonstrates how eInsight/eGate communicates with PeopleSoft using HTTP.

The eInsight HTTP sample Project contains an outbound and an inbound data flow. The outbound data flow is from eGate to PeopleSoft; the inbound flow is from PeopleSoft to eGate. Figure 31 shows the **outbound data flow** in the Connectivity Map.

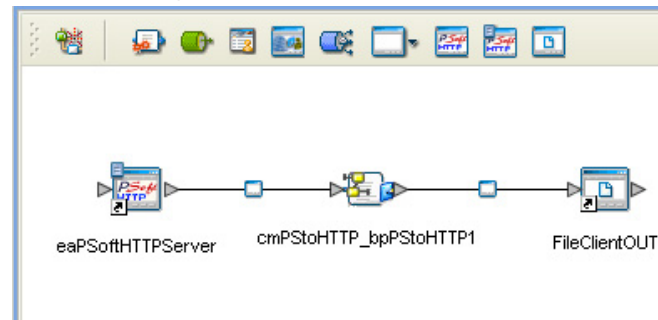
Figure 31 eInsight HTTP Sample Project—Outbound Data Flow



In this data flow, the inbound File eWay receives the sample **PSHTTP_BPEL** data file from the **input** directory. The Business Process **bpHTTPtoPS** receives the input data,

and publishes the data to the external PeopleSoft server using HTTP. The response from the PeopleSoft server is written to an external file using the outbound File eWay.

Figure 32 eInsight HTTP Sample Project—Inbound Data Flow



In the **inbound data flow**, displayed in Figure 32, the Business Process, **bpPStoHTTP**, receives a message from the PeopleSoft server using HTTP and publishes the contents of the message to an external file using the outbound File eWay.

The following pages provide directions for importing and completing the sample Project. In addition, this chapter provides directions for creating the sample Project manually.

For more information on using eInsight and creating Business Processes, see the *Sun SeeBeyond eInsight™ Business Process Manager User's Guide*.

5.4 Importing a Sample Project

Sample eWay Projects are included as part of the installation package. To import a sample eWay Project to the Enterprise Designer do the following:

- 1 The sample files are uploaded with the eWay's documentation SAR file and downloaded from the Sun Composite Application Platform Suite Installer's Documentation tab. The **PeopleSoft_eWay_Sample.zip** file contains the various sample Project zip files and sample data. Extract the samples to a local file.
- 2 Save all unsaved work before importing a Project.
- 3 From the Enterprise Designer's Project Explorer pane, right-click the Repository and select **Import** from the shortcut menu. The **Import Manager** appears.
- 4 Browse to the directory that contains the sample Project zip file. Select the sample file (for this sample, **prjPeopleSoft_Sample_BPEL.zip**) and click **Import**. After the sample Project is successfully imported you can import additional samples or click **Close** to exit the Import Manager.
- 5 Before an imported sample Project can be run you must do the following:
 - ♦ Create an **Environment** (see ["Creating an Environment" on page 74](#))
 - ♦ Configure the eWays for your specific system (see ["Configuring the eWays" on page 75](#))

- ♦ Create a **Deployment Profile** (see “[Creating and Activating the Deployment Profile](#)” on page 77)
- ♦ Create and start a domain (see “[Creating and Starting the Domain](#)” on page 78)
- ♦ Build and deploy the Project (see “[Building and Deploying the Project](#)” on page 78)

The following pages provide step by step directions for manually creating the prjPeopleSoft_Sample_BPEL Project.

5.5 Creating the prjPeopleSoft_Sample_BPEL Project

The prjPeopleSoft_Sample_BPEL Project demonstrates the same operations as the prjPeopleSoft_Sample_JCD Project. The difference between the two Projects is that the prjPeopleSoft_Sample_BPEL Project uses eInsight Business Processes to perform the business logic, where as the prjPeopleSoft_Sample_JCD uses Java Collaborations to perform the business logic.

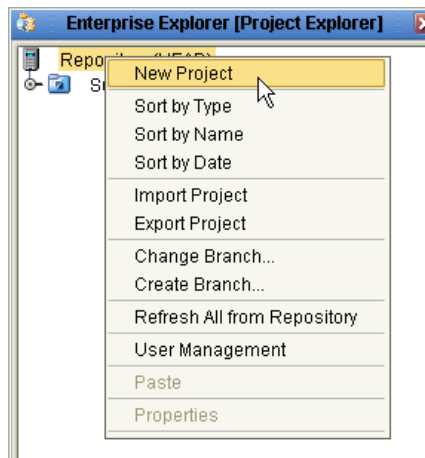
The following pages provide step by step directions for creating the prjPeopleSoft_Sample_BPEL Project.

5.5.1. Creating a Project

The first step is to create a new Project in the Enterprise Designer.

- 1 Start the Enterprise Designer.
- 2 From the Project Explorer tree, right-click the Repository and select **New Project** (see Figure 33). A new Project (**Project1**) appears on the Project Explorer tree.

Figure 33 Enterprise Explorer - New Project



- 3 Rename the Project (for this sample, **prjPeopleSoft_Sample_BPEL**).

5.5.2 Creating The Business Processes

The next step is to create the Project's two Business Processes:

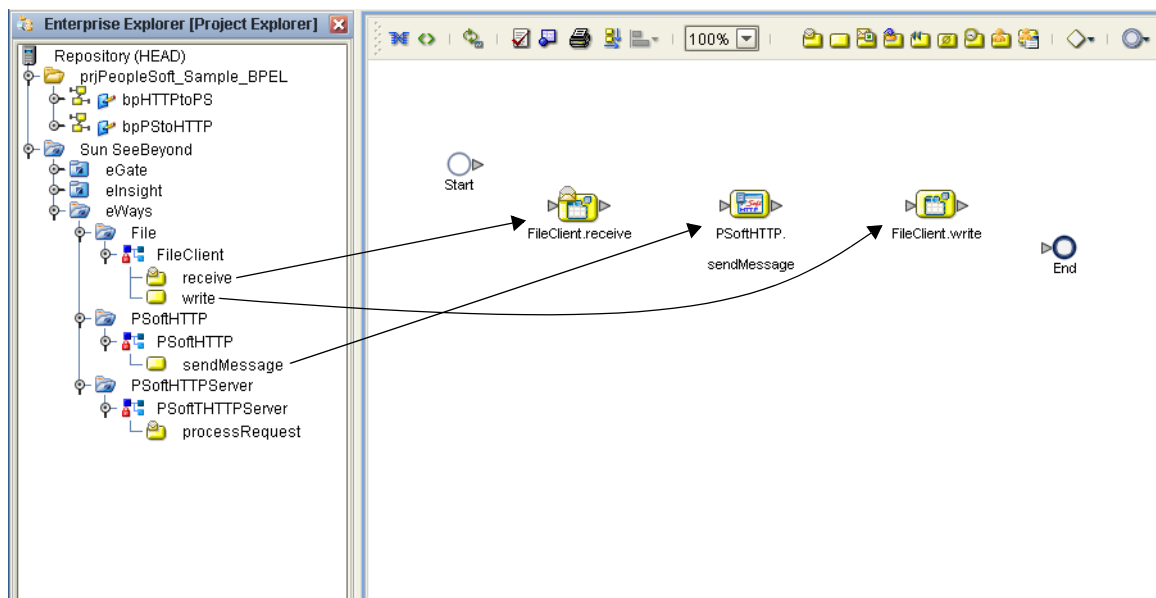
- **bpHTTPtoPS**
- **bpPSstoHTTP**

To create the Business Processes, do the following:

Create the bpHTTPtoPS Business Process

- 1 Right-click the **prjPeopleSoft_Sample_BPEL** Project in the Enterprise Designer's Project Explorer, and select **New > Business Process** from the shortcut menu. The eInsight Business Process Designer appears and **BusinessProcess1** is added to the Project Explorer tree. Rename **BusinessProcess1** to **bpHTTPtoPS**.
- 2 From the Project Explorer tree, expand the **Sun SeeBeyond > eWays > PSoftHTTP > PSoftHTTP and PSoftHTTPServer nodes**, and also the **File > FileClient** nodes, to display all of the necessary activities for the Business Process.
- 3 Populate the eInsight Business Process Designer's modeling canvas with the following activities from the Project Explorer tree as displayed in Figure 34:
 - ♦ **receive**, located under **Sun SeeBeyond > eWays > File > FileClient**
 - ♦ **sendMessage**, located under **Sun SeeBeyond > eWays > PSoftHTTP > PSoftHTTP**
 - ♦ **write**, located under **Sun SeeBeyond > eWays > File > FileClient**

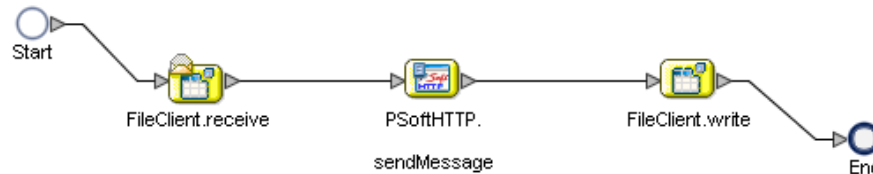
Figure 34 eInsight Business Process Designer - Populate the Canvas



- 4 Link the modeling elements by clicking on the element connector and dragging the cursor to the next element connector, making the following links as displayed in [Figure 35 on page 67](#).

- ◆ **Start to FileClient.receive**
- ◆ **FileClient.receive to PSoftHTTP.sendMessage**
- ◆ **PSoftHTTP.sendMessage to FileClient.write.**
- ◆ **FileClient.write to End**

Figure 35 Business Process Designer - Link the Modeling Elements



Configure the bpHTTPtoPS Modeling Elements

Business Rules, created between the Business Process Activities, allow you to configure the relationships between the input and output Attributes of the Activities using the Business Process Designer's Business Rule Designer.

Adding Business Rules

- 1 Right-click the link between the **FileClient.receive** and **PSoftHTTP.sendMessage** Activities and select **Add Business Rule** from the shortcut menu (see Figure 36).

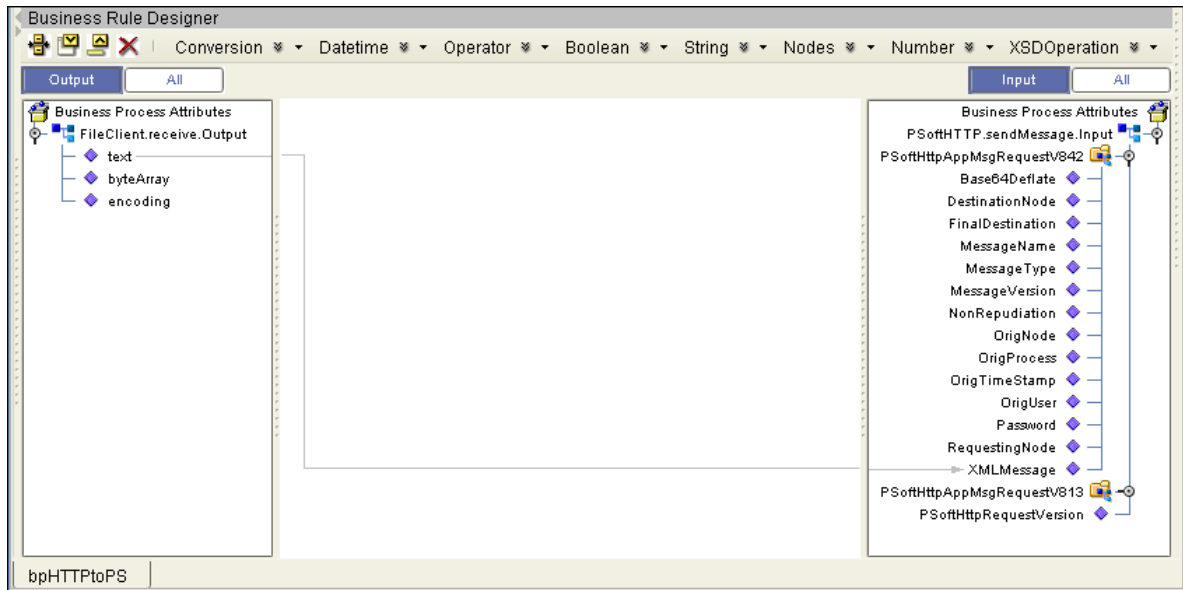
Figure 36 eInsight Business Process Designer - Adding Business Rules



Using the Business Rule Designer

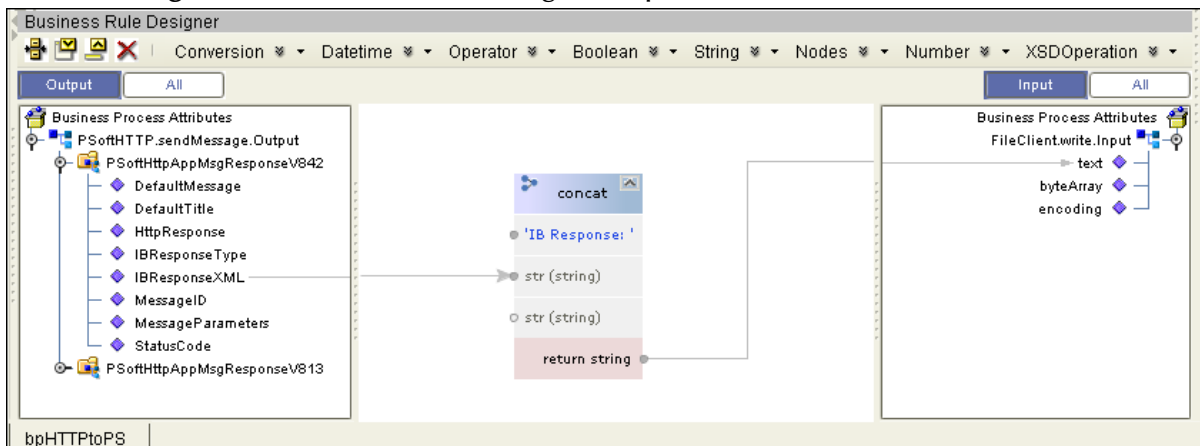
- 2 From the eInsight Business Process Designer toolbar, click the **Display Business Rule Designer** button. The Business Rule Designer appears at the bottom of the eInsight Business Process Designer.
- 3 Click on the Business Rule icon in the link between **FileClient.receive** and **PSoftHTTP.sendMessage** to display the Business Rule's Input and Output Attributes in the Business Rule Designer.
- 4 Map **text**, under **FileClient.receive.Output** in the Output pane of the Business Rule Designer, to **XMLMessage** under **PSoftHTTP.sendMessage.Input** > **PSoftHttpAppMsgRequestV842** in the Input pane of the Business Rule Designer. To do this, click on **text** in the Output pane and drag the cursor to **XMLMessage** in the Input pane. A link now connects the two nodes in the Business Rule Designer (see [Figure 37 on page 68](#)).

Figure 37 Business Rule Designer - bpHTTPtoPS Business Process



- 5 Add another Business Rule in the link between **PSoftHTTP.sendMessage** and **FileClient.write**. Click on the new Business Rule icon between **PSoftHTTP.sendMessage** and **FileClient.write** to display the Business Rule's Input and Output Attributes.
- 6 From the Business Rule Designer toolbar's **String** menu, select **concat**. The **concat** method box appears.
- 7 Double-click the **String** field of the **concat** method box and enter **IB Response:** as the value.
- 8 Map **IBResponseXML**, under **PSoftHTTP.sendMessage.Output** > **PSoftHttpAppMsgResponseV842** in the Output pane of the Business Rule Designer, to the **str (string)** input node of the **concat** method box.
- 9 Map the **return string** output node of the **concat** method box, to **text**, under **FileClient.write.Input** in the Input pane of the Business Rule Designer (see Figure 38).

Figure 38 Business Rule Designer - bpHTTPtoPS Business Process

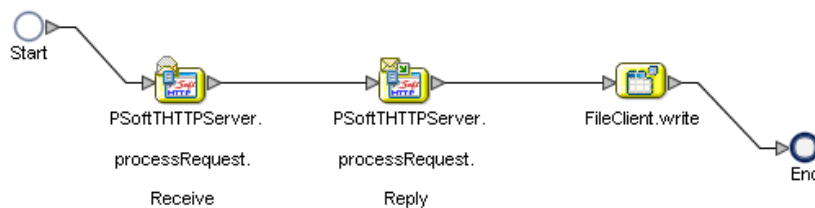


- 10 From the Business Process Designer toolbar, click the **Synchronize Graphical Model and Business Process** icon to synchronize the graphical interface to the Business Process code.
- 11 Save your changes to the Repository.

Create the bpPStoHTTP Business Process

- 1 Right-click the Project in the Enterprise Designer's Project Explorer, and select **New > Business Process** from the shortcut menu. The eInsight Business Process Designer appears and **BusinessProcess1** is added to the Project Explorer tree. Rename **BusinessProcess1** to **bpPStoHTTP**.
- 2 Populate the eInsight Business Process Designer's modeling canvas with the following activities from the Project Explorer tree as displayed in Figure 39:
 - ♦ **processRequest**, under **Sun SeeBeyond > eWays > PSoftHTTP > PSoftHTTPServer** (This automatically adds the **processRequest.receive** and the **processRequest.Reply** Activities to the Business Process Designer canvas.
 - ♦ **write**, under **Sun SeeBeyond > eWays > File > FileClient**
- 3 Link the modeling elements as displayed in Figure 39.

Figure 39 Business Process Designer - bpPStoHTTP

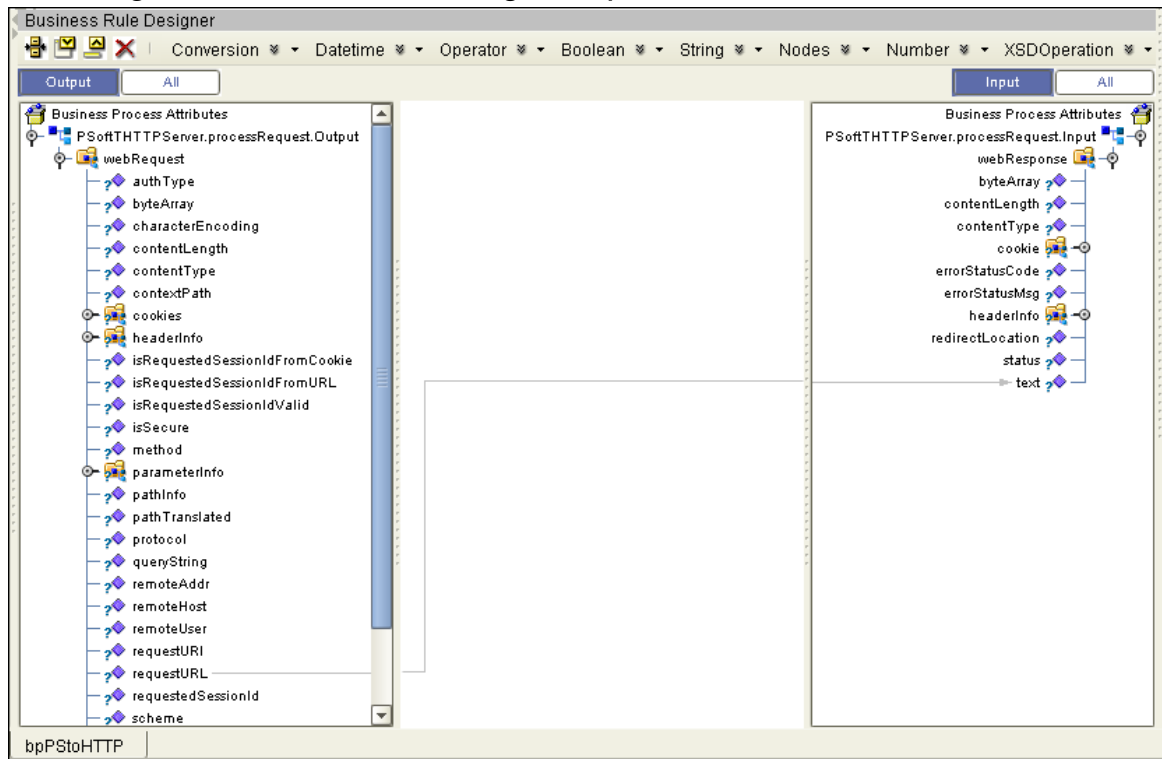


Configure the bpPStoHTTP Modeling Elements

To create the **bpPStoHTTP** Business Rules do the following:

- 1 Right-click the link between the **PSoftTHTTPServer.processRequest.Receive** and **PSoftTHTTPServer.processRequest.Reply** Activities and select **Add Business Rule** from the shortcut menu.
- 2 From the eInsight Business Process Designer toolbar, click the **Display Business Rule Designer** button. The Business Rule Designer appears at the bottom of the eInsight Business Process Designer.
- 3 Click on the Business Rule icon in the link between **PSoftTHTTPServer.processRequest.Receive** and **PSoftTHTTPServer.processRequest.Reply** to display the Business Rule's Input and Output Attributes in the Business Rule Designer.
- 4 Map **requestURL**, under **PSoftHTTPServer.processRequest.Output > webRequest** in the Output pane of the Business Rule Designer, to **text** under **PSoftHTTPServer.processRequest.Input** in the Input pane of the Business Rule Designer (see [Figure 40 on page 70](#)).

Figure 40 Business Rule Designer - bpPStoHTTP Business Process



- 5 Add another Business Rule in the link between **PSoftTHTTPServer.processRequest.Reply** and **FileClient.write**. Click on the new Business Rule icon to display the Business Rule's Input and Output Attributes.
- 6 Map text, under **PSoftTHTTPServer.processRequest.Output > webRequest** in the Output pane of the Business Rule Designer, to text under **FileClient.write.Input** in the Input pane of the Business Rule Designer
- 7 From the Business Process Designer toolbar, click the **Synchronize Graphical Model and Business Process** icon to synchronize the graphical interface to the Business Process code.
- 8 Save your changes to the Repository.

5.5.3 Creating a Connectivity Map

The Connectivity Map provides a canvas for assembling and configuring a Project's components. The prjPeopleSoft_Sample_BPEL Project uses two Connectivity Maps:

- cmHTTPtoPS (outbound data flow)
- cmPStoHTTP (inbound data flow)

To create the Connectivity Maps, do the following:

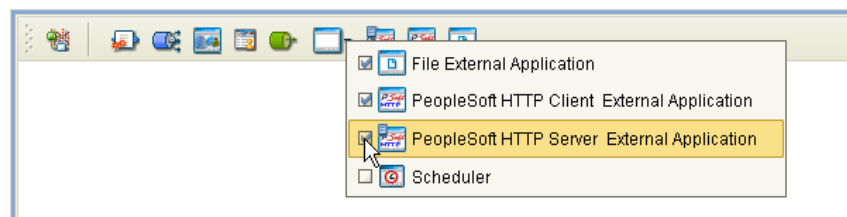
- 1 From the Project Explorer tree, right-click the new **prjPeopleSoft_Sample_BPEL** Project and select **New > Connectivity Map** from the shortcut menu.

- 2 The New Connectivity Map appears and a node for the Connectivity Map is added under the Project on the Project Explorer tree labeled **CMap1**. Rename the Connectivity Map **cmHTTPtoPS**.
- 3 Create an additional Connectivity Map named **cmPStoHTTP**.

Selecting the External Applications

The icons in the toolbar represent the available components used to populate the Connectivity Map canvas. In the Connectivity Maps, eWays are associated with External Systems. For example, to establish a connection to an external PeopleSoft HTTP Server application, you must first select PeopleSoft HTTP Server as an External Application to use in your Connectivity Map (see Figure 41).

Figure 41 Connectivity Map - External Applications



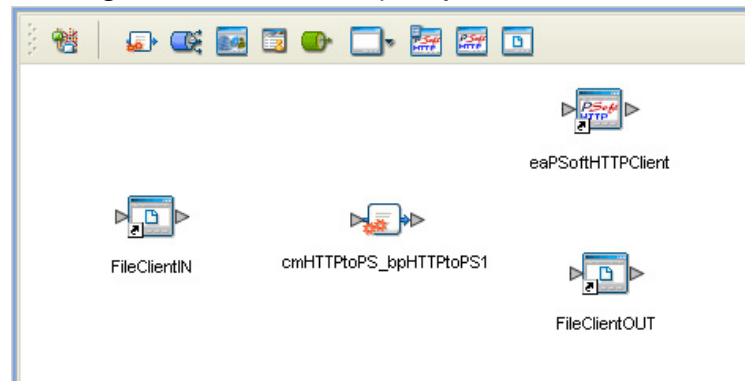
- 1 Click the **External Application** icon on the Connectivity Map toolbar,
- 2 Select the External Applications you require to create your Project (for this sample, **File**, **PeopleSoft HTTP Client**, and **PeopleSoft HTTP Server**). Icons representing the selected External Applications are added to the Connectivity Map toolbar.

Populating the Connectivity Maps

For the **cmHTTPtoPS** Connectivity Map, add the Project components by dragging the icons from the toolbar to the canvas.

- 1 For this sample, populate the Connectivity Map by dragging the following components onto the Connectivity Map canvas as displayed in [Figure 42 on page 72](#).
 - ♦ File External System (2)
 - ♦ Service (A service is a container for Java Collaborations, Business Processes, eTL processes, and so forth)
 - ♦ PeopleSoft HTTP Client
- 2 Rename the cmHTTPtoPS Connectivity Map components as follows:
 - ♦ File1 to **FileClientIN**
 - ♦ cmHTTPtoPS_Service1 to **cmHTTPtoPS_bpHTTPtoPS1**
 - ♦ PSoftHTTPClient1 to **eaPSoftHTTPClient**
 - ♦ File2 to **FileClientOut** (see [Figure 42 on page 72](#))

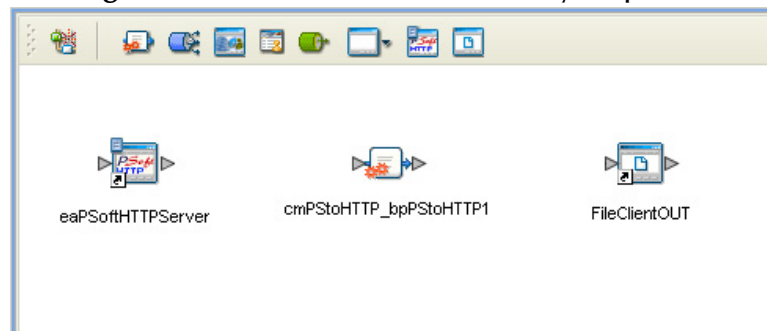
Figure 42 Connectivity Map - cmHTTPtoPS



- 3 Populate the **cmPStoHTTP** Connectivity Map with the following components, as displayed in [Figure 43 on page 72](#):

- ♦ File External System (rename to **eaPSoftHTTPServer**)
- ♦ Service (rename to **cmPStoHTTP_bpPStoHTTP1**)
- ♦ File External System (rename to **FileClientOUT**)

Figure 43 cmPStoHTTP Connectivity Map



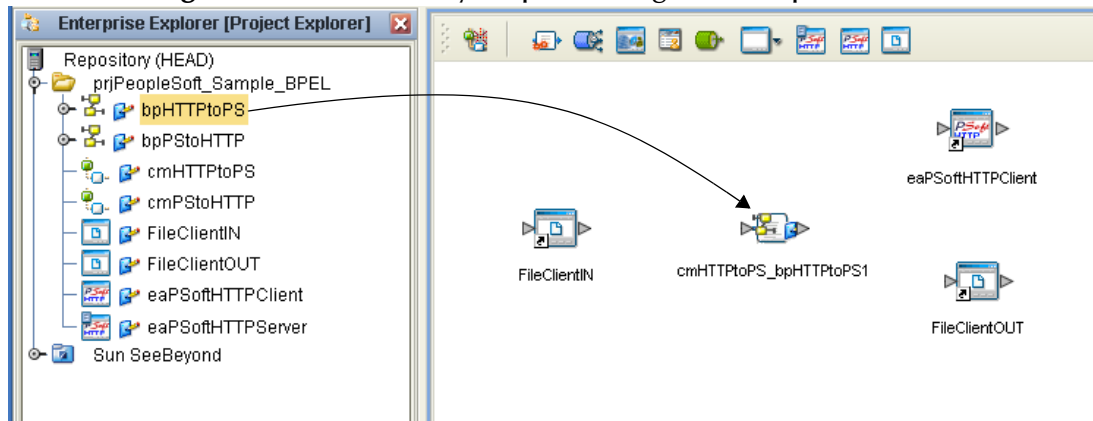
- 4 Save your current changes to the Repository.

5.5.4 Binding the eWay Components

After the Business Process have been created, the components are associated and bindings are created in the Connectivity Maps.

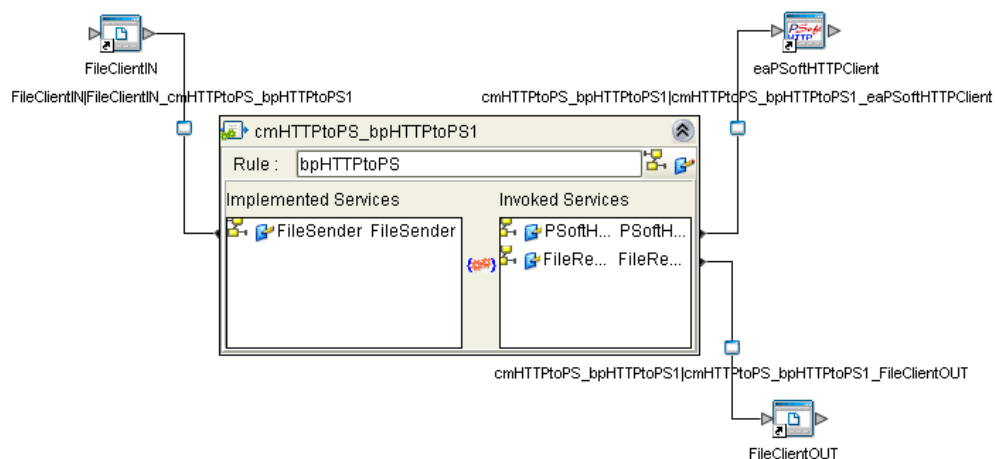
- 1 From the Project Explorer, double-click **cmHTTPtoPS** to display the **cmHTTPtoPS** Connectivity Map.
- 2 Drag and drop the **bpHTTPtoPS** Business Process from the Project Explorer to the **cmHTTPtoPS_bpHTTPtoPS1** Service. If the Business Process was successfully associated, the Service icon changes to a Business Process (see [Figure 44 on page 73](#)).

Figure 44 Connectivity Map - Binding the Components



- 3 From the Connectivity Map canvas, double-click **cmHTTPtoPS_bpHTTPtoPS1**. The **cmHTTPtoPS_bpHTTPtoPS1** binding dialog box appears using the **bpHTTPtoPS** Rule.
- 4 From the **cmHTTPtoPS_bpHTTPtoPS1** binding dialog box, map **FileSender** (under Implemented Services) to the output node of the inbound **FileClientIN** External Application. To do this, click on **FileSender** under Implemented Services in the **cmHTTPtoPS_bpHTTPtoPS1** binding box, and drag your cursor to the output node of the **FileClientIN** External Application. A link now joins the two components.
- 5 From the **cmHTTPtoPS_bpHTTPtoPS1** binding dialog box, map **PSoftHTTPReceiver** (under Invoked Services) to the input node of the **eaPSoftHTTPClient** External Application.
- 6 From the **cmHTTPtoPS_bpHTTPtoPS1** binding dialog box, map **FileReceiver** (under Invoked Services) to the input node of the **FileClient** External Application (see [Figure 45 on page 73](#)).

Figure 45 Connectivity Map - Associating (Binding) the Project's Components



- 7 Minimize the **cmHTTPtoPS_bpHTTPtoPS1** binding dialog box.
- 8 From the Project Explorer, double-click **cmPStoHTTP** to display the **cmPStoHTTP** Connectivity Map.

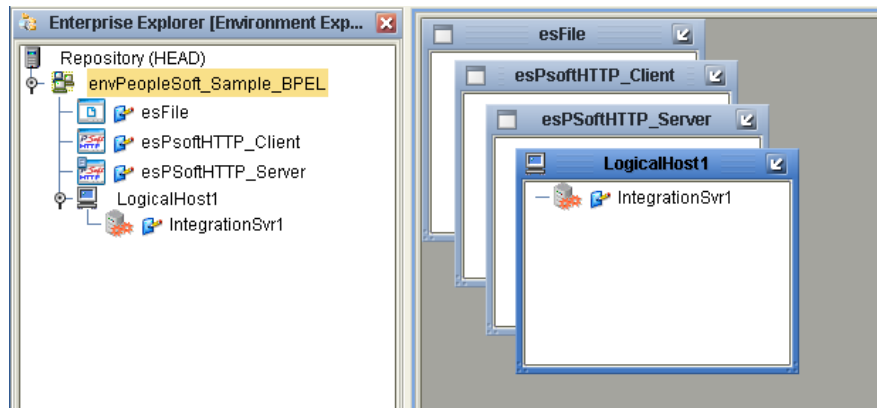
- 9 Drag and drop the **bpPStoHTTP** Business Process from the Project Explorer to the **cmPStoHTTP_bpPStoHTTP1** Service.
- 10 From the Connectivity Map, double-click the **cmPStoHTTP_bpPStoHTTP1** Service. The **cmPStoHTTP_bpPStoHTTP1** binding dialog box appears with the **bpPStoHTTP** Rule.
- 11 From the **cmPStoHTTP_bpPStoHTTP1** binding dialog box, map **PSoftHTTPSender** (under Implemented Services) to the output node of the **eaPSoftHTTPServer** External Application.
- 12 From the **cmPStoHTTP_bpPStoHTTP1** binding dialog box, map **FileReceiver** (under Invoked Services) to the input node of the **FileClientOUT** External Application.
- 13 Minimize the **cmPStoHTTP_bpPStoHTTP1** binding dialog box. Save your current changes to the Repository.

5.5.5 Creating an Environment

Environments include the external systems, Logical Hosts, integration servers and message servers used by a Project and contain the configuration information for these components. Environments are created using the Enterprise Designer's Environment Editor.

- 1 From the Enterprise Designer's Enterprise Explorer, click the **Environment Explorer** tab.
- 2 Right-click the Repository and select **New Environment**. A new Environment is added to the Environment Explorer tree.
- 3 Rename the new Environment to **envPeopleSoft_Sample_BPEL**.
- 4 Right-click **envPeopleSoft_Sample_BPEL** and select **New > File External System**. Name the External System **esFile** and click **OK**. **esFile** is added to the Environment Editor.
- 5 Right-click **envPeopleSoft_Sample_BPEL** and select **New > PSoftHTTP Client External System**. Name the External System **esPsoftHTTP_Client** and click **OK**. **esEmail** is added to the Environment Editor.
- 6 Right-click **envPeopleSoft_Sample_BPEL** and select **New > PSoftHTTP Server External System**. Name the External System **esPsoftHTTP_Client** and click **OK**. **esEmail** is added to the Environment Editor.
- 7 Right-click **envPeopleSoft_Sample_BPEL** and select **New > Logical Host**. **LogicalHost1** is added to the Environment Editor.
- 8 From the Environment Explorer tree, right-click **LogicalHost1** and select **New > Sun SeeBeyond Integration Server**. A new Integration Server (**IntegrationSvr1**) is added to the Environment Explorer tree under **LogicalHost1**.
- 9 Save changes to the repository. The Environment Explorer and Environment Editor now appear as displayed in Figure 46.

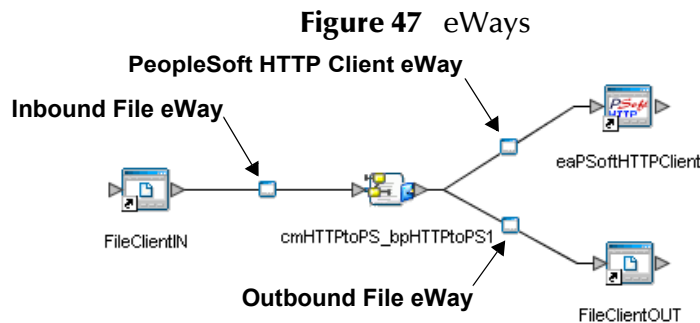
Figure 46 Environment Editor - envPeopleSoft_Sample_BPEL



- 10 Save your current changes to the Repository.

5.5.6 Configuring the eWays

The prjPeopleSoft_Sample_BPEL Project uses three eWays, each represented in the Connectivity Maps as a node between an External Application and a Service. eWays facilitate communication and movement of data between the External Applications and the eGate system.



The eWay properties are set from both the Project Explorer's Connectivity Maps and the Environment Explorer tree.

Configuring the File eWay Properties

- 1 From the cmHTTPtoPS Connectivity Map, double-click the inbound **FileClientIN** eWay (see Figure 47). The **Properties Editor** opens to the inbound File eWay properties.
- 2 Modify the properties for your system, including the settings for the inbound File eWay in Table 18, and click **OK**.

Table 18 cmHTTPtoPS - Inbound File eWay Settings

FileClientIN eWay Connection Parameters	
Input file name	PSHTTP_BPEL.in

- 3 From the cmHTTPtoPS Connectivity Map, modify the outbound **FileClientOUT** eWay properties for your system, including the settings in Table 19.

Table 19 cmHTTPtoPS - Outbound File eWay Settings

Outbound File eWay Connection Parameters	
Output file name	HTTPtoPS_BPEL_output.txt

- 4 In the same way, modify the properties of the cmPStoHTTP Connectivity Maps outbound **FileClientOUT** eWay with the settings in Table 20.

Table 20 cmPStoHTTP - Outbound File eWay Settings

Outbound File eWay Connection Parameters	
Output file name	PStoHTTP_BPEL_output.txt

- 5 From the **Environment Explorer** tree, right-click the File eWay External System (**esFile** in this sample), and select **Properties** from the shortcut menu. The Properties Editor appears.
- 6 Modify the File eWay Environment properties for your system, including the settings in Table 21, and click **OK**.

Table 21 File eWay Environment Properties

File eWay Environment Properties	
Inbound File eWay > Parameter Settings Set as directed, otherwise use the default settings	
Directory	Select a directory, for example C:/DATA/input/Psoft
Outbound File eWay > Parameter Settings Set as directed, otherwise use the default settings	
Directory	Select a directory, for example C:/DATA/output

Configuring the PeopleSoft eWay Properties

- 1 The default PeopleSoft eWay **Connectivity Map** properties are sufficient for this sample.
- 2 From the **Environment Explorer** tree, right-click the PeopleSoft HTTP Client eWay External System (**esPSoftHTTP_Client** in this sample), and select **Properties** from the shortcut menu. The Properties Editor appears.
- 3 Modify the PeopleSoft HTTP Client eWay Environment properties for your system, including the following settings:
 - ♦ Destination node
 - ♦ Message name
 - ♦ Message version
 - ♦ Requesting node

These properties must match the configuration on your PeopleSoft server. For information refer to [“Configuring PeopleTools 8.42” on page 37](#).

5.5.7 Configuring the Integration Server

You must set your Sun SeeBeyond Integration Server Password property before deploying your Project.

- 1 From the Environment Explorer, right-click **IntegrationSvr1** under your **Logical Host**, and select **Properties** from the shortcut menu. The Integration Server Properties Editor appears.
- 2 Click the **Password** property field under **Sun SeeBeyond Integration Server Configuration**. An ellipsis appears in the property field.
- 3 Click the ellipsis. The **Password Settings** dialog box appears. Enter **STC** as the **Specific Value** and as the **Confirm Password**, and click **OK**.
- 4 Click **OK** to accept the new property and close the Properties Editor.

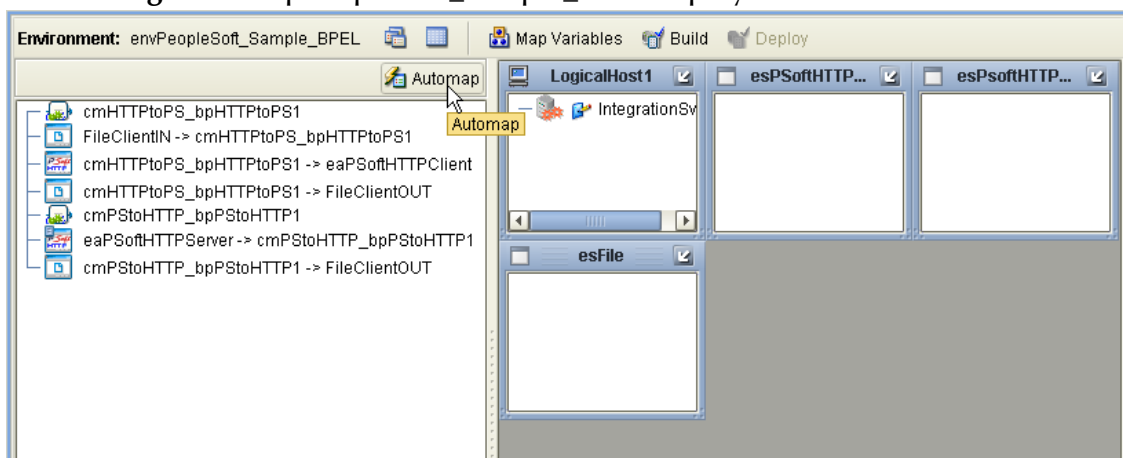
For more information on deploying a Project see the *Sun SeeBeyond Java™ Composite Application Platform Suite Deployment Guide*.

5.5.8 Creating and Activating the Deployment Profile

Deployment Profiles are used to assign Collaborations and message destinations to the integration server and message server. Deployment profiles are created using the Deployment Editor.

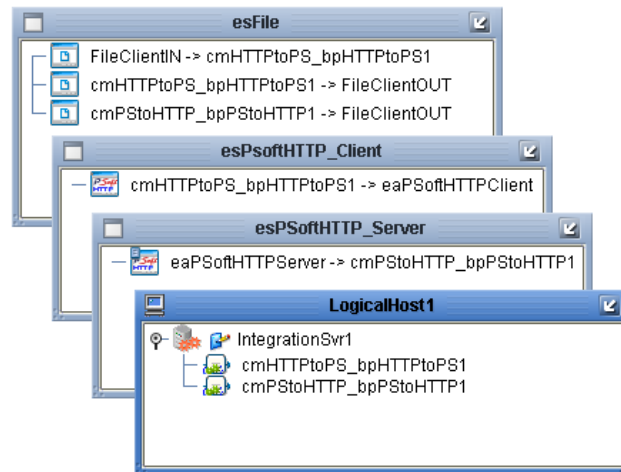
- 1 From the Project Explorer, right-click the **prjPeopleSoft_Sample_BPEL** Project and select **New > Deployment Profile**.
- 2 Enter a name for the Deployment Profile (for this sample **dpPeopleSoft_Sample_BPEL**). Select **envPeopleSoft_Sample_BPEL** as the Environment and click **OK**.
- 3 From the Deployment Editor toolbar, click the **Automap** icon (see Figure 48).

Figure 48 dpPeopleSoft_Sample_BPEL Deployment Profile



- 4 The Project's components are automatically mapped to their system windows (see [Figure 48 on page 77](#)).

Figure 49 dpPeopleSoft_Sample_BPEL Deployment Profile



- 5 Save your current changes to the Repository.

5.5.9 Creating and Starting the Domain

To deploy your Project you must first create a domain. After the domain is created, the Project is built and then deployed.

Create and Start the Domain

- 1 Navigate to your `<JavaCAPS51>\logicalhost` directory (where `<JavaCAPS51>` is the location of your Java Integration Suite installation).
- 2 Double-click the **domainmgr.bat** file. The **Domain Manager** appears.
- 3 If you have already created a domain, select your domain in the Domain Manager and click the **Start an Existing Domain** button. Once your domain is started, a green check mark indicates that the domain is running.
- 4 If there are no existing domains, a dialog box indicates that you can create a domain now. Click **Yes**. The **Create Domain** dialog box appears.
- 5 Make any necessary changes to the **Create Domain** dialog box and click **Create**. The new domain is added to the Domain Manager. Select the domain and click the **Start an Existing Domain** button. Once your domain is started, a green check mark indicates that the domain is running.

5.5.10 Building and Deploying the Project

The Build process compiles and validates the Project's Java files and creates the Project EAR file.

Build the Project

- 1 From the Deployment Editor toolbar, click the **Build** icon for each of your Deployment Profiles.

- 2 If there are any validation errors, a **Validation Errors** pane will appear at the bottom of the Deployment Editor and displays information regarding the errors. Make any necessary corrections and click **Build** again.
- 3 After the Build has succeeded you are ready to deploy your Project.

Deploy the Project

- 1 From the Deployment Editor toolbar, click the **Deploy** icon. Click **Yes** when the **Deploy** prompt appears. Do this for both of your Deployment Profiles.
- 2 A message appears when the project is successfully deployed. You can now test your sample.

Note: Projects can also be deployed from the Enterprise Manager. For more information about using the Enterprise Manager to deploy, monitor, and manage your projects, see the Sun SeeBeyond eGate™ Integrator System Administration Guide.

5.5.11 Running the Sample

The prjPeopleSoft_Sample_BPEL Project includes the following sample files:

- **PSHTTP_BPEL.in.~in** (input file)
- **HTTPtoPS_BPEL_output.txt** (sample output file example)
- **PStoHTTP_BPEL_output.txt** (sample output file example)

To run your deployed sample Project do the following:

- 1 From your configured input directory, paste (or rename) the sample input file to trigger the eWay.
- 2 From your output directory, verify the output data.

Chapter 6

Using the PeopleSoft eWay with Java Collaborations

This chapter provides an introduction to the PeopleSoft eWay components and information on how these components are created and implemented in an eGate Project that uses Java Collaboration Definitions to provide the business logic. Java Collaboration Definition (JCD) sample Project performs the same operations as the eInsight Project.

For more information on creating an eGate Project see the *Sun SeeBeyond eGate™ Tutorial* and the *Sun SeeBeyond eGate™ Integrator User's Guide*.

What's in This Chapter

- [PeopleSoft eWay Components](#) on page 80
- [Importing a Sample Project](#) on page 81
- [The PeopleSoft eWay JCD Sample Project](#) on page 81
- [Creating the prjPeopleSoft_Sample_JCD Project](#) on page 83
- [Creating an Environment](#) on page 94
- [Running the Sample](#) on page 100

6.1 PeopleSoft eWay Components

This chapter presents a sample PeopleSoft eWay Project created using the same procedures as the sample end-to-end Project provided in the *Sun SeeBeyond eGate Tutorial*. Components that are unique to the PeopleSoft eWay include the following:

PeopleSoft eWay Properties File

The properties file for the PeopleSoft eWay contains the parameters that are used to connect with a specific external system. These parameters are set using the Properties Editor. For more information about the PeopleSoft eWay properties file and the Properties Editor see [“Configuring the e-Mail eWay Properties” on page 18](#).

PeopleSoft OTDs

The PeopleSoft eWay includes the PSoftHTTP and PSoftHTTPServer OTDs contain the data structures and rules that define a PeopleSoft object. These OTDs are used in the Collaboration Definitions to create transform data and interface with external systems.

6.2 Importing a Sample Project

Sample eWay Projects are included as part of the installation package. To import a sample eWay Project to the Enterprise Designer do the following:

- 1 The sample files are uploaded with the eWay's documentation SAR file and downloaded from the Sun Composite Application Platform Suite Installer's Documentation tab. The **PeopleSoft_eWay_Sample.zip** file contains the various sample Project zip files and sample data. Extract the samples to a local file.
- 2 Save all unsaved work before importing a Project.
- 3 From the Enterprise Designer's Project Explorer pane, right-click the Repository and select **Import** from the shortcut menu. The **Import Manager** appears.
- 4 Browse to the directory that contains the sample Project zip file. Select the sample file (for this sample, **prjPeopleSoft_Sample_JCD.zip**) and click **Import**. After the sample Project is successfully imported you can import additional samples or click **Close** to exit the Import Manager.
- 5 Before an imported sample Project can be run you must do the following:
 - ♦ Create an **Environment** (see ["Creating an Environment" on page 94](#))
 - ♦ Configure the eWays for your specific system (see ["Configuring the eWays" on page 95](#))
 - ♦ Create a **Deployment Profile** (see ["Creating and Activating the Deployment Profile" on page 98](#))
 - ♦ Create and start a domain (see ["Creating and Starting the Domain" on page 99](#))
 - ♦ Build and deploy the Project (see ["Building and Deploying the Project" on page 99](#))

The following pages provide step by step directions for manually creating the prjPeopleSoft_Sample_JCD Project.

6.3 The PeopleSoft eWay JCD Sample Project

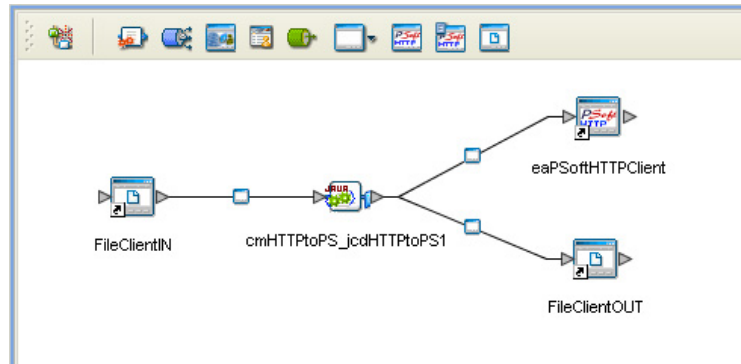
The PeopleSoft eWay sample Java Collaboration Definition (JCD) Project, **prjPeopleSoft_Sample_JCD**, includes the following sample operations:

- **HTTPtoPS**: publishes messages to PeopleSoft using HTTP (see [Figure 50 on page 82](#)).
- **PStoHTTP**: Receives messages from PeopleSoft using HTTP (see [Figure 51 on page 82](#)).

This PeopleSoft sample Project is for **PeopleTools 8.42**, and demonstrates how eGate communicates with PeopleSoft using HTTP.

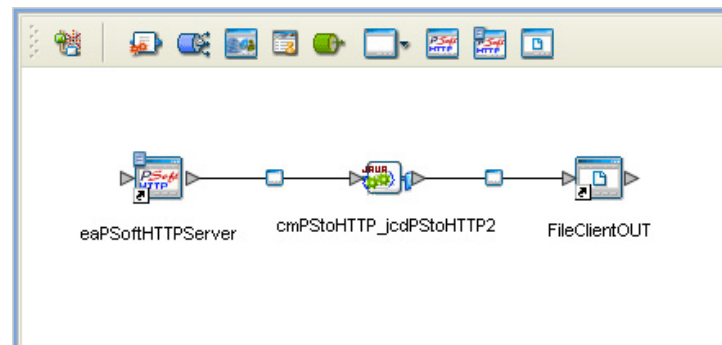
The eInsight HTTP sample Project contains an outbound and an inbound data flow. The outbound data flow is from eGate to PeopleSoft; the inbound flow is from PeopleSoft to eGate. Figure 50 shows the **outbound data flow** in the Connectivity Map.

Figure 50 JCD HTTP Sample Project—Outbound Data Flow



In this data flow, the inbound File eWay receives the sample **PSHTTP_BP**EL data file from the **input** directory. The Collaboration, **cmHTTPtoPS_jcdHTTPtoPS1**, receives the input data, and publishes the data to the external PeopleSoft server using HTTP, and receives a response from the server. The response is written to an external file using the outbound File eWay

Figure 51 JCD HTTP Sample Project—Inbound Data Flow



In the **inbound data flow**, displayed in Figure 51, the Collaboration, **cmPStoHTTP_jcdPStoHTTP2**, receives a message from the PeopleSoft server using HTTP, and publishes the contents of the message to an external file using the outbound File eWay.

The following pages provide directions for importing and completing this sample Project. In addition, this chapter provides directions for creating the sample Project manually.

For more information on creating Java Collaborations, see the *Sun SeeBeyond eGate™ Integrator User's Guide*.

6.4 Creating the prjPeopleSoft_Sample_JCD Project

The prjPeopleSoft_Sample_JCD Project demonstrates the same operations as the prjPeopleSoft_Sample_JCD Project. The difference between the two Projects is that the prjPeopleSoft_Sample_BPEL Project uses eInsight Business Processes to perform the business logic, where as the prjPeopleSoft_Sample_JCD uses Java Collaborations to perform the business logic.

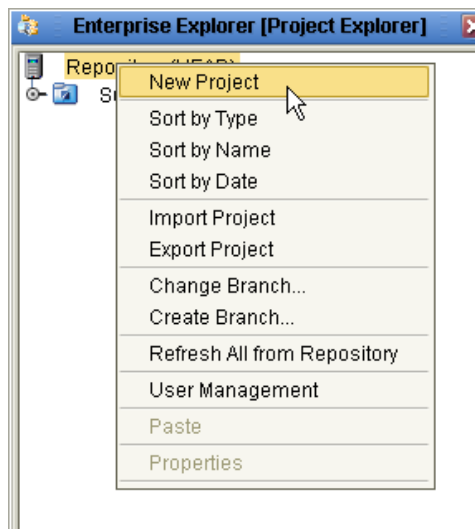
The following pages provide step by step directions for creating the prjPeopleSoft_Sample_JCD Project.

6.4.1. Creating a Project

The first step is to create a new Project in the Enterprise Designer.

- 1 Start the Enterprise Designer.
- 2 From the Project Explorer tree, right-click the Repository and select **New Project** (see Figure 52). A new Project (**Project1**) appears on the Project Explorer tree.

Figure 52 Enterprise Explorer - New Project



- 3 Rename the Project (for this sample, **prjPeopleSoft_Sample_JCD**).

6.4.2 Creating the Collaboration Definitions

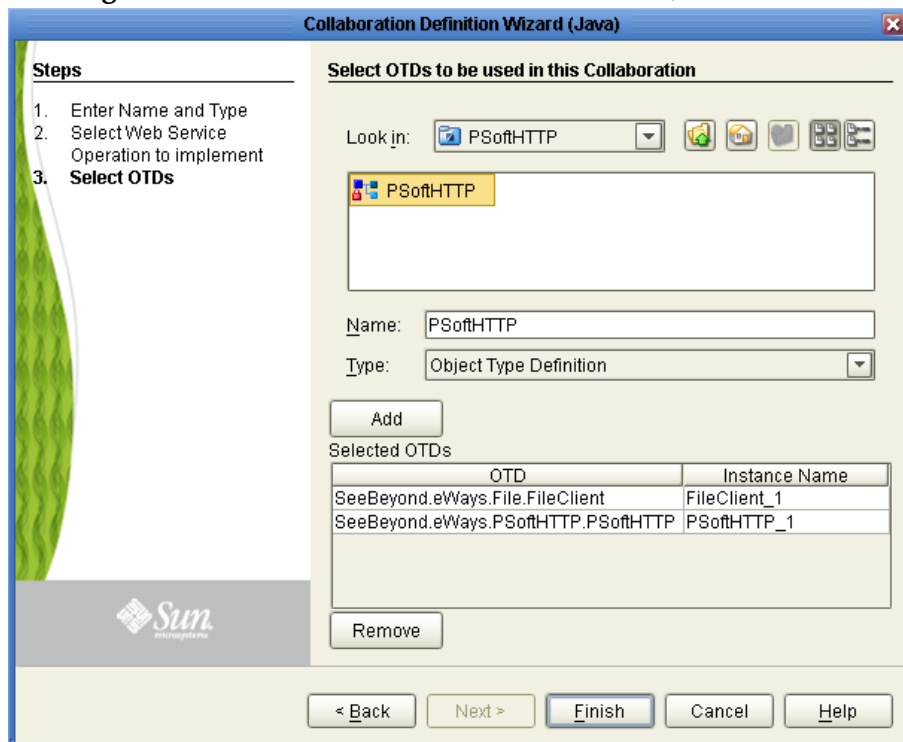
The next step in the sample is to create two Java Collaborations using the Collaboration Definition Wizard (Java). Once the Collaboration Definitions have been created, the Business Rules of the Collaborations can be written using the Collaboration Editor (Java).

Create the jcdHTTPtoPS Collaboration Definition

The **jcdHTTPtoPS** Collaboration defines transactions between the inbound File eWay, the PeopleSoft HTTP Client eWay, and the outbound File eWay.

- 1 From the Project Explorer, right-click the sample Project and select **New > Collaboration Editor (Java)** from the shortcut menu. The **Collaboration Definition Wizard (Java)** appears.
- 2 Enter a Collaboration Definition name (for this sample **jcdHTTPtoPS**) and click **Next**.
- 3 For Step 2 or the wizard, from the Web Services Interfaces selection window, double-click **Sun SeeBeyond > eWays > File > FileClient > receive**. The File Name field now displays **receive**. Click **Next**.
- 4 For Step 3 of the wizard, from the Select OTDs to be used in this Collaboration window, double-click **Sun SeeBeyond > eWays > File > FileClient**. The **FileClient_1** OTD is added to the Selected OTDs field.
- 5 Click the **Up One Level** button to return your Repository. From the Select OTDs to be used in this Collaboration window, double-click **Sun SeeBeyond > eWays > PSoftHTTP > PSoftHTTP**. The **PSoftHTTP_1** OTD is added to the Selected OTDs field (see Figure 53).

Figure 53 Collaboration Definition Wizard (Java)



- 6 Click **Finish**. The Collaboration Editor (Java) with the new **jcdHTTPtoPS** Collaboration appears in the right pane of the Enterprise Designer.

Create the jcdPStoHTTP Java Collaboration

The **jcdPStoHTTP** Collaboration (Java) defines transactions between the inbound PeopleSoft HTTP Server eWay application to the Outbound File eWay.

- 1 From the Project Explorer, right-click the sample Project and select **New > Collaboration Editor (Java)** from the shortcut menu. The **Collaboration Definition Wizard (Java)** appears.
- 2 Enter a Collaboration Definition name (for this sample **jcdPStoHTTP**) and click **Next**.
- 3 For Step 2 of the wizard, from the Web Services Interfaces selection window, double-click **Sun SeeBeyond > eWays > PsoftHTTPServer > PsoftHTTPServer > processRequest**. The Name field now displays **processRequest**. Click **Next**.
- 4 For Step 3, **Select OTDs**, from the Select OTDs selection window, double-click **Sun SeeBeyond > eWays > File > FileClient**. The **FileClient_1** OTD is added to the Selected OTDs field.
- 5 Click **Finish**. The Collaboration Editor with the new **jcdPStoHTTP** Collaboration appears.

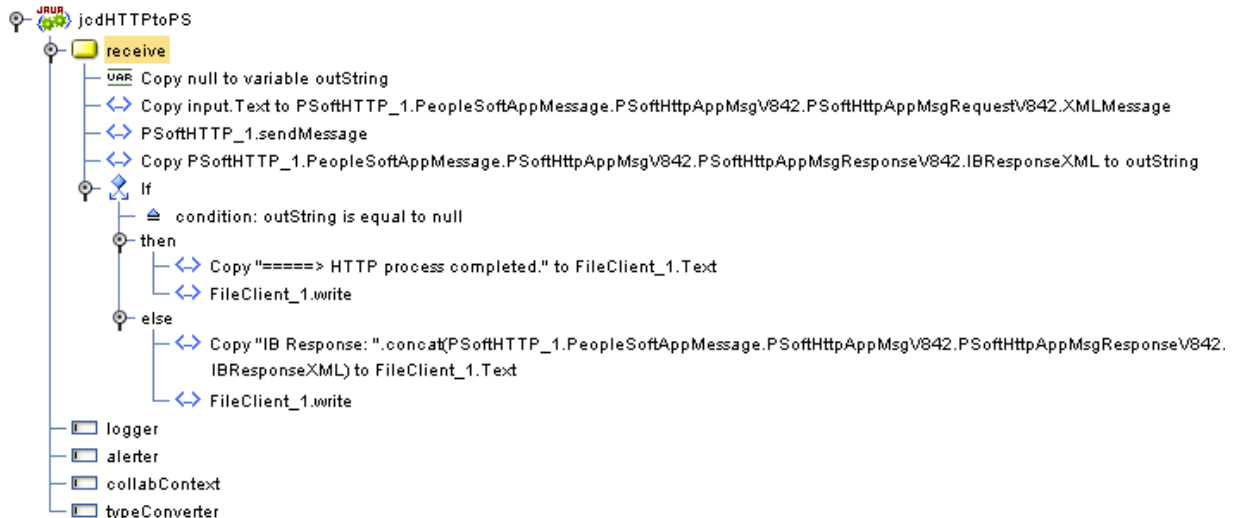
6.4.3 Using the Collaboration Editor (Java)

The next step in the sample is to create the Business Rules of the Collaborations using the Collaboration Editor (Java).

Creating the jcdHTTPtoPS Business Rules

The **jcdHTTPtoPS** Collaboration contains the Business Rule displayed in Figure 54.

Figure 54 jcdHTTPtoPS Collaboration Business Rules

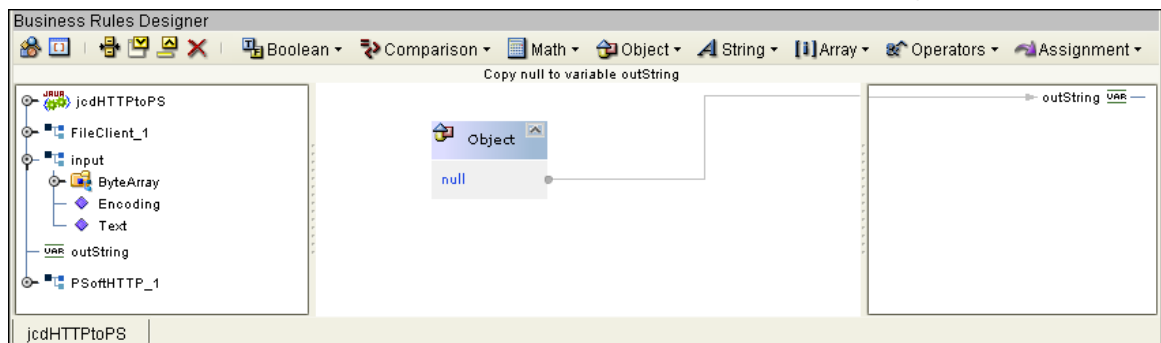


Note: The code of the **jcdHTTPtoPS** Collaboration Business Rules is wrapped for display purposes only.

To create the **jcdHTTPtoPS** Collaboration Business Rules do the following:

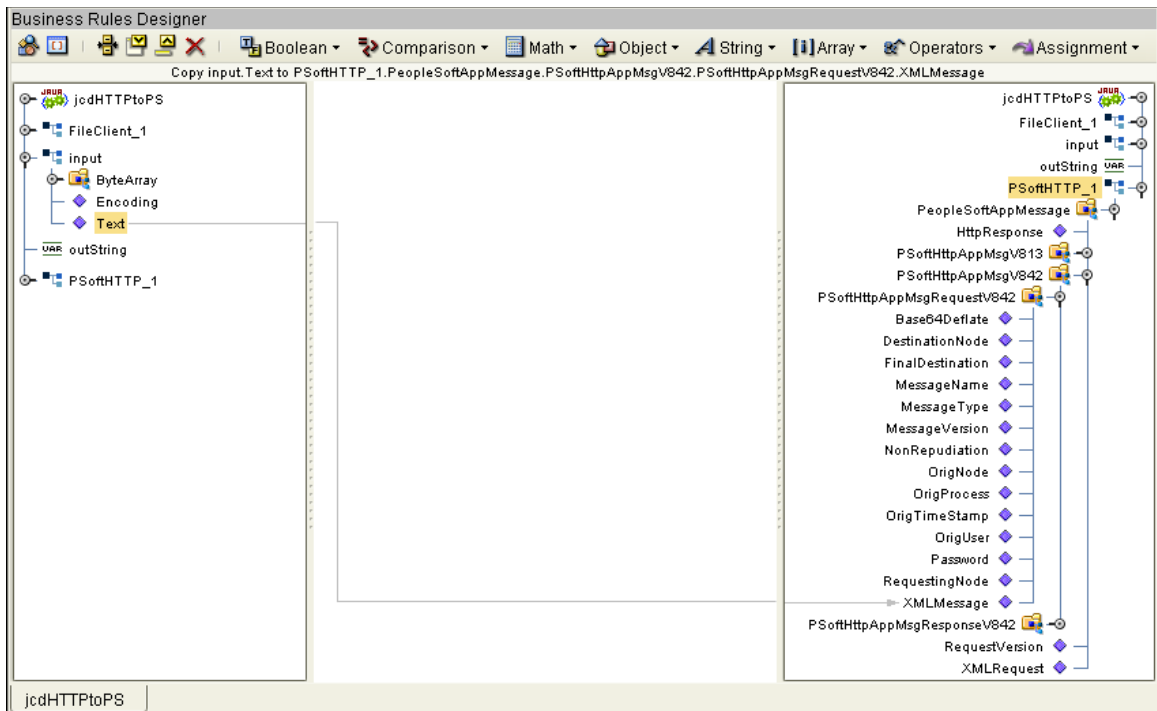
- 1 From the Project Explorer tree, double-click **jcdHTTPtoPS** to open the Collaboration Editor (Java) to the **jcdHTTPtoPS** Collaboration.
- 2 To create comments for the Business Rules, click the comment icon on the Business Rules toolbar. The **Enter a Comment** dialog box appears. Enter the comment and click **OK**. The comment is placed on the Business Rules tree under the last selected item. Once the Comment is created, it can be moved by clicking the comment and dragging it up or down the Business Rules tree to a new location.
- 3 Create the **Copy null to variable outString** Business Rule:
 - A From the Business Rules toolbar, click **Local Variable**. The **Create Variable** dialog box appears.
 - B Enter **outString** as the variable name.
 - C For Type, select **Class** and click the ellipsis (...) button. The **Class Browser** dialog box appears.
 - D From the Class Browser dialog box, select **String** as the class and click **OK**.
 - E Click **OK** to close the **Create Variable** dialog box and create the variable.
 - F From the Business Rules Designer toolbar's **Object** menu, select **Null**. The **Object** method box appears with **null** as the value.
 - G Map the **null** output node of the **Object** method box to **outString** (variable) in the right pane of the Business Rules Designer (see Figure 55).

Figure 55 Collaboration Editor (Java) - Business Rules Designer



- 4 Create the **Copy input.Text to PSoftHTTP_1.PeopleSoftAppMessage.PSoftHttpAppMsgV842.PSoftHttpAppMsgRequestV842.XMLMessage** rule:
 - A From the Business Rules toolbar, click the **rule** icon to add a new rule.
 - B Map **Text** under **input** in the left pane of the Business Rules Designer, to **XMLMessage** under **PSoftHTTP_1 > PeopleSoftAppMessage > PSoftHttpAppMsgV842 > PSoftHttpAppMsgRequestV842** in the right pane of the Business Rules Designer. To do this, click on **Text** in the left pane of the Business Rules Designer, and drag your cursor to **XMLMessage** in the right pane of the Business Rules Designer. A link now connects the two nodes (see Figure 56).

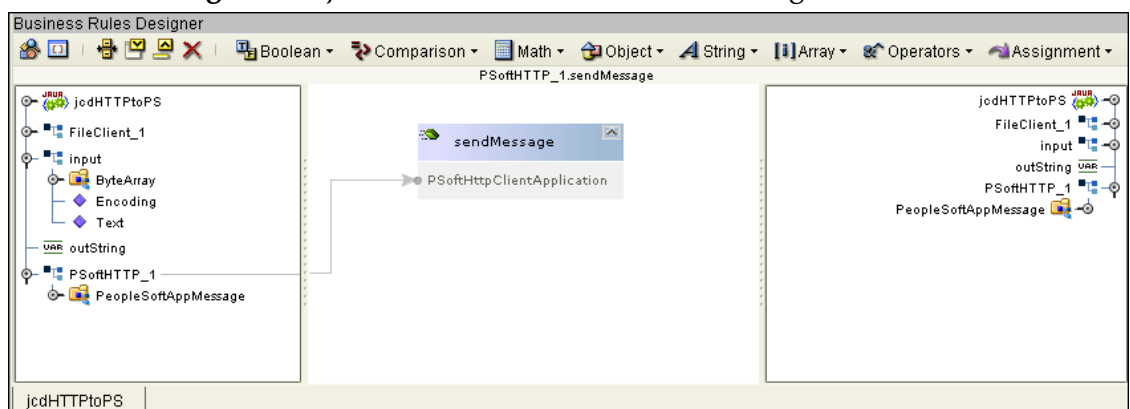
Figure 56 jcdHTTPtoPS - Business Rules Designer



5 Create the PSoftHTTP_1.sendMessage rule:

- A** From the Business Rules toolbar, click the **rule** icon to add a new rule.
- B** From the left pane of the Business Rules Designer, right-click **PSoftHTTP_1** and click **Select method to call**, from the shortcut menu.
- C** From the method selection window, select **sendMessage()**. The **sendMessage** method box appears (see Figure 57).

Figure 57 jcdHTTPtoPS - Business Rules Designer

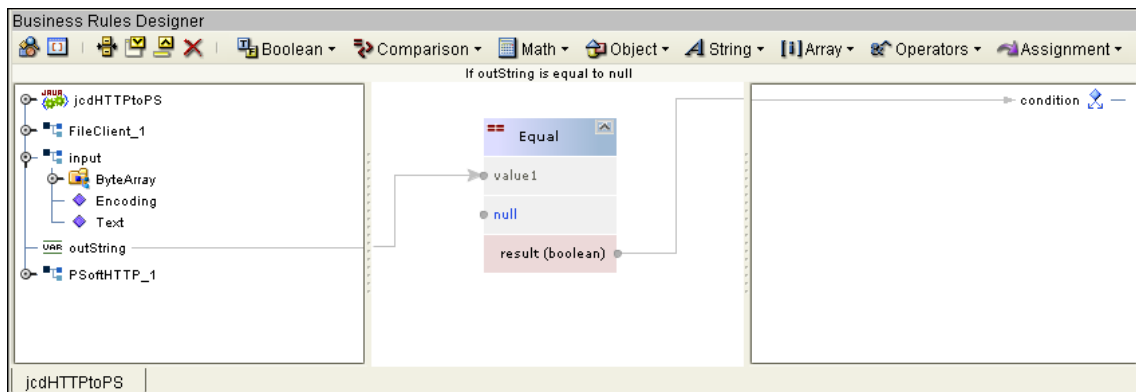


6 Create the Copy PSoftHTTP_1.PeopleSoftAppMessage.PSoftHttpAppMsgV842.PSoftHttpAppMsgResponseV842.IBResponseXML to outString rule:

- A** From the Business Rules toolbar, click the **rule** icon to add a new rule.

- B Map **IBResponseXML**, under **PSoftHTTP_1 > PeopleSoftAppMessage > PSoftHttpAppMsgV842 > PSoftHttpAppMsgResponseV842** in the left pane of the Business Rules Designer, to **outString** (variable), in the right pane of the Business Rules Designer.
- 7 Create the **If** statement and the **condition: outString is equal to null** rule:
 - A From the Business Rules toolbar, click the **If-then** icon. an **If** statement is added to the Business Rules tree. Select the **condition** under the **If** statement.
 - B From the Business Rules Designer toolbar's **Comparison** menu, select **Equal**. The **Equal** method box appears.
 - C Map **outString** (variable), in the left pane of the Business Rules Designer, to the **value1** input node of the **Equal** method box.
 - D Right-click the **value2** field of the **Equal** method box and select **Add null literal** from the shortcut menu. The field now shows the value **null**.
 - E Map the result (boolean) output node of the **Equal** method box to condition in the right pane of the Business Rules Designer (see Figure 58).

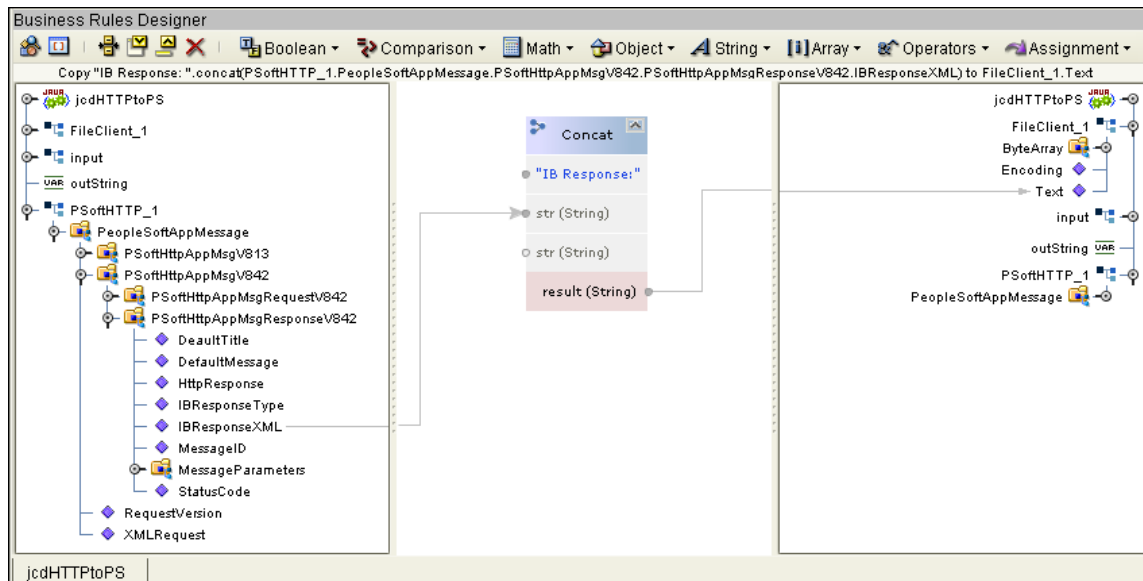
Figure 58 jcdHTTPtoPS - Business Rules Designer



- 8 Create the **Copy "====> HTTP process completed."** to **FileClient_1.Text** rule under the **If-then** statement:
 - A Select the **then** under the **If** statement, and from the Business Rules toolbar, click the **rule** icon to add a new rule.
 - B From the Business Rules Designer toolbar's **String** menu, select **Literal String**. The **String** literal box appears. Enter **====> HTTP process completed.** as the String literal value.
 - C Map **"====> HTTP process completed."** output node of the String literal box, to **Text** under **FileClient_1**, in the right pane of the Business Rules Designer.
- 9 Create the **FileClient_1.write** rule under the **If-then** statement:
 - A From the Business Rules toolbar, click the **rule** icon to add a new rule under the **If-then** statement.
 - B From the left pane of the Business Rules Designer, right-click **FileClient_1** and click **Select method to call**, from the shortcut menu.

- C From the method selection window, select **write()**. The **write** method box appears.
- 10 Create the **Copy "IB Response:**
".concat(PSoftHTTP_1.PeopleSoftAppMessage.PSoftHttpAppMsgV842.PSoftHttpAppMsgResponseV842.IBResponseXML) to **FileClient_1.Text** rule under the **If-then-else** statement:
 - A Select the **else** under the **If** statement, and from the Business Rules toolbar, click the **rule** icon to add a new rule.
 - B From the Business Rules Designer toolbar's **String** menu, select **concat**. The **concat** method box appears.
 - C Right-click the **String** field of the **concat** method box and select **Add Literal** from the shortcut menu. Enter **IB Response:** as the String literal value.
 - D Map **IBResponseXML**, under **PSoftHTTP_1 > PeopleSoftAppMessage > PSoftHttpAppMsgV842 > PSoftHttpAppMsgResponseV842** in the left pane of the Business Rules Designer, to the **str (String)** input node of the **concat** method box.
 - E Map the **result (String)** output node of the **concat** method box, to **Text** under **FileClient_1**, in the right pane of the Business Rules Designer (see Figure 58).

Figure 59 jcdHTTPtoPS - Business Rules Designer



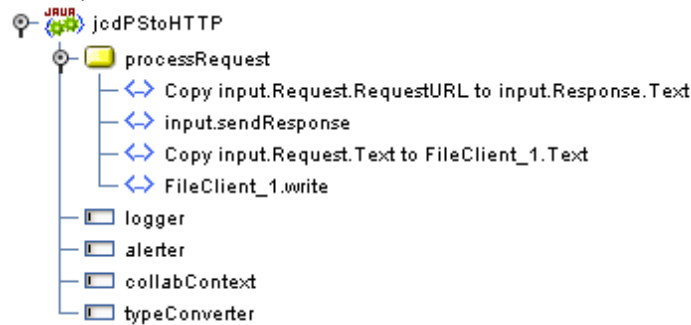
- 11 Create the **FileClient_1.write** rule under the **If-then-else** statement:
 - A From the Business Rules toolbar, click the **rule** icon to add a new rule under the **If-then else** statement.
 - B From the left pane of the Business Rules Designer, right-click **FileClient_1** and click **Select method to call**, from the shortcut menu.
 - C From the method selection window, select **write()**. The **write** method box appears.

- 12 From the editor's toolbar, click **Validate** to check the Collaboration for errors.
- 13 Save your current changes to the repository.

Creating the jcdPStoHTTP Collaboration Business Rules

The **jcdPStoHTTP** Collaboration contains the Business Rule displayed in Figure 60

Figure 60 jcdPStoHTTP Collaboration Business Rules



To create the **jcdPStoHTTP** Collaboration Business Rules do the following:

- 1 From the Project Explorer tree, double-click **jcdPStoHTTP** to open the Collaboration Editor (Java) to the **jcdPStoHTTP** Collaboration.
- 2 Create the **Copy input.Request.RequestURL to input.Response.Text** Business Rule:
 - D Map **RequestURL** under **input > Request** in the left pane of the Business Rules Designer, to **Text** under **input > Response** in the right pane of the Business Rules Designer.
- 3 Create the **input.sendResponse** rule:
 - A From the Business Rules toolbar click the **rule** icon to add a new rule.
 - B From the left pane of the Transformation Designer, right-click **input** and click **Select a method to call** from the shortcut menu. The method selection box appears.
 - C Select **sendResponse()**. The **sendResponse** method box appears.
- 4 Create the **input.sendResponse** rule:
 - A From the Business Rules toolbar click the **rule** icon to add a new rule.
 - B Map **Text** under **input > Request** in the left pane of the Business Rules Designer, to **Text** under **FileClient_1** in the right pane of the Business Rules Designer.
- 5 Create the **FileClient_1.write** rule:
 - A From the Business Rules toolbar, click the **rule** icon to add a new rule.
 - B From the left pane of the Business Rules Designer, right-click **FileClient_1** and click **Select method to call**, from the shortcut menu.
 - C From the method selection window, select **write()**. The **write** method box appears.

- 6 From the editor's toolbar, click **Validate** to check the Collaboration for errors.
- 7 Save your current changes to the repository.

For more information on the Collaboration Rules Editor see the *Sun SeeBeyond eGate™ Integrator User's Guide*.

6.4.4 Creating a Connectivity Map

The Connectivity Map provides a canvas for assembling and configuring a Project's components. The prjPeopleSoft_Sample_JCD Project uses two Connectivity Maps:

- cmHTTPtoPS (outbound data flow)
- cmPStoHTTP (inbound data flow)

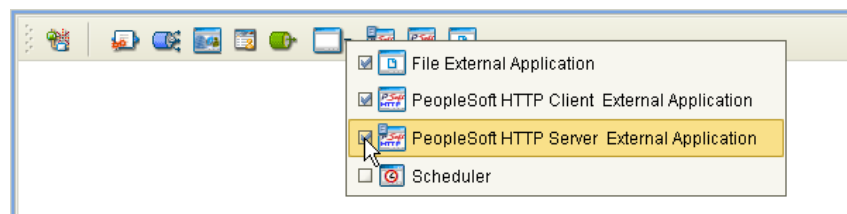
To create the Connectivity Maps, do the following:

- 1 From the Project Explorer tree, right-click the new **prjPeopleSoft_Sample_JCD** Project and select **New > Connectivity Map** from the shortcut menu.
- 2 The New Connectivity Map appears and a node for the Connectivity Map is added under the Project on the Project Explorer tree labeled **CMap1**. Rename the Connectivity Map **cmHTTPtoPS**.
- 3 Create an additional Connectivity Map named **cmPStoHTTP**.

Selecting the External Applications

The icons in the toolbar represent the available components used to populate the Connectivity Map canvas. In the Connectivity Maps, eWays are associated with External Systems. For example, to establish a connection to an external PeopleSoft HTTP Server application, you must first select PeopleSoft HTTP Server as an External Application to use in your Connectivity Map (see Figure 61).

Figure 61 Connectivity Map - External Applications



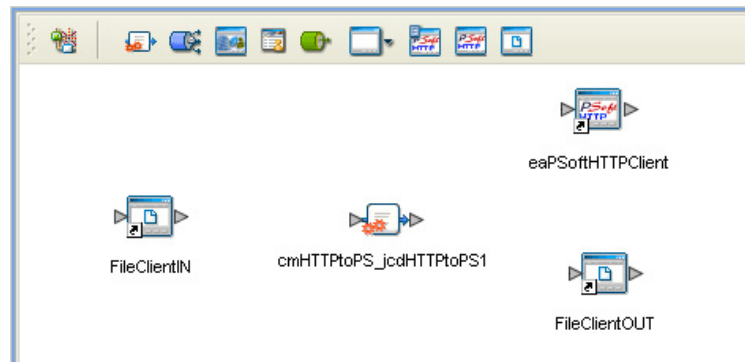
- 1 Click the **External Application** icon on the Connectivity Map toolbar,
- 2 Select the External Applications you require to create your Project (for this sample, **File**, **PeopleSoft HTTP Client**, and **PeopleSoft HTTP Server**). Icons representing the selected External Applications are added to the Connectivity Map toolbar.

Populating the Connectivity Maps

For the **cmHTTPtoPS** Connectivity Map, add the Project components by dragging the icons from the toolbar to the canvas.

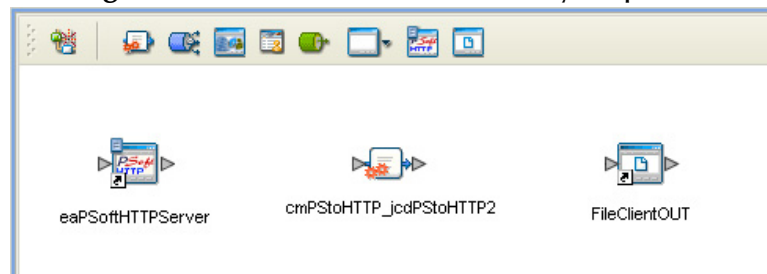
- 1 For this sample, populate the Connectivity Map by dragging the following components onto the Connectivity Map canvas as displayed in Figure 62.
 - ♦ File External System (2)
 - ♦ Service (A service is a container for Java Collaborations, Business Processes, eTL processes, and so forth)
 - ♦ PeopleSoft HTTP Client
- 2 Rename the cmHTTPtoPS Connectivity Map components as follows:
 - ♦ File1 to **FileClientIN**
 - ♦ cmHTTPtoPS_Service1 to **cmHTTPtoPS_jcdHTTPtoPS1**
 - ♦ PSoftHTTPClient1 to **eaPSoftHTTPClient**
 - ♦ File2 to **FileClientOUT** (see Figure 62)

Figure 62 Connectivity Map - cmHTTPtoPS



- 3 Populate the **cmPStoHTTP** Connectivity Map with the following components, as displayed in Figure 63 on page 92:
 - ♦ File External System (rename to **eaPSoftHTTPServer**)
 - ♦ Service (rename to **cmPStoHTTP_jcdPStoHTTP1**)
 - ♦ File External System (rename to **FileClientOUT**)

Figure 63 cmPStoHTTP Connectivity Map



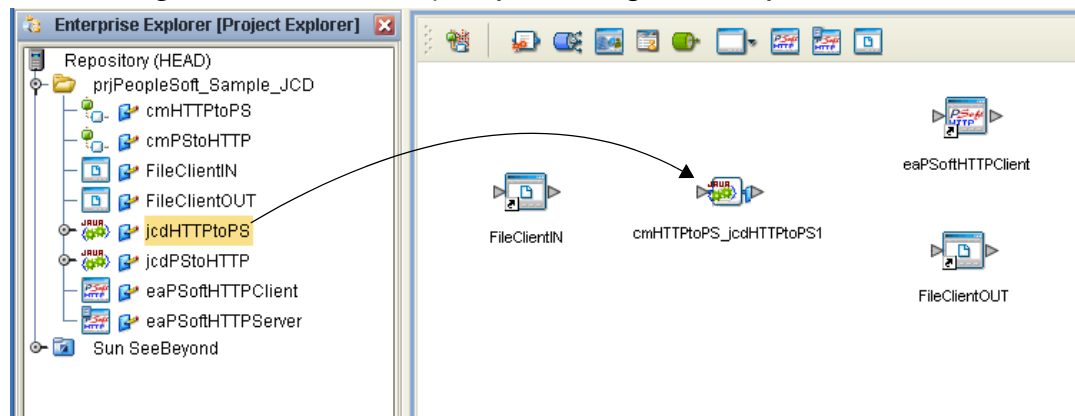
- 4 Save your current changes to the Repository.

6.4.5 Binding the eWay Components

After the Collaborations have been created, the components are associated and bindings are created in the Connectivity Maps.

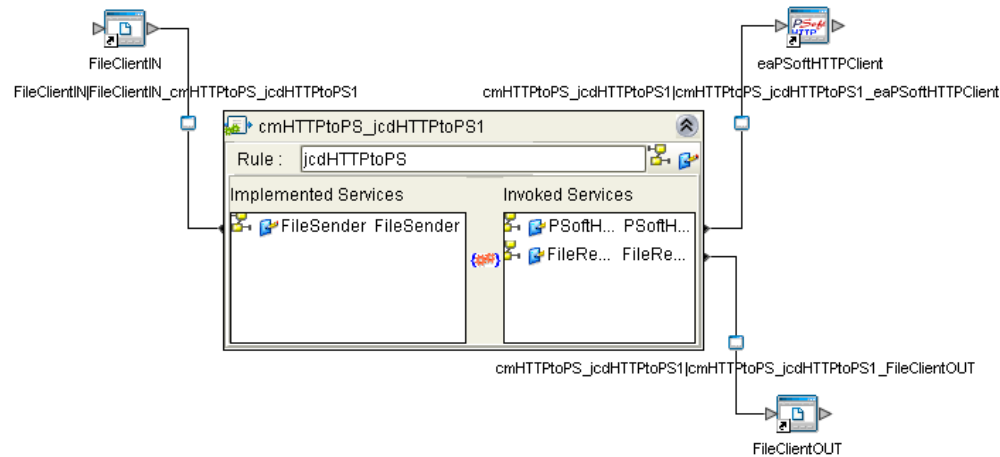
- 1 From the Project Explorer, double-click **cmHTTPtoPS** to display the **cmHTTPtoPS** Connectivity Map.
- 2 Drag and drop the **jcdHTTPtoPS** Collaboration from the Project Explorer to the **cmHTTPtoPS_jcdHTTPtoPS1** Service. If the Collaboration was successfully associated, the Service icon changes from red to green (see Figure 64).

Figure 64 Connectivity Map - Binding the Components



- 3 From the Connectivity Map canvas, double-click **cmHTTPtoPS_jcdHTTPtoPS1**. The **cmHTTPtoPS_jcdHTTPtoPS1** binding dialog box appears using the **jcdHTTPtoPS** Rule.
- 4 From the **cmHTTPtoPS_jcdHTTPtoPS1** binding dialog box, map **FileSender** (under Implemented Services) to the output node of the inbound **FileClientIN** External Application. To do this, click on **FileSender** under Implemented Services in the **cmHTTPtoPS_jcdHTTPtoPS1** binding box, and drag your cursor to the output node of the **FileClientIN** External Application. A link now joins the two components.
- 5 From the **cmHTTPtoPS_jcdHTTPtoPS1** binding dialog box, map **PSoftHTTPReceiver** (under Invoked Services) to the input node of the **eaPSoftHTTPClient** External Application.
- 6 From the **cmHTTPtoPS_jcdHTTPtoPS1** binding dialog box, map **FileReceiver** (under Invoked Services) to the input node of the **FileClient** External Application (see [Figure 65 on page 94](#)).

Figure 65 Connectivity Map - Associating (Binding) the Project's Components



- 7 Minimize the **cmHTTPtoPS_jcdHTTPtoPS1** binding dialog box.
- 8 From the Project Explorer, double-click **cmPStoHTTP** to display the **cmPStoHTTP** Connectivity Map.
- 9 Drag and drop the **jcdPStoHTTP** Collaboration from the Project Explorer to the **cmPStoHTTP_jcdPStoHTTP1** Service.
- 10 From the Connectivity Map, double-click the **cmPStoHTTP_jcdPStoHTTP1** Service. The **cmPStoHTTP_jcdPStoHTTP1** binding dialog box appears with the **jcdPStoHTTP** Rule.
- 11 From the **cmPStoHTTP_jcdPStoHTTP1** binding dialog box, map **PSoftHTTPSender** (under Implemented Services) to the output node of the **eaPSoftHTTPServer** External Application.
- 12 From the **cmPStoHTTP_jcdPStoHTTP1** binding dialog box, map **FileReceiver** (under Invoked Services) to the input node of the **FileClientOUT** External Application.
- 13 Minimize the **cmPStoHTTP_jcdPStoHTTP1** binding dialog box. Save your current changes to the Repository.

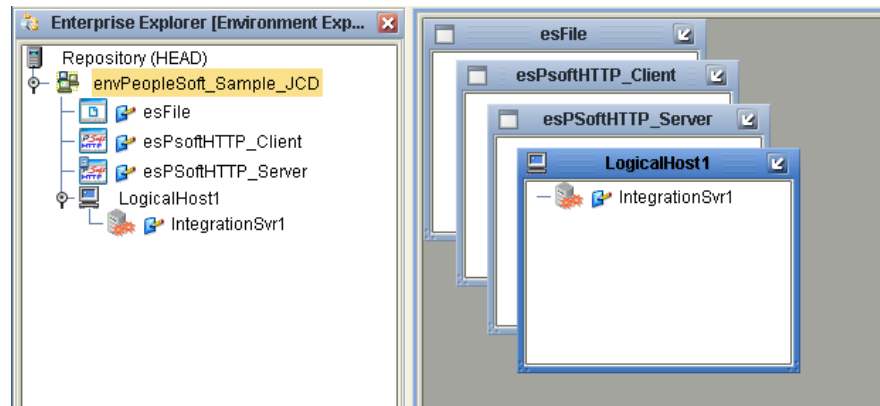
6.4.6 Creating an Environment

Environments include the external systems, Logical Hosts, integration servers and message servers used by a Project and contain the configuration information for these components. Environments are created using the Enterprise Designer's Environment Editor.

- 1 From the Enterprise Designer's Enterprise Explorer, click the **Environment Explorer** tab.
- 2 Right-click the Repository and select **New Environment**. A new Environment is added to the Environment Explorer tree.
- 3 Rename the new Environment to **envPeopleSoft_Sample_JCD**.

- 4 Right-click **envPeopleSoft_Sample_JCD** and select **New > File External System**. Name the External System **esFile** and click **OK**. **esFile** is added to the Environment Editor.
- 5 Right-click **envPeopleSoft_Sample_JCD** and select **New > PSoftHTTP Client External System**. Name the External System **esPsoftHTTP_Client** and click **OK**. **esEmail** is added to the Environment Editor.
- 6 Right-click **envPeopleSoft_Sample_JCD** and select **New > PSoftHTTP Server External System**. Name the External System **esPsoftHTTP_Client** and click **OK**. **esEmail** is added to the Environment Editor.
- 7 Right-click **envPeopleSoft_Sample_JCD** and select **New > Logical Host**. **LogicalHost1** is added to the Environment Editor.
- 8 From the Environment Explorer tree, right-click **LogicalHost1** and select **New > Sun SeeBeyond Integration Server**. A new Integration Server (**IntegrationSvr1**) is added to the Environment Explorer tree under **LogicalHost1**.
- 9 Save changes to the repository. The Environment Explorer and Environment Editor now appear as displayed in Figure 66.

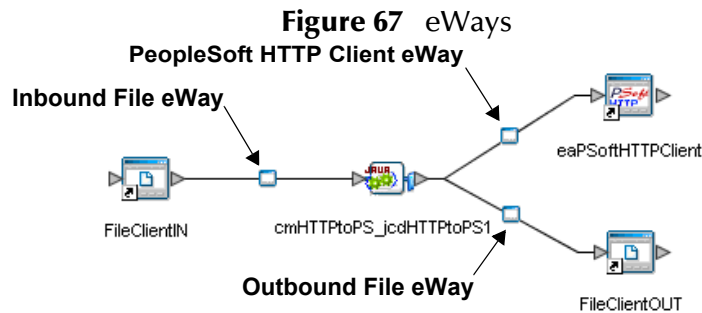
Figure 66 Environment Editor - envPeopleSoft_Sample_JCD



- 10 Save your current changes to the Repository.

6.4.7 Configuring the eWays

The prjPeopleSoft_Sample_JCD Project uses three eWays, each represented in the Connectivity Maps as a node between an External Application and a Service (see [Figure 67 on page 96](#)). eWays facilitate communication and movement of data between the External Applications and the eGate system.



The eWay properties are set from both the Project Explorer's Connectivity Maps and the Environment Explorer tree.

Configuring the File eWay Properties

- 1 From the cmHTTPtoPS Connectivity Map, double-click the inbound **FileClientIN** eWay (see Figure 67). The **Properties Editor** opens to the inbound File eWay properties.
- 2 Modify the properties for your system, including the settings for the inbound File eWay in Table 22, and click **OK**.

Table 22 cmHTTPtoPS - Inbound File eWay Settings

FileClientIN eWay Connection Parameters	
Input file name	PSHTTP_BPEL.in

- 3 From the cmHTTPtoPS Connectivity Map, modify the outbound **FileClientOUT** eWay properties for your system, including the settings in Table 23.

Table 23 cmHTTPtoPS - Outbound File eWay Settings

Outbound File eWay Connection Parameters	
Output file name	HTTPtoPS_BPEL_output.txt

- 4 In the same way, modify the properties of the cmPStoHTTP Connectivity Maps outbound **FileClientOUT** eWay with the settings in Table 24.

Table 24 cmPStoHTTP - Outbound File eWay Settings

Outbound File eWay Connection Parameters	
Output file name	PStoHTTP_BPEL_output.txt

- 5 From the **Environment Explorer** tree, right-click the File eWay External System (**esFile** in this sample), and select **Properties** from the shortcut menu. The Properties Editor appears.
- 6 Modify the File eWay Environment properties for your system, including the settings in [Table 25 on page 97](#), and click **OK**.

Table 25 File eWay Environment Properties

File eWay Environment Properties	
Inbound File eWay > Parameter Settings Set as directed, otherwise use the default settings	
Directory	Select a directory, for example C:/DATA/input/Psoft
Outbound File eWay > Parameter Settings Set as directed, otherwise use the default settings	
Directory	Select a directory, for example C:/DATA/output

Configuring the PeopleSoft eWay Properties

- 1 The default PeopleSoft eWay **Connectivity Map** properties are sufficient for this sample.
- 2 From the **Environment Explorer** tree, right-click the PeopleSoft HTTP Client eWay External System (**esPSoftHTTP_Client** in this sample), and select **Properties** from the shortcut menu. The Properties Editor appears.
- 3 Modify the PeopleSoft HTTP Client eWay Environment properties for your system, including the following settings:
 - ♦ Destination node
 - ♦ Message name
 - ♦ Message version
 - ♦ Requesting node

These properties must match the configuration on your PeopleSoft server. For information refer to [“Configuring PeopleTools 8.42” on page 37](#).

6.4.8 Configuring the Integration Server

You must set your Sun SeeBeyond Integration Server Password property before deploying your Project.

- 1 From the Environment Explorer, right-click **IntegrationSvr1** under your **Logical Host**, and select **Properties** from the shortcut menu. The Integration Server Properties Editor appears.
- 2 Click the **Password** property field under **Sun SeeBeyond Integration Server Configuration**. An ellipsis appears in the property field.
- 3 Click the ellipsis. The **Password Settings** dialog box appears. Enter **STC** as the **Specific Value** and as the **Confirm Password**, and click **OK**.
- 4 Click **OK** to accept the new property and close the Properties Editor.

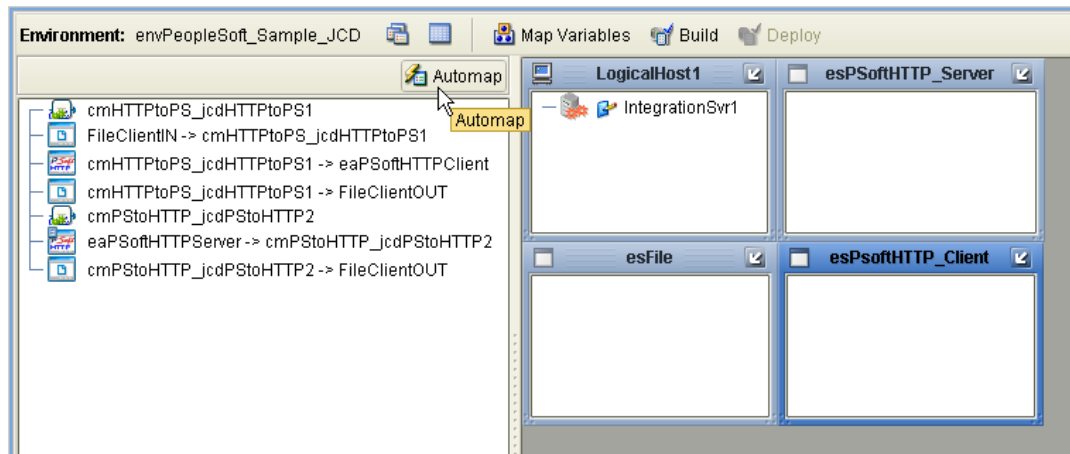
For more information on deploying a Project see the *Sun SeeBeyond Java™ Composite Application Platform Suite Deployment Guide*.

6.4.9 Creating and Activating the Deployment Profile

Deployment Profiles are used to assign Collaborations and message destinations to the integration server and message server. Deployment profiles are created using the Deployment Editor.

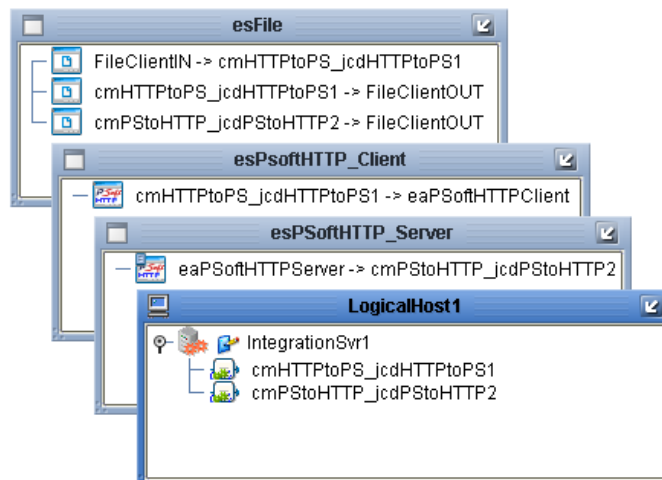
- 1 From the Project Explorer, right-click the **prjPeopleSoft_Sample_JCD** Project and select **New > Deployment Profile**.
- 2 Enter a name for the Deployment Profile (for this sample **dpPeopleSoft_Sample_JCD**). Select **envPeopleSoft_Sample_JCD** as the Environment and click **OK**.
- 3 From the Deployment Editor toolbar, click the **Automap** icon (see [Figure 68 on page 98](#)).

Figure 68 dpPeopleSoft_Sample_JCD Deployment Profile



- 4 The Project's components are automatically mapped to their system windows (see [Figure 68](#)).

Figure 69 dpPeopleSoft_Sample_JCD Deployment Profile



- 5 Save your current changes to the Repository.

6.4.10 Creating and Starting the Domain

To deploy your Project you must first create a domain. After the domain is created, the Project is built and then deployed.

Create and Start the Domain

- 1 Navigate to your <JavaCAPS51>\logicalhost directory (where <JavaCAPS51> is the location of your Java Integration Suite installation.
- 2 Double-click the **domainmgr.bat** file. The **Domain Manager** appears.
- 3 If you have already created a domain, select your domain in the Domain Manager and click the **Start an Existing Domain** button. Once your domain is started, a green check mark indicates that the domain is running.
- 4 If there are no existing domains, a dialog box indicates that you can create a domain now. Click **Yes**. The **Create Domain** dialog box appears.
- 5 Make any necessary changes to the **Create Domain** dialog box and click **Create**. The new domain is added to the Domain Manager. Select the domain and click the **Start an Existing Domain** button. Once your domain is started, a green check mark indicates that the domain is running.

6.4.11 Building and Deploying the Project

The Build process compiles and validates the Project's Java files and creates the Project EAR file.

Build the Project

- 1 From the Deployment Editor toolbar, click the **Build** icon for each of your Deployment Profiles.
- 2 If there are any validation errors, a **Validation Errors** pane will appear at the bottom of the Deployment Editor and displays information regarding the errors. Make any necessary corrections and click **Build** again.
- 3 After the Build has succeeded you are ready to deploy your Project.

Deploy the Project

- 1 From the Deployment Editor toolbar, click the **Deploy** icon. Click **Yes** when the **Deploy** prompt appears. Do this for both of your Deployment Profiles.
- 2 A message appears when the project is successfully deployed. You can now test your sample.

Note: Projects can also be deployed from the Enterprise Manager. For more information about using the Enterprise Manager to deploy, monitor, and manage your projects, see the Sun SeeBeyond eGate™ Integrator System Administration Guide.

6.4.12 Running the Sample

The prjPeopleSoft_Sample_JCD Project includes the following sample files:

- **PSHTTP_JCD.in.~in** (input file)
- **JCD_HTTPtoPS_output.txt** (sample output file example)
- **JCD_PStoHTTP_output.txt** (sample output file example)

To run your deployed sample Project do the following:

- 1 From your configured input directory, paste (or rename) the sample input file to trigger the eWay.
- 2 From your output directory, verify the output data.

Generating DTDs from PeopleSoft 8.13

This chapter describes how to generate DTDs from PeopleSoft 8.13, and use these DTDs to create the OTDs used to create the business logic for the PeopleSoft eWay.

What's in This Chapter

- [Generating DTDs from PeopleTools 8.13](#) on page 101
- [Creating OTDs](#) on page 111
- [OTD Methods and Business Process Operations](#) on page 111

A.5 Generating DTDs from PeopleTools 8.13

To create the OTD used with the eInsight PeopleSoft eWay Project, use the PeopleTools Application Designer 8.13 to generate the necessary Document Type Definitions (DTDs) using third-party software. You can then create an OTD that uses the generated DTD as described in [“Creating OTDs” on page 111](#).

This section describes an alternative procedure that “reverse-engineers” a DTD from a sample XML message generated within PeopleSoft.

This procedure may not work for all message definitions. You must know the data constraints for a particular message definition to correctly populate the message with sample data.

Creating PeopleSoft DTDs involves the following steps:

- 1 [Generating and Publishing an XML Test Message](#) on page 101.
- 2 [Extracting and Viewing the XML Test Message](#) on page 105.
- 3 [Generating a DTD for the XML File](#) on page 109.

A.5.1 Generating and Publishing an XML Test Message

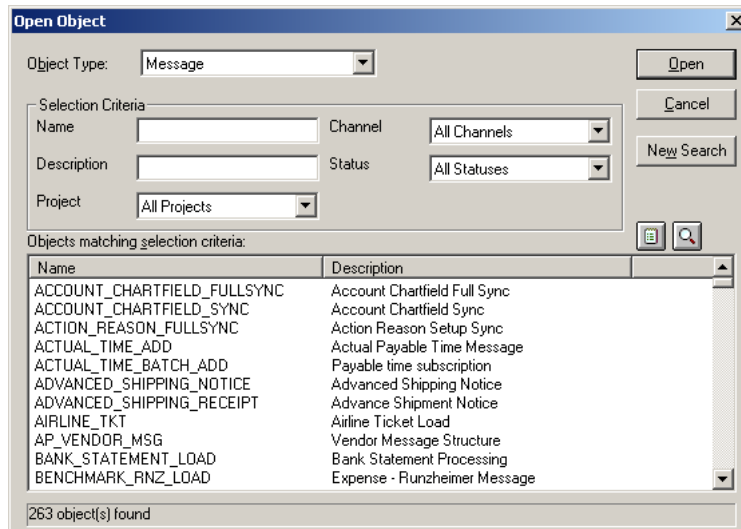
The first step to generate a DTD is to use the PeopleSoft 8 Application Designer to generate a PeopleSoft XML test message based on a particular message definition.

To generate a PeopleSoft XML message

- 1 Log into PeopleTools.
- 2 Log into the Application Designer.

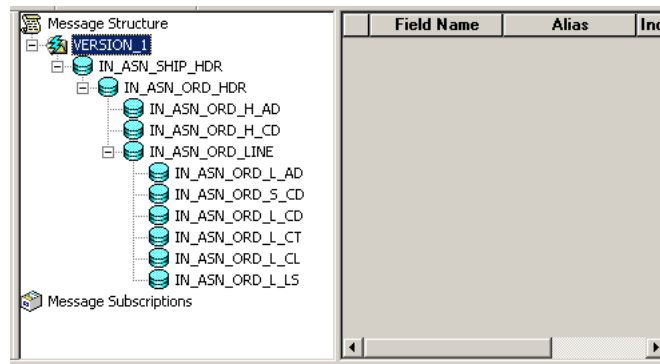
- 3 From the Application Designer's File menu, click **Open**. The **Open Object** dialog box appears (see Figure 70).

Figure 70 Open Object Dialog Box - Object Type Message



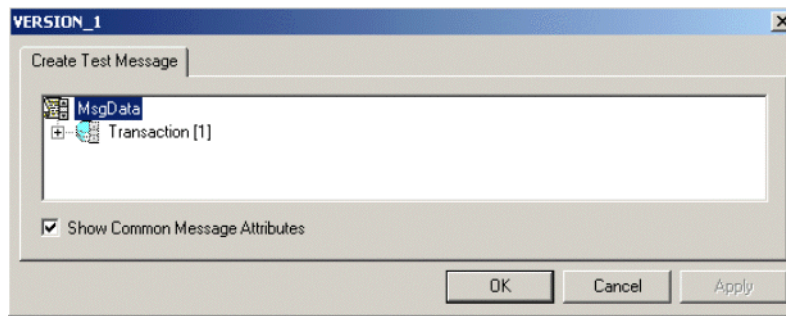
- 4 Select **Message** as the object type, and click **Open**. A list of all available message definitions is displayed.
- 5 Double-click the message definition for your message, for example, **ADVANCED_SHIPPING_RECEIPT**. The **Message** window displays the message structure (see Figure 71).

Figure 71 Message Structure Details



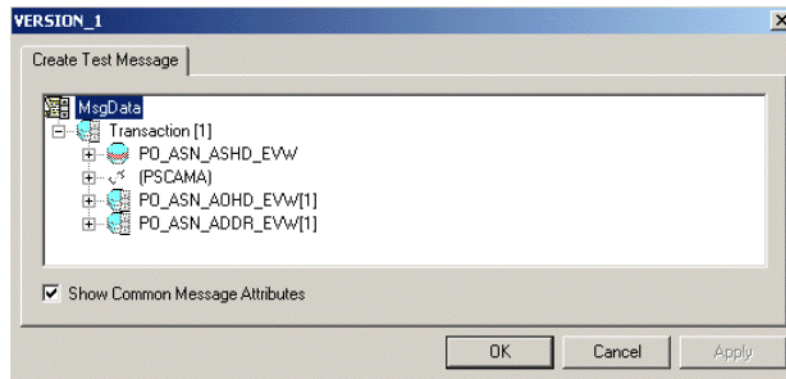
- 6 Right-click **Version_1** in the message structure tree, and select **Create Test Message** from the shortcut menu. The **Version_1** dialog box appears displaying the records contained in the **ADVANCED_SHIPPING_RECEIPT** message (see [Figure 72 on page 103](#)).

Figure 72 Creating a Test Message



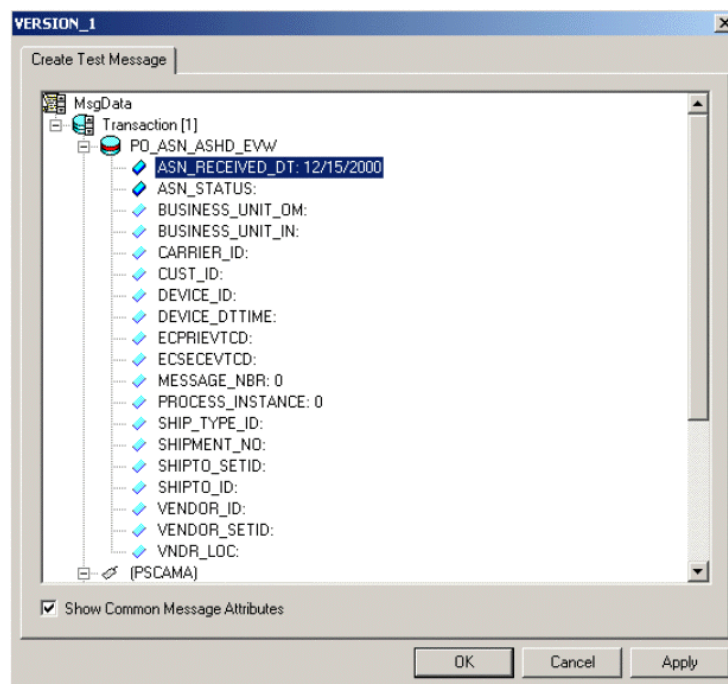
- 7 Expand the **Transaction** record to display all sub-records within the transaction record, as displayed in Figure 73.

Figure 73 Displaying Transaction Subrecords



Records can nest multiple levels as displayed in [Figure 74 on page 103](#).

Figure 74 Expanding Transaction Subrecords



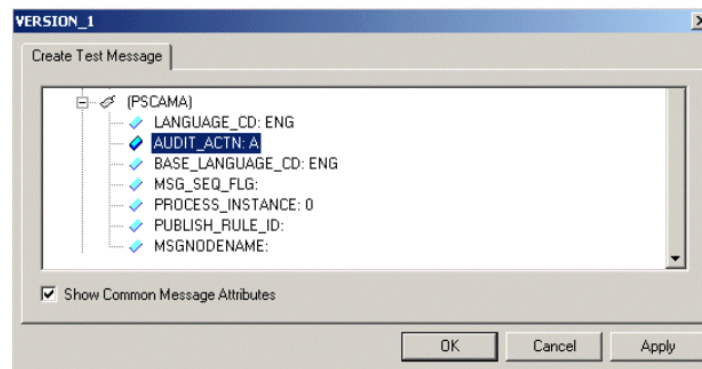
For the purpose of this example, only the fields **ASN_RECEIVED_DT: 12/15/2000** and **ASN_STATUS:** have data contained within them.

If there are no constraints requiring you to populate all fields in a record, then generate a well-formed XML message by populating only one field in each record and sub-record. For most message definitions, only one field is required to be populated with data (some contain default values).

If there are constraints, then all fields in each record and sub-record must be populated.

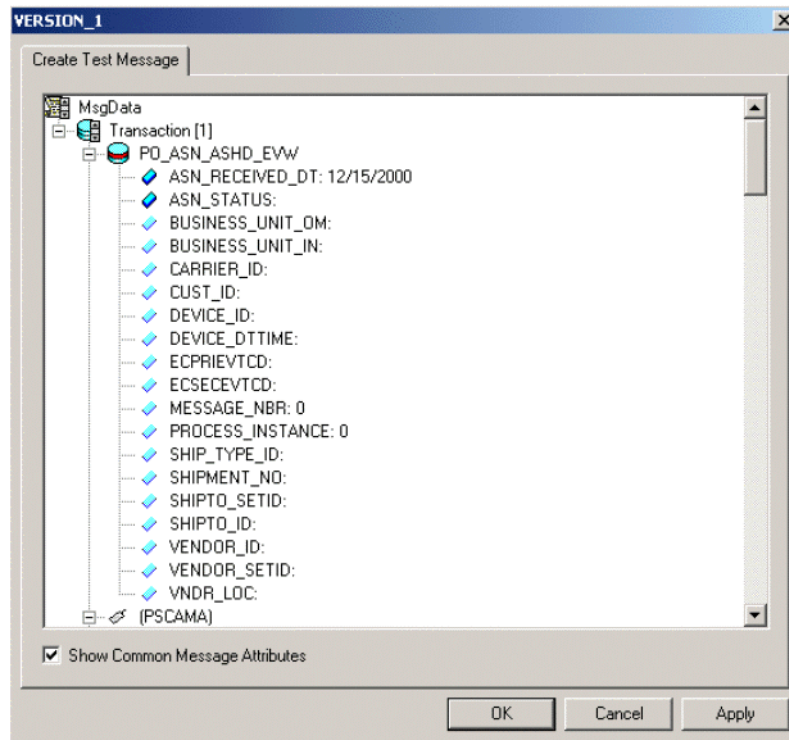
- 8 Enter data for the **PSCAMA** records as follows:
 - A Double-click a specific field. If the field displays empty, it is available for data input.
 - B Add the sample data (see Figure 75).

Figure 75 Version 1 - Create Test Message



- 9 Continue entering data until all other required records and sub-records are populated using the same method as above.
- 10 Once all records and sub-records of the message have been populated with data, click **Apply** to have the updates published to the **PSFT_EP** Message Node (see [Figure 76 on page 105](#)). A message confirms that publication was successful.

Figure 76 Viewing the Test Message



- 11 Click OK to close the dialog box.

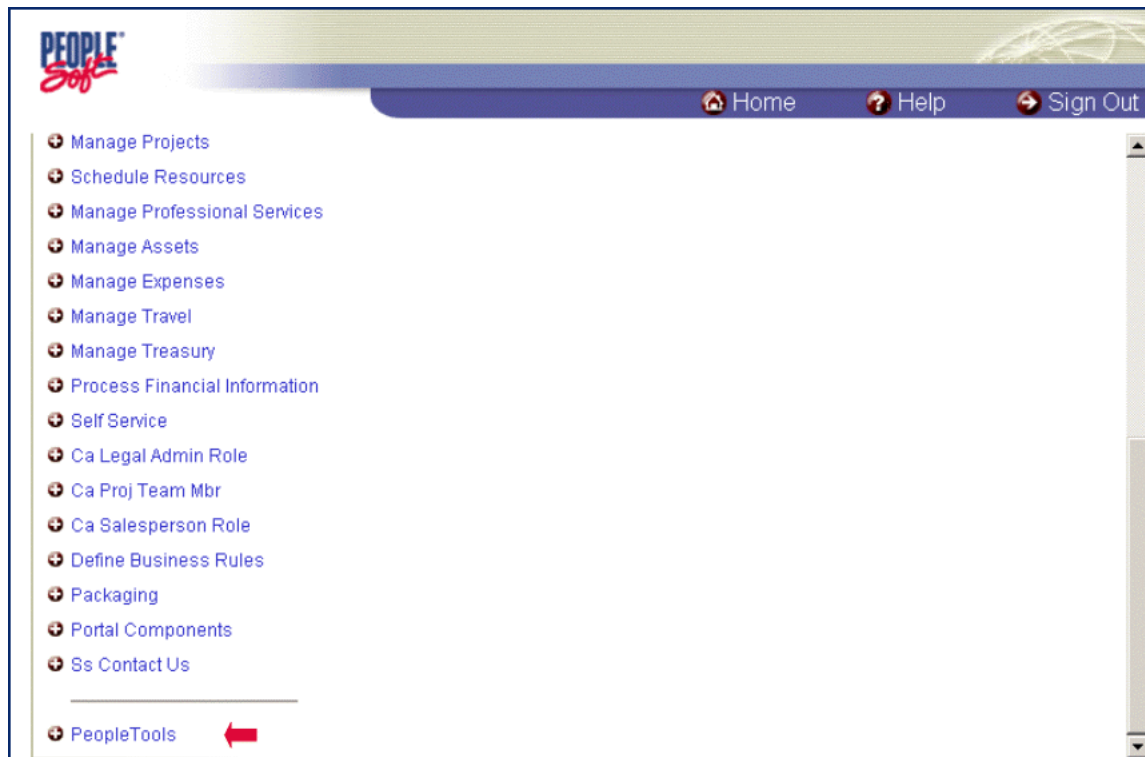
A.5.2 Extracting and Viewing the XML Test Message

The XML test message that you generated and published in the prior section can now be viewed using a supported Web browser. Refer to PeopleSoft PeopleBooks for more information about using the PeopleSoft 8 Application.

To view the XML message

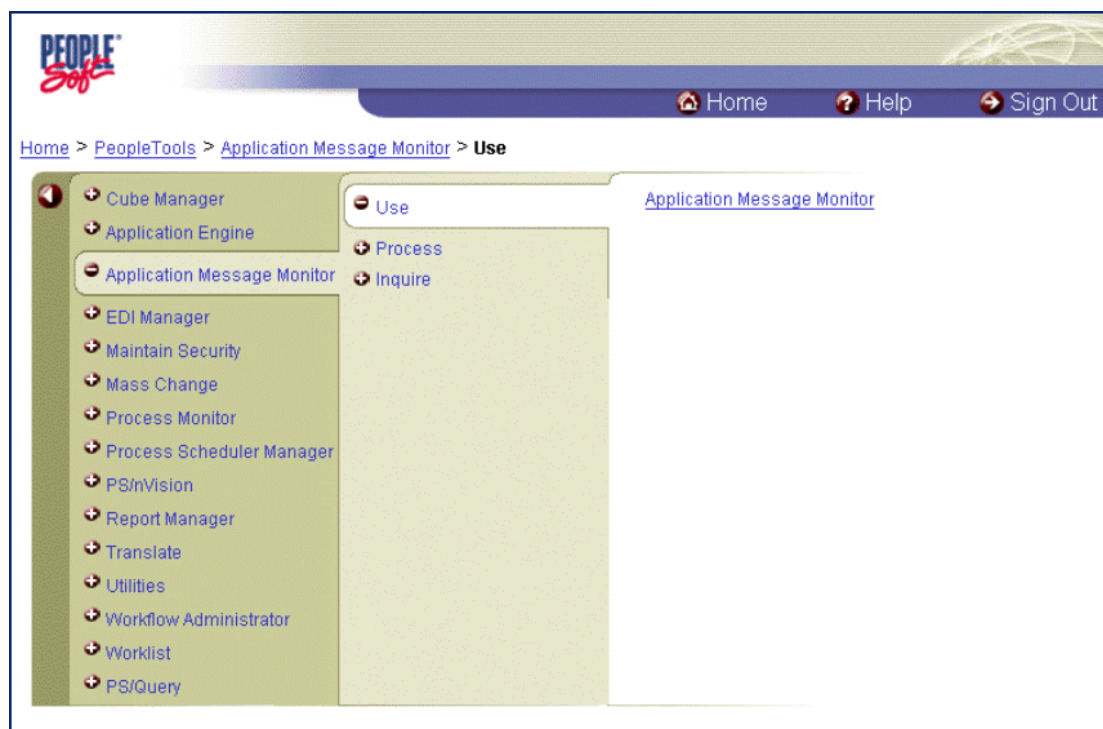
- 1 Within a supported Web browser, log into the PeopleSoft 8 Application.
- 2 In PeopleSoft 8, click **PeopleTools** to open the PeopleTools application (see [Figure 77 on page 106](#)).

Figure 77 PeopleSoft 8 Application Contents Page



The PeopleTools Directory Tree appears as displayed in Figure 78.

Figure 78 PeopleTools Directory Tree



- 3 Click **Application Message Monitor > Use > Application Message Monitor**, and click the hyperlink. The **Application Message Monitor** page opens to the **Overview** tab (see Figure 79).

Figure 79 Application Message Monitor - Overview Tab

Home > PeopleTools > Application Message Monitor > Use > Application Message Monitor

Overview | Message Instances | Pub Contracts | Sub Contracts | Channel Status | Node Status | Queries

Message Criteria

Publish Node: Last: Days ☐ Archived

*Queue Type: *Group By:

Channel Name	Error	New	Started	Working	Done	Retry	Timeout	Edited	Canceled
ADVANCED_SHIPPING_NOTICE	0	1	0	0	0	0	0	0	0

View All First 1 of 1 Last

Previous tab Next tab

Overview | Message Instances | Pub Contracts | Sub Contracts | Channel Status | Node Status | Queries

- 4 From the **Publish Node** field, select the **PSFT_EP** message node.
- 5 Click **Refresh**. The number of messages published for the selected grouping, using the Create Test Message tool, is displayed.
- 6 Click the link indicated by the number of messages in the **New**, **Done**, or **Working** columns. The **Message Instances** tab appears, displaying a summary of the published messages (see Figure 80).

Figure 80 Application Message Monitor - Message Instances Tab

Home > PeopleTools > Application Message Monitor > Use > Application Message Monitor

Overview | Message Instances | Pub Contracts | Sub Contracts | Channel Status | Node Status | Queries

Message Criteria

Publish Node: Last: Days ☐ Archived

Channel Name: Status:

Message Name: *Order By: ☒ Asc ☐ Desc

Publishing Node	Channel	Pub ID	Message	Status	Time Stamp
PSFT_EP	ADVANCED_SHIPPING_NOTICE	14	ADVANCED_SHIPPING_RECEIPT	New	12/15/2000 2:56:26PM

View All First 1 of 1 Last

Details

- 7 Click the **Details** link to view the properties of the published XML message (see Figure 81).

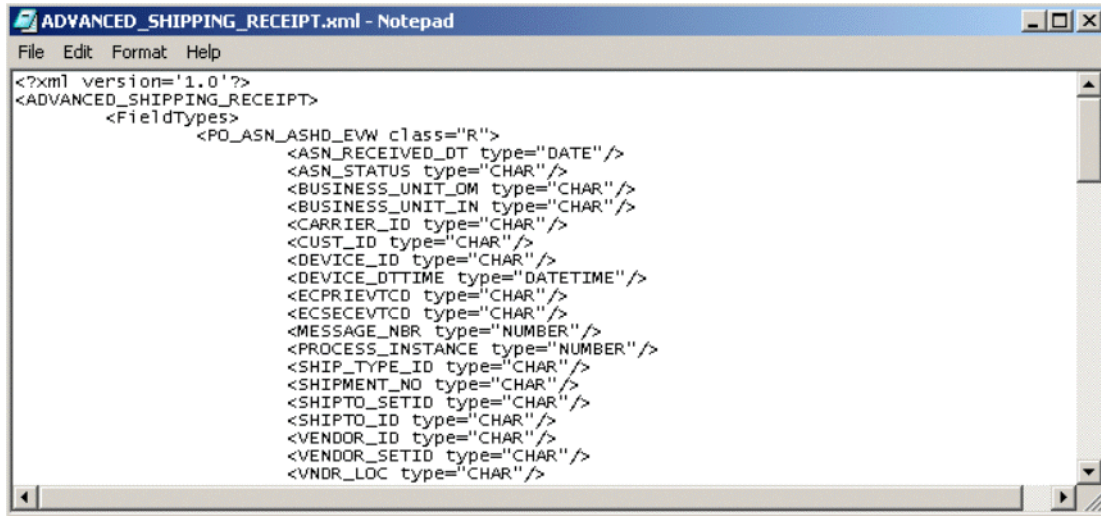
Figure 81 Message Properties Tab

- 8 Click the **XML Message Viewer** tab to review the message itself.
- 9 Select the entire XML message (see Figure 82).

Figure 82 XML Message Viewer Tab

- 10 Copy and paste the XML message into a text editor and save it, with a .xml extension, to a temporary location. Use the same naming convention used for the name of the Message Definition. The example in [Figure 83 on page 109](#) shows the saved XML Message **ADVANCED_SHIPPING_RECEIPT**.

Figure 83 ADVANCED_SHIPPING_RECEIPT.xml



A.5.3 Generating a DTD for the XML File

The structure of the XML message must now be described in a DTD, from which an OTD is subsequently generated. PeopleSoft does not provide a DTD generation utility, but third-party utilities are available to accomplish this task.

A free, online DTD Generator utility is available at the following URL:

<http://www.hitsw.com/>

This utility is presented to illustrate the general procedures for generating a DTD. Sun Microsystems Inc. has no connection with, and does not support, this product.

- 1 From the **XML Document to DTD** field browse to and select the .xml file with the saved XML Message. For this example:

c:\temp\ADVANCED_SHIPPING_RECEIPT.xml

- 2 Click **Open**. The DTD Generator page reappears with the path and file displayed in the XML Document box (see [Figure 84 on page 110](#)).

Figure 84 Example DTD Generator (2)

XML Tools and Utilities

Supply a file name and click the "Generate" button to display output in a browser page. Save the output to a file on your system.

Please ensure that any file you supply below does not contain references to other local files such as DTDs, external entities or XML schemas.

DTD to XML Schema

DTD File:

XML Document to XML Schema

XML Document:

XML Document to DTD

XML Document:

These conversion tools are based on work by Paul Tchistopolskii (www.pault.com) and use the SAXON [DTDGenerator](#) developed by Michael Kay.

- Click **Generate DTD** to generate the DTD. The DTD appears as displayed in Figure 85.

Figure 85 Resulting DTD

```

Processing: C:\temp\ADVANCED_SHIPPING_RECEIPT.xml
<!ELEMENT ADDRESS1 EMPTY >
<!ATTLIST ADDRESS1 type NMTOKEN #IMPLIED >

<!ELEMENT ADDRESS2 EMPTY >
<!ATTLIST ADDRESS2 type NMTOKEN #IMPLIED >

<!ELEMENT ADDRESS3 EMPTY >
<!ATTLIST ADDRESS3 type NMTOKEN #IMPLIED >

<!ELEMENT ADDRESS4 EMPTY >
<!ATTLIST ADDRESS4 type NMTOKEN #IMPLIED >

<!ELEMENT ADVANCED_SHIPPING_RECEIPT ( FieldTypes, MsgData ) >

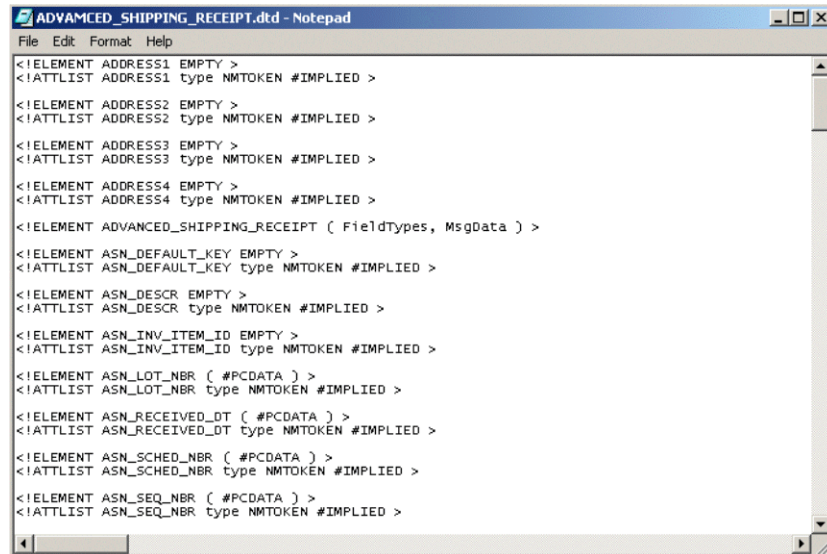
<!ELEMENT ASN_DEFAULT_KEY EMPTY >
<!ATTLIST ASN_DEFAULT_KEY type NMTOKEN #IMPLIED >

<!ELEMENT ASN_DESCR EMPTY >
<!ATTLIST ASN_DESCR type NMTOKEN #IMPLIED >

```

- 4 Select only the DTD-related information (usually all information except the first line).
- 5 Copy and paste the text into a text editor and save it with a **.dtd** extension to a temporary location. Use the same naming convention to name the message definition (for the example, **ADVANCED_SHIPPING_RECEIPT**).

Figure 86 DTD File



You can now use the DTD to create a PeopleSoft OTD using the Enterprise Designer's DTD OTD wizard (see [Creating OTDs](#) on page 111).

A.6 Creating OTDs

To create OTDs for PeopleSoft Business Processes and Collaborations, you use the DTDs generated from PeopleSoft as described in [“Generating DTDs from PeopleTools 8.13” on page 101](#). You then create an OTD from the DTD using the Enterprise Designer's DTD OTD Wizard. For information about creating an OTD from a DTD, refer to the *Sun SeeBeyond eGate™ Integrator User's Guide*.

A.7 OTD Methods and Business Process Operations

For eGate Collaborations, the PeopleSoft eWay provides the *sendMessage()* method. For eInsight Business Processes, the *sendMessage* and *ProcessRequest* operations are available. This section describes the method and operations. The PeopleSoft eWay provides the following methods:

sendMessage() method

Syntax

```
sendMessage ( )
```

Description

Used in outbound Collaborations to send a message to the PeopleSoft client using HTTP.

Parameters

None.

Return Value

None.

Throws

PSoftHttpApplicationException

sendMessage Operation

Description

Used in outbound Business Processes to send a message to the PeopleSoft client using HTTP.

Input and Output

eInsight Operation	Input	Output
sendMessage	webRequest	webResult

processRequest Operation

Description

Used in inbound Business Processes to process a message received from the PeopleSoft server using HTTP.

Input and Output

eInsight Operation	Input	Output
processRequest	n/a	webRequest

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