

SeeBeyond ICAN Suite

PeopleSoft eWay Intelligent Adapter User's Guide

Release 5.0



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About This Guide

This chapter provides an overview of the this user's guide; including its contents and writing conventions.

In This Chapter

- [Contents of This Guide](#) on page 7
- [Writing Conventions](#) on page 8
- [Supporting Documents](#) on page 9
- [SeeBeyond Web Site](#) on page 9

1.1 Contents of This Guide

This guide contains the following information:

- [Chapter 2, "About the PeopleSoft eWay" on page 10](#) provides an overview of the PeopleSoft eWay and provides a brief overview of the steps necessary to use the PeopleSoft eWay in ICAN Projects.
- [Chapter 3, "Installing the PeopleSoft eWay" on page 13](#) describes how to install the PeopleSoft eWay, its documentation, and its sample Projects.
- [Chapter 4, "Configuring HTTP PeopleSoft eWays" on page 17](#) describes how to configure the logical and physical properties PeopleSoft eWays for HTTP.
- [Chapter 5, "Building PeopleSoft Project Business Logic" on page 25](#) describes how to build the business logic for ICAN Projects with the PeopleSoft eWay.
- [Chapter 6, "Configuring the PeopleSoft Server for ICAN Projects" on page 43](#) describes how to configure the PeopleSoft server to work with the PeopleSoft eWay.
- [Chapter 7, "Working with PeopleSoft Sample Projects" on page 69](#) describes how to import and use the sample Projects provided with the PeopleSoft eWay.
- [Chapter 8, "Managing Deployed eWays" on page 88](#) describes how to monitor and reconfigure deployed eWays.

1.2 Writing Conventions

The following writing conventions are observed throughout this document.

Table 1 Writing Conventions

Text	Convention	Example
Button, file, icon, parameter, variable, method, menu, and object names.	Bold text	<ul style="list-style-type: none"> ▪ Click OK to save and close. ▪ From the File menu, select Exit. ▪ Select the logicalhost.exe file. ▪ Enter the timeout value. ▪ Use the getClassname() method. ▪ Configure the Inbound File eWay.
Command line arguments and code samples	Fixed font. Variables are shown in <i>bold italic</i> .	bootstrap -p <i>password</i>
Hypertext links	Blue text	http://www.seebeyond.com

Additional Conventions

Windows Systems

For the purposes of this guide, references to “Windows” will apply to Microsoft Windows Server 2003, Windows XP, and Windows 2000.

Path Name Separator

This guide uses the backslash (“\”) as the separator within path names. If you are working on a UNIX system, please make the appropriate substitutions.

1.3 Supporting Documents

The following SeeBeyond documents provide additional information about the ICAN Suite:

- *SeeBeyond ICAN Suite Primer*
- *SeeBeyond ICAN Suite Installation Guide*
- *eGate Integrator User's Guide*
- *eGate Integrator Tutorial*
- *eGate Integrator System Administrator Guide*
- *SeeBeyond ICAN Suite Deployment Guide*

For information on Application Messaging and PeopleSoft 8 Integration Technology, please refer to the *PeopleSoft 8 PeopleTools* documentation.

1.4 SeeBeyond Web Site

The SeeBeyond Web site is a useful source for product news and technical support information at www.seebeyond.com.

About the PeopleSoft eWay

This chapter provides an overview of the PeopleSoft eWay and its implementation in ICAN Projects.

In This Chapter

- [About the PeopleSoft eWay](#) on page 10
- [Supported Operating Systems](#) on page 11
- [Supported PeopleSoft Versions](#) on page 11
- [Quick Overview: Implementing PeopleSoft eWays in ICAN Projects](#) on page 11

2.1 About the PeopleSoft eWay

The PeopleSoft eWay enables you to configure ICAN Projects to send and receive data from PeopleSoft systems via JMS or HTTP. The PeopleSoft eWay does not support HTTP(S). The table below shows the support for inbound and outbound Business Processes and Collaborations depending on what version of PeopleSoft is used.

Table 2 JMS and HTTP Support—PeopleTools 8.13

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

As the tables above show, the PeopleSoft eWay does not support the following Collaborations/Business Processes for PeopleTools 8.13:

- JMS inbound and outbound Business Processes and Collaborations
- HTTP inbound Collaborations

The PeopleSoft eWay does not support the following Collaborations for PeopleTools 8.42:

- HTTP inbound Collaborations

2.2 Supported Operating Systems

The PeopleSoft eWay is available for the following operating systems:

- Windows Server 2003, Windows XP SP1a, and Windows 2000 SP3
- Solaris 8 and 9
- HP Tru64 5.1A
- HP-UX 11.0 and 11i
- IBM AIX 5.1 and 5.2
- Red Hat Enterprise Linux AS 2.1
- Red Hat Linux 8

2.3 Supported PeopleSoft Versions

The PeopleSoft eWay supports the following PeopleSoft versions:

- PeopleSoft 8 with PeopleTools 8.13
- PeopleSoft 8.4 with PeopleTools 8.42

2.4 Quick Overview: Implementing PeopleSoft eWays in ICAN Projects

This section provides a quick overview of the overall process of implementing PeopleSoft eWays in the process of building and deploying a ICAN Projects.

- 1 Install the PeopleSoft eWay, its documentation, and its sample Projects as described in [“Installing the PeopleSoft eWay” on page 13](#).
- 2 Create a Project as described in the *eGate Integrator User’s Guide*.
- 3 Create an OTD as described in [“Creating OTDs” on page 37](#).
- 4 For eInsight, build the Business Processes and Connectivity Maps as described in [“Building PeopleSoft Business Logic with eInsight” on page 39](#).
- 5 For eGate, build the Collaboration and Connectivity Maps as described in [“Building PeopleSoft Business Logic with eGate” on page 40](#).

- 6 Configure the logical properties of the eWay as described in **“Configuring Logical eWay Properties” on page 18.**
- 7 Create an eGate Environment and add the PeopleSoft eWay as described in **“Adding PeopleSoft eWays to Environments” on page 21.**
- 8 Configure the physical properties of the eWay as described in **“Configuring Physical eWay Properties” on page 21.**
- 9 Configure the other components in the Environment. For an example, refer to **“Creating the eGate HTTP Sample Environment” on page 81.**
- 10 Configure the PeopleSoft server as described in **“Configuring the PeopleSoft Server for ICAN Projects” on page 43.**
- 11 For JMS Projects, generate the **.bindings** file as described in **“Creating the JNDI Bindings File for JMS Posting” on page 57.**
- 12 Create and activate the Deployment Profile as described in the *eGate Integrator User’s Guide*. For an example, refer to **“Creating the eGate HTTP Sample Deployment Profile” on page 83.**

Installing the PeopleSoft eWay

This chapter describes how to install the PeopleSoft eWay, its documentation, and the sample Projects.

In This Chapter

- “Installing the PeopleSoft eWay and Sample Projects” on page 13
- “After Installation” on page 14
- “Installing the HTTP Publication Handler for PeopleTools 8.13” on page 15

3.1 Installing the PeopleSoft eWay and Sample Projects

During the eGate Integrator installation process, the Enterprise Manager, a web-based application, is used to select and upload products as .sar files from the eGate installation CD-ROM to the Repository.

The installation process includes installing the following components:

- Installing the Repository
- Uploading products to the Repository
- Downloading components (such as Enterprise Designer and Logical Host)
- Viewing product information home pages

Follow the instructions for installing the eGate Integrator in the *SeeBeyond ICAN Suite Installation Guide*, and include the following steps:

- 1 During the procedures for uploading files to the eGate Repository using the Enterprise Manager, after uploading the **eGate.sar** file, select and upload the following below as described in the *SeeBeyond ICAN Suite Installation Guide*:
 - ♦ **PeopleSoftWay.sar** (to install the PeopleSoft eWay)
 - ♦ **FileWay.sar** (to install the File eWay, used in the sample Projects)
 - ♦ **PeopleSoftWayDocs.sar** (to install the user guide and the sample Projects)
- 2 In the Enterprise Manager, click the **DOCUMENTATION** tab.
- 3 Click **PeopleSoft eWay**.
- 4 In the right-hand pane, click **Download Sample**, and select a location for the .zip file to be saved.

For information about importing and using the sample Projects, refer to [“Working with PeopleSoft Sample Projects” on page 69](#).

- 5 Restart Enterprise Designer.

3.2 After Installation

Once you have installed the PeopleSoft eWay, you must then incorporate it into an ICAN Project and Environment in Enterprise Designer. The next chapters description how you add the eWay to an ICAN Project and an eGate Environment, how you configure the eWay, and how to build the necessary OTDs.

3.3 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. The HTTP publication handler consists of several Java classes, which are described in [Appendix A](#).

After the installation, configure the subscription handler as described in [“Adding the HTTP publication handler” on page 67](#).

3.3.1 Installing 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 **PeopleSoftWay.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.

3.3.2 Installing 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 **websrv** directory in the PeopleSoft domain installation; for example:
/psoft/FDM80/websrv/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.

Configuring HTTP PeopleSoft eWays

This chapter describes how to implement HTTP PeopleSoft eWays in an ICAN Project. The implementation consists of adding and configuring the eWay as a logical component and as a physical component.

The logical eWay component is defined in the Connectivity Map for the ICAN Project in Enterprise Designer. The physical eWay component is defined in the eGate Environment.

In This Chapter

- [Adding HTTP PeopleSoft eWays to Connectivity Maps](#) on page 17
- [Configuring Logical eWay Properties](#) on page 18
- [Adding PeopleSoft eWays to Environments](#) on page 21
- [Configuring Physical eWay Properties](#) on page 21

4.1 Adding HTTP PeopleSoft eWays to Connectivity Maps

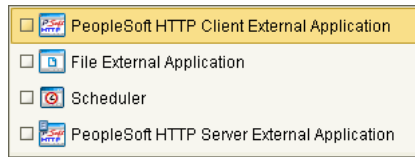
To start implementing an HTTP PeopleSoft eWay in an ICAN Project, you add the eWay to the Project's Connectivity Map as described below. The PeopleSoft eWay provides HTTP support for:

- Inbound and outbound eInsight Projects (PeopleTools 8.13 and 8.42)
- Outbound Projects for eGate only (PeopleTools 8.13 and 8.42)

To add HTTP PeopleSoft eWays to Connectivity Maps

- 1 In the **Project Explorer** tab of the Enterprise Designer, create or click the Project to which you want to add the PeopleSoft eWay.
- 2 Create or click a Connectivity Map.
- 3 On the Connectivity Map toolbar, click the **External Applications** icon.
- 4 To add an inbound eWay, click **PeopleSoft HTTP Server External Application**.
To add an outbound eWay, click **PeopleSoft HTTP Client External Application**.

Figure 1 Selecting the PeopleSoft External Application



This adds the PeopleSoft icon to the Connectivity Map toolbar.

- 5 Drag the PeopleSoft icon onto the Connectivity Map canvas.
- 6 To rename the external application, right-click the icon, click **Rename**, and enter a new name.

To continue, refer to **“Building PeopleSoft Project Business Logic” on page 25** to complete the Connectivity Map and create the eGate Collaborations and eInsight Business Processes. Once those items are complete, you can configure the logical and physical eWay properties as described in the sections below.

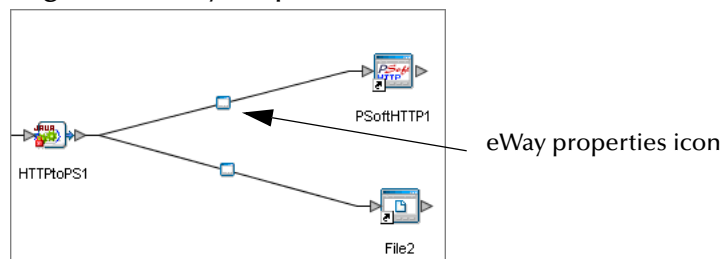
4.2 Configuring Logical eWay Properties

After completing the Connectivity Map, creating the business logic, and linking the Connectivity Map components, you can configure the PeopleSoft eWay as described below.

To configure logical eWay properties

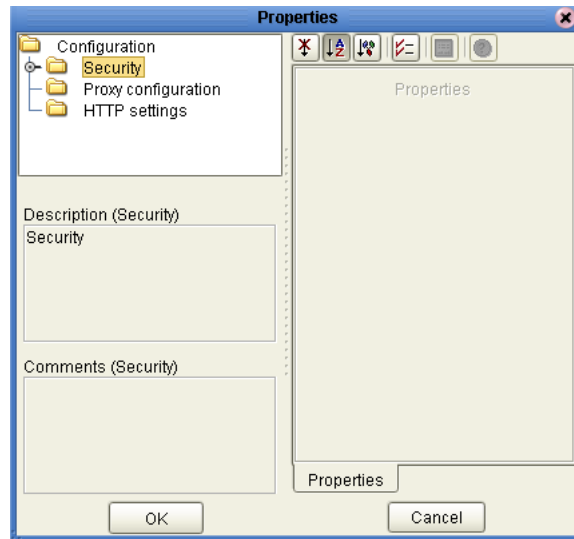
- 1 In the **Project Explorer** tab of the eGate Enterprise Designer, expand the Project which contains the Connectivity Map where you want to configure logical eWay properties.
- 2 Click the Connectivity Map. The Connectivity Map appears, showing the eWay properties icon.

Figure 2 eWay Properties Icon



- 3 Double-click the eWay properties icon. The **Properties** dialog box appears. The **Properties** dialog box shows the logical eWay properties as shown below.

Figure 3 Logical Properties of the Outbound HTTP PeopleSoft eWay



- 4 Specify the eWay properties. The list below shows the properties and the relevant page for more information:

Property	Available For	Page reference
SSL/Proxy	Outbound	page 19
Servlet URL	Inbound	page 20

The sections below describe the eWay properties in detail. When you have completed configurations for the eWay and all other components in the Connectivity Map, create the Environment for the Project and add the eWay as described in [“Adding PeopleSoft eWays to Environments” on page 21](#). You can then configure the physical properties of the eWay as described in [“Configuring Physical eWay Properties” on page 21](#).

4.2.1 Specifying SSL Configurations

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

4.2.2 Specifying HTTP Settings

This section describes how to configure the HTTP settings for outbound PeopleSoft communications via HTTP.

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.

Specifying the Accept Type

You specify the header value for the accept type for outbound eWays with the **Accept type** property; for example, `text/html`, `text/plain`, `text/xml`. This specifies the default

accept type header value to include when sending a request to the server. To display logical eWay properties in the Connectivity Map, refer to [“Configuring Logical eWay Properties” on page 18](#).

Default

The default accept type header value is `text/*`.

Allowing Cookies

You can enable the use of cookies for outbound eWays with the **Allow cookies** property. This property 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. To display logical eWay properties in the Connectivity Map, refer to [“Configuring Logical eWay Properties” on page 18](#).

Default

The default mode is **True**; cookies are allowed to be stored.

4.2.3 Specifying the Servlet URL

You can specify the last path component of the HTTP server servlet URL. This URL is the one the inbound eWay uses to access the server. To display logical eWay properties in the Connectivity Map, refer to [“Configuring Logical eWay Properties” on page 18](#).

This property must be the servlet name, for example, **HttpServerServlet**. The total URL is made up of several components, including the ICAN Project 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 via HTTP” on page 48](#).

An example of a complete servlet URL is:

`http://localhost:portno/Deployment1_servlet/PeopleSoftHTTPServerWay`

Where:

- *localhost*: The name of the machine your current Logical Host is running on.
- *portno*: 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**).
- *Deployment1*: The name of your current Project’s Deployment Profile concatenated with `_servlet`.
- *PeopleSoftHTTPServerWay*: The name of the PeopleSoft HTTP Server eWay in the Connectivity Map.

4.3 Adding PeopleSoft eWays to Environments

Before you can configure the physical eWay properties, you must add the eWay to an Environment. The procedure below describes how you add PeopleSoft eWays to eGate Environments. For detailed information about creating eGate Environments, refer to the *eGate Integrator User's Guide*. For examples, refer to the following sections:

- “Creating the eInsight HTTP Sample Environment” on page 74
- “Creating the eInsight JMS Sample Environment” on page 78
- “Creating the eGate HTTP Sample Environment” on page 81
- “Creating the eGate JMS Sample Environment” on page 85

To add eWays to Environments

- 1 In the **Environment Explorer** tab of the Enterprise Designer, click the Repository and expand or create the Environment to which you want to add an eWay.
- 2 For HTTP Projects, right-click the Environment and click **New PeopleSoft HTTP Server External Application** to add a PeopleSoft server eWay. Click **New PeopleSoft HTTP Client External Application** to a PeopleSoft client eWay.

For Projects that communicate to PeopleSoft via JMS, you do not add a PeopleSoft eWay. The JMS Business Processes or Collaborations are added to the JMS IQ Manager in the Deployment Profile.

This adds a PeopleSoft eWay to the Environment. You can now specify the physical properties for the eWay as described in the section below.

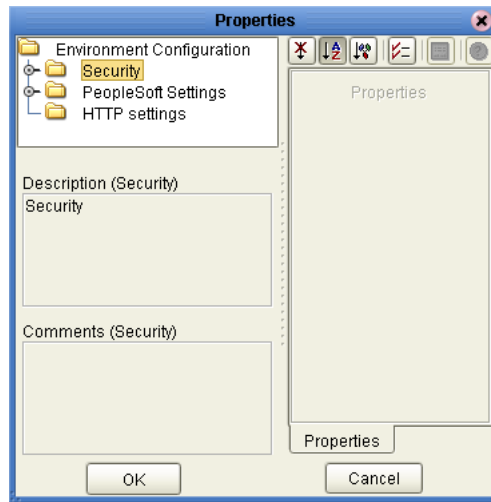
4.4 Configuring Physical eWay Properties

Once you have added the PeopleSoft eWay to an eGate Environment, you can configure the eWay as described below. For information about adding eWays to Environment, refer to the section above.

To configure physical eWay properties

- 1 In the **Environment Explorer** tab of the Enterprise Designer, click the Repository and expand the Environment that contains the Logical Host for which you want to configure a PeopleSoft eWay.
- 2 Expand the Logical Host, right-click the outbound PeopleSoft eWay and click **Properties**. The **Properties** dialog box appears.

Figure 4 Environment eWay Properties



- 3 Specify the properties. The table below shows where to find detailed configuration information for each eWay property.

For this eWay property	Refer to
Security settings	page 22
HTTP username/password	page 22
PeopleTools settings	page 22
HTTP settings	page 24

- 4 Click **OK**.

4.4.1 Specifying Security Settings

HTTPS is not supported in this release.

4.4.2 Specifying the HTTP Username and Password

You can specify the HTTP username and password for outbound PeopleSoft eWays with the **HTTP username** and **HTTP password** properties. This specifies the username and password used for authenticating the website specified by the URL. To display the eWay Environment properties, refer to [“Configuring Physical eWay Properties” on page 21](#).

4.4.3 Specifying PeopleTools Settings

This section describes how to specify PeopleTools settings, such as the PeopleTools version and the settings for that version. These settings must match the PeopleSoft server configurations as described in [“Configuring the PeopleSoft Server for ICAN Projects” on page 43](#).

Specifying the PeopleTools Version

You can specify PeopleTools version of the PeopleSoft server with the **PeopleTools Version** property. To display the eWay Environment properties, refer to [“Configuring Physical eWay Properties” on page 21](#).

Default

The default version is PeopleTools version 8.42.

Specifying PeopleTools 8.13 Settings

You can specify the configurations for PeopleTools version 8.13 with the properties in the **PeopleTools 8.13 Settings** folder of the outbound eWay Environment properties. To display the eWay Environment properties, refer to [“Configuring Physical eWay Properties” on page 21](#).

The PeopleTools settings must match the configurations for the PeopleSoft server described in [“Configuring PeopleTools 8.13” on page 59](#).

At minimum, you must specify the following properties:

- Channel
- From node
- Message version
- Publication process (specified by default)
- Subject
- To node

Specifying PeopleTools 8.42 Settings

You can specify the configurations for PeopleTools version 8.42 with the properties in the **PeopleTools 8.42 Settings** folder of the outbound eWay Environment properties. To display the eWay Environment properties, refer to [“Configuring Physical eWay Properties” on page 21](#).

The PeopleTools settings must match the configurations for the PeopleSoft server described in [“Configuring PeopleTools 8.42” on page 44](#).

At minimum, you must specify the following properties:

- Destination node
- Message name
- Message version
- Requesting node

4.4.4 Specifying HTTP Settings

This section describes how to specify physical HTTP configuration properties for the outbound PeopleSoft eWay. For logical HTTP configuration properties, refer to [“Specifying the HTTP Username and Password” on page 22](#).

Specifying the Content Type

You can specify the default **Content type** header value to be included in requests to the server with the **Content type** property. To display the eWay Environment properties, refer to [“Configuring Physical eWay Properties” on page 21](#).

Default

This default content type is **text/xml; charset=iso_8859-1**.

Specifying the Encoding Type

You can specify the default encoding used when reading or writing textual data with the **Encoding** property. To display the eWay Environment properties, refer to [“Configuring Physical eWay Properties” on page 21](#).

Default

This default encoding is **ASCII**.

Specifying the URL for the HTTP Listening Connector

You can specify the location for the HTTP listening connector with the **URL** property. To display the eWay Environment properties, refer to [“Configuring Physical eWay Properties” on page 21](#).

eGate uses 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:

http://PSFTHOST/servlets/psft.pt8.gateway.Gatewayservlet

WebLogic:

http://PSFTHOST/servlets/gateway

For PeopleTools 8.42, use:

http://PSFTHOST:90/PSIGW/HttpListeningConnector

where *PSFTHOST* 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 52](#).

Building PeopleSoft Project Business Logic

This chapter describes how to build the business logic for PeopleSoft Projects. Project business logic is contained in Business Processes for eInsight, and in Collaborations for eGate Integrator used without eInsight.

This chapter also includes a final section with an overview of completing PeopleSoft Projects after you have built the business logic.

In This Chapter

- [Generating DTDs from PeopleTools 8.13](#) on page 25
- [Creating OTDs](#) on page 37
- [OTD Methods and Business Process Operations](#) on page 38
- [Building PeopleSoft Business Logic with eInsight](#) on page 39
- [Building PeopleSoft Business Logic with eGate](#) on page 40
- [Completing the Project](#) on page 42

5.1 Generating DTDs from PeopleTools 8.13

The business logic for PeopleSoft ICAN Projects is created by using a PeopleSoft DTD. You use the PeopleTools Application Designer 8.13 to generate DTDs using third-party software. You can then create an OTD that uses the generated DTD as described in [“Creating OTDs” on page 37](#).

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

The procedure described 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 26.
- 2 [Extracting and Viewing the XML Test Message](#) on page 30.
- 3 [Generating a DTD for the XML File](#) on page 35.

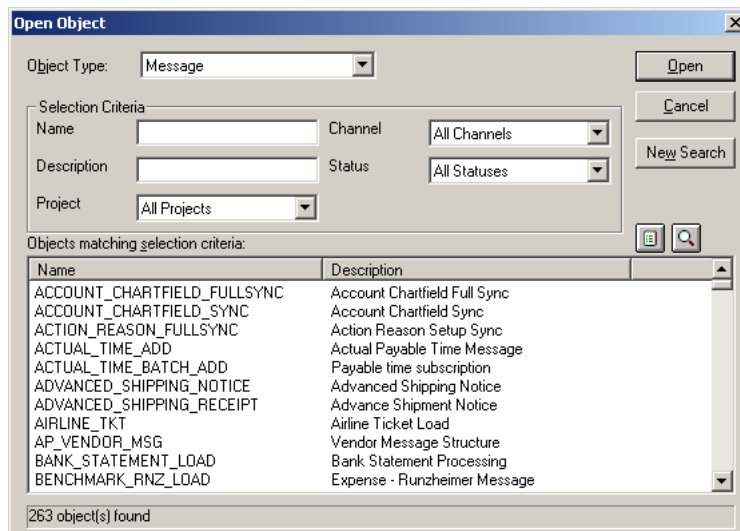
5.1.1 Generating and Publishing an XML Test Message

The first step 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

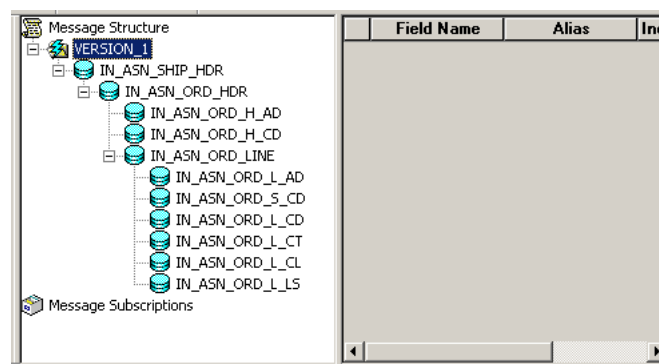
- 1 Log into PeopleTools.
- 2 Log into the Application Designer
- 3 In the Application Designer, click **Open** on the **File** menu.. The **Open Object** dialog box appears.

Figure 5 Open Object Dialog Box - Object Type Message



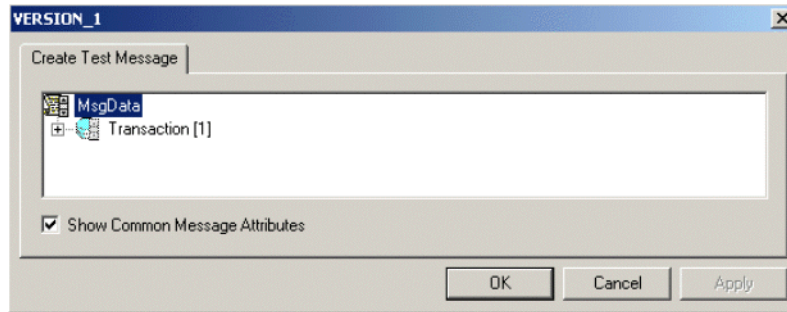
- 4 Click **Message** for the object type, and click **Open**. A list of all available message definitions displays.
- 5 Double-click the message definition for the message, for example, **ADVANCED_SHIPPING_RECEIPT**. The **Message** window shows the message structure.

Figure 6 Message Structure Details



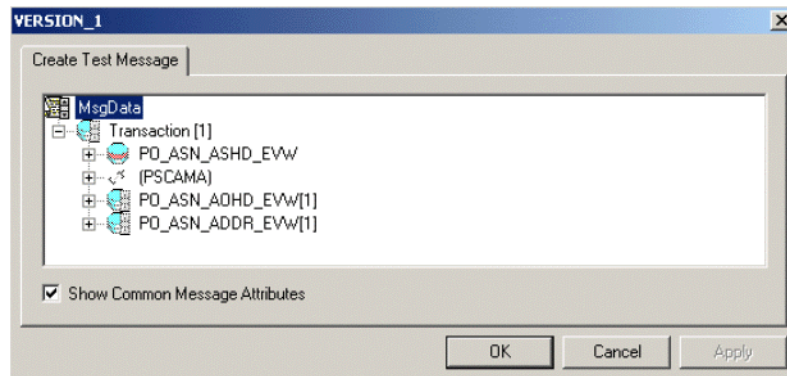
- 6 Right-click **Version_1** in the message structure the Message window and click **Create Test Message**. The **Version_1** dialog box appears showing the records contained in the message **ADVANCED_SHIPPING_RECEIPT**.

Figure 7 Creating a Test Message



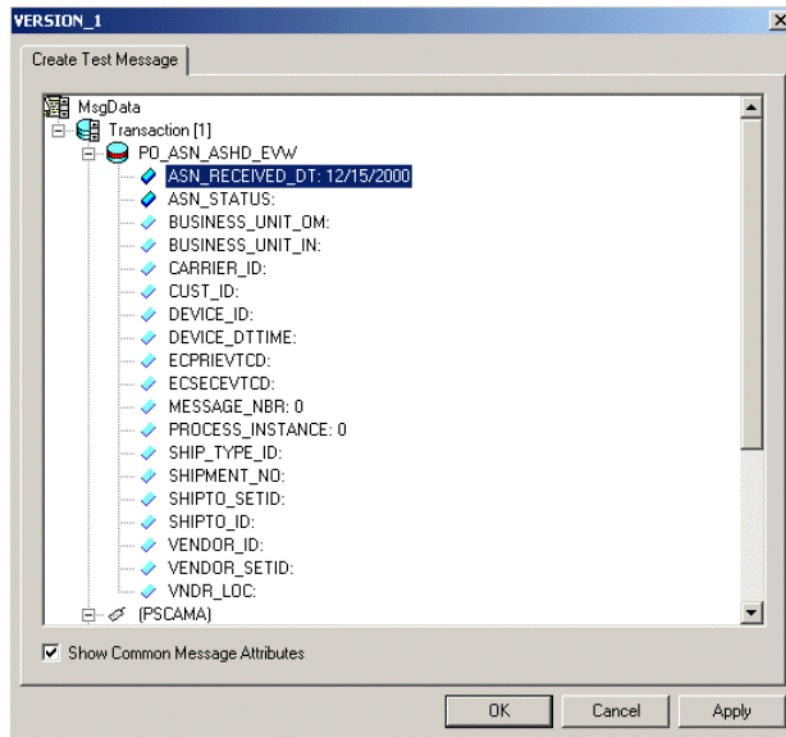
- 7 Expand the **Transaction** record. This shows all subrecords within the transaction record as shown below.

Figure 8 Displaying Transaction Subrecords



Records can nest to multiple levels as shown below.

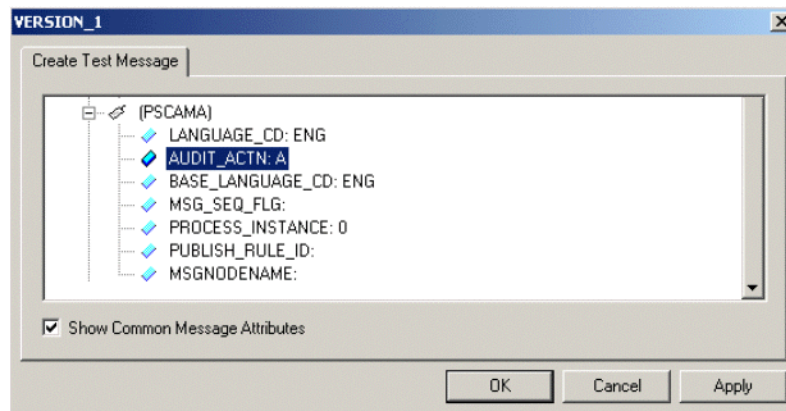
Figure 9 Expanding Transaction Subrecords



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

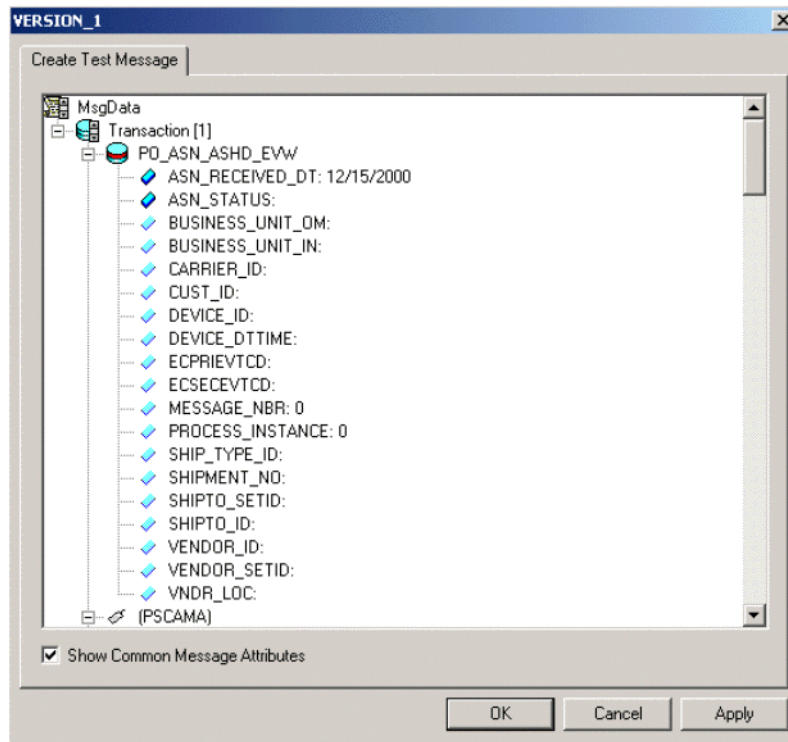
- ◆ If there are no constraints requiring you to populate all fields in a record, then generate a well-formed XML message by populating only one field in each record and sub-record.
 - ◆ If there are constraints, then all fields in each record and sub-record must be populated.
 - ◆ For most message definitions, only one field is required to be populated with data. Also, some have values by default.
- 8 Enter data for the **PSCAMA** records (see Figure 10) as follows:
- A Double-click on a specific field. If the field displays empty, it is available for data input.
 - B Add the sample data.
 - C Continue populating all other records and subrecords.

Figure 10 Version 1 - Create Test Message (4)



- 9 Continue entering data until all other required records and subrecords are populated, using the same method as above.
- 10 Once all records and subrecords of the message have been populated with data, click **Apply** to have the updates published to the **PSFT_EP** Message Node.

Figure 11 Viewing the Test Message



A message indicates successful publication.

- 11 Click OK to close the dialog box.

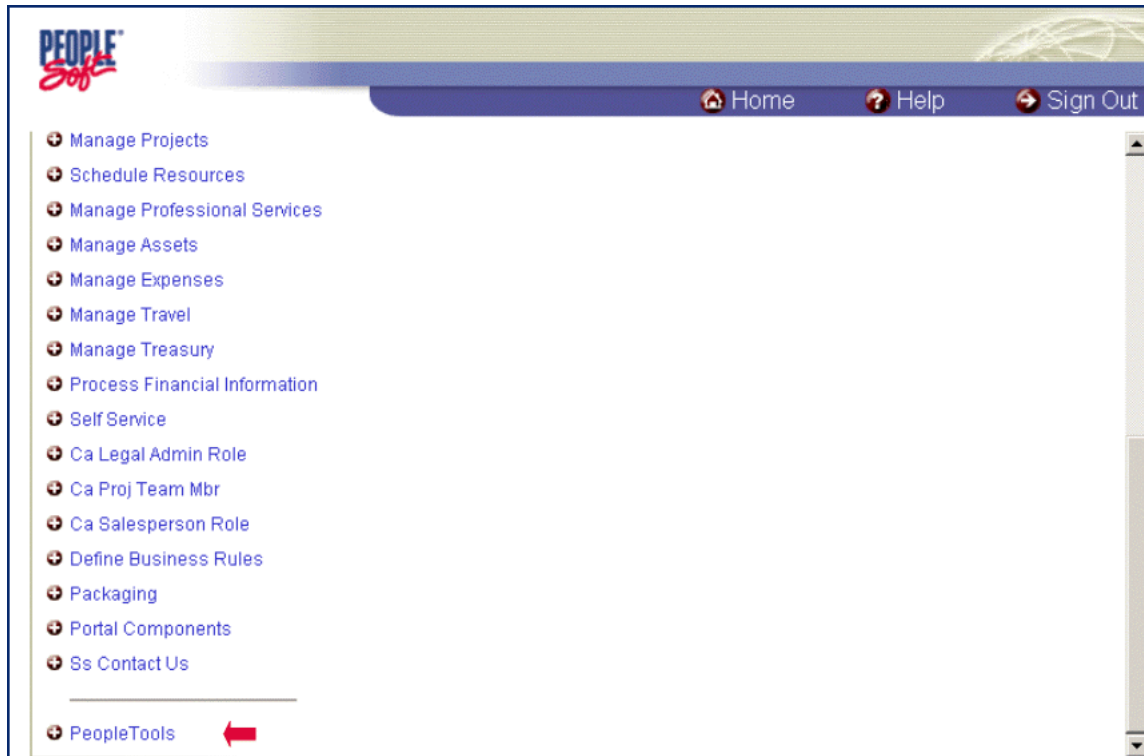
5.1.2 Extracting and Viewing the XML Test Message

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

To view the XML message

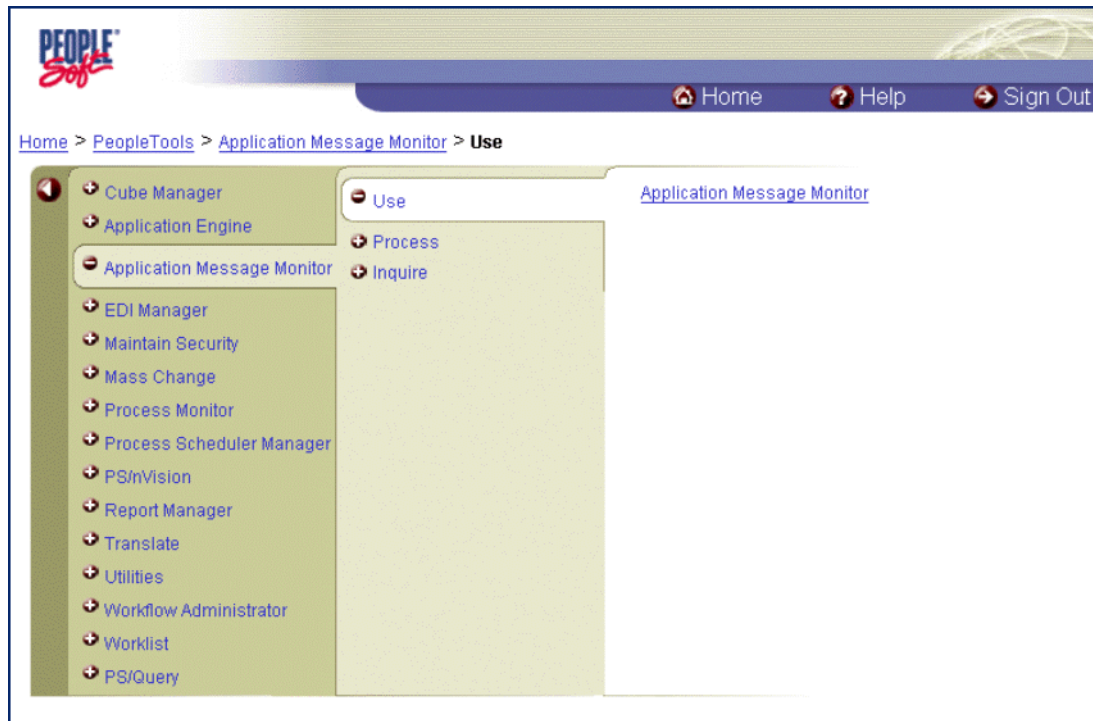
- 1 Within a supported web browser, log into the PeopleSoft 8 Application.
- 2 In PeopleSoft 8, click **PeopleTools** to open the PeopleTools application.

Figure 12 PeopleSoft 8 Application Contents Page



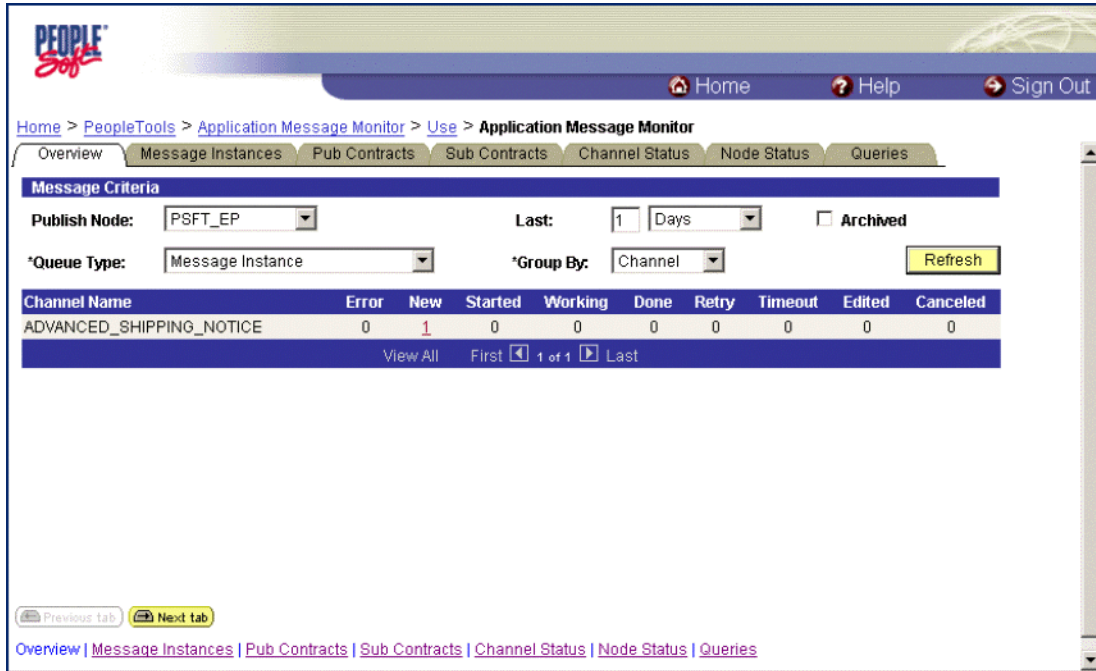
The PeopleTools Directory Tree appears as shown below.

Figure 13 PeopleTools Directory Tree



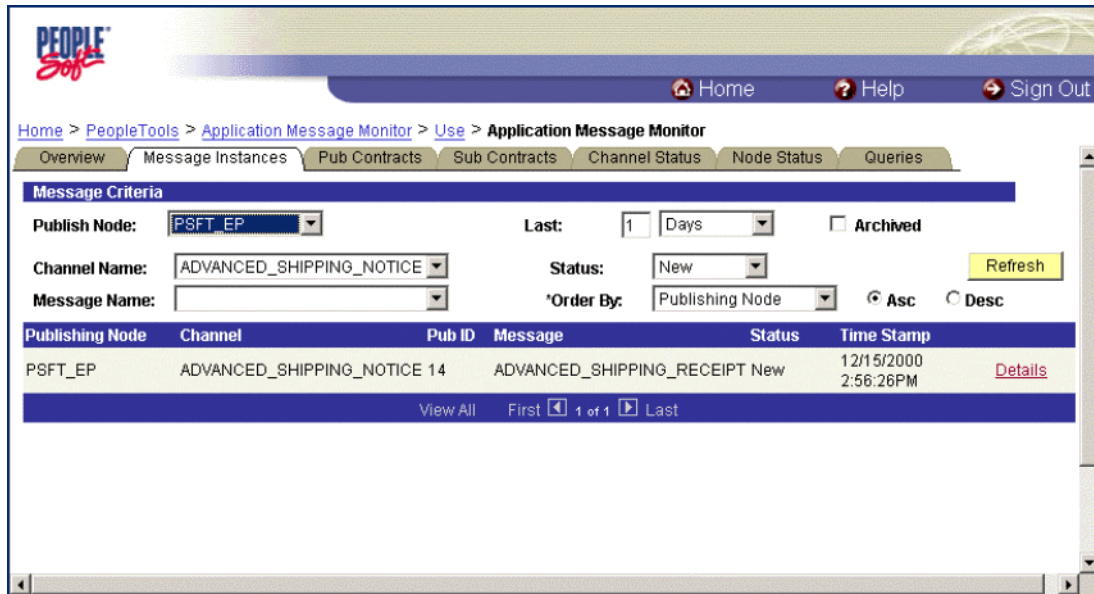
- 3 Click **Application Message Monitor, Use , Application Message Monitor**, and click the hyperlink. The **Application Message Monitor** page opens to the **Overview** tab.

Figure 14 Application Message Monitor - Overview Tab



- 4 In the **Publish Node** box, click the **PSFT_EP** message node.
- 5 Click **Refresh**, and the number of messages published for the selected grouping using the Create Test Message tool is indicated.
- 6 Click the link indicated by the number of messages in the **New**, **Done**, or **Working** column. The **Message Instances** tab appears, showing a summary of the published messages.

Figure 15 Application Message Monitor - Message Instances Tab



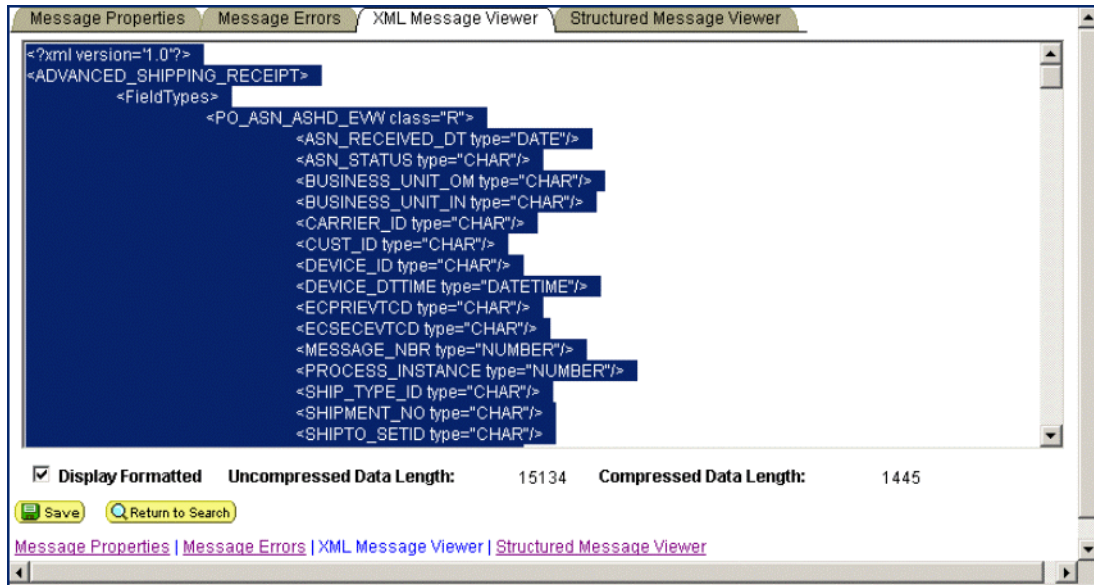
7 Click the **Details** link to view properties of the XML message that was published.

Figure 16 Message Properties Tab



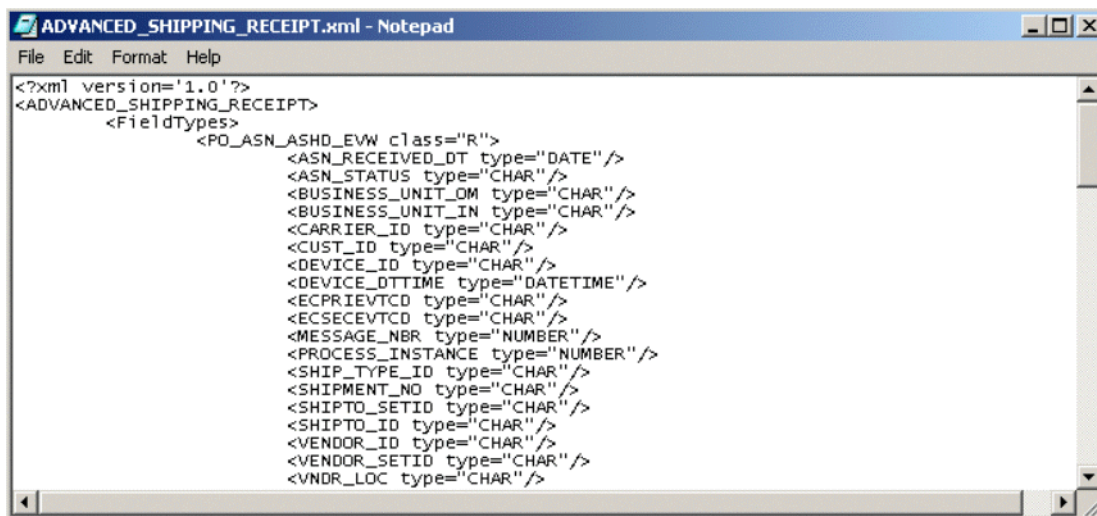
8 Click the **XML Message Viewer** tab to review the message itself.

Figure 17 XML Message Viewer Tab



- 9 Select the entire XML message.
- 10 Copy it to the clipboard.
- 11 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 to name the Message Definition. This example shows that the XML Message ADVANCED_SHIPPING_RECEIPT was saved.

Figure 18 ADVANCED_SHIPPING_RECEIPT.xml



5.1.3 Generating a DTD for the XML File

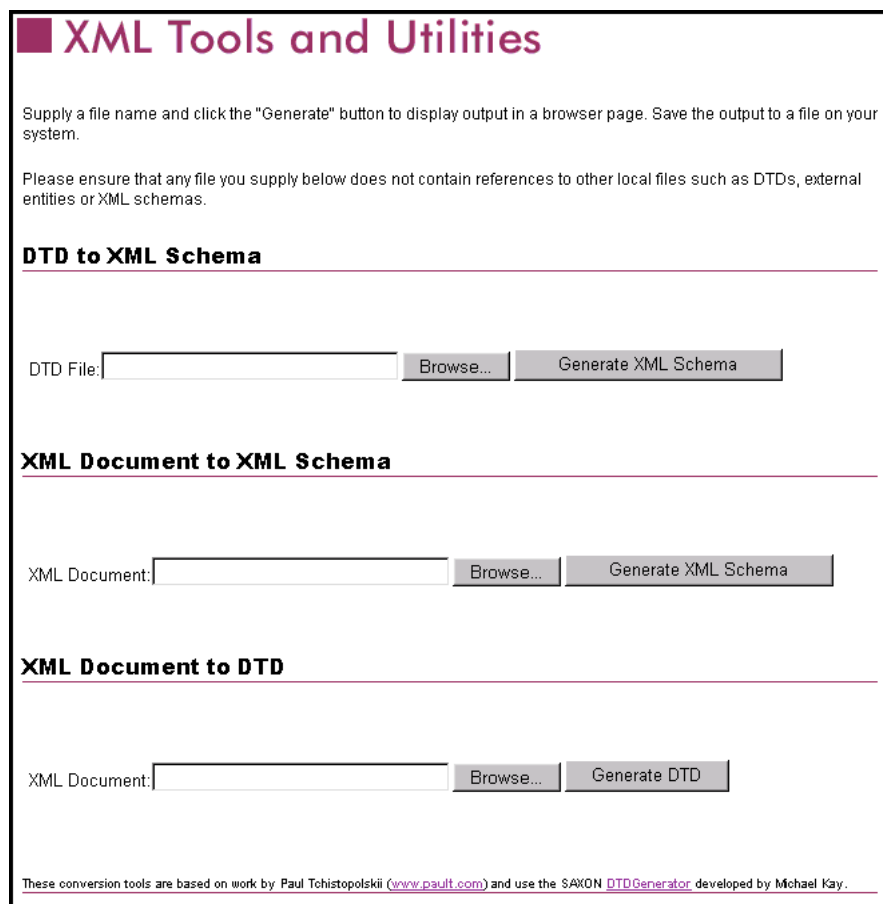
The structure of the XML message now must be described in a DTD, from which an OTD is subsequently generated. PeopleSoft does not provide a DTD generation facility, but third-party utilities are available to accomplish this task.

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

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

This utility is shown to illustrate the general procedure of DTD generation for the purposes of this User's Guide (see Figure 19 - Figure 20). SeeBeyond has no connection with, and does not support, this product.

Figure 19 Example DTD Generator (1)



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.

- 1 Under **XML Document to DTD**, click **Browse**.
- 2 Locate the .xml file where you saved the XML Message, in this example,
`c:\temp\ADVANCED_SHIPPING_RECEIPT.xml`
- 3 Click **Open**. The **DTD Generator** page reappears with the path and file displayed in the XML Document box.

Figure 20 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.

- 4 Click **Generate DTD** to generate the DTD. The DTD appears as shown below.

Figure 21 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 >
```

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

Figure 22 DTD File

You can now use the DTD to create the PeopleSoft OTD using the DTD OTD wizard in the Enterprise Designer as described in the section below.

5.2 Creating OTDs

For the business logic for PeopleSoft Business Processes and Collaborations, you use DTDs generated from PeopleSoft as described in the section above. You then create a DTD OTD with the DTD OTD wizard in the Enterprise Designer. For information about creating DTD OTDs, refer to the *eGate Integrator User's Guide*.

The PeopleSoft eWay provides a PeopleSoft DTD in the zip file for the sample Projects for your review. For information about locating the sample Project file, refer to [“Locating the Sample Projects” on page 70](#). The DTDs can be found in the file **DTD_and_Data_Files.zip**.

5.3 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 via HTTP.

Parameters

None.

Return Value

None.

Throws

PSoftHttpApplicationException

sendMessage Operation

Description

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

Input and Output

eInsight Operation	Input	Output
processRequest	n/a	webRequest

5.4 Building PeopleSoft Business Logic with eInsight

This section describes how to build the PeopleSoft HTTP business logic with eInsight in the following sections:

- [Adding Business Processes](#) on page 39
- [Using Business Process Operations](#) on page 39

To see an example of PeopleSoft Business Processes and Connectivity Maps, review the **PS_HTTP_BPEL** or **PS_JMS_BPEL** sample Projects as described in [“Working with PeopleSoft Sample Projects”](#) on page 69.

For information about JMS Business Processes, refer to the *eGate Integrator JMS Reference Guide*.

5.4.1 Adding Business Processes

To add Business Processes

- In the **Project Explorer** tab of the Enterprise Designer, right-click the Project for which you intend to create a Business Process, click **New**, and then **Business Process**.

5.4.2 Using Business Process Operations

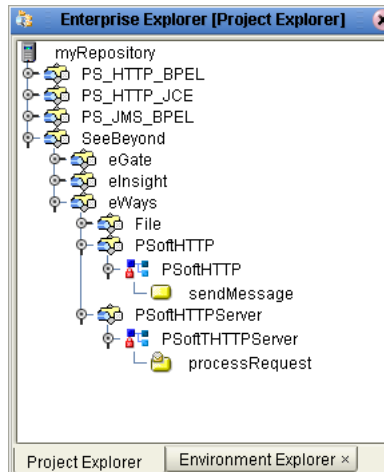
To use Business Processes operations

- 1 In the **Project Explorer** tab of the Enterprise Designer, expand the **SeeBeyond**, **eWays**, **PSoftHTTP**, and **PSoftHTTPServer** folders in the **Project Explorer** tab.

The **PSoftHTTP** folder shows the operations available for the outbound PeopleSoft eWay (*sendMessage*).

The **PSoftHTTPServer** folder shows the operation available for the inbound PeopleSoft eWay (*processRequest*).

Figure 23 PeopleSoft Business Process Operations



- 2 To use an operation in a Business Process, drag the operation to the Business Process Designer canvas.

To see an example of Business Processes that use these operations, refer to the eInsight HTTP sample Project in [“Working With the eInsight HTTP Sample Project”](#) on page 71.

5.5 Building PeopleSoft Business Logic with eGate

This section describes how to build the PeopleSoft HTTP Collaborations in the following sections:

- [Building Collaborations](#) on page 40
- [Adding Connectivity Maps](#) on page 41
- [Using the sendMessage\(\) Method](#) on page 41

To see an example of PeopleSoft Collaborations and Connectivity Maps, review the [PS_HTTP_JCE](#) or [PS_JMS_JCE](#) sample Projects as described in [“Working with PeopleSoft Sample Projects”](#) on page 69.

For information about JMS Collaborations, refer to the *eGate Integrator JMS Reference Guide*.

5.5.1 Building Collaborations

After you have built the OTDs as described in [“Creating OTDs”](#) on page 37, you are ready to build Collaboration Definitions.

To build Collaborations

- 1 In the **Project Explorer** tab of the Enterprise Designer, right-click the Project, click **New**, and then **Collaboration Definition (Java)**.

- 2 Complete the **Collaboration Definition** wizard. For details about this wizard, refer to the *eGate Integrator User's Guide*.
- 3 In the **Collaboration Editor** window, create the source code and the data mappings for the Collaboration. For details, refer to the *eGate Integrator User's Guide*. For information about OTD methods, refer to **"OTD Methods and Business Process Operations"** on page 38.

5.5.2 Adding Connectivity Maps

To add Connectivity Maps

- In the **Project Explorer** tab of the Enterprise Designer, right-click the Project for which you intend to create a Connectivity Map, click **New**, and then **Connectivity Map**.

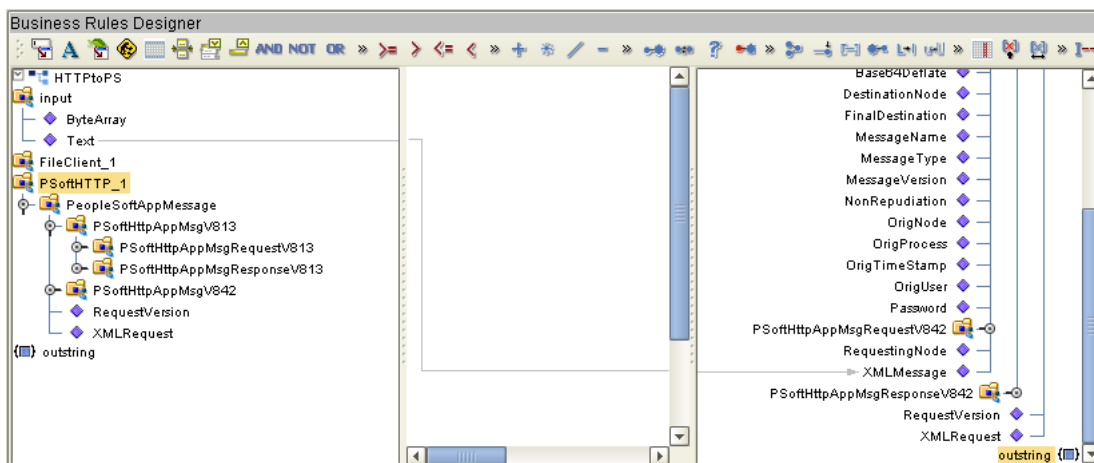
To add the PeopleSoft HTTP inbound and outbound eWays, refer to **"Adding HTTP PeopleSoft eWays to Connectivity Maps"** on page 17.

5.5.3 Using the sendMessage() Method

To use the sendMessage() method

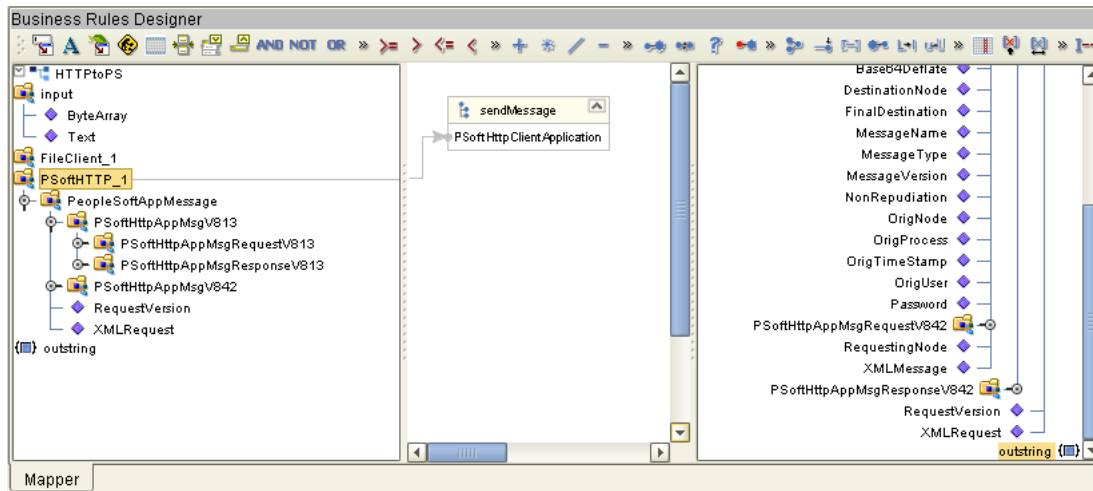
- 1 In the Business Rules toolbar of the Java Collaboration Rules Editor, populate the message by copying the input to the XML message as shown below.

Figure 24 Populating the XML Message



- 2 Right-click the outbound PeopleSoft OTD and click **Select a method to call**. A list of methods appears.
- 3 Click **sendMessage()**. The **sendMessage()** box appears.

Figure 25 Calling the sendMessage Method



5.6 Completing the Project

The procedure below provides a quick overview of the remaining steps to complete PeopleSoft Projects:

To complete the Project

- 1 Configure the logical properties of the eWay as described in [“Configuring Logical eWay Properties” on page 18](#).
- 2 Create an eGate Environment and add the PeopleSoft eWay as described in [“Adding PeopleSoft eWays to Environments” on page 21](#).
- 3 Configure the physical properties of the eWay as described in [“Configuring Physical eWay Properties” on page 21](#).
- 4 Configure the other components in the Environment. For an example, refer to [“Creating the eGate HTTP Sample Environment” on page 81](#).
- 5 Create and activate the Deployment Profile as described in the *eGate Integrator User’s Guide*. For an example, refer to [“Creating the eGate HTTP Sample Deployment Profile” on page 83](#).

Configuring the PeopleSoft Server for ICAN Projects

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

In This Chapter

- [Overview](#) on page 43
- [Configuring PeopleTools 8.42](#) on page 44
- [Configuring PeopleTools 8.13](#) on page 59

6.1 Overview

For eGate to post and receive messages from PeopleSoft, you must configure the PeopleSoft server. The configurations are different for PeopleTools 8.13 versus 8.42. For PeopleTools 8.42, there are also different configurations depending on whether the ICAN Project uses JMS, HTTP, or both. The following table summarizes the configurations.

Table 4

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 ICAN using PeopleTools 8.42 as well as 8.13. Information about the PeopleSoft server can be found in the PeopleBooks documentation provided by PeopleSoft.

6.2 Configuring PeopleTools 8.42

This section describes how to configure PeopleTools 8.42 to integrate with eGate Integrator. When you use this version of PeopleTools, you can create ICAN Projects that use inbound and outbound JMS data flows, and inbound HTTP data flows. Inbound HTTP data flows are only supported when you use eInsight together with eGate.

6.2.1 Configuring PeopleSoft for eGate Posting

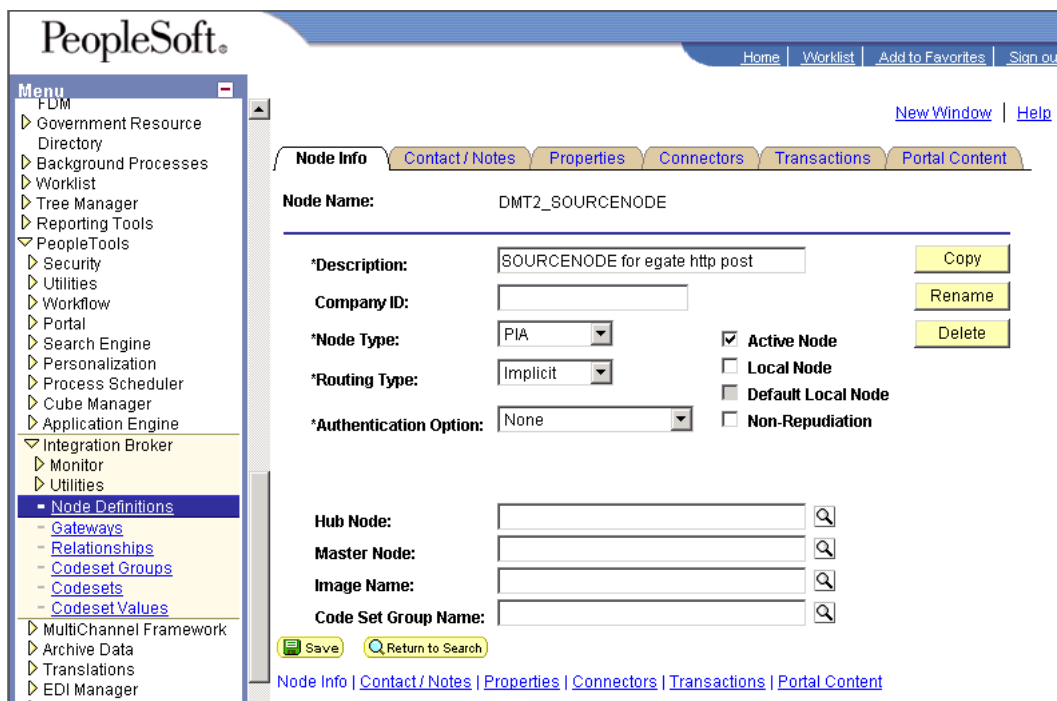
Creating Source Nodes to Receive eGate Posts

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

To source PeopleSoft nodes to receive eGate posts

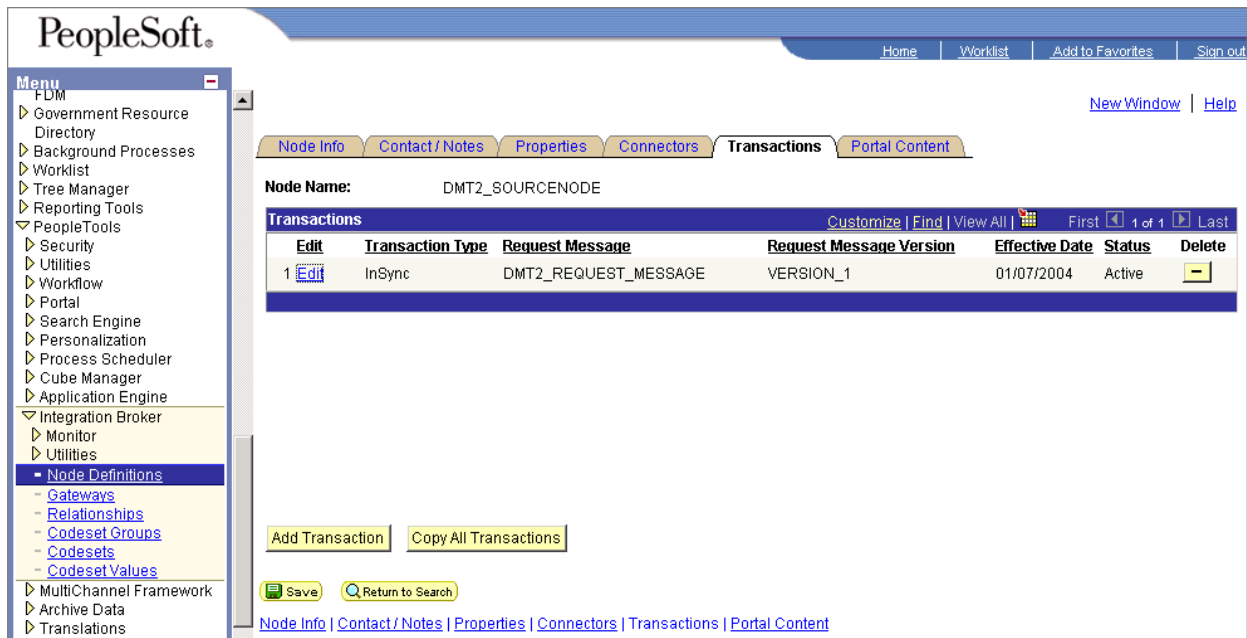
- 1 Log into the PeopleSoft server.
- 2 Follow the PeopleSoft documentation to create a new node and configure it as shown in the figure below.

Figure 26 Adding the Node to Receive eGate Posts



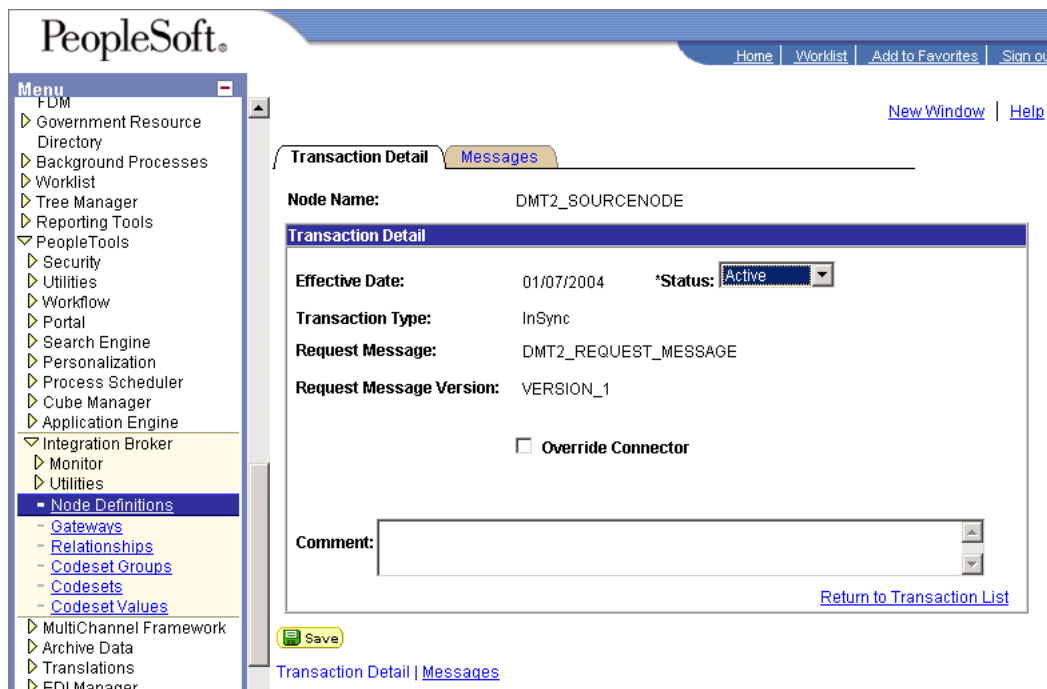
- 3 Add a transaction for the eGate post using your own naming convention and configure it as shown below.

Figure 27 Adding the Transaction to Receive eGate Posts



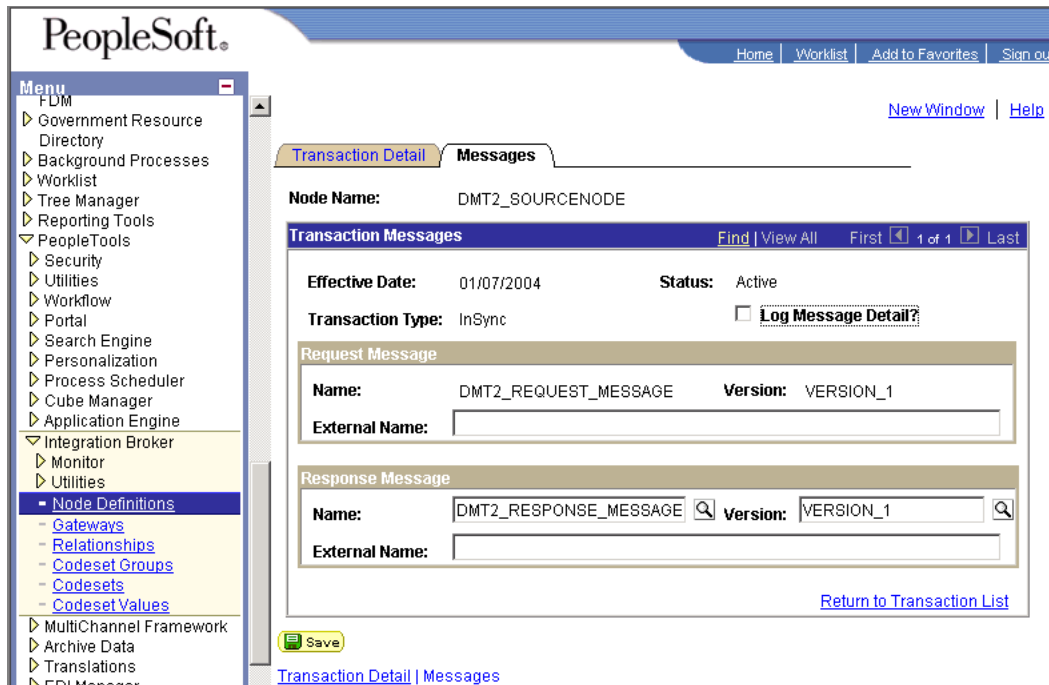
- 4 Click **Edit**. The **Transaction Detail** tab appears. Configure the transaction as shown in the figure below.

Figure 28 Configuring the Transaction to Receive eGate Posts



- 5 Click **Messages**. The **Messages** tab displays. Configure the messages for the eGate post as shown in the figure below.

Figure 29 Configuring the Messages to Receive eGate Posts



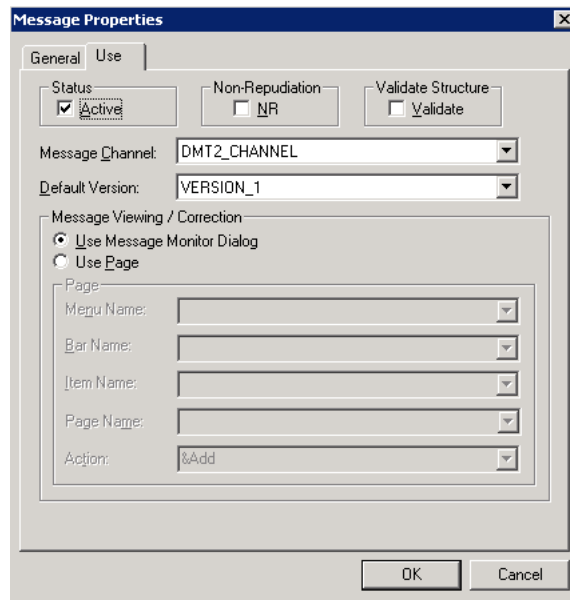
Activating Message Channels to Receive eGate Posts

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 In the PeopleSoft Application Designer, create a channel. You do not need to change the default properties.
- 2 Create the request and response message definitions.
These message do not require PeopleCode.
- 3 Click **Message Properties**. The **Message Properties** tab appears.
- 4 Select the **Active** option and click **OK**.

Figure 30 Activating Message Channels



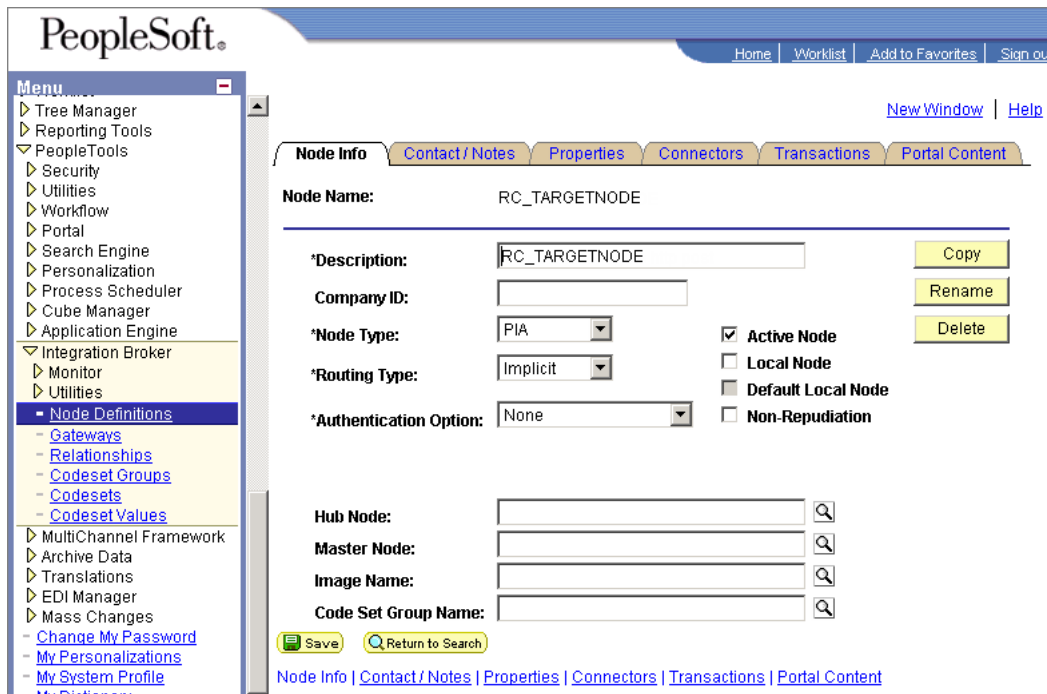
Creating Target Nodes to Post to eGate via HTTP

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

To create target nodes to post to eGate via HTTP

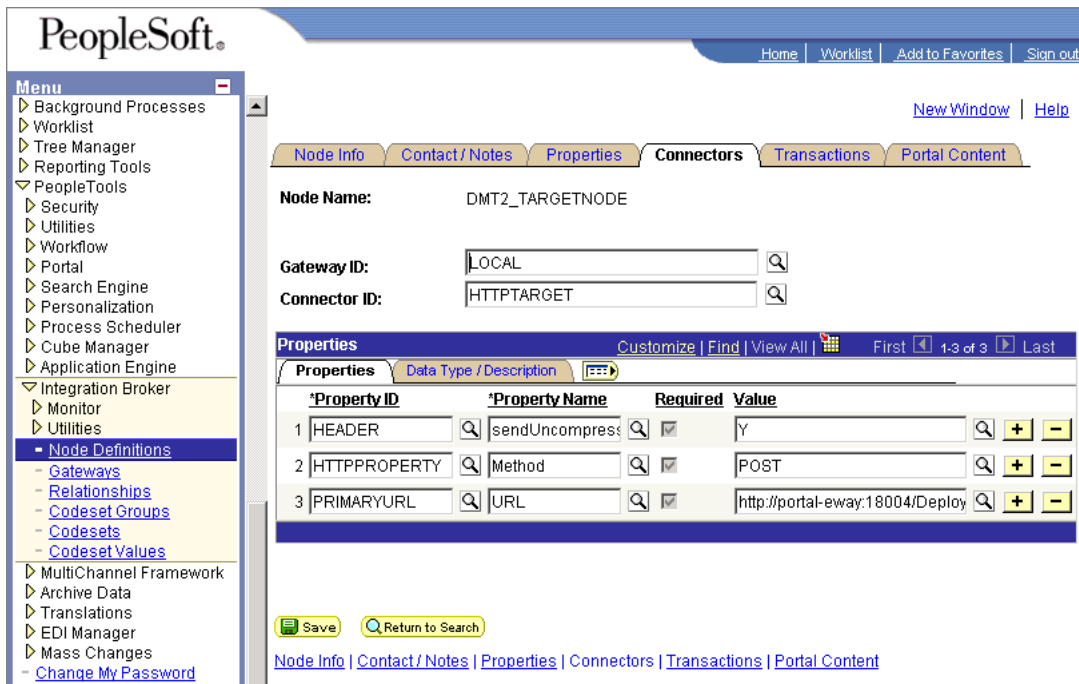
- 1 Follow the PeopleSoft documentation to create a new node using your own naming convention and configure it as follows:

Figure 31 Creating Nodes to Post to eGate



- 2 Select the target connector ID, and enter the values shown below.

Figure 32 Configuring the Connector to Post to eGate via HTTP



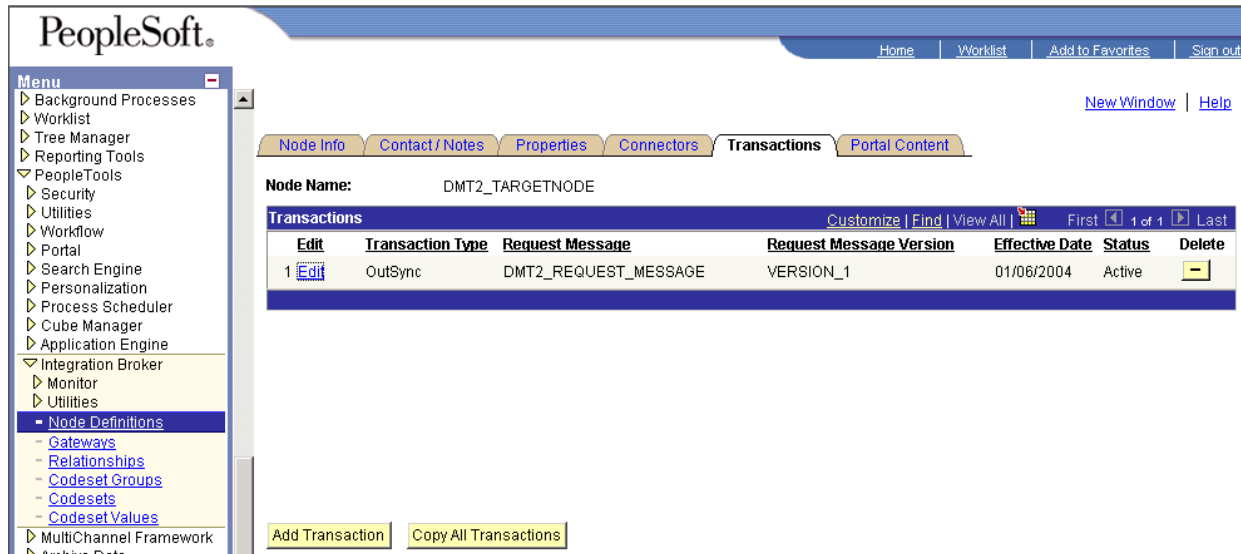
Use the following format for the **PRIMARYURL property:

http://localhost:portno/Deployment1_servlet/PeopleSoftHTTPServerWay

This property must match the logical. eWay Servlet-url property defined in the Enterprise Designer as described in **“Specifying the Servlet URL” on page 20**. The port number must match the port number default web server port number specified in the Integration Server properties in the Enterprise Designer, and 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**.

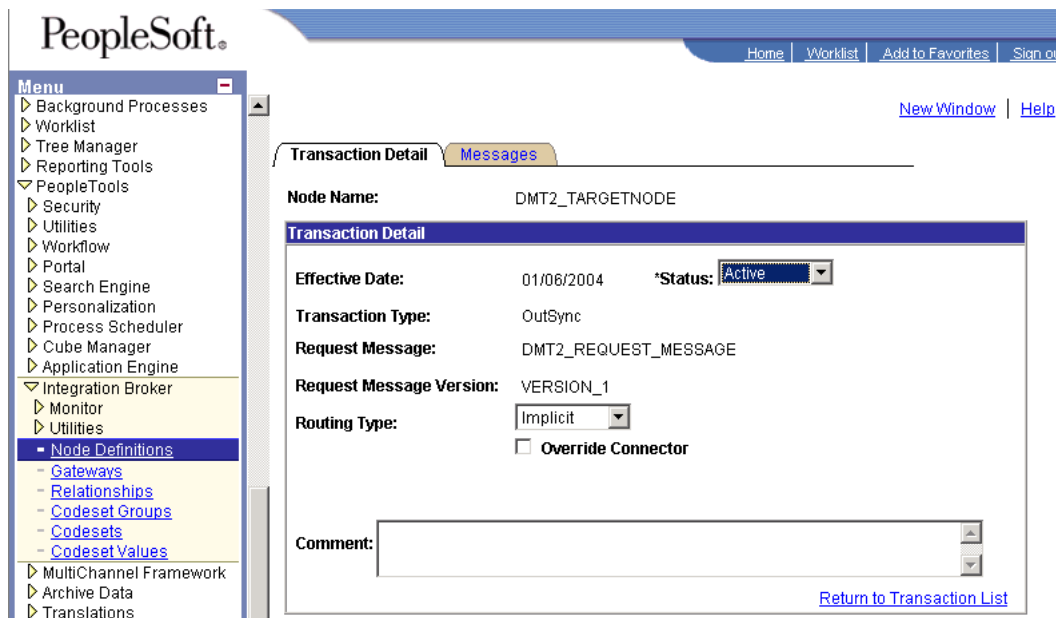
- 3 Configure the transaction as follows:

Figure 33 Configuring the Transaction to Post to eGate via HTTP



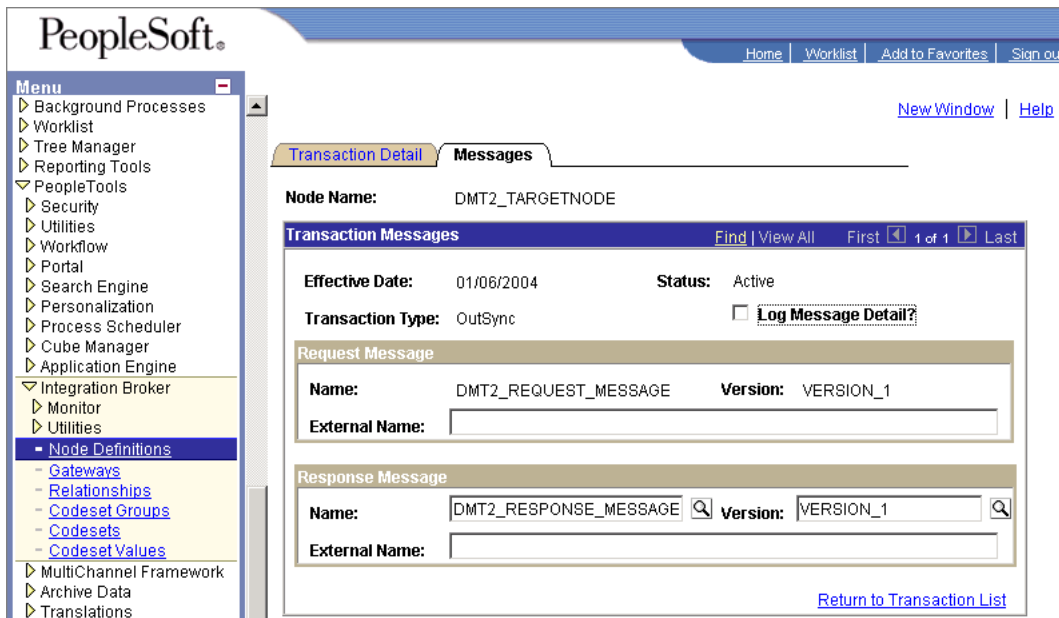
- 4 Click Edit.

Figure 34 Configuring the Transaction Detail to Post to eGate via HTTP



- 5 Click Messages. The Messages tab displays.

Figure 35 Configuring the Messages to Post to eGate via HTTP



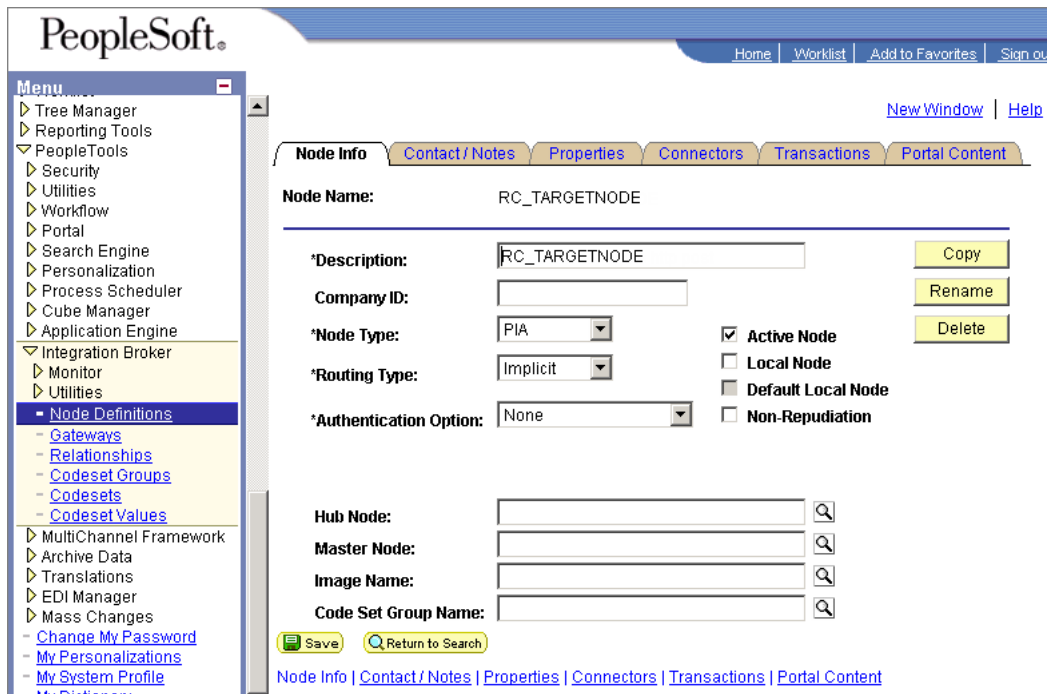
Creating Target Nodes to Post to eGate via JMS

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 via JMS

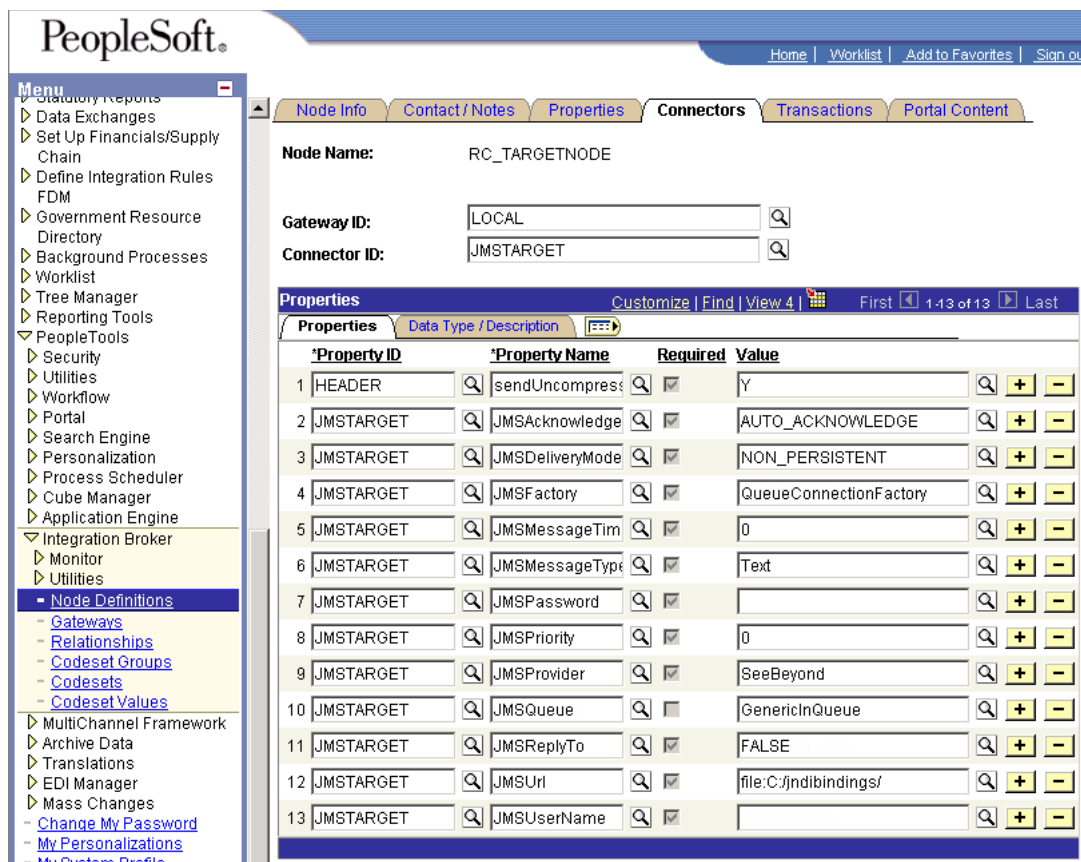
- 1 Follow the PeopleSoft documentation to create a new node using your own naming convention and configure it as follows:

Figure 36 Creating Nodes to Post to eGate via JMS



- 2 Select the target connector ID, and enter the values shown below.

Figure 37 Configuring the Connectors to Post to eGate via JMS



The JMS properties such as persistence and acknowledgement modes must match the settings for the JMS client defined in the Connectivity Map. For information about JMS properties, refer to the *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. For more information about this file, refer to the section below.

6.2.2 Additional HTTP Configurations

Verifying the HTTP Listening Connector

For ICAN Projects that use HTTP to communicate to PeopleSoft, two types of HTTP connectors are used: 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 HTTP listening

connector. You do not have to configure HTTP listening connector; the connector is started automatically by the PeopleSoft Integration Application.

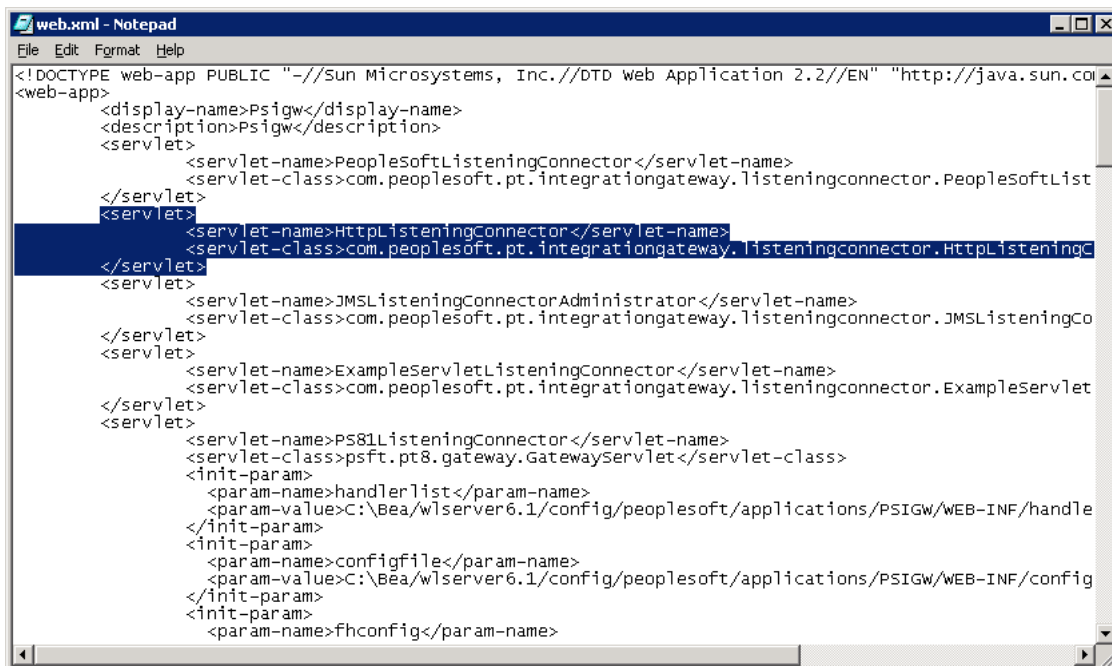
However, you must set the location for the HTTP listening connector in the Environment properties of the PeopleSoft eWay as described in [“Specifying the URL for the HTTP Listening Connector” on page 24](#). The routing of messages in the PeopleSoft server is decided by the content of the message in 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 is part of PeopleSoft eWay, and its name is specified in the Connectivity Map as described in [“Specifying the Servlet URL” on page 20](#).

To verify HTTP listening connector

- 1 In a text editor, open the web.xml file in the following directory:
 bea\wlserv6.1\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.

Figure 38 Verifying the HTTP Listening Connector



6.2.3 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 the table below.

You can configure multiple queues by using the convention *ig.jms.queue1*, *ig.jms.queue2*, *ig.jms.queue3*, and so on. The table below shows how to configure the JMS listener to use the *GenericOutQueue*.

Table 5 JMS Queue Listener Properties

<code>ig.jms.Queues=1</code>	"1" indicates only one queue
<code>ig.jms.Queue1=GenericOutQueue</code>	The first queue name is "GenericOutQueue", must be same in the .bindings file. The java code to generate such entry in the .bindings is as: <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>
<code>ig.jms.Queue1.Provider=SeeBeyond</code>	The "SeeBeyond" entry must match the configuration entry in the <code>integrationgateway.properties</code> file: <code>ig.jms.JMSProvider.JNDIFactory.SeeBeyond=com.sun.jndi.fscontext.RefFSContextFactory</code>

Table 5 JMS Queue Listener Properties

<p>ig.jms.Queue1.JMSFactory=QueueConnectionFactory</p>	<p>“QueueConnectionFactory” is the jndi name in the .bindings file. You should have following java code to generate the entry:</p> <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>
<p>ig.jms.Queue1.MessageSelector=</p>	<p>see <i>eGate Integrator JMS Reference Guide</i>.</p>
<p>ig.jms.Queue1.Url=file:c:/jndibindings/</p>	<p>The URL of the .bindings file. Because PeopleSoft only supports fcontext, this is a directory name.</p>
<p>ig.jms.Queue1.User=Administrator</p>	<p>User name to eGate JMS server</p>
<p>ig.jms.Queue1.Password=SwBAuVVABok =</p>	<p>Encrypted value of the password to eGate JMS server. Use the PeopleSoft utility pscipher to get the encrypted value.</p>

3 Edit the file for the JMS queue listener properties as shown in the table below.

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

Table 6 JMS Topic Listener Properties

ig.jms.Topics=1	"1" indicates only one topic
ig.jms.Topic1=GenericOutTopic	<p>The first topic name is "GenericOutTopic", must be same in the .bindings file. The java code to generate such entry in the .bindings is as:</p> <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=SeeBeyond	<p>The "SeeBeyond" entry must match the configuration entry in the integrationgateway.properties file: ig.jms.JMSProvider.JNDIFactory.SeeBeyond=com.sun.jndi.fscontext.RefFSContextFactory</p>

Table 6 JMS Topic Listener Properties

<p>ig.jms.Topic1.JMSFactory=TopicConnecti onFactory</p>	<p>“TopicConnectionFactory” is the jndi name in the .bindings file. You should have following java code to generate the entry:</p> <pre> TopicConnectionFactory tgttcf = 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 */ 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>
<p>ig.jms.Topic1.MessageSelector=</p>	<p>Refer to the queue table</p>
<p>ig.jms.Topic1.Url=file:c:/jndibindings/</p>	<p>Refer to the queue table</p>
<p>ig.jms.Topic1.User=Administrator</p>	<p>Refer to the queue table</p>
<p>ig.jms.Topic1.Password=SwBAuVVABok=</p>	<p>Refer to the queue table</p>

Creating the JNDI Bindings File for JMS Posting

For the PeopleSoft eWay to be able to post to PeopleSoft via JMS, you must have a JNDI bindings file in place. You can generate the bindings file with any standard JNDI generation application. SeeBeyond provides a sample generation application called **PSFTBindJMS.java**. This program is included in the sample Project zip file. For information about locating the sample zip file, refer to [“Locating the Sample Projects” on page 70](#).

You must edit and recompile this program before generating the bindings file. For instructions, open the **PSFTBindJMS.java** file in a text editor and read the directions.

To create the JNDI bindings file

- 1 Edit the JNDI bindings generation application for the eGate host name and location.
- 2 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 *eGate Integrator JMS Reference Guide*.
- 3 Modify the following line to point to your own directory:

```
fcontextprops.put(Context.PROVIDER_URL, "file:C:\\eGateExports\\PeopleSoft\\JMS");
```
- 4 Use **compile.bat** to compile the program. A class file will be generated.
- 5 Use **run.bat** to run the program to create a **.bindings** file.
- 6 Copy the **.bindings** file to the location for the **JMSUrl** property described in the section above.

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
```

Starting and Stopping the JMS Listening Connector

To start the JMS listening connector

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

To stop the JMS listening connector

- `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`

6.2.4 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.

6.2.5 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.

6.3 Configuring PeopleTools 8.13

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

6.3.1 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 displays.
- 4 Enter the URL shown below for the PeopleSoft Gateway Servlet and click **OK**.

For Apache:

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

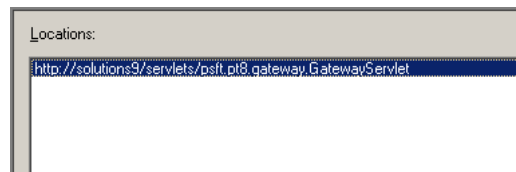
For WebLogic:

`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 the figure below.

Figure 39 PeopleSoft Node for Receiving eGate HTTP Posts

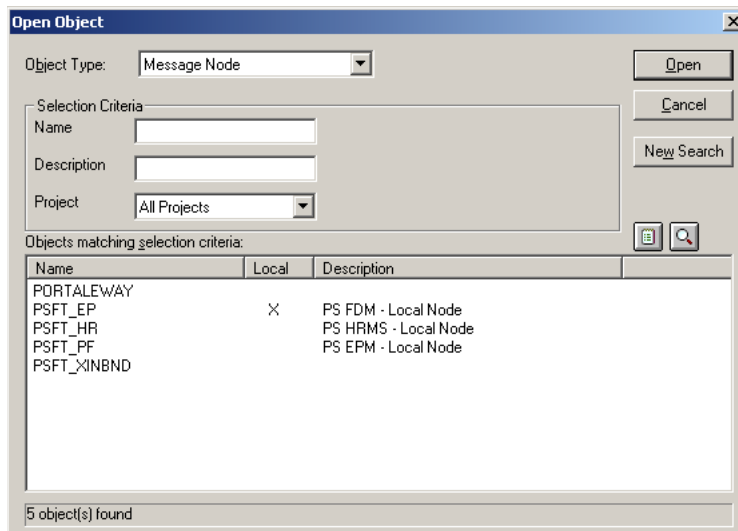


- 5 Click **Save As** on the **File** menu.
- 6 Enter the name of the message node.
- 7 Click **Open** on the **File** menu. The **Open Object** window displays.
- 8 To verify that the message node is ready for use, select **Message Node** from the **Object Type** list and click **Open**

A list of all message nodes displays as shown in the figure below. 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 40 Viewing Message Nodes



6.3.2 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.

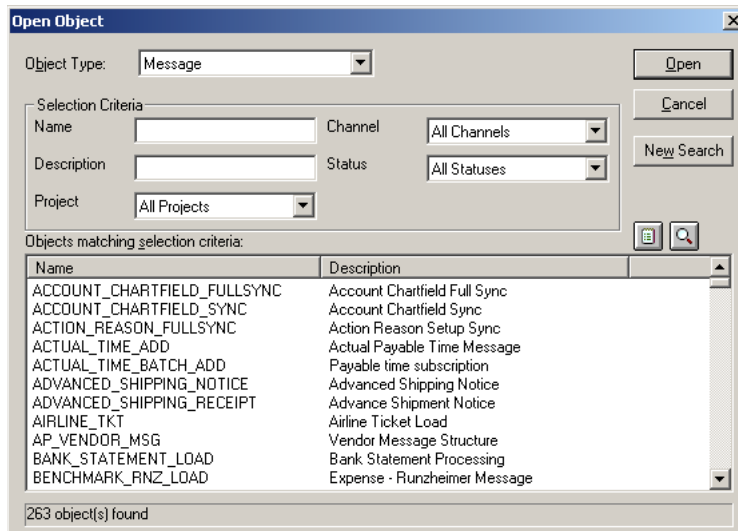
***Note:** For purposes of this publication the **ADVANCED_SHIPPING_RECEIPT** Message Definition is activated for publish / subscribe.*

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

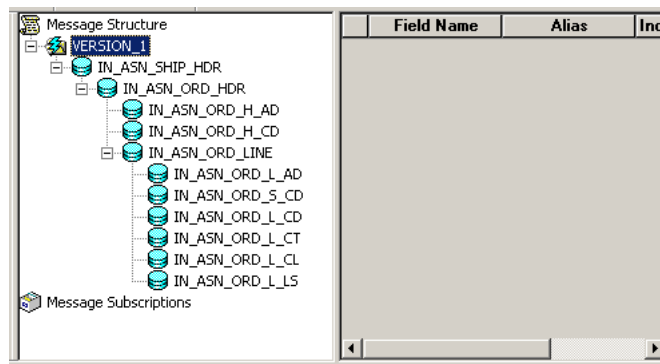
- 1 In PeopleTools Application Designer, click **Open** on **File** menu. This displays the **Open Object** window.
- 2 Click **Message** from the **Object Type** list. This displays all available PeopleSoft message definitions.

Figure 41 Viewing Available Message Destinations



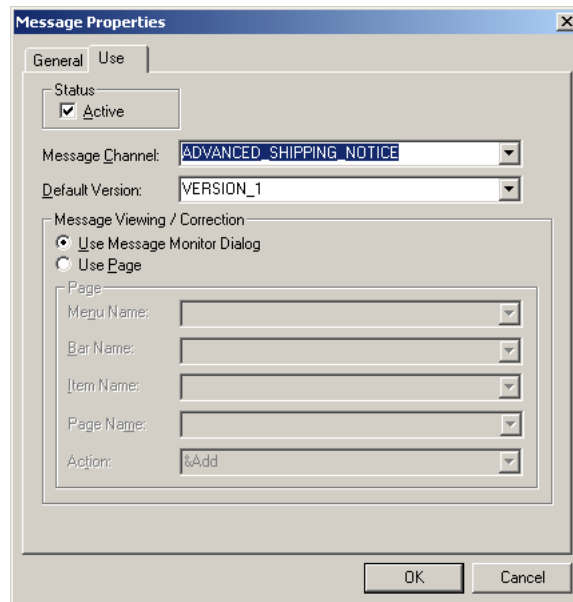
- 3 Double-click the message definition. The **Message** window appears, displaying the record details of the chosen message structure.

Figure 42 Message Structure Details



- 4 Click **Object Properties** on the **File** menu,. The **Message Properties** dialog box displays.
- 5 Click the **Use** tab.
- 6 Select the **Active** option as shown below and click **OK**.

Figure 43 Activating the Message Definition to Receive eGate Posts



- 7 Click **Save** on the **File** menu. You have now activated the message definition for publishing or subscribing.

6.3.3 Defining Message Channel Routing Rules

This procedure describes how to configure message channels. Before you start, determine which message channel you want to 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.

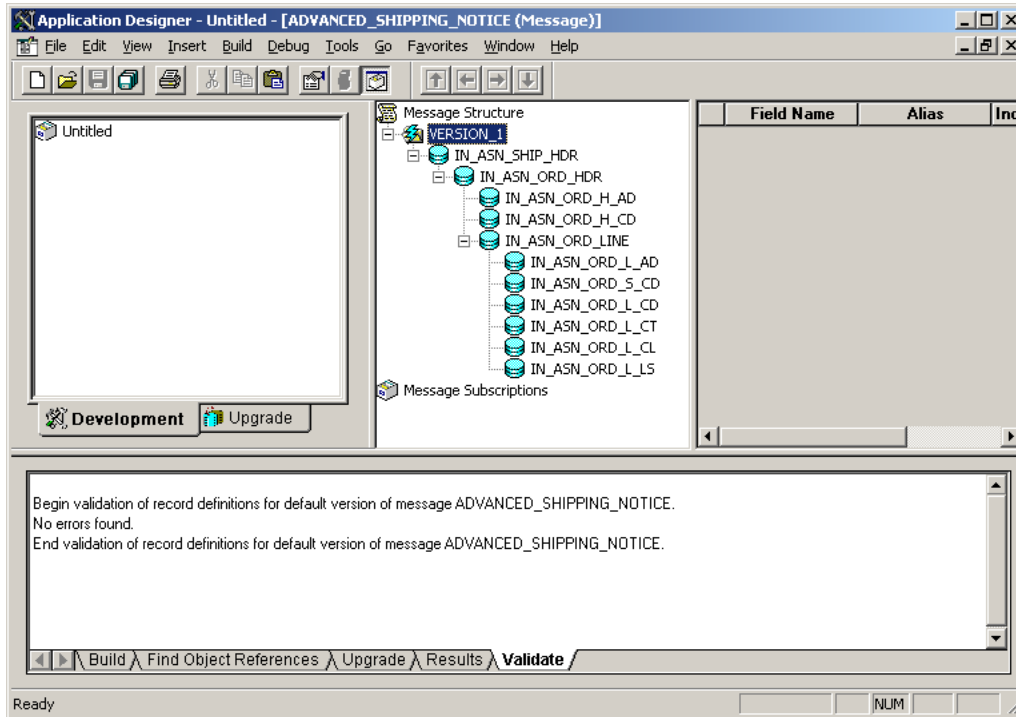
To configure the message channel

- 1 Log into the PeopleTools Application Designer.
- 2 Click **Open** on the **File** menu. The **Open Object** dialog box displays.
- 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 click **Insert message node**. The **Insert Message Node** dialog box appears, displaying the available message nodes.
- 6 Click **PSFT_EP** and click **Insert**. This inserts the message into the routing rules table.

- 7 Click **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 below.

Figure 44 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**.

Figure 45 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.

6.3.4 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.

Figure 46 Adding the PeopleSoft Handler Directory

PeopleSoft 8.13 Handler Directory			
Handler	Status	Load	Unload
<input type="button" value="Add handler"/> <input type="button" value="Configure"/> <input type="button" value="Delete"/>			

- 2 Click **Add handler**. The **Add Handler** page appears.
- 3 Enter the PeopleSoft handler class as shown below and click **Save**.

`psft.pt8.psfthandler.PeopleSoftHandler`

The **Handler Directory** page displays the new handler as shown below.

Figure 47 Viewing the New Handler

Handler	Status	Load	Unload	Configure	Delete
psft_pt8_psftHandlerPeopleSoftHandler	Not loaded	Load			Delete

Add handler

- 4 Click **Load** to load the PeopleSoft handler class just added. The status changes from to **Loaded successfully**.
- 5 Click **Configure** to configure the handler. The **Manage Lookup Table** page for the PeopleSoft handler appears.

Figure 48 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.

Figure 49 Adding an Address

Node	Machine address:port#	Tools Version	OPRID	Password
PSFT_EP e.g., EGEE_REMOTE	//solutions9:9000 e.g., //AKTT:9000...	8.13 e.g., 8.10	VP1 e.g., PTDMO	<input type="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 below.

Figure 50 Viewing the New Node

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.

6.3.5 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 67
- [Activating the Message Definition for Subscription](#) on page 67
- [Defining the Message Channel Routing Rules](#) on page 67
- [Adding the HTTP publication handler](#) on page 67

6.3.6 Creating an HTTP eWay Message node

Refer to [“Creating the PeopleSoft Node to Receive eGate HTTP Posts” on page 59](#) to create a message node associated with the PeopleSoft eWay. A message node called STCHTTP is used as an example.

6.3.7 Activating the Message Definition for Subscription

Refer to [“Activating the Message Definition to Receive eGate Posts” on page 61](#) to activate the message to be published to the PeopleSoft eWay. In this case, activate the PO-EXPECTED_RECEIPT_SHIPTO message.

6.3.8 Defining the Message Channel Routing Rules

Refer to [“Defining Message Channel Routing Rules” on page 63](#) 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).

6.3.9 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://PSFTHOST/servlets/psft.pt8config.ConfigServlet>

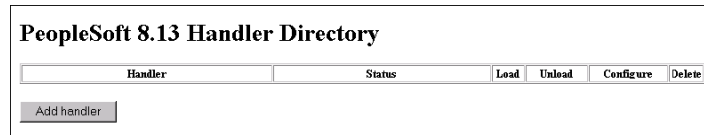
For WebLogic:

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

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

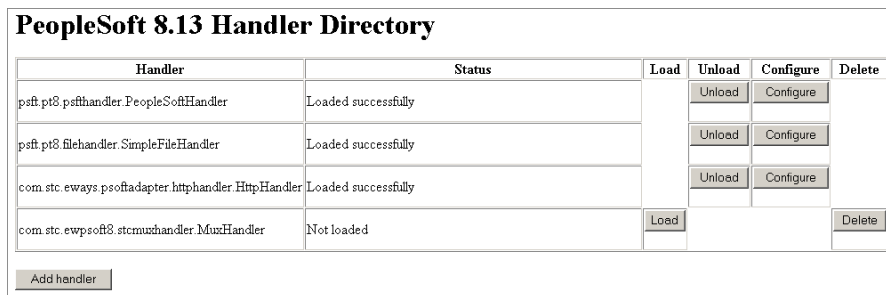
The **Handler Directory** page appears.

Figure 51 Adding the PeopleSoft Handler Directory



- 2 Click **Add handler**. The **Add Handler** page appears.
- 3 Enter the HTTP publication handler class as shown below and click **Save**.
com.stc.ewpssoft8.stchttphandler.HTTPHandler
- 4 Click **Save**. The **Handler Directory** page displays the new handler.

Figure 52 Adding the PeopleSoft Handler Directory



- 5 Click **Load**. The status changes to **Loaded successfully**.
- 6 Click **Configure** for the HTTP handler. The **HTTP Handler Directory** page displays.
- 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.

Working with PeopleSoft Sample Projects

The PeopleSoft eWay comes with four sample Projects. You can import these Projects into Enterprise Designer and use them to quickly learn how to set up PeopleSoft eWays in ICAN Projects, Environments, and Deployment Profiles.

Two sample Projects are for use with the eGate, and two are for use with eGate in combination with eInsight.

This chapter describes how you import and use the sample Projects.

In This Chapter

- [About the Sample Projects](#) on page 69
- [Locating the Sample Projects](#) on page 70
- [Importing the Sample Projects](#) on page 70
- [Working With the eInsight HTTP Sample Project](#) on page 71
- [Working With the eInsight JMS Sample Project](#) on page 76
- [Working With the eGate HTTP Sample Project](#) on page 80
- [Working With the eGate JMS Sample Project](#) on page 84

7.1 About the Sample Projects

The PeopleSoft eWay includes four sample Projects that you can import to see how ICAN Projects with the PeopleSoft eWay can be built. All samples can be used with PeopleTools version 8.42. The following projects are included:

- **PS_HTTP_JCE**
A sample Project that uses eGate to communicate to PeopleSoft using HTTP.
- **PS_HTTP_BPEL**
A sample Project that uses eInsight/eGate to communicate to PeopleSoft using HTTP.
- **PS_JMS_JCE**
A sample Project that uses eGate to communicate to PeopleSoft via JMS.
- **PS_JMS_BPEL**
A sample Project that uses eInsight/eGate to communicate to PeopleSoft via JMS.

Sample Project Files

The PeopleSoft eWay sample Projects are provided in the zip file **PeopleSoft_eWay_Sample.zip**, which contains the following files:

- **PS_HTTP_JCE.zip** (the eGate HTTP Project)
- **PS_HTTP_BPEL.zip** (the eInsight HTTP Project)
- **PS_JMS_JCE.zip** (the eGate JMS Project)
- **PS_JMS_BPEL.zip** (the eInsight JMS Project)
- **DTD_and_Data_Files.zip** (DTDs and input data files)
- **PSFTBindJMSFactory.java** (the JNDI bindings generation application)

7.2 Locating the Sample Projects

The eWay sample Projects are included in the **PeopleSoftWayDocs.sar**. This file is uploaded separately from the PeopleSoft eWay sar file during installation. For information, refer to [“Installing the PeopleSoft eWay and Sample Projects” on page 13](#).

Once you have uploaded the **PeopleSoftWayDocs.sar** to the Repository and you have downloaded the sample Projects (**PeopleSoft_eWay_Sample.zip**) using the **DOCUMENTATION** tab in the Enterprise Manager, the sample resides in the folder specified during the download.

7.3 Importing the Sample Projects

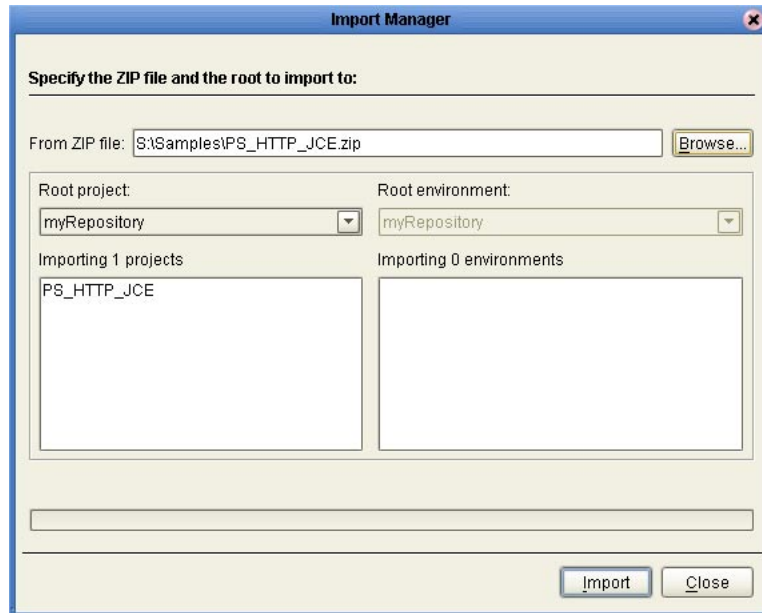
You can import the PeopleSoft sample Projects as described below. To find out where the Projects reside, refer to [“Locating the Sample Projects” on page 70](#).

To import the sample Projects

- 1 Unzip the **PeopleSoft_eWay_Sample.zip** file. This extracts the following files:
 - ♦ **PS_HTTP_JCE.zip** for the PS_HTTP_JCE Project
 - ♦ **PS_HTTP_BPEL.zip** for the PS_HTTP_BPEL Project
 - ♦ **PS_JMS_JCE.zip** for the PS_JMS_JCE Project
 - ♦ **PS_JMS_BPEL.zip** for the PS_JMS_BPEL Project
 - ♦ **DTD_and_Data_Files.zip** (DTDs and input data files)
 - ♦ **PSFTBindJMSFactory.java** (the JNDI bindings generation application)
- 2 In the **Project Explorer** tab of the Enterprise Designer, right-click the Repository and click **Import**. A message confirms if you want to save your changes.
- 3 Click **Yes** to save your changes. The **Import Manager** dialog box appears.

- 4 Click **Browse** and navigate to the folder where you unzipped the sample zip file.
- 5 Click the zip file for the Project to be imported. The **Import Manager** dialog box appears similar to the following:

Figure 53 Import Manager Dialog Box



- 6 Click **Import**. A dialog box confirms that the Project import was successful.
- 7 Click **OK** and click **Close**.

You can now explore the Connectivity Maps, the OTDs, and the business logic for the Collaborations or Business Processes.

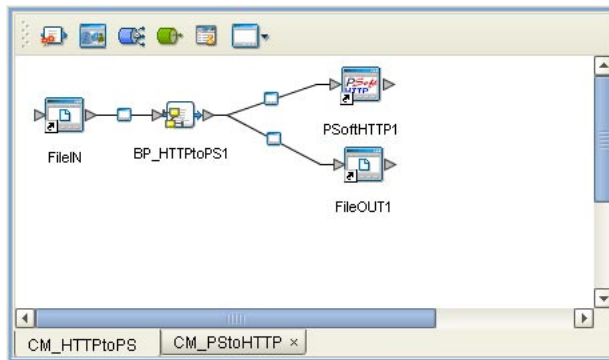
7.4 Working With the eInsight HTTP Sample Project

The name of the eInsight HTTP sample Project is **PS_HTTP_BPEL**. The sample Project is compatible with PeopleTools 8.42.

After you have imported the Project as described in [“Importing the Sample Projects” on page 70](#), you can use this section to find out more about how the sample is constructed. The sample does not include the Environment and Deployment Profile. To be able to run the sample, you must create those components yourself as described in this section.

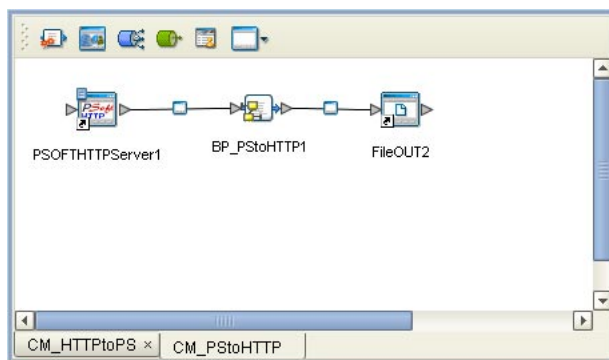
The eInsight HTTP sample Project contains an outbound and an inbound data flow. The outbound data flow is from eGate to PeopleSoft; the inbound flow is from PeopleSoft to eGate. The figure below shows the outbound data flow in the Connectivity Map.

Figure 54 eInsight HTTP Sample Project—Outbound Data Flow



In this data flow, the File eWay receives data from the **PSHTTP_BPEL.in** file in the **c:\data\input\PSoft** folder. The Business Process **BP_HTTP_PS** gets the input data, and posts it to the external PeopleSoft server via HTTP. The response from the PeopleSoft server is written to a file via the File eWay.

Figure 55 eInsight HTTP Sample Project—Inbound Data Flow



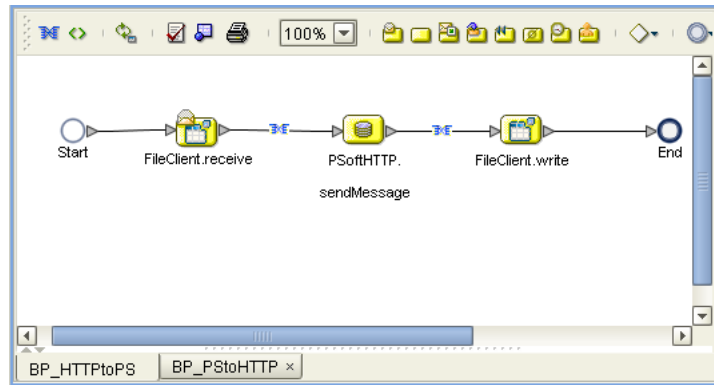
In the inbound data flow, the Business Process **BP_PStoHTTP1** receives a message from the PeopleSoft server via HTTP and write the contents of the message out to a file via the File eWay.

The sections below describe the inbound and outbound Business Processes in detail.

7.4.1 Outbound Business Process: eInsight to PeopleSoft via HTTP

The figure below shows the outbound Business Process of the eInsight HTTP sample Project.

Figure 56 eInsight HTTP Project—Outbound Business Process



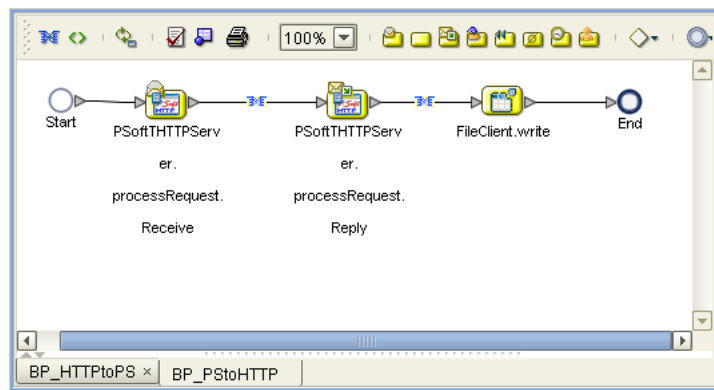
The steps below show the business logic of the outbound Business Process **BP_HTTP_PS**.

- 1 The **FileClient.receive** operation receives data from the **PSHTTP_BPEL.in** file in the **c:\data\input\PSoft** folder.
- 2 The **PSoftHTTP.sendMessage** operation sends the messages PeopleSoft.
- 3 The **FileClient.write** operation write the PeopleSoft response to an output file.

7.4.2 Inbound Business Process: PeopleSoft to eInsight via HTTP

The figure below shows the inbound Business Process of the eInsight HTTP sample Project.

Figure 57 eInsight HTTP Project—Inbound Business Process



The steps below show the business logic of the inbound Business Process **BP_PStoHTTP1**.

- 1 The **PSoftHTTPServer.ProcessRequestReceive** operation receives a message from the PeopleSoft server.
- 2 The **PSoftHTTPServer.ProcessRequestReply** operation sends a reply back to the PeopleSoft server.
- 3 The **FileClient.write** operation writes the message to a file.

7.4.3 Creating the eInsight HTTP Sample Environment

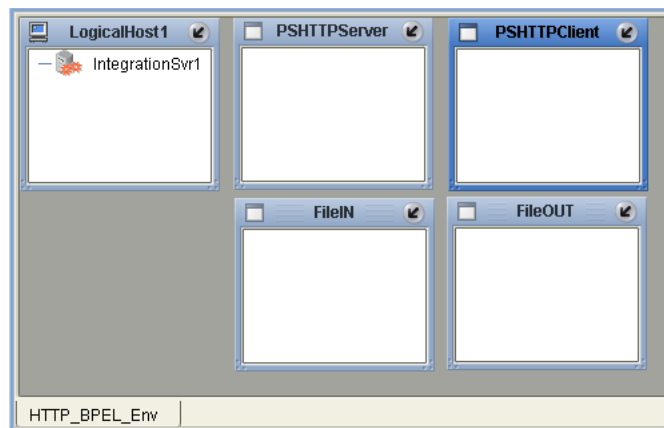
The procedure below describes how you create the sample Environment for the eInsight HTTP Project. For detailed information about creating Environments, refer to the *eGate Integrator User's Guide*.

To create the eInsight HTTP sample Environment

- 1 In the Environment Explorer tab of the Enterprise Designer, right-click the Repository and click **New Environment**.
- 2 Right-click the Environment, click **New File External System**, enter the inbound File eWay name and click Inbound File eWay.
- 3 Repeat step 2 but create an outbound File eWay.
- 4 Right-click the Environment, and click **New PeopleSoft HTTP Client External System** to add a PeopleSoft client eWay.
- 5 Right-click the Environment, and click **New PeopleSoft HTTP Server External System** to add a PeopleSoft server eWay.
- 6 Right-click the Environment and click **New Logical Host**.
- 7 Right-click the Logical Host and click **New SeeBeyond Integration Server**.

The figure below shows the completed Environment.

Figure 58 eInsight HTTP Sample—Environment



- 8 Right-click the Integration Server and click **Properties**.
- 9 Click **IS Configurations > Sections > Web Container Configuration > Web Server Configurations > Default Web Server**.
- 10 Verify that the port number for the in the **Connector Port** property matches the port number in the **PRIMARYURL** property on the PeopleSoft server. For information, refer to [page 48](#).
- 11 Right-click **PSHTTPClient**, click **Properties**, expand **Environment Configuration** and then **HTTP Settings**.
- 12 Enter the location of the HTTP Listening Connector in the **URL** box. For more information, refer to [“Verifying the HTTP Listening Connector” on page 52](#).

- 13 Expand **PeopleSoft Settings**, click **PeopleSoft 8.42**, and specify the following properties:
 - ♦ Destination node
 - ♦ Message name
 - ♦ Message version
 - ♦ Requesting node

These properties must match the configuration on your PeopleSoft server. For information about configuring the 8.42 PeopleSoft server for ICAN Projects, refer to **“Configuring PeopleTools 8.42” on page 44**.

7.4.4 Creating the eInsight HTTP Sample Deployment Profile

Once you have created the Environment and added its components, you can create the Deployment Profile for the sample as described below.

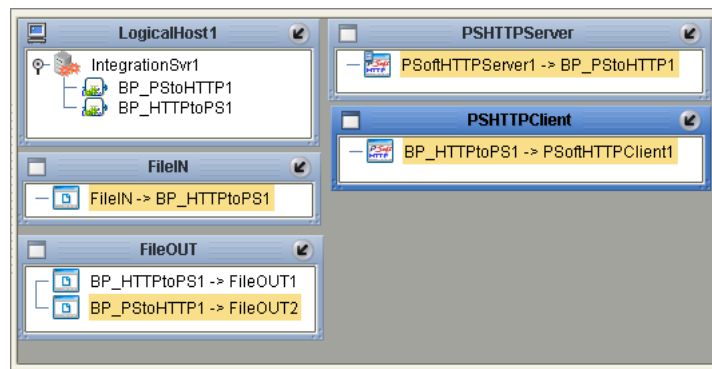
To create the eInsight HTTP sample Deployment Profile

- 1 In the Project Explorer tab of the Enterprise Designer, right-click the Project and click **New Deployment Profile**.
- 2 Enter the name for the inbound Deployment Profile, click the Environment you created for the sample, and click **OK**.

Make sure this name matches the name used in the **Servlet-url** property in the logical eWay properties as described in **“Specifying the Servlet URL” on page 20**.

- 3 Drag the Project components to the Environment component as shown in the figure below.

Figure 59 eInsight HTTP Sample—Deployment Profile



For instruction on how to deploy the sample Projects see the *eGate Integrator User's Guide*. Before you deploy the Projects, make sure you configure the PeopleSoft system as described in **“Configuring PeopleTools 8.42” on page 44**.

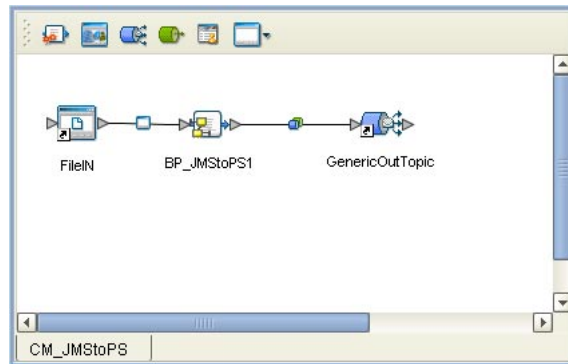
7.5 Working With the eInsight JMS Sample Project

The name of the eInsight JMS sample Project is **PS_HTTP_JMS**. This sample Project is compatible with PeopleTools 8.42.

After you have imported the Project as described in [“Importing the Sample Projects” on page 70](#), you can use this section to find out more about how the sample is constructed. The sample does not include the Environment and Deployment Profile. To be able to run the sample, you must create those components yourself as described in this section.

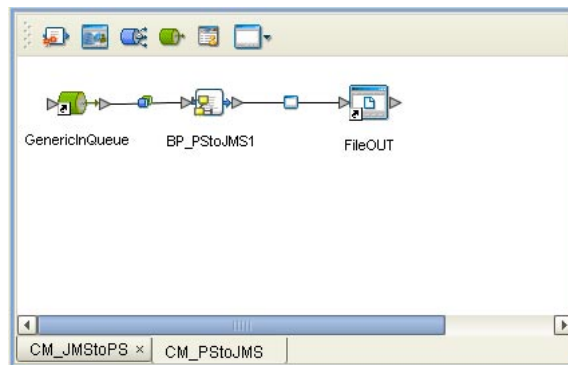
The eInsight JMS sample Project contains an outbound and an inbound data flow. The outbound data flow is from eGate to the PeopleSoft server; the inbound flow is from the PeopleSoft server to eGate. The figure below shows the outbound data flow in the Connectivity Map.

Figure 60 eInsight JMS Sample Project—Outbound Data Flow



In this data flow, the File eWay receives data from the **PSJMS_BPEL.in** file in the **c:\data\input\PSoft** folder. The Business Process **BP_JMStoPS1** gets the input data, unmarshals it, and posts it to the PeopleSoft server via the outgoing queue **GenericOutTopic**.

Figure 61 eInsight JMS Sample Project—Inbound Data Flow



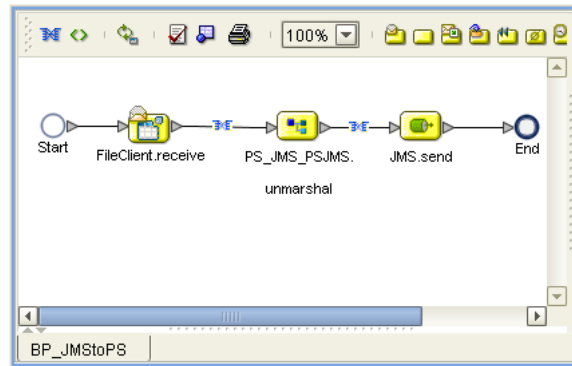
In the inbound data flow, the Business Process **BP_PStoJMS1** receives a message from the PeopleSoft server via the incoming queue **GenericInQueue** and writes it to a file via the outbound File eWay.

The sections below describe the inbound and outbound Business Processes in detail.

7.5.1 Outbound Business Process: eInsight to PeopleSoft via JMS

The figure below shows the outbound Business Process of the eInsight JMS sample Project.

Figure 62 eInsight JMS Project—Outbound Business Process



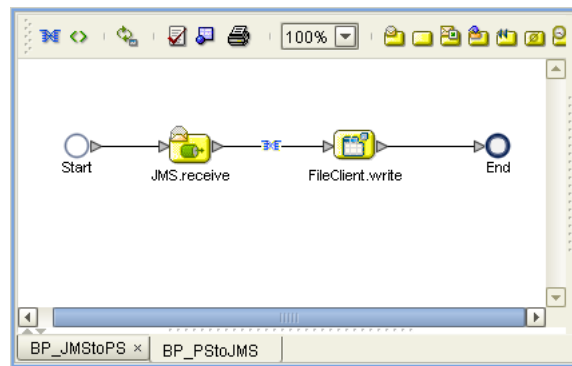
The steps below show the business logic of the outbound Business Process **BP_JMStoPS**.

- 1 The **FileClient.receive** operation receives input data from the **PSJMS_BPEL.in** file in the **c:\data\input\PSoft** folder.
- 2 The **PS_JMS_PSJMS.unmarshal** operation unmarshals the data and maps the PeopleSoft fields using the DTD OTD.
- 3 The **JMS.sendMessage** operation posts the data to the PeopleSoft server via the outgoing queue **GenericOutTopic**.

7.5.2 Inbound Business Process: PeopleSoft to eInsight via JMS

The figure below shows the inbound Business Process of the eInsight JMS sample Project.

Figure 63 eInsight JMS Project—Inbound Business Process



The steps below show the business logic of the inbound Business Process **BP_PStoJMS**.

- 1 The **JMS.Receive** operation receives a message from the PeopleSoft server via the incoming queue **GenericInQueue**.
- 2 The **FileClient.write** operation writes the message to a file.

7.5.3 Creating the eInsight JMS Sample Environment

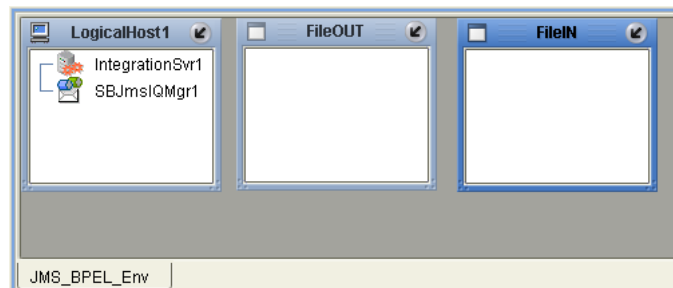
The procedure below describes how you create an eGate Environment for the eGate JMS sample Project. For detailed information about creating Environments, refer to the *eGate Integrator User's Guide*.

To create the eInsight JMS sample Environment

- 1 In the Environment Explorer tab of the Enterprise Designer, right-click the Repository and click **New Environment**.
- 2 Right-click the Environment, click **New File External System**, enter the inbound File eWay name and click Inbound File eWay.
- 3 Repeat step 2 but create an outbound File eWay.
- 4 Right-click the Environment and click **New Logical Host**.
- 5 Right-click the Logical Host and click **New SeeBeyond Integration Server**.

The figure below shows the completed Environment.

Figure 64 eInsight JMS Sample—Environment



- 6 Right-click the Integration Server and click **Properties**.
- 7 Right-click the JMS IQ Manager and click **Properties**.
- 8 Verify that the port number for the **Server port** property matches the port number used by the JNDI bindings generation application. For information, refer to [“Creating the JNDI Bindings File for JMS Posting” on page 57](#).
- 9 Expand **PeopleSoft Settings**, click **PeopleSoft 8.42**, and specify the following properties:
 - ♦ Destination node
 - ♦ Message name
 - ♦ Message version
 - ♦ Requesting node

These properties must match the configuration on your PeopleSoft server. For information about configuring the 8.42 PeopleSoft server for ICAN Projects, refer to [“Configuring PeopleTools 8.42” on page 44](#).

7.5.4 Creating the eInsight JMS Sample Deployment Profile

Once you have created the Environment and added its components, you can create the Deployment Profile for the sample as described below.

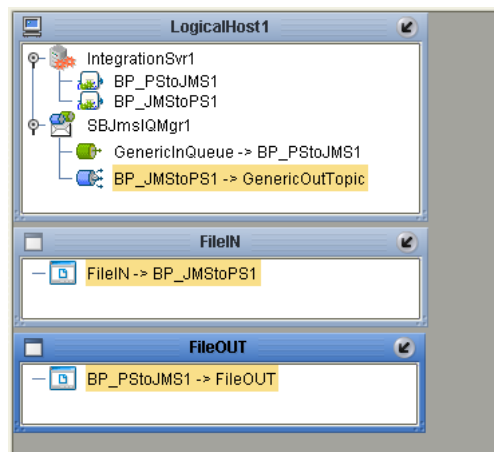
To create the eInsight JMS sample Deployment Profile

- 1 In the Project Explorer tab of the Enterprise Designer, right-click the Project and click **New Deployment Profile**.
- 2 Enter the name for the inbound Deployment Profile, click the Environment you created for the sample, and click **OK**.

Make sure this name matches the name used in the **Servlet-url** property in the logical eWay properties as described in [“Specifying the Servlet URL” on page 20](#).

- 3 Drag the Project components to the Environment component as shown in the figure below.

Figure 65 eInsight JMS Sample—Deployment Profile



For instruction on how to deploy the sample Projects see the *eGate Integrator User’s Guide*. Before you deploy the Projects, make sure you configure the PeopleSoft system as described in [“Configuring PeopleTools 8.42” on page 44](#).

Because JMS is used in this Project, you must configure eGate and the PeopleSoft for JMS queues with the same exact name as used in the Connectivity Map. This sample uses the name *GenericInQueue* and *GenericOutQueue*. You must configure PeopleSoft to use these names for the target and source nodes as described in [“Creating Target Nodes to Post to eGate via JMS” on page 50](#) and [“Configuring Inbound JMS Connections” on page 53](#).

You must also have edited, recompiled, and run the JNDI generation application. The generated **.bindings** file must be copied to the recognizable JNDI binding directory for

PeopleSoft. For information, refer to [“Creating the JNDI Bindings File for JMS Posting” on page 57.](#)

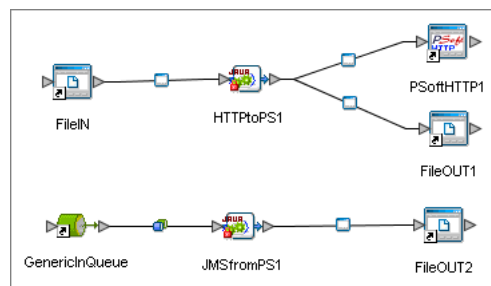
7.6 Working With the eGate HTTP Sample Project

The name of the eGate HTTP sample Project is **PS_HTTP_JCE**. This sample Project is compatible with PeopleTools 8.42.

After you have imported the Project as described in [“Importing the Sample Projects” on page 70](#), you can use this section to find out more about how the sample is constructed. The sample does not include the Environment and Deployment Profile. To be able to run the sample, you must create those components yourself as described in this section.

The figure below shows the Connectivity Map for the eGate HTTP sample Project.

Figure 66 eGate HTTP Sample Project—Connectivity Map



As the Connectivity Map above shows, the sample Project consists of an outbound HTTP Collaboration and an inbound JMS Collaboration.

For the inbound data flow, the inbound File eWay receives data from the **PSHTTP_JCE.in** file in the **c:\data\input\PSoft** folder. The Collaboration **HTTPtoPS** gets the input data, and posts it to the external PeopleSoft server using the PeopleSoft client eWay. It writes the PeopleSoft response to a file if the posting is unsuccessful.

The sections below describe the inbound and outbound Collaborations in detail.

7.6.1 Outbound Collaboration: eGate to PeopleSoft via HTTP

The steps below show the business logic of the outbound Collaboration **HTTPtoPS**.

- 1 The Collaboration defines a local variable *outstring* and initialize it to null.
- 2 The Collaboration copies the text under the input node to the *XMLmessage* node under the *PSoftHttpAppMsgRequestV842* node.
- 3 The Collaboration calls the *sendMessage* method to post the message to PeopleSoft.
- 4 The Collaboration retrieves the PeopleSoft response for the message sent from the *IBResponseXML* node under the *PSoftHttpAppMsResponseV842* node and copies it to *outstring*.

- 5 If the response is null, the Collaboration displays a message that the outbound process is successful. If the response is not null, it prints the contents of the *IBResponseXML*.

7.6.2 Inbound Collaboration: PeopleSoft to eGate via JMS

The steps below show the business logic of the inbound Collaboration **JMSfromPS**.

- 1 The Collaboration receives a message from the PeopleSoft server via the JMS incoming queue **GenericInQueue**.
- 2 The Collaboration calls the *sendMessage* method to write the message to a file via the outbound File eWay.

7.6.3 Creating the eGate HTTP Sample Environment

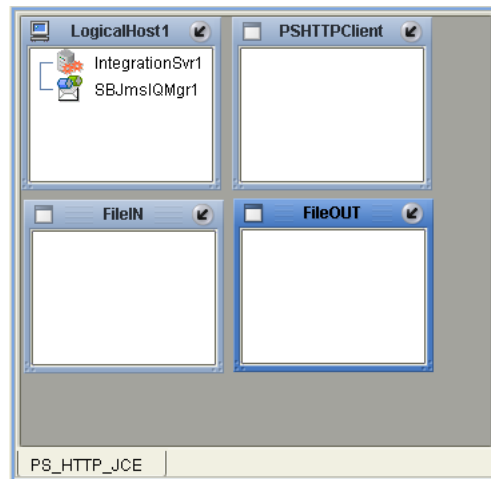
The procedure below describes how you create an eGate Environment for the eGate HTTP sample Project. For detailed information about creating Environments, refer to the *eGate Integrator User's Guide*.

To create eGate HTTP sample Environment

- 1 In the Environment Explorer tab of the Enterprise Designer, right-click the Repository and click **New Environment**.
- 2 Right-click the Environment, click **New File External System**, enter the inbound File eWay name and click Inbound File eWay.
- 3 Repeat step 2 but create an outbound File eWay.
- 4 Right-click the Environment, and click **New PeopleSoft HTTP Client External System** to add a PeopleSoft client eWay.
- 5 Right-click the Environment and click **New Logical Host**.
- 6 Right-click the Logical Host and click **New SeeBeyond Integration Server**.

The figure below shows the completed Environment.

Figure 67 eGate HTTP Sample—Environment



- 7 Right-click the Integration Server and click **Properties**.
- 8 Click **IS Configurations > Sections > Web Container Configuration > Web Server Configurations > Default Web Server**.
- 9 Verify that the port number for the in the **Connector Port** property matches the port number in the **PRIMARYURL** property on the PeopleSoft server. For information, refer to [page 48](#).
- 10 Right-click the JMS IQ Manager and click **Properties**.
- 11 Verify that the port number for the **Server port** property matches the port number used by the JNDI bindings generation application. For information, refer to [“Creating the JNDI Bindings File for JMS Posting” on page 57](#).
- 12 Right-click **PSHTTPClient**, click **Properties**, click **Environment Configuration** and then **HTTP Settings**.
- 13 Enter the location of the HTTP Listening Connector in the **URL** box. For more information, refer to [“Verifying the HTTP Listening Connector” on page 52](#).
- 14 Expand **PeopleSoft Settings**, click **PeopleSoft 8.42**, and specify the following properties:
 - ♦ Destination node
 - ♦ Message name
 - ♦ Message version
 - ♦ Requesting node

These properties must match the configuration on your PeopleSoft server. For information about configuring the 8.42 PeopleSoft server for ICAN Projects, refer to [“Configuring PeopleTools 8.42” on page 44](#).

7.6.4 Creating the eGate HTTP Sample Deployment Profile

Once you have created the Environment and added its components, you can create the Deployment Profile for the sample as described below.

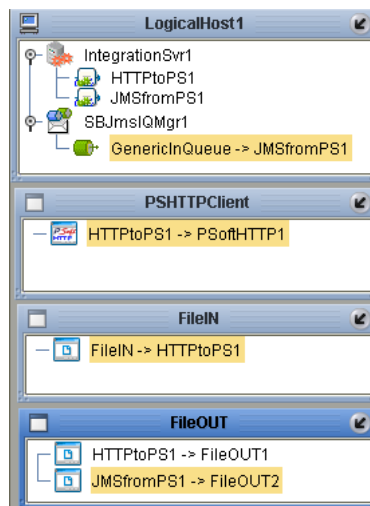
To create the eGate HTTP sample Deployment Profile

- 1 In the Project Explorer tab of the Enterprise Designer, right-click the Project and click **New Deployment Profile**.
- 2 Enter the name for the inbound Deployment Profile, click the Environment you created for the sample, and click **OK**.

Make sure this name matches the name used in the **Servlet-url** property in the logical eWay properties as described in **“Specifying the Servlet URL” on page 20**.

- 3 Drag the Project components to the Environment component as shown in the figure below.

Figure 68 eGate HTTP Sample—Deployment Profile



For instruction on how to deploy the sample Projects see the *eGate Integrator User's Guide*. Before you deploy the Projects, make sure you configure the PeopleSoft system as described in **“Configuring PeopleTools 8.42” on page 44**.

Because this sample uses JMS, you must configure eGate and the PeopleSoft to match its incoming JMS queue name. This sample uses the name *GenericInQueue*. You must configure PeopleSoft to use this name for the target node as described in **“Creating Target Nodes to Post to eGate via JMS” on page 50**.

You must also have edited, recompiled, and run the JNDI generation application. The generated **.bindings** file must be copied to the recognizable JNDI binding directory for PeopleSoft. For information, refer to **“Creating the JNDI Bindings File for JMS Posting” on page 57**.

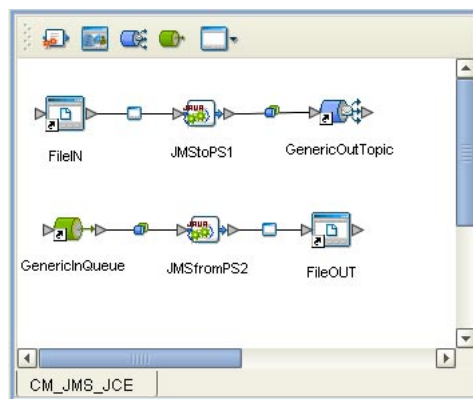
7.7 Working With the eGate JMS Sample Project

The name of the eGate JMS sample Project is **PS_JMS_JCE**. This sample Project is compatible with PeopleTools 8.42.

After you have imported the Project as described in [“Importing the Sample Projects” on page 70](#), you can use this section to find out more about how the sample is constructed. The sample does not include the Environment and Deployment Profile for the sample. To be able to run the sample, you must create those components yourself as described in this section.

The figure below shows the Connectivity Map for the eGate JMS sample Project.

Figure 69 eGate JMS Sample Project—Connectivity Map



As the Connectivity Map above shows, the sample Project consists of an outbound and an inbound JMS Collaboration.

For the inbound data flow, the inbound File eWay receives data from the file **PSJMS_JCE.in** in the **c:\data\input\PSoft** folder. The outbound Collaboration gets the input data, parses it, and posts it to the JMS outgoing queue. The inbound Collaboration receives a message from the PeopleSoft server via the JMS incoming queue and writes the message to a file via the outbound File eWay.

The sections below describe the inbound and outbound JMS Collaborations in detail.

7.7.1 Outbound Collaboration: eGate to PeopleSoft via JMS

The steps below show the business logic of the outbound Collaboration **JMStoPS1**.

- 1 The Collaboration unmarshals the input.
- 2 The Collaboration maps the data to PeopleSoft fields using the DTD OTD provided with the sample Project.
- 3 The Collaboration uses the *sendMessage* method to send the message to the JMS outgoing queue **GenericOutQueue**.

7.7.2 Inbound Collaboration: PeopleSoft to eGate via JMS

The steps below show the business logic of the inbound Collaboration **JMSfromPS2**.

- 1 The Collaboration retrieves a message from the JMS incoming queue **GenericInQueue**.
- 2 The Collaboration uses the *sendMessage* method to write the message to a file using the outbound File eWay.

7.7.3 Creating the eGate JMS Sample Environment

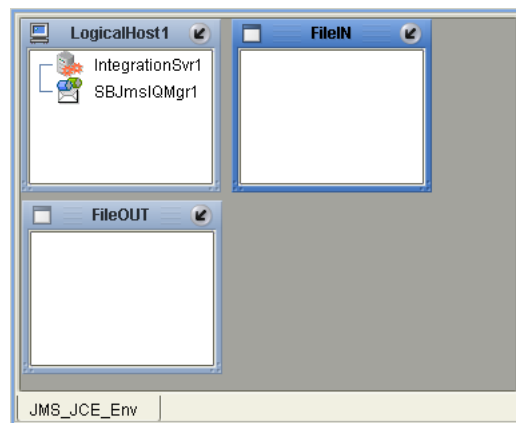
The procedure below describes how you create an eGate Environment for the eGate JMS sample Project. For detailed information about creating Environments, refer to the *eGate Integrator User's Guide*.

To create eGate JMS sample Environment

- 1 In the Environment Explorer tab of the Enterprise Designer, right-click the Repository and click **New Environment**.
- 2 Right-click the Environment, click **New File External System**, enter the inbound File eWay name, click **Inbound File eWay**, and click **OK**.
- 3 Repeat step 2 but create an outbound File eWay.
- 4 Right-click the Environment and click **New Logical Host**.
- 5 Right-click the Logical Host and click **New SeeBeyond Integration Server**.
- 6 Right-click the Logical Host and click **New SeeBeyond JMS IQ Manager**.

The figure below shows the completed Environment.

Figure 70 eGate JMS Sample—Environment



- 7 Right-click the JMS IQ Manager and click **Properties**.
- 8 Verify that the port number for the **Server port** property matches the port number used by the JNDI bindings generation application. For information, refer to [“Creating the JNDI Bindings File for JMS Posting” on page 57](#).

- 9 Expand **PeopleSoft Settings**, click **PeopleSoft 8.42**, and specify the following properties:
 - ♦ Destination node
 - ♦ Message name
 - ♦ Message version
 - ♦ Requesting node

These properties must match the configuration on your PeopleSoft server. For information about configuring the 8.42 PeopleSoft server for ICAN Projects, refer to [“Configuring PeopleTools 8.42” on page 44](#).

7.7.4 Creating the eGate JMS Sample Deployment Profile

Once you have created the Environment and added its components, you can create the Deployment Profile for the sample as described below.

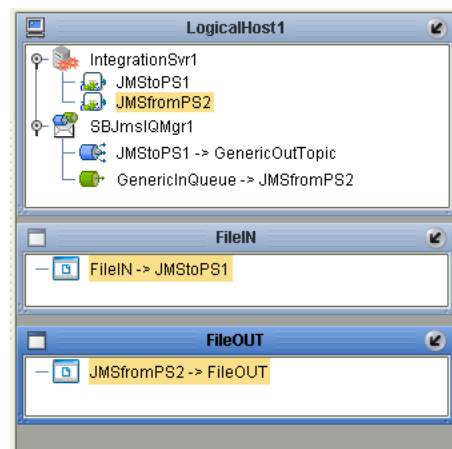
To create eGate JMS sample Deployment Profile

- 1 In the Project Explorer tab of the Enterprise Designer, right-click the Project and click **New Deployment Profile**.
- 2 Enter the name for the inbound Deployment Profile, click the Environment you created for the sample, and click **OK**.

Make sure this name matches the name used in the **Servlet-url** property in the logical eWay properties as described in [“Specifying the Servlet URL” on page 20](#).

- 3 Drag the Project components to the Environment component as shown in the figure below.

Figure 71 eGate HTTP Sample—Deployment Profile



For instruction on how to deploy the sample Projects see the *eGate Integrator User's Guide*. Before you deploy the Projects, make sure you configure the PeopleSoft system as described in [“Configuring PeopleTools 8.42” on page 44](#).

When JMS is used for PeopleSoft communications, you must configure eGate and the PeopleSoft for JMS queues/topics with the same exact name. This sample uses the name *GenericInQueue* and *GenericOutQueue*. You must configure PeopleSoft to use these names for the target and source nodes as described in [“Creating Target Nodes to Post to eGate via JMS” on page 50](#) and [“Configuring Inbound JMS Connections” on page 53](#).

You must also have edited, recompiled, and run the JNDI generation application. The generated **.bindings** file must be copied to the recognizable JNDI binding directory for PeopleSoft. For information, refer to [“Creating the JNDI Bindings File for JMS Posting” on page 57](#).

Managing Deployed eWays

This chapter describes how to manage deployed PeopleSoft eWays. Once you have implemented a PeopleSoft eWay into an ICAN Project and Environment, and have deployed the Project by activating the Deployment Profile, you can monitor the eWay using the Enterprise Manager. This chapter includes information about monitoring eWays as well as reconfiguring deployed eWays.

In This Chapter

- [Reconfiguring Deployed eWays](#) on page 88
- [Monitoring PeopleSoft Collaborations](#) on page 89
- [Log Files and Alerts](#) on page 89

8.1 Reconfiguring Deployed eWays

This section describes how you reconfigure the logical and physical properties of eWays in Projects that have already been deployed. The logical properties are configured in the Connectivity Map

8.1.1 Reconfiguring Logical eWay Properties

To reconfigure a currently deployed eWay, you change the configuration and then reactivate the Deployment Profile. If you also made changes to the logical properties of the eWay in the Connectivity Map, apply the changes to the Logical Host as described in the next section.

The procedure below describes how you reconfigure the logical eWay properties.

To configure logical eWay properties

- 1 Configure the logical properties in the Connectivity Map as described in [“Configuring Logical eWay Properties” on page 18](#).
- 2 In the **Project Explorer** tab, double-click the Deployment Profile for the Project.
- 3 Click **Reactivate**.

8.1.2 Reconfiguring Physical eWay Properties

To reconfigure a currently deployed eWay, you change the configuration and then apply the changes to the Logical Host as described below. If you also made changes to the logical properties of the eWay in the Connectivity Map, you must also reactivate the Deployment Profile as described in the *eGate Integrator User's Guide*.

The procedure below describes how you reconfigure the physical eWay properties.

To reconfigure physical eWay properties

- 1 Configure the physical properties in the Environment as described in **“Configuring Physical eWay Properties” on page 21**.
- 2 In the **Environment Explorer** tab, right-click the Logical Host that contains this eWay.
- 3 Click **Apply**.

8.2 Monitoring PeopleSoft Collaborations

You monitor eGate PeopleSoft Collaborations with the Enterprise Manager. For more information using the Enterprise Manager, refer to the *eGate Integrator System Administration Guide* and the *eGate Integrator User's Guide*.

8.3 Log Files and Alerts

PeopleSoft alerts are logged in the Logical Host log file. For information about this log file, and how to change the logging level in Enterprise Manager, refer to the *eGate Integrator System Administrator Guide*.

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