

SeeBeyond ICAN Suite

PeopleSoft eWay Intelligent Adapter User's Guide

Release 5.0.1



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Introduction

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

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

What's in This Chapter

- [About PeopleSoft](#) on page 8
- [About the PeopleSoft eWay](#) on page 8
- [About This Document](#) on page 9
- [SeeBeyond Web Site](#) on page 10

1.1 About PeopleSoft

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

1.2 About the PeopleSoft eWay

SeeBeyonds ICAN Suite and the PeopleSoft eWay enable PeopleSoft to easily and transparently integrate with legacy systems, enterprise applications, and other platforms. The PeopleSoft eWay Intelligent Adapter exposes JCA and Web services compliant interfaces for the purpose of application and business integration.

1.3 What's New in This Release

The PeopleSoft eWay version 5.0.1 now includes added support for inbound messaging with Java Collaborations.

1.4 About This Document

This section provides a brief outline of this user's guide.

1.4.1 Organization of Information

This guide contains the following information:

- **Chapter 1, "Introduction" on page 8** provides an overview of the PeopleSoft eWay and the PeopleSoft eWay User's Guide.
- **Chapter 2, "Installing the PeopleSoft eWay" on page 12** provides the supported operating systems and system requirements for the PeopleSoft eWay. It also describes how to install the PeopleSoft eWay, its documentation, and its sample projects.
- **Chapter 3, "Configuring the eWay Properties" on page 17** describes the process for configuring the PeopleSoft eWay to run in your environment.
- **Chapter 4, "Building PeopleSoft Project Business Logic" on page 41** describes how to build the business logic for ICAN projects with the PeopleSoft eWay.
- **Chapter 5, "Configuring the PeopleSoft Server for ICAN Projects" on page 57** describes how to configure the PeopleSoft server to work with the PeopleSoft eWay.
- **Chapter 6, "Working with PeopleSoft Sample Projects" on page 82** describes how to import and use the sample projects provided with the PeopleSoft eWay.
- **Chapter 7, "Managing Deployed eWays" on page 106** describes how to monitor and reconfigure deployed eWays.

1.4.2. Scope of the Document

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

1.4.3 Intended Audience

This guide is intended for experienced computer users who have the responsibility of helping to set up and maintain a fully functioning ICAN Suite system. This person must also understand any operating systems on which the ICAN Suite will be installed

(Windows, UNIX, and/or HP NonStop Server), and must be thoroughly familiar with Windows-style GUI operations.

1.4.4 Document Conventions

The following conventions are observed throughout this document.

Table 1 Document Conventions

Text	Convention	Example
Names of buttons, files, icons, parameters, variables, methods, menus, and objects	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, code samples	Fixed font. Variables are shown in <i>bold italic</i> .	<code>bootstrap -p <i>password</i></code>
Hypertext links	Blue text	See " Document Conventions " on page 10
Hypertext links for Web addresses (URLs) or email addresses	Blue underlined text	http://www.seebeyond.com docfeedback@seebeyond.com

1.5 Supporting Documents

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

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

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

1.6 SeeBeyond Web Site

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

<http://www.seebeyond.com>

1.7 SeeBeyond Documentation Feedback

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

docfeedback@seebeyond.com

Installing the PeopleSoft eWay

This Chapter describes how to install the PeopleSoft eWay Intelligent Adapter, as well as the accompanying documentation and sample projects. It also includes the PeopleSoft eWay's supported operating systems and system requirements.

What's in This Chapter

- [Supported Operating Systems](#) on page 12
- [System Requirements](#) on page 12
- [Installing the PeopleSoft eWay](#) on page 14
- [Installing the HTTP Publication Handler for PeopleTools 8.13](#) on page 15

2.1 Supported Operating Systems

The PeopleSoft eWay is available for the following operating systems:

- Windows 2000, Windows XP, and Windows Server 2003
- HP Tru64 5.1A
- HP-UX 11.0 and 11i (PA-RISC)
- IBM AIX 5.1L and 5.2
- Red Hat Enterprise Linux AS 2.1 (Intel x86)
- Red Hat Linux 8 (Intel x86)
- Sun Solaris 8 and 9

2.2 System Requirements

The system requirements for the PeopleSoft eWay are the same as those for eGate Integrator. For information, refer to the *SeeBeyond ICAN Suite Installation Guide*. It is also helpful to review the **ICAN Suite Readme.txt**, located on the installation CD-ROM, for any additional requirements prior to installation.

An eWay specific Readme file, the **PeopleSoft eWay Intelligent Adapter Readme**, provides the most up to date information for the **PeopleSoft eWay**. The Readme is

uploaded along with other eWay documentation and samples, and accessed from the Enterprise Manager. See [Installing the PeopleSoft eWay](#) on page 14, for more information on uploading and accessing the Readme.

Although PeopleSoft eWay, the Repository, and Logical Hosts run on the platforms listed under [Supported Operating Systems](#) on page 12, the Enterprise Designer requires the Windows operating system. The Enterprise Manager can run on any platform that supports Internet Explorer 6.0.

2.2.1. Supported PeopleSoft Versions

The PeopleSoft eWay supports the following PeopleSoft versions:

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

HTTP and JMS Support

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

Table 2 JMS and HTTP Support—PeopleTools 8.13

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

Table 3 JMS and HTTP Support—PeopleTools 8.42

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

2.3 Installing the PeopleSoft eWay

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

Installing the PeopleSoft eWay on an eGate Supported System

The PeopleSoft eWay can be installed during or after the installation of the ICAN Suite. The ICAN Suite installation process includes the following operations:

- Install the eGate Repository
- Upload products to the Repository
- Download components (including the eGate Enterprise Designer and Logical Host)

Follow the directions for installing the ICAN Suite in the *SeeBeyond ICAN Suite Installation Guide*. After you have installed eGate and other purchased core products, do the following:

- 1 From the Enterprise Manager's **ADMIN** tab, browse to the **Add-ons** directory and select the **ProductsManifest.xml**, and click **Submit**. The available Add-on product list is now displayed.
- 2 Browse to and select the following files located in the **Add-ons** directory:
 - ♦ **PeopleSofteWay.sar** (to install the PeopleSoft eWay)
 - ♦ **FileeWay.sar** (to install the File eWay, used with the sample project)
- 3 Click on the Manifest File field's **Browse** option, browse to the **Add-ons Documentation** directory, select the **ProductsManifest.xml**, and click **Submit**. The available Add-on documentation list is now displayed.
- 4 From the **Documentation** directory, select and upload the following file:
 - ♦ **PeopleSofteWayDoc.sar** (to upload the PeopleSoft eWay User's Guide, Javadoc, Readme, and sample projects to the Enterprise Manager)
- 5 Continue installing the eGate Integrator as instructed in the *SeeBeyond ICAN Suite Installation Guide*.

Adding the eWay to an Existing ICAN Suite Installation

If you are installing the eWay to an existing ICAN installation, do the following:

- 1 Complete steps 1 through 5 above.
- 2 Open the Enterprise Designer and select **Update Center** from the Tools menu. The Update Center Wizard appears.
- 3 For Step 1 of the wizard, simply click **Next**.
- 4 For Step 2 of the wizard, click the **Add All** button to move all installable files to the **Include in Install** field. Click **Next**.
- 5 For Step 3 of the wizard, wait for the modules to download, then click **Next**.

- 6 The wizard's Step 4 window displays the installed modules. Click **Finish**.
- 7 When prompted, click OK to restart IDE and complete the installation.

After Installation

Once the eWay is installed and configured it must then be incorporated into a project before it can perform its intended functions. See the *eGate Integrator User's Guide* for more information on incorporating the eWay into an eGate project.

The eWay's User Guide, Javadoc, Readme, and sample projects, can be accessed from the Enterprise Manager's Documentation tab.

2.4 Installing the HTTP Publication Handler for PeopleTools 8.13

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

After the installation, configure the subscription handler as described in [Adding the HTTP publication handler](#) on page 80.

Installing the HTTP Publication Handler On Windows

- 1 Stop the web server (Apache or WebLogic).
- 2 Stop the PeopleSoft 8 Application Server for the appropriate domain.
- 3 Extract the **com.stc.eways.psofthttphandler.jar** file from the **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.

Installing the HTTP Publication Handler on UNIX

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

/psoft/FDM80/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.psofthttpthandler.jar
```
- 7 Start (boot) the Application Server for the appropriate domain.
- 8 Start the Web server.

Configuring the eWay Properties

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

What's in This Chapter

- [Configuring the PeopleSoft eWay](#) on page 17
- [PeopleSoft HTTP Client eWay Connectivity Map Properties](#) on page 20
- [PeopleSoft HTTP Client eWay Environment Properties](#) on page 25
- [PeopleSoft HTTP Server eWay Connectivity Map Properties](#) on page 39

3.1 Configuring the PeopleSoft eWay

The PeopleSoft eWay includes two component eWays:

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

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

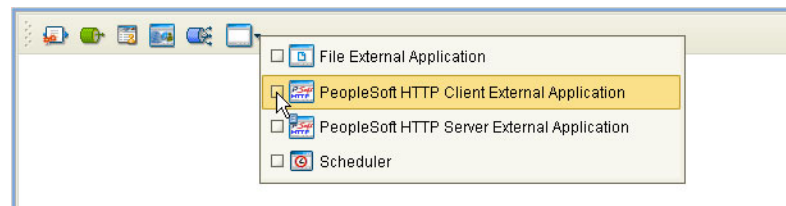
3.1.1 Selecting PeopleSoft HTTP Client or PeopleSoft HTTP Server as the External Application

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

To create the PeopleSoft HTTP Client External Application

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

Figure 1 External Applications Selection Menu

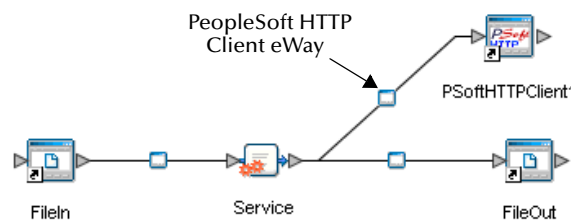


- 2 Select the **PeopleSoft HTTP Client External Application** from the menu (see Figure 1). The selected PeopleSoft HTTP Client External Application icon appears on the Connectivity Map toolbar. The PeopleSoft HTTP Server External Application is similarly created.

3.1.2. Accessing the eWay Properties

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

Figure 2 Connectivity Map with Components



Modifying the eWay Connectivity Map Properties

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

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

Modifying the eWay Environment Properties

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

- 1 From the Environment Explorer tree, right-click the Sun Java System AppServer External System. Select **Properties** from the shortcut menu. The **Properties Editor** opens with the Sun AppServer eWay Environment properties.
- 2 Make any necessary modifications to the Environment properties, and click **OK** to save the settings.

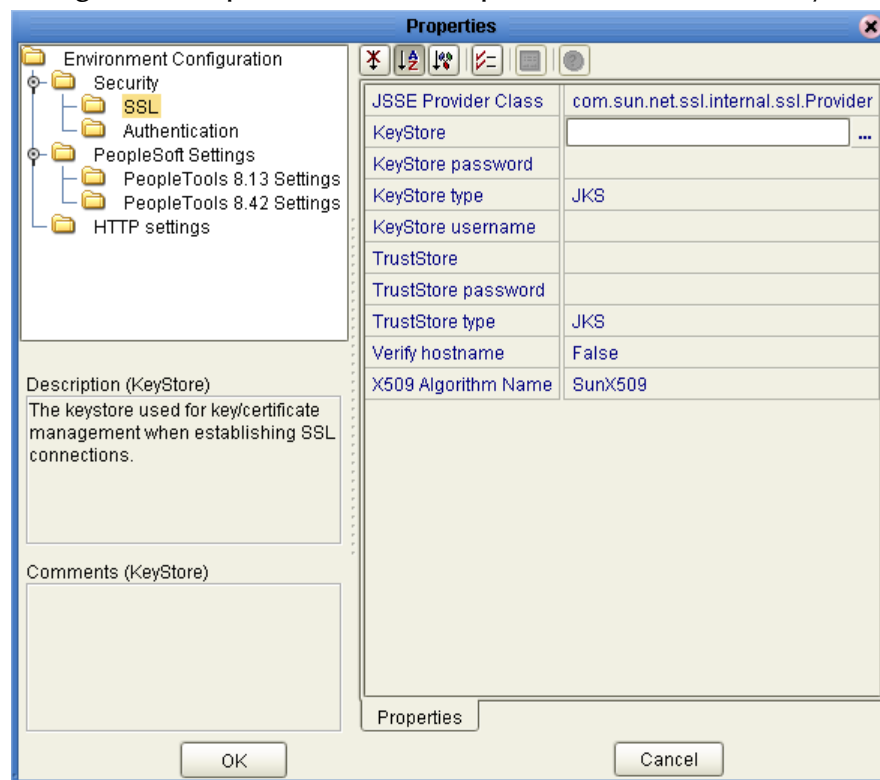
3.1.3. Using the Properties Editor

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

Modifying the Default eWay Properties

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

Figure 3 Properties Editor - PeopleSoft HTTP Client eWay



- 2 Click on any property field to make it editable. For example, click on the **KeyStore** property to edit KeyStore properties settings. If a property's value is true/false or multiple choice, the field reveals a submenu of property options.

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

- 3 A description of each parameter is displayed in the **Description** pane when that parameter is selected. This provides a short description of the property and the required values.

- 4 The **Comments** pane provides an log area to enter any information about the currently selected parameter that you may want to save. Your entries are saved automatically for future referral.
- 5 Click **OK** to close the Properties Editor and save the changes.

3.2 PeopleSoft HTTP Client eWay Connectivity Map Properties

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

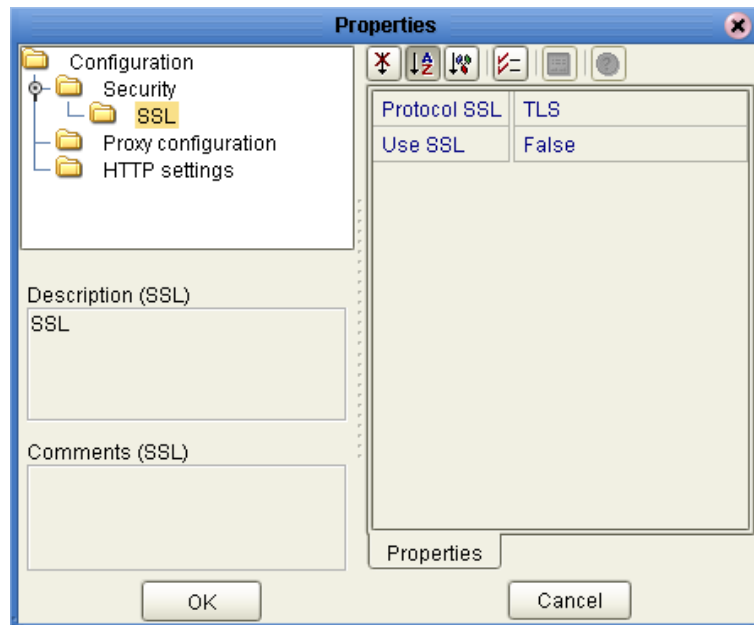
- **Security - SSL** on page 20
- **Proxy Configuration** on page 22
- **HTTP Settings** on page 24

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

3.2.1. Security - SSL

The **JNDI InitialContext Settings** section contains the top level properties displayed in Figure 4.

Figure 4 Properties Editor - Connectivity Map, JNDI InitialContext Settings



Protocol SSL

Description

Specifies the Secure Sockets Layer (SSL) or Transport Layer Security (TLS) protocol used when establishing an SSL connection with the server.

The options are:

- TLS
- TLSv1
- SSLv3
- SSLv2
- SSL

Required Value

Select the appropriate SSL or TLS protocol.

Use SSL

Description

Specifies whether HTTPS connections will be used.

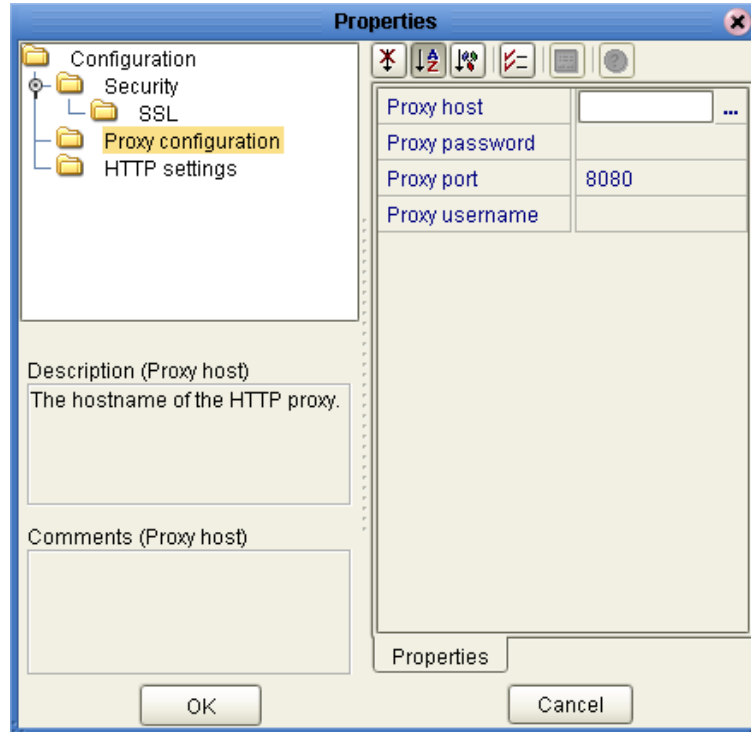
Required Value

True or **False**. **True** indicates that HTTPS connections will be used.

3.2.2. Proxy Configuration

The **Proxy Configuration** section contains the properties displayed in Figure 5.

Figure 5 Properties Editor - Connectivity Map, Proxy Configuration



Proxy host

Description

Specifies the hostname of the HTTP proxy server.

Required Value

The hostname (string) of the HTTP proxy server.

Proxy password

Description

Specifies the password required for accessing the HTTP proxy host.

Required Value

A password for the HTTP proxy server.

Proxy port

Description

Specifies the port of the HTTP proxy host.

Required Value

The port number of the HTTP proxy server. The configured default is **8080**.

Proxy username

Description

Specifies the username for accessing the HTTP proxy server.

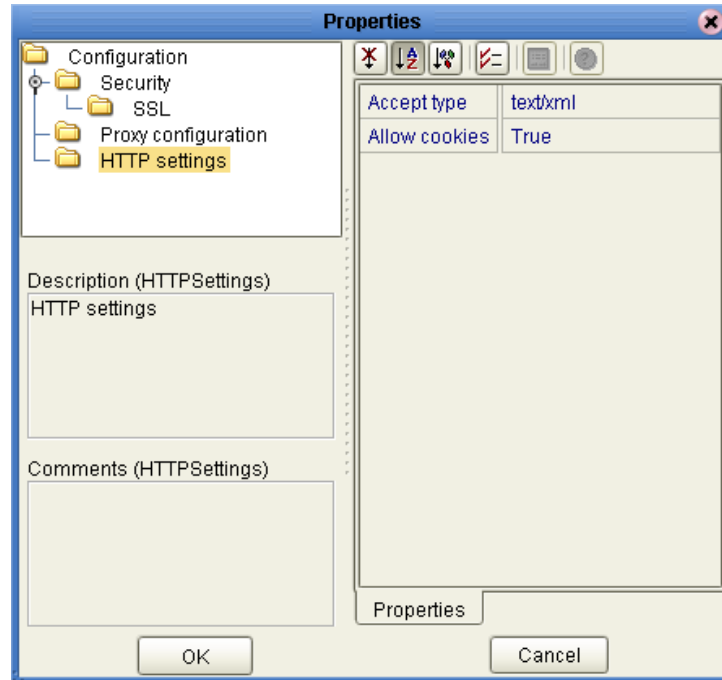
Required Value

A user name (login) for the HTTP proxy server.

3.2.3. HTTP Settings

The **HTTP Settings** section contains the top level properties displayed in Figure 6.

Figure 6 Properties Editor - Connectivity Map, JNDI InitialContext Settings



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.

Accept type

Description

Specifies the default Accept-Type header value included when a request is sent to the server; for example, text/html, text/plain, text/xml.

Required Value

An Accept-type header value. The configured default is **text/xml**.

Allow cookies

Description

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.

Required Value

True or **False**. **True** indicates that cookies sent from the server are allowed. **False** indicates that Cookies are not accepted.

3.3 PeopleSoft HTTP Client eWay Environment Properties

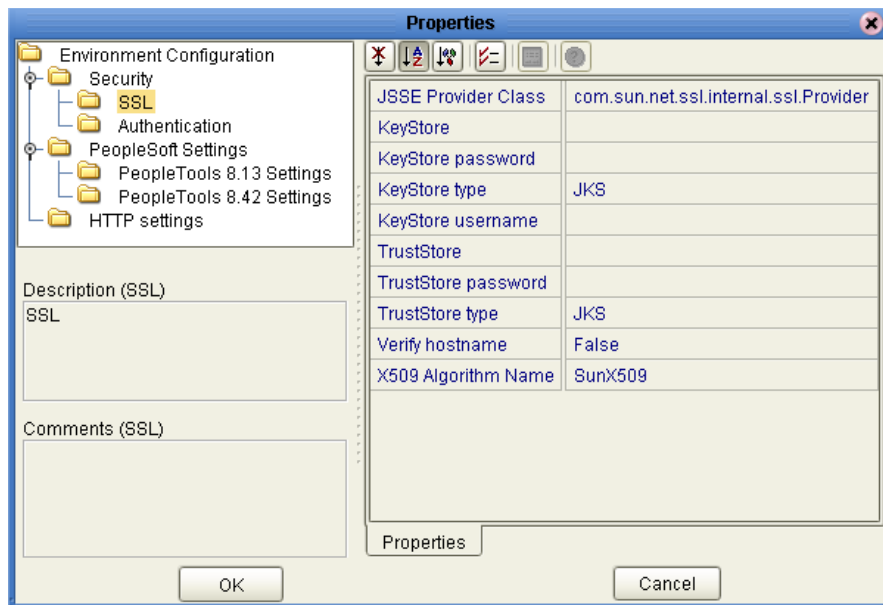
The PeopleSoft HTTP Client eWay properties, accessed from the Environment Explorer tree, are organized into the following sections:

- [Security - SSL](#) on page 25
- [Security - Authentication](#) on page 28
- [PeopleSoft Settings](#) on page 29
- [PeopleSoft Settings - PeopleTools 8.13 Settings](#) on page 30
- [PeopleSoft Settings - PeopleTools 8.42 Settings](#) on page 34
- [HTTP Settings](#) on page 37

3.3.1. Security - SSL

The Security - SSL section contains the top level properties displayed in Figure 7.

Figure 7 Environment Properties - Security - SSL



JSSE Provider Class

Description

Specifies the fully qualified name of the JSSE provider class.

Required Value

The name of the JSSE provider class. The configured default value is **com.sun.net.ssl.internal.ssl.Provider**.

KeyStore

Description

Specifies the keystore used for key/certificate management when establishing SSL connections.

Required Value

The keystore used for key/certificate management.

KeyStore password

Description

Specifies the password for accessing the keystore used for key/certificate management when establishing SSL connections.

Required Value

A password associated with the KeyStore username to access the keystore.

KeyStore type

Description

Specifies the keystore type for the keystore used for key/certificate management when establishing SSL connections.

Required Value

The keystore type. The configured default is **JKS**.

KeyStore username

Description

Specifies a username for accessing the keystore used for key/certificate management when establishing SSL connections.

Required Value

A user name (login) with permission to access the keystore.

TrustStore

Description

Specifies the truststore used for CA certificate management when establishing SSL connections.

Required Value

The name of the truststore.

TrustStore password

Description

Specifies the password for accessing the truststore used for CA certificate management when establishing SSL connections.

Required Value

A password that permits access to the truststore.

TrustStore type

Description

Specifies the truststore type of the truststore used for CA certificate management when establishing SSL connections.

Required Value

The truststore type. The configured default is **JKS**.

Verify hostname

Description

Specifies whether hostname verification is done on the server certificate during the SSL handshake.

Required Value

True or **False**. **True** indicates that hostname verification is performed on the server certificate during the SSL handshake. The configured default is **False**.

X509 Algorithm Name

Description

Specifies the X509 algorithm name to use for the trust and key manager factories.

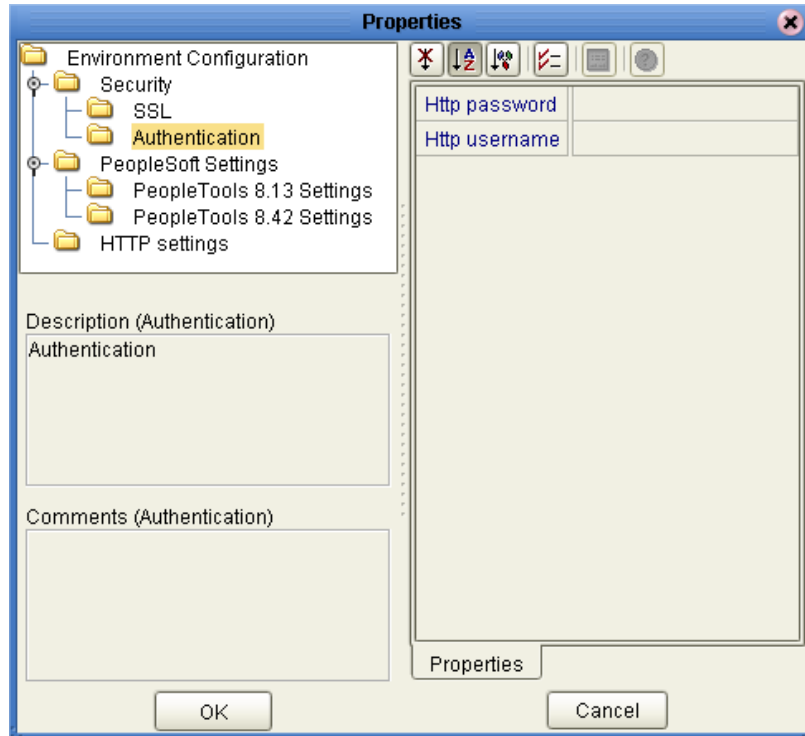
Required Value

The X509 algorithm name to use for the trust and key manager factories.

3.3.2. Security - Authentication

The **Security - Authentication** section contains the properties displayed in Figure 8.

Figure 8 Environment Properties - Authentication



HTTP password

Description

Specifies the password used to authenticate the Web site specified by the URL.

Required Value

A password linked to the user name.

HTTP username

Description

Specifies the username used to authenticate the Web site specified by the URL.

Required Value

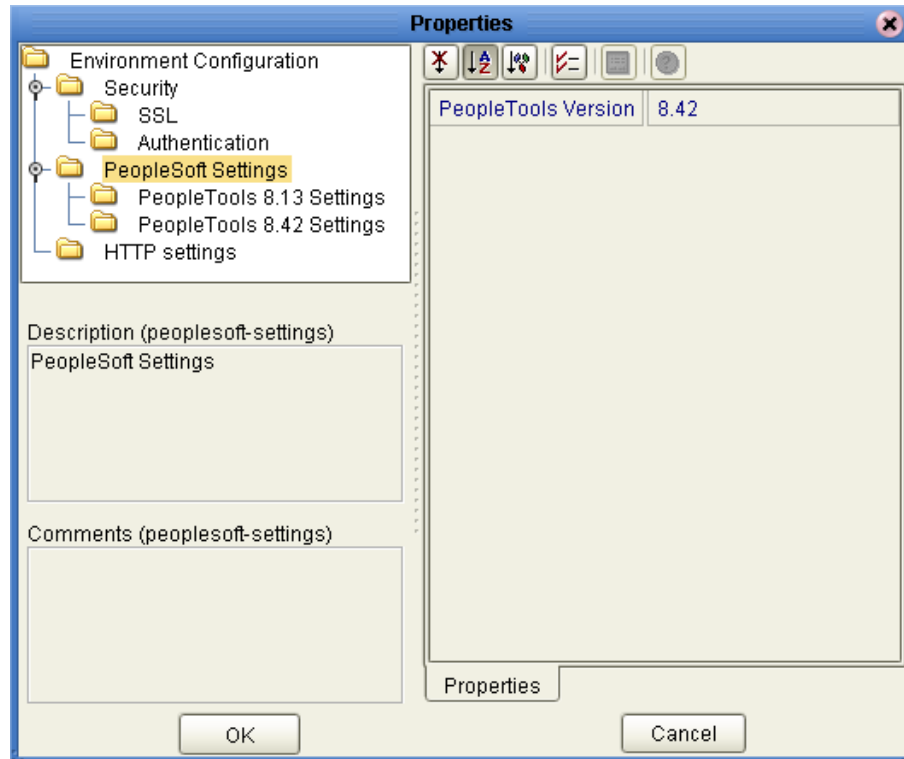
A user name with access permission.

3.3.3. PeopleSoft Settings

These settings must match the PeopleSoft server configurations as described in [Configuring the PeopleSoft Server for ICAN Projects](#) on page 57.

The **PeopleSoft Settings** section contains the properties displayed in Figure 9.

Figure 9 Environment Properties - PeopleSoft Settings



PeopleTools Version

Description

Specifies the version of PeopleTools installed. The value options are:

- **8.13:** PeopleTools version 8.13
- **8.42:** PeopleTools version 8.42

Required Value

Select **8.13** or **8.42**. The configured default is **8.42**.

3.3.4. PeopleSoft Settings - PeopleTools 8.13 Settings

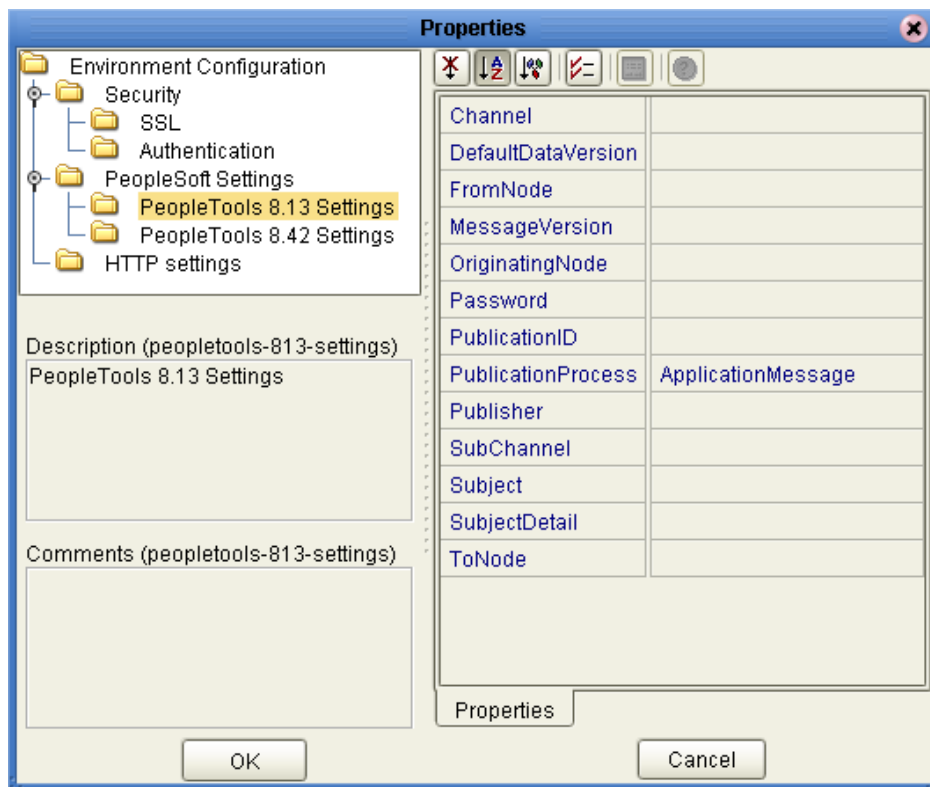
The PeopleTools settings must match the configurations for the PeopleSoft server described in [Configuring PeopleTools 8.13](#) on page 72.

At minimum, you must specify the following properties:

- [Channel](#) on page 30
- [FromNode](#) on page 31
- [MessageVersion](#) on page 31
- [PublicationProcess](#) on page 32
- [Subject](#) on page 33
- [ToNode](#) on page 33

The **PeopleTools 8.13 Settings** section contains the properties displayed in Figure 10.

Figure 10 Environment Properties - PeopleTools 8.13 Settings



Channel

Description

Specifies the name of the message channel containing the message.

Required Value

The name of the message channel.

DefaultDataVersion

Description

Specifies the default message version for the sending system.

Required Value

The default message version.

FromNode

Description

Specifies the name of the node from which messages originate. The node name must match the node definition for the third party system as defined in the receiving PeopleSoft system.

Required Value

The name of the node from which the messages originate.

MessageVersion

Description

Specifies the message version.

Required Value

The message version.

OriginatingNode

Description

Specifies the name of the node that originally published the message. This property is used to prevent circular publishing. If not in the XML file, the system sets it to the publishing node name.

Required Value

The name of the node that originally published the message.

Password

Description

Specifies the password associated with the destination node. This value is stored in the PeopleSoft database and must be communicated to the system administrators for the publishing system. If the node definition on the sending system has a node group defined, the password will be present. If the node definition on the receiving system has a node group defined, the password must be present and must match the node group password.

Required Value

The password associated with the destination node.

PublicationID

Description

Specifies the system generated identifier for the publication. The fields, **FromNode**, **Channel**, and **PublicationID**, uniquely identify the publication. If the **FromNode** is specified and the **Publication ID** is omitted, the publication ID is set to the next available publication ID on that channel within the subscribing PeopleSoft database.

Required Value

The system generated identifier for the publication.

PublicationProcess

Description

Specifies the application-defined name of the program that generated the message. This may be required by the application.

Required Value

The application-defined name of the program that generated the message.

Publisher

Description

Specifies the application-defined operator ID class that published the message. This may be required by the application.

Required Value

The application-defined operator ID class that published the message.

SubChannel

Description

Specifies the name of the subchannel that contains the message. Messages in the same channel, but in different subchannels, are assumed to refer to distinct objects (for example, different POs or different employees), and are processed in parallel if possible. This field contains the concatenated values that represent the subchannel. For example, if the subchannel is **Business Unit, Journal ID**, then the value of this field is **M04123456789** where Business Unit = **M04** and Journal ID = **123456789**. Include this field if the subscribing PeopleSoft system has a defined subchannel, otherwise, it may be omitted.

Required Value

The name of the subchannel that contains the message. See the description for the naming format.

Subject

Description

Specifies the name of the message as defined in the PeopleSoft system.

Required Value

The name of the message as defined in the PeopleSoft system.

Subject Detail

Description

Specifies the application defined subtype of the message name.

Required Value

The application defined subtype of the message name.

ToNode

Description

Specifies the name of the node for which the message is intended. This must correspond to an entry in the node lookup table on the gateway servlet, and the name of the local node (node definition) on the receiving PeopleSoft system.

Required Value

The name of the node for which the message is intended.

3.3.5. PeopleSoft Settings - PeopleTools 8.42 Settings

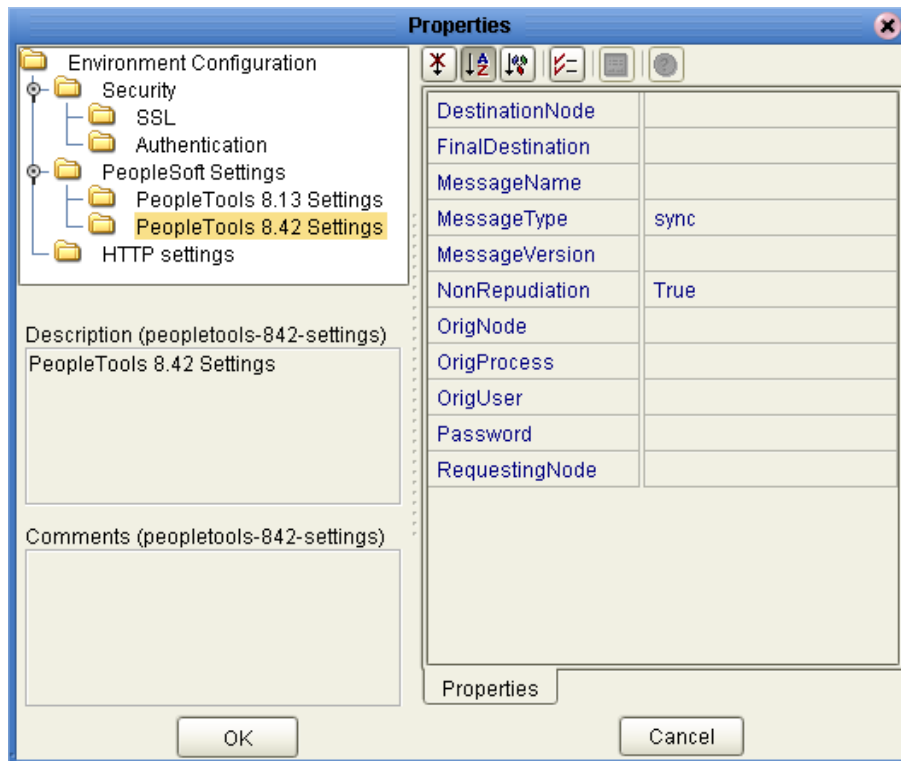
The PeopleTools settings must match the configurations for the PeopleSoft server described in [Configuring PeopleTools 8.42](#) on page 58.

At minimum, you must specify the following properties:

- [DestinationNode](#) on page 34
- [MessageName](#) on page 35
- [MessageVersion](#) on page 35
- [RequestingNode](#) on page 36

The **PeopleTools 8.42 Settings** section contains the top level properties displayed in Figure 11.

Figure 11 Environment Properties - PeopleTools 8.42 Settings



DestinationNode

Description

Specifies the name of the node that receives the message. This parameter is optional when you specified a default target node using the Default Application Server Jolt connect string properties in the integrationGateway.properties file.

Required Value

The name of the node that receives the message.

FinalDestination

Description

Specifies the name of the node that ultimately receives the message. This is common when a PeopleSoft Integration Broker hub is used.

Required Value

The name of the node that ultimately receives the message.

MessageName

Description

Specifies the name of the message.

Required Value

The name of the message.

MessageType

Description

Specifies the type of message being sent. The type options are:

- **sync**: synchronous message
- **async**: asynchronous message
- **ping**: ping message

Required Value

Select **sync**, **async**, or **ping**.

MessageVersion

Description

Specifies the message version.

Required Value

The message version.

NonRepudiation

Description

Specifies whether the message content in the request should be processed using nonrepudiation logic.

Required Value

True or **False**. **True** indicates that nonrepudiation logic will be used to process the message content of the request.

OrigNode

Description

Specifies the name of the node that started the process. This property is optional.

Required Value

The name of the node that started the process.

OrigProcess

Description

Specifies the originating process by which the message was initially generated.

Required Value

The originating process by which the message was initially generated.

OrigUser

Description

Specifies the user ID for the user from which the message was initially generated. This property is optional.

Required Value

The user ID for the user from which the message was initially generated.

Password

Description

Specifies the password as entered in the target node's definition for the source node. The target node authenticates the password when it receives the message. This parameter is required only if password authentication is enabled for the source node definition in the target database.

Required Value

The password, as it is presented in the target node's definition for the source node.

RequestingNode

Description

Specifies the name of the node sending the request.

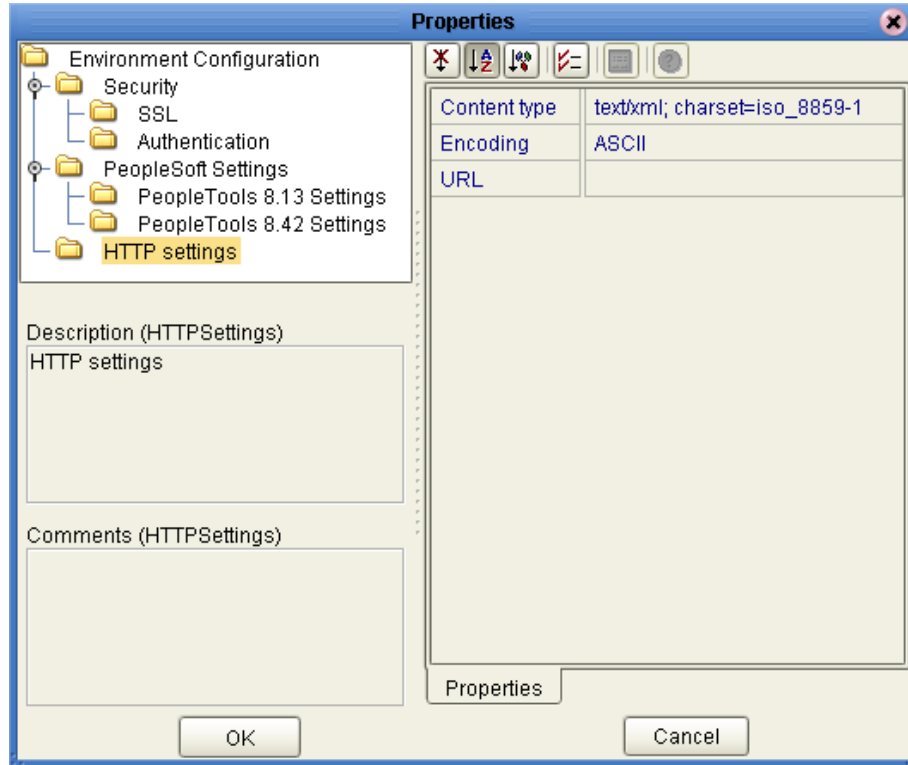
Required Value

The name of the node sending the request.

3.3.6. HTTP Settings

The HTTP Settings section contains the properties displayed in Figure 12.

Figure 12 Environment Properties - HTTP Settings



Content type

Description

Specifies the default Content-Type header value to include when sending a request to the server.

Required Value

The default Content-Type header value. The configured default is:

`text/xml; charset=iso_8859-1`

Encoding

Description

Specifies the default encoding used when reading or writing textual data.

Required Value

The default encoding used when reading or writing textual data. The configured default is ASCII.

URL

Description

Specifies the default URL to use for establishing an HTTP connection.

eGate uses the PeopleSoft eWay to send an HTTP post request to PeopleSoft's HTTP listening connector. The PeopleSoft HTTP listening connector monitors specific ports for incoming HTTP messages. It is implemented as a Java HTTPServlet object running inside WebLogic's application server.

For PeopleTools 8.13, use the following:

Apache:

`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 65.

Required Value

The default URL to use for establishing an HTTP connection.

3.4 PeopleSoft HTTP Server eWay Connectivity Map Properties

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

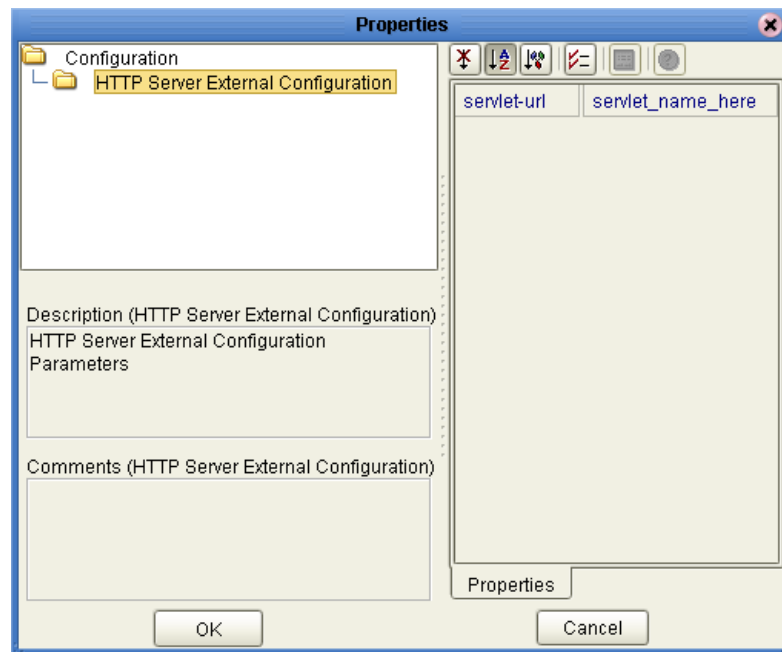
- [HTTP Server External Configuration](#) on page 39

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

3.4.1. HTTP Server External Configuration

The **HTTP Server External Configuration** section contains the top level properties displayed in Figure 13.

Figure 13 Properties Editor - Connectivity Map, HTTP Server External Configuration



servlet-url

Description

Specifies the last path component of the HTTP server servlet URL. This URL is the one the client uses to access the server. The property value must be the servlet name, for example: **HttpServerServlet**. The total URL is made up of several components, including the project deployment name and the value entered for this property.

The servlet name must match the **Primary URL** property on the PeopleSoft server as described in [Configuring the Connector to Post to eGate using HTTP](#) on page 62.

An example of a complete servlet URL is:

```
http://localhost:portno/Deployment1_servlet/PeopleSoftHTTPServereWay
```

Where:

- *localhost* is the name of the machine your current Logical Host is running on.
- *portno* is the port number specified as the connector port in the Integration Server properties (**IS Configurations > Sections > Web Container Configuration > Web Server Configurations > Default Web Server > Connector Port**).
- *Deployment1* is the name of your current project's Deployment Profile concatenated with *_servlet*.
- *PeopleSoftHTTPServereWay* is the name of the PeopleSoft HTTP Server eWay in the Connectivity Map.

Required Value

The last path component of the HTTP server servlet URL.

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 that describes how to complete a PeopleSoft ICAN project after you have built the business logic.

What's in This Chapter

- [Generating DTDs from PeopleTools 8.13](#) on page 41
- [Creating OTDs](#) on page 51
- [OTD Methods and Business Process Operations](#) on page 51
- [Building PeopleSoft Business Logic with eInsight](#) on page 53
- [Building PeopleSoft Business Logic with eGate](#) on page 54

4.1 Generating DTDs from PeopleTools 8.13

To create the business logic for a PeopleSoft ICAN project, use the PeopleTools Application Designer 8.13 to generate the necessary Document Type Definitions (DTDs) using third-party software. You can then create an OTD that uses the generated DTD as described in [Creating OTDs](#) on page 51.

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 42.
- 2 [Extracting and Viewing the XML Test Message](#) on page 45.
- 3 [Generating a DTD for the XML File](#) on page 49.

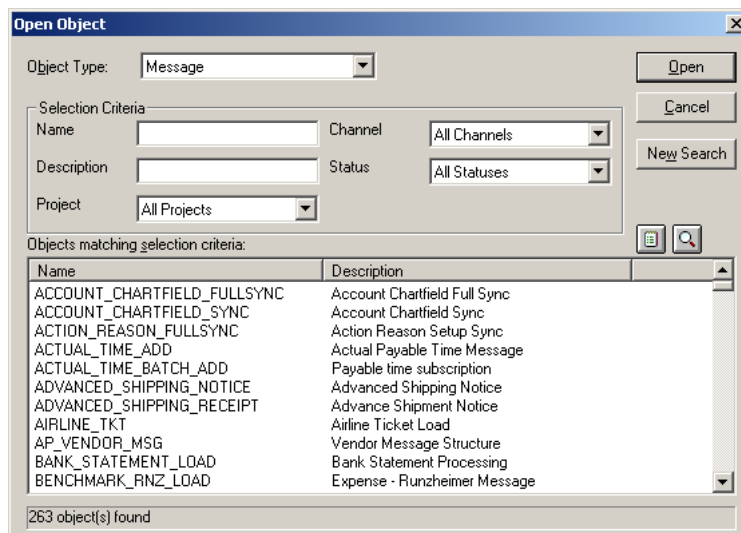
4.1.1 Generating and Publishing an XML Test Message

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

To generate a PeopleSoft XML message

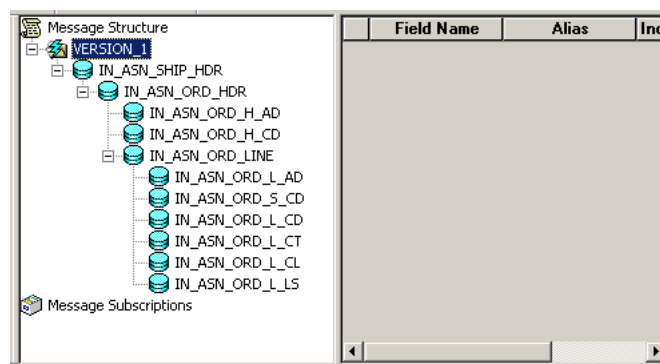
- 1 Log into PeopleTools.
- 2 Log into the Application Designer
- 3 From the Application Designer’s File menu, click **Open**. The **Open Object** dialog box appears (see Figure 14).

Figure 14 Open Object Dialog Box - Object Type Message



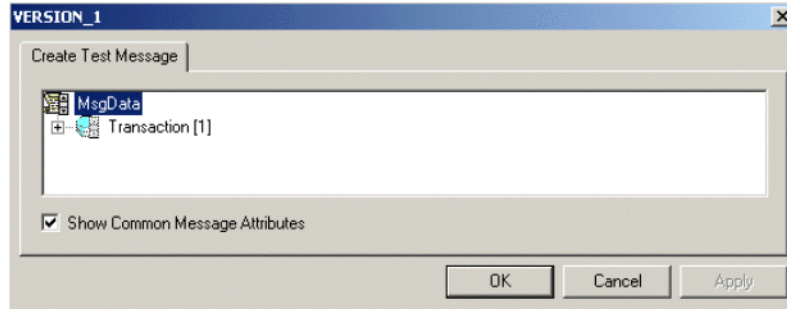
- 4 Select **Message** as the object type, and click **Open**. A list of all available message definitions is displayed.
- 5 Double-click the message definition for your message, for example, **ADVANCED_SHIPPING_RECEIPT**. The **Message** window displays the message structure (see Figure 15).

Figure 15 Message Structure Details



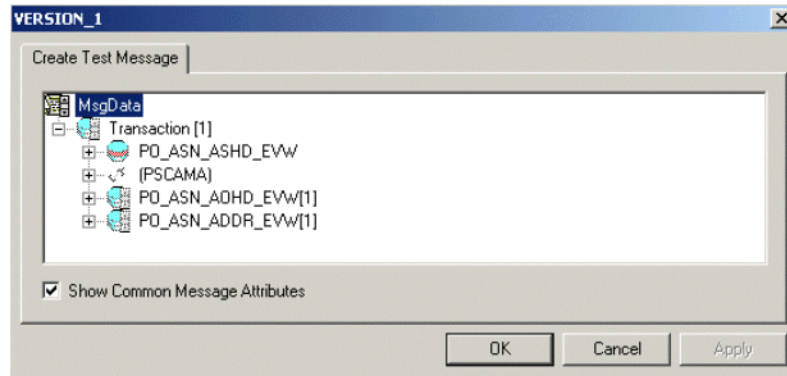
- 6 Right-click **Version_1** in the message structure tree, and select **Create Test Message** from the shortcut menu. The **Version_1** dialog box appears displaying the records contained in the **ADVANCED_SHIPPING_RECEIPT** message (see Figure 16).

Figure 16 Creating a Test Message



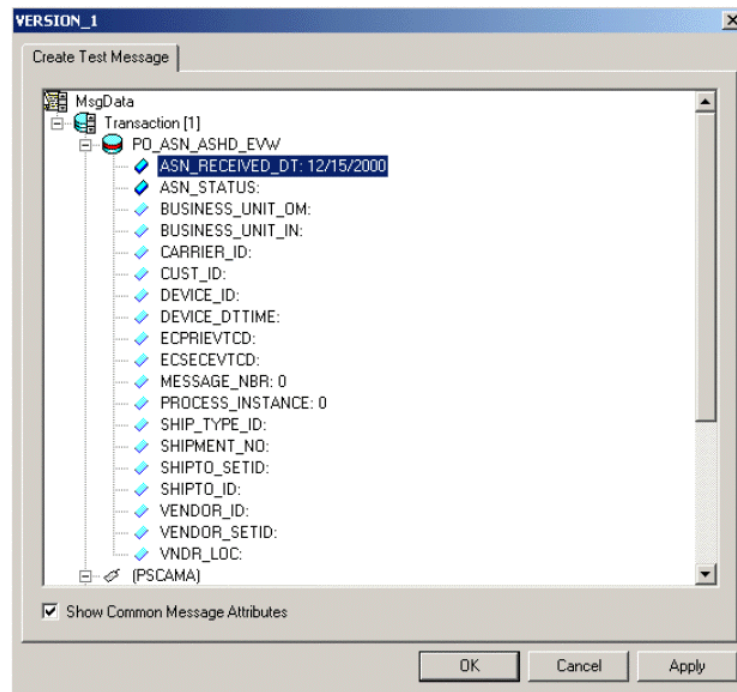
- 7 Expand the **Transaction** record to display all subrecords within the transaction record as shown in Figure 17.

Figure 17 Displaying Transaction Subrecords



Records can nest to multiple levels as displayed in [Figure 18 on page 44](#).

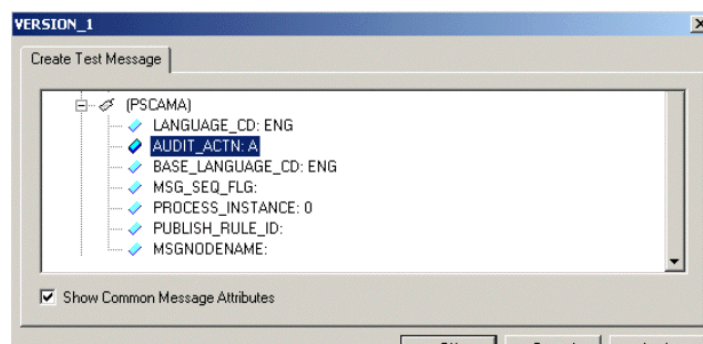
Figure 18 Expanding Transaction Subrecords



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

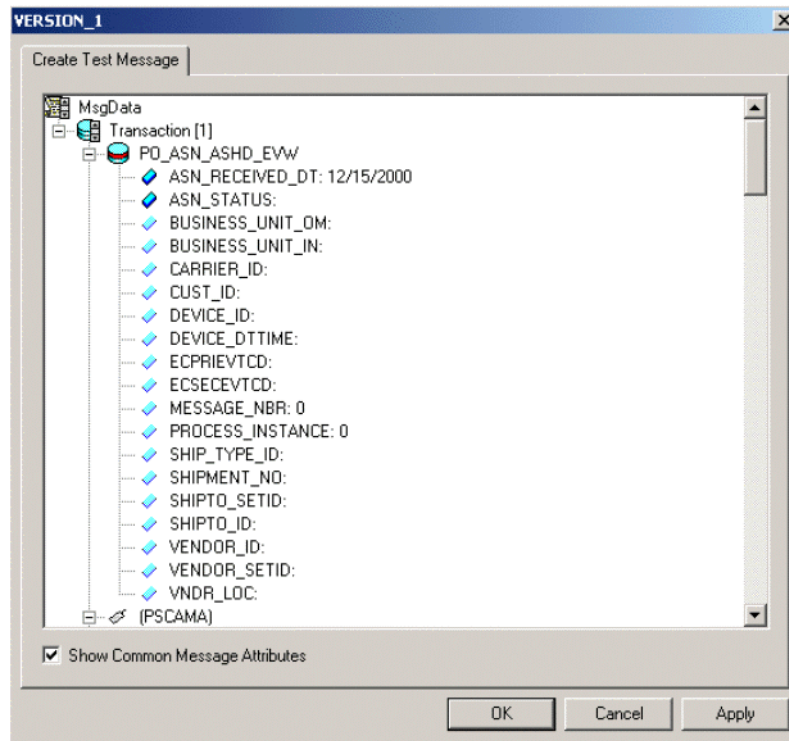
- ◆ If there are no constraints requiring you to populate all fields in a record, then generate a well-formed XML message by populating only one field in each record and sub-record.
 - ◆ If there are constraints, then all fields in each record and sub-record must be populated.
 - ◆ For most message definitions, only one field is required to be populated with data. Some have default values.
- 8 Enter data for the **PSCAMA** records as follows:
- A Double-click a specific field. If the field displays empty, it is available for data input.
 - B Add the sample data (see Figure 19) .

Figure 19 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 (see Figure 20). A message confirms that publication was successful.

Figure 20 Viewing the Test Message



- 11 Click **OK** to close the dialog box.

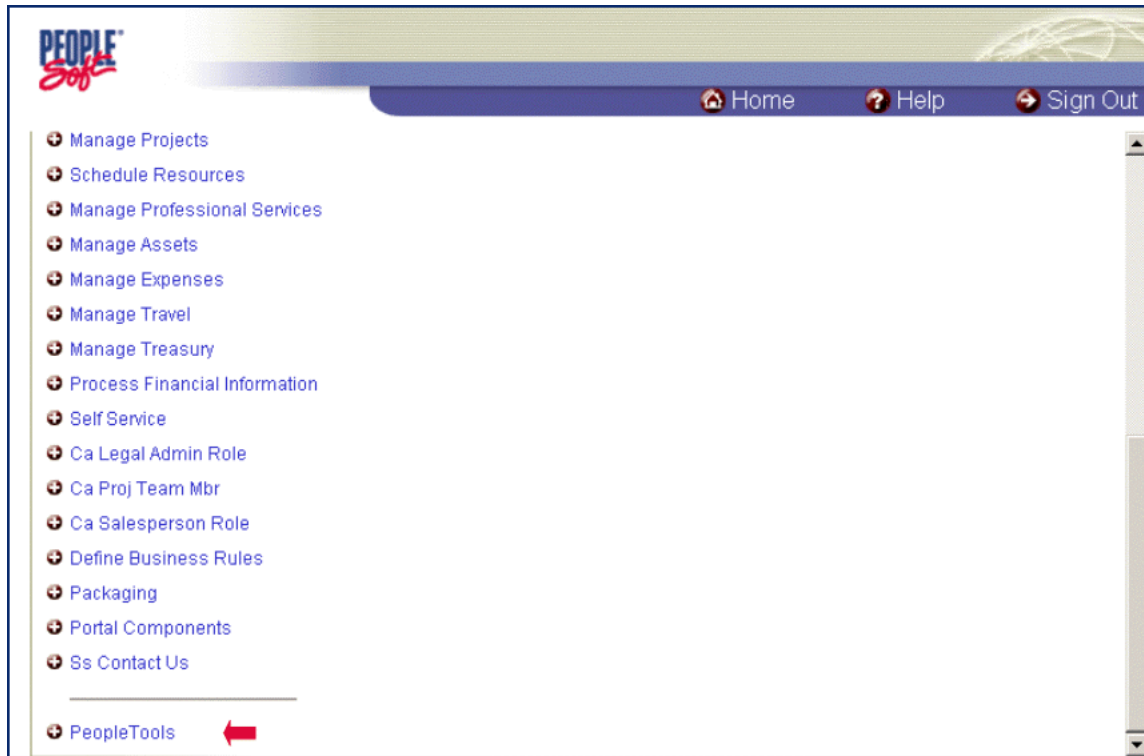
4.1.2 Extracting and Viewing the XML Test Message

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

To view the XML message

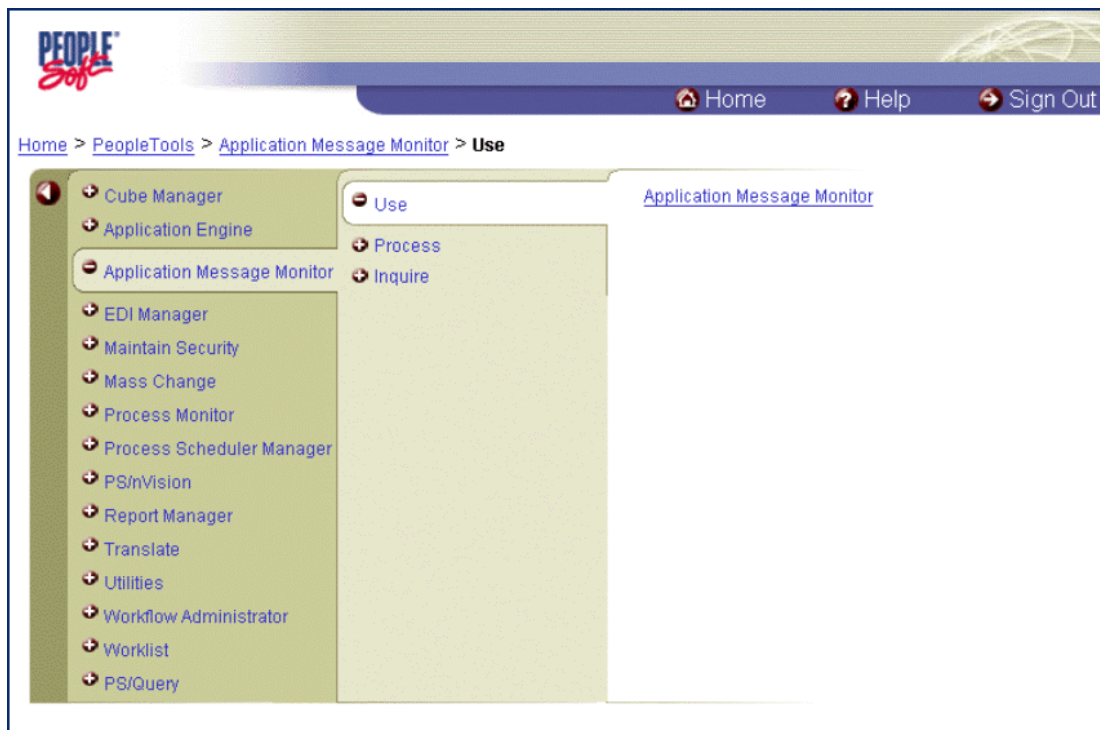
- 1 Within a supported Web browser, log into the PeopleSoft 8 Application.
- 2 In PeopleSoft 8, click **PeopleTools** to open the PeopleTools application (see Figure 21).

Figure 21 PeopleSoft 8 Application Contents Page



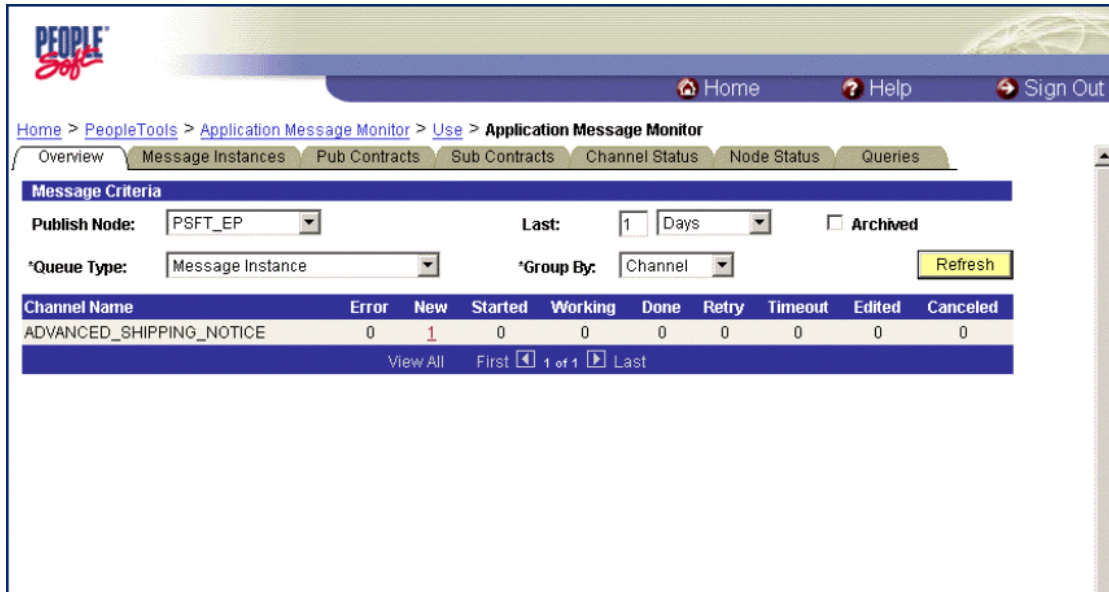
The PeopleTools Directory Tree appears as displayed in Figure 22.

Figure 22 PeopleTools Directory Tree



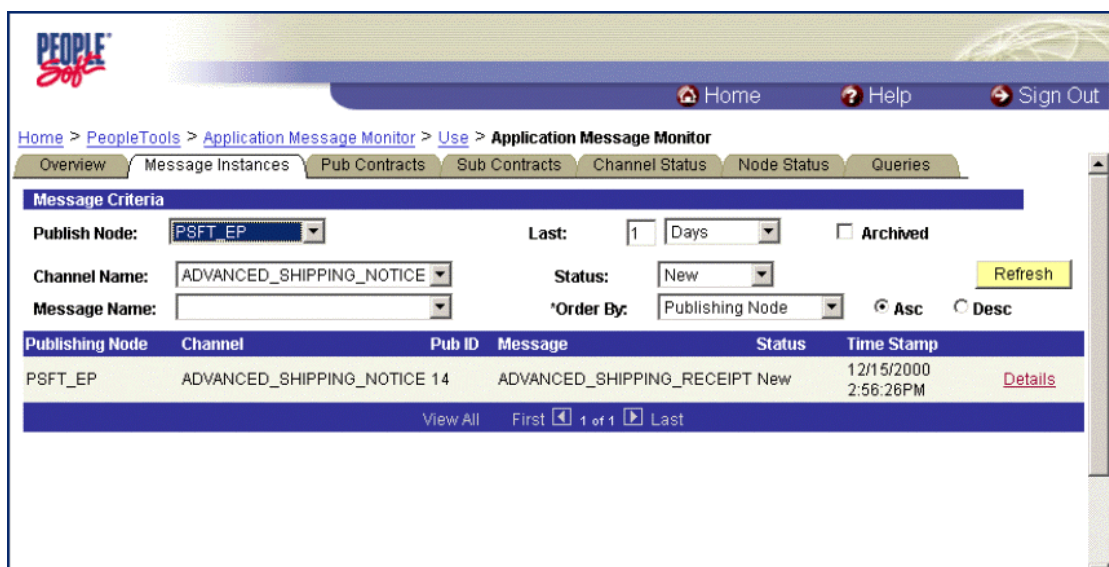
- 3 Click **Application Message Monitor > Use > Application Message Monitor**, and click the hyperlink. The **Application Message Monitor** page opens to the **Overview** tab (see Figure 23).

Figure 23 Application Message Monitor - Overview Tab



- 4 From the **Publish Node** field, select 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 displayed.
- 6 Click the link indicated by the number of messages in the **New**, **Done**, or **Working** column. The **Message Instances** tab appears, displaying a summary of the published messages (see Figure 24).

Figure 24 Application Message Monitor - Message Instances Tab



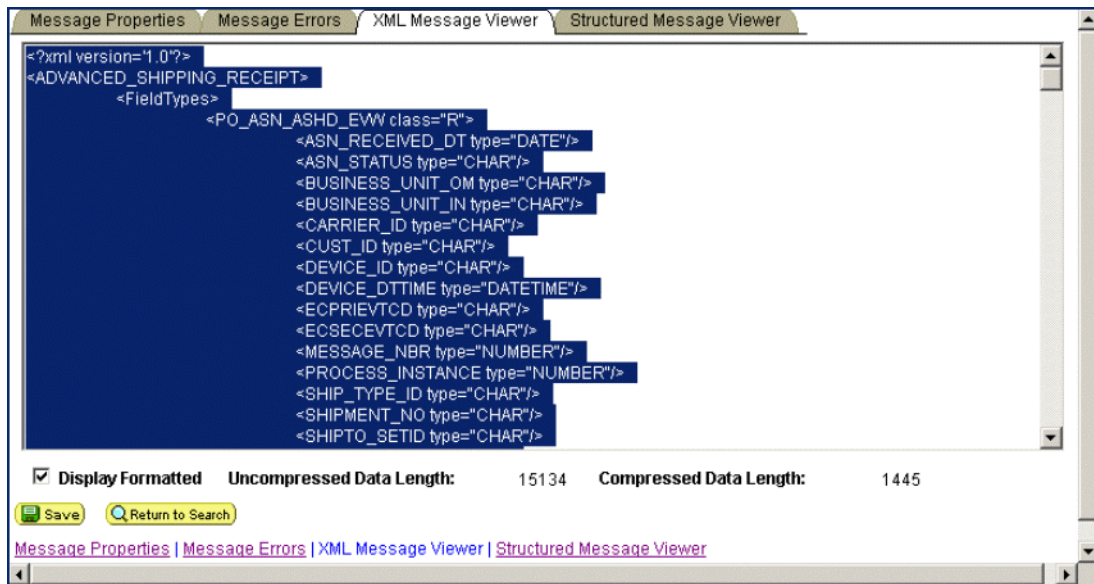
- 7 Click the **Details** link to view the properties of the published XML message (see Figure 25).

Figure 25 Message Properties Tab



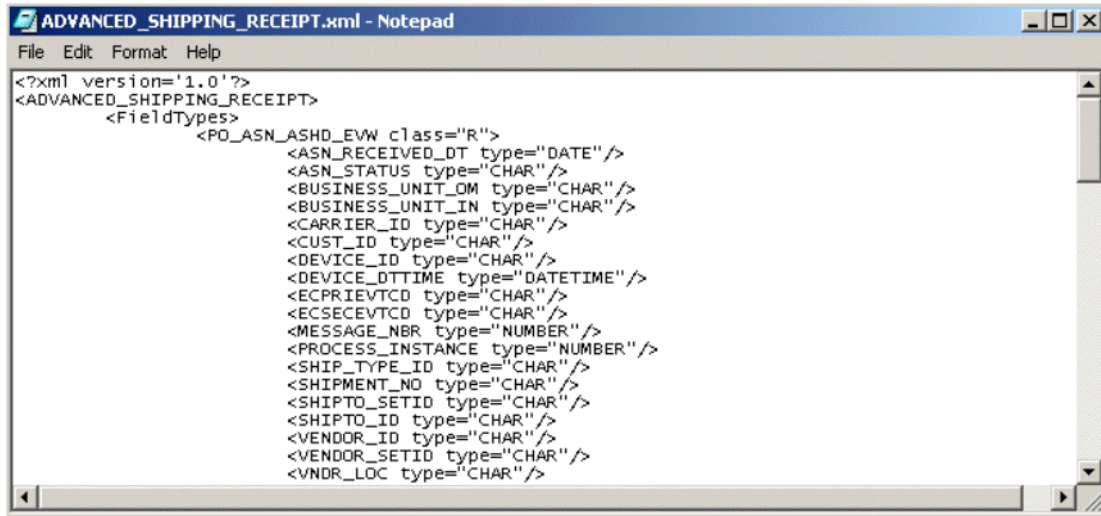
- 8 Click the **XML Message Viewer** tab to review the message itself.
- 9 Select the entire XML message (see Figure 26).

Figure 26 XML Message Viewer Tab



- 10 Copy and paste the XML message into a text editor and save it, with a .xml extension, to a temporary location. Use the same naming convention used for the name of the Message Definition. This example in [Figure 27 on page 49](#) shows the saved XML Message **ADVANCED_SHIPPING_RECEIPT**.

Figure 27 ADVANCED_SHIPPING_RECEIPT.xml



4.1.3 Generating a DTD for the XML File

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

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

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

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

- 1 From the **XML Document to DTD** field browse to and select the .xml file with the saved XML Message. For this example:
c:\temp\ADVANCED_SHIPPING_RECEIPT.xml
- 2 Click **Open**. The DTD Generator page reappears with the path and file displayed in the XML Document box (see Figure 28).

Figure 28 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.

- 3 Click **Generate DTD** to generate the DTD. The DTD appears as displayed in [Figure 29 on page 50](#).

Figure 29 Resulting DTD

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

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

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

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

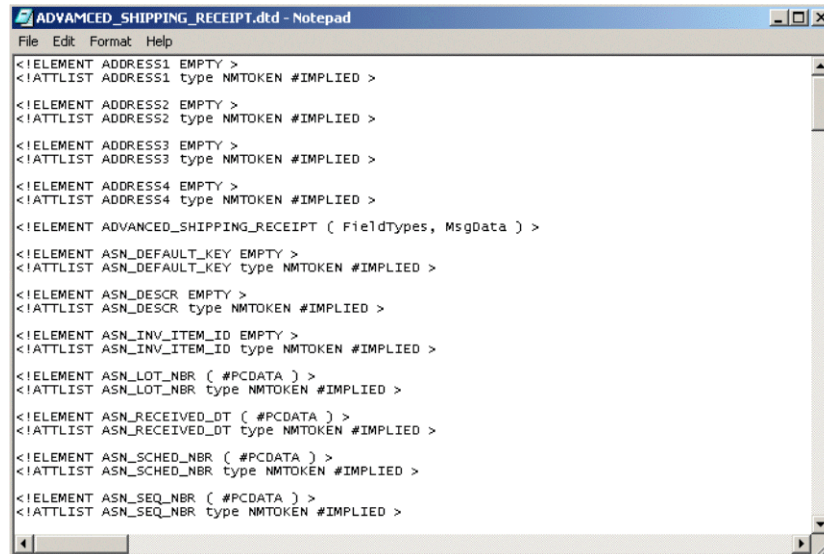
<!ELEMENT ADVANCED_SHIPPING_RECEIPT ( FieldTypes, MsgData ) >

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

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

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

Figure 30 DTD File



```
File Edit Format Help
<!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 >

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

<!ELEMENT ASN_LOT_NBR ( #PCDATA ) >
<!ATTLIST ASN_LOT_NBR type NMTOKEN #IMPLIED >

<!ELEMENT ASN_RECEIVED_DT ( #PCDATA ) >
<!ATTLIST ASN_RECEIVED_DT type NMTOKEN #IMPLIED >

<!ELEMENT ASN_SCHED_NBR ( #PCDATA ) >
<!ATTLIST ASN_SCHED_NBR type NMTOKEN #IMPLIED >

<!ELEMENT ASN_SEQ_NBR ( #PCDATA ) >
<!ATTLIST ASN_SEQ_NBR type NMTOKEN #IMPLIED >
```

You can now use the DTD to create a PeopleSoft OTD using the DTD OTD wizard in the Enterprise Designer. See [Creating OTDs](#) on page 51.

4.2 Creating OTDs

For the business logic for PeopleSoft Business Processes and Collaborations, you use DTDs generated from PeopleSoft as described in [Generating DTDs from PeopleTools 8.13](#) on page 41. You then create a DTD OTD with the Enterprise Designer’s DTD OTD Wizard. 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 83. The DTDs can be found in the file `DTD_and_Data_Files.zip`.

4.3 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 using HTTP.

Parameters

None.

Return Value

None.

Throws

PSoftHttpApplicationException

sendMessage Operation

Description

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

Input and Output

eInsight Operation	Input	Output
sendMessage	webRequest	webResult

processRequest Operation

Description

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

Input and Output

eInsight Operation	Input	Output
processRequest	n/a	webRequest

4.4 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 53
- [Using Business Process Operations](#) on page 53

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 82.

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

4.4.1 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**.

4.4.2 Using Business Process Operations

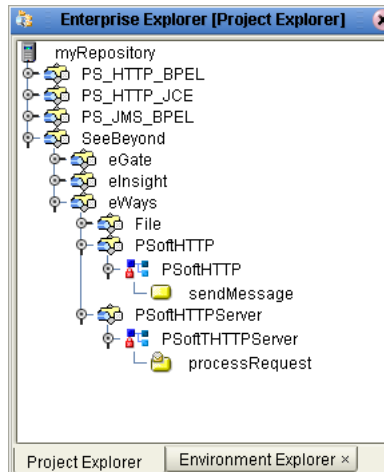
To use Business Processes operations

- 1 In the **Project Explorer** tab of the Enterprise Designer, expand the **SeeBeyond**, **eWays**, **PSoftHTTP**, and **PSoftHTTPServer** folders in the **Project Explorer** tab (see [Figure 31 on page 54](#)).

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 31 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 [PS_HTTP_BPEL Sample Project](#) on page 85.

4.5 Building PeopleSoft Business Logic with eGate

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

- [Building Collaborations](#) on page 54
- [Adding Connectivity Maps](#) on page 55
- [Using the sendMessage\(\) Method](#) on page 55

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 82.

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

4.5.1 Building Collaborations

After you have built the OTDs as described in [Creating OTDs](#) on page 51, you are ready to build Collaboration Definitions.

To build Collaborations

- 1 From the **Project Explorer** tab of the Enterprise Designer, right-click your 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 51.

4.5.2 Adding Connectivity Maps

To add a Connectivity Map

- From the **Project Explorer** tree, right-click the project for which you intend to create a Connectivity Map, and select **New > Connectivity Map**.

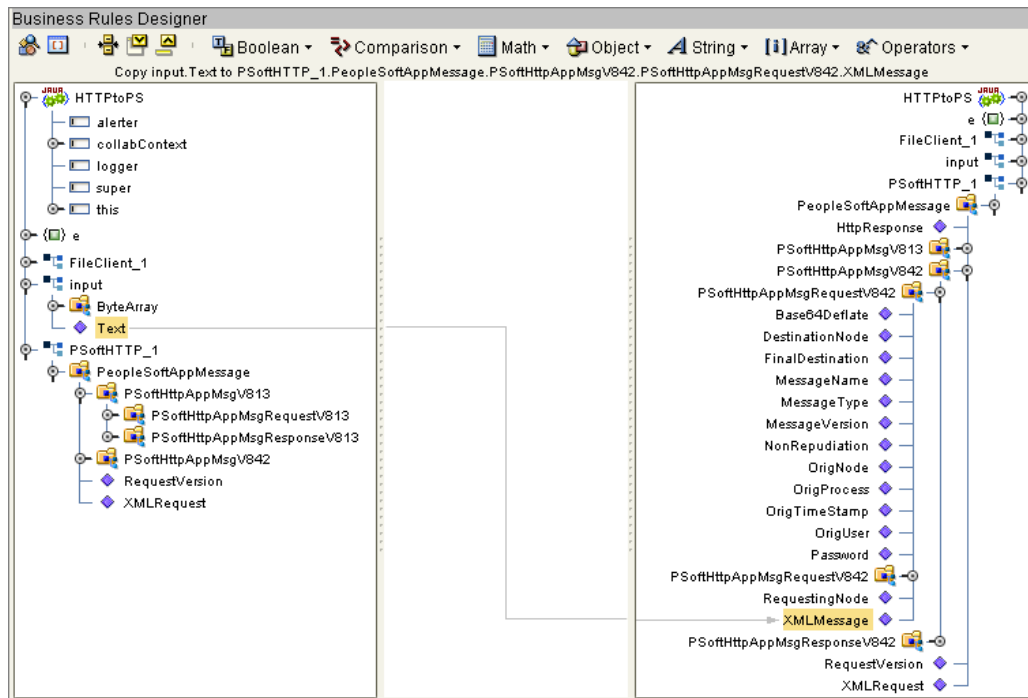
To add the PeopleSoft HTTP inbound and outbound eWays, refer to **To create the PeopleSoft HTTP Client External Application** on page 17.

4.5.3 Using the sendMessage() Method

To use the sendMessage() method

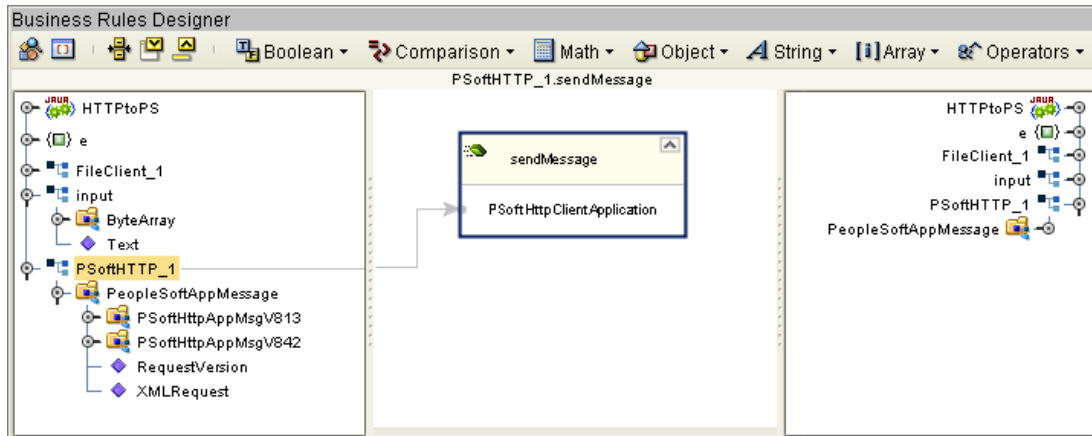
- 1 In the Business Rules toolbar of the Java Collaboration Rules Editor, populate the message by copying the input to the XML message as shown in Figure 32.

Figure 32 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 (see Figure 33).

Figure 33 Calling the sendMessage Method



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.

What's in This Chapter

- [Overview](#) on page 57
- [Configuring PeopleTools 8.42](#) on page 58
- [Configuring PeopleTools 8.13](#) on page 72

5.1 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. Table 4 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.

5.2 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.

5.2.1 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 Figure 34.

Figure 34 Adding the Node to Receive eGate Posts

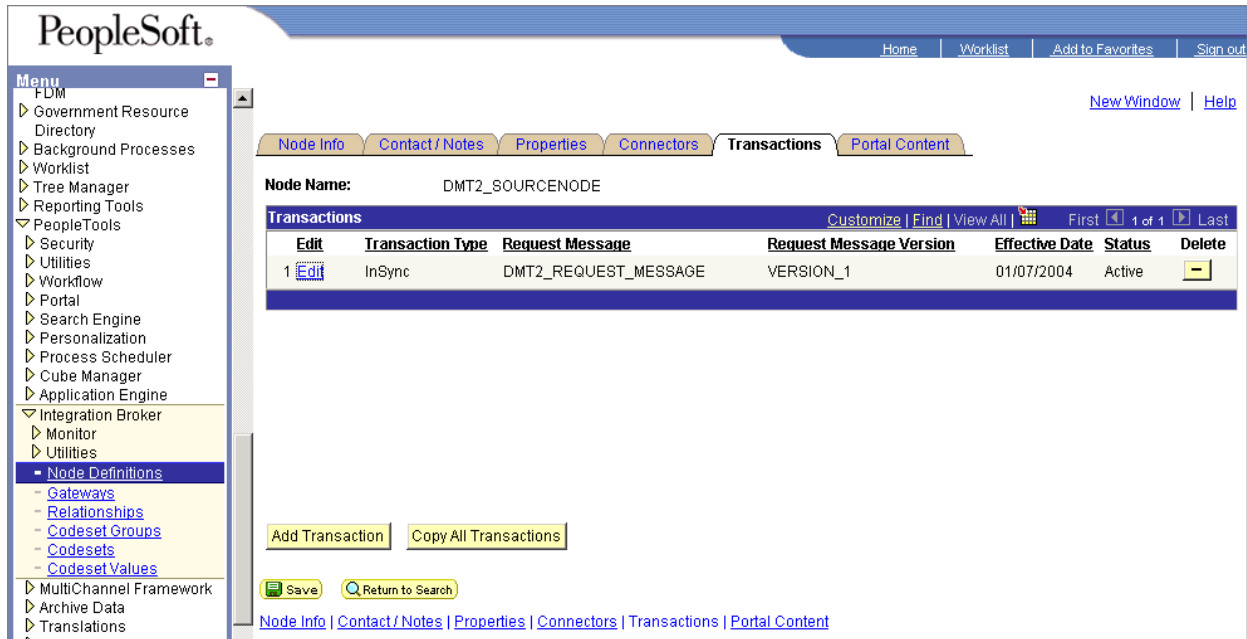
The screenshot shows the PeopleSoft web interface for configuring a node. The left-hand menu is expanded to 'Node Definitions'. The main content area shows the configuration for a node named 'DMT2_SOURCENODE'. The configuration includes the following fields and options:

- Node Name:** DMT2_SOURCENODE
- *Description:** SOURCENODE for egate http post (with a Copy button)
- Company ID:** (empty text field with a Rename button)
- *Node Type:** PIA (dropdown menu) with checkboxes for Active Node, Local Node, Default Local Node, and Non-Repudiation (with a Delete button)
- *Routing Type:** Implicit (dropdown menu)
- *Authentication Option:** None (dropdown menu)
- Hub Node:** (text field with a search icon)
- Master Node:** (text field with a search icon)
- Image Name:** (text field with a search icon)
- Code Set Group Name:** (text field with a search icon)

At the bottom of the configuration area, there are 'Save' and 'Return to Search' buttons, and a breadcrumb trail: Node Info | Contact/Notes | Properties | Connectors | Transactions | Portal Content.

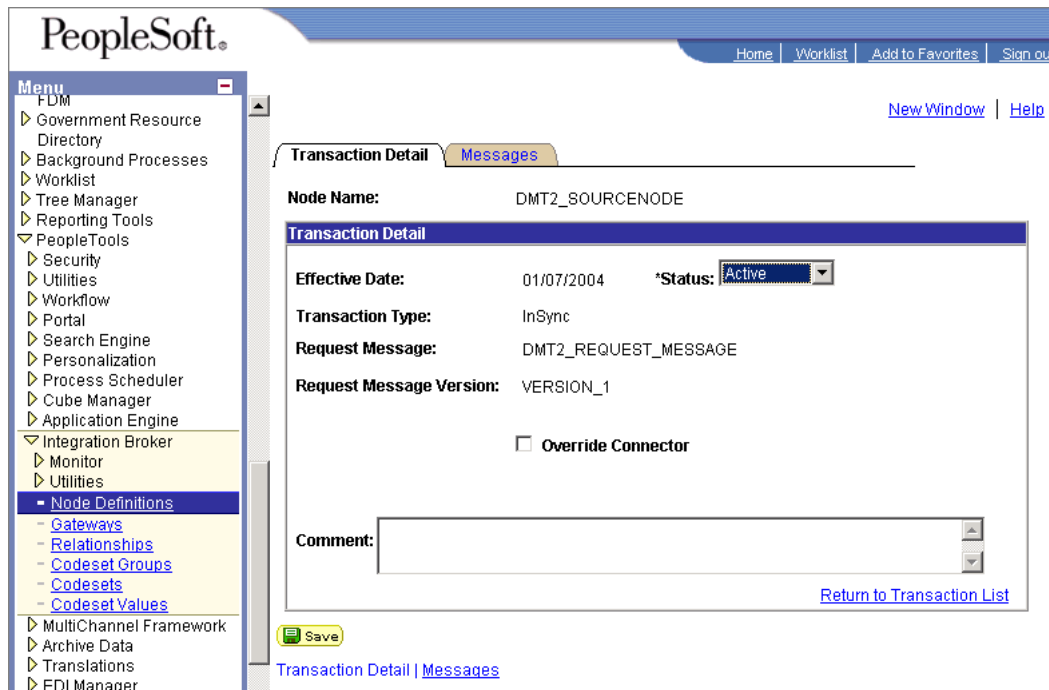
- 3 Add a transaction for the eGate post using your own naming convention and configure it as displayed in [Figure 35 on page 59](#).

Figure 35 Adding the Transaction to Receive eGate Posts



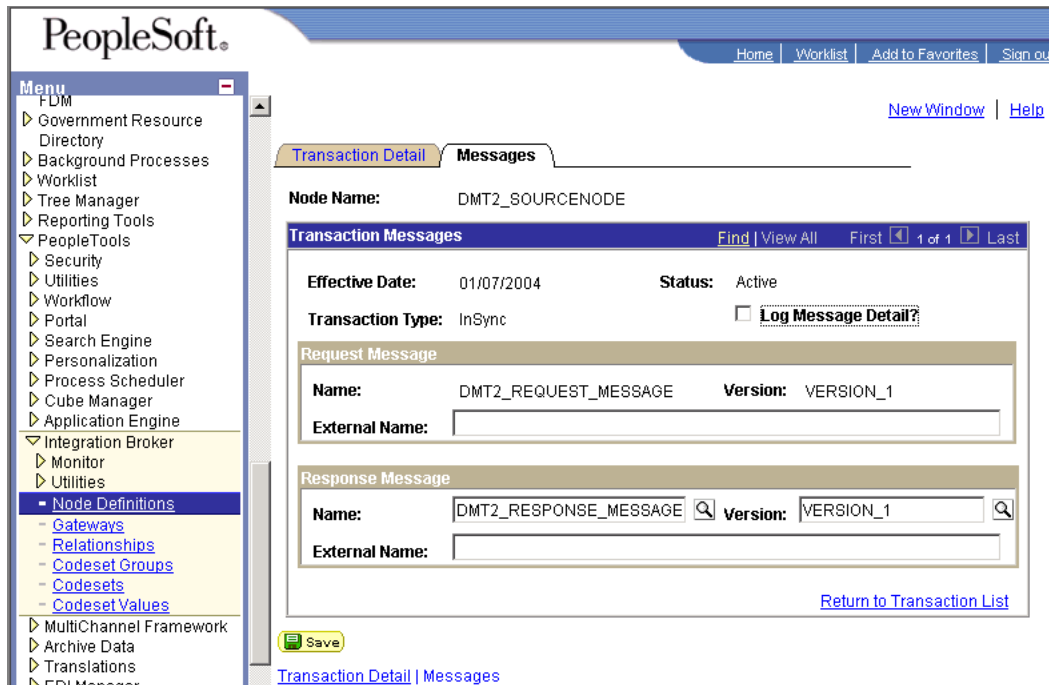
- 4 Click **Edit**. The **Transaction Detail** tab appears. Configure the transaction as shown in Figure 36.

Figure 36 Configuring the Transaction to Receive eGate Posts



- 5 Click **Messages**. The **Messages** tab displays. Configure the messages for the eGate post as shown in Figure 37 on page 60.

Figure 37 Configuring the Messages to Receive eGate Posts



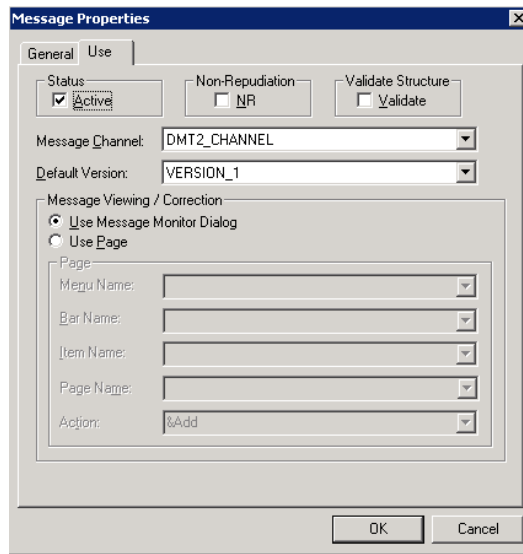
Activating Message Channels to Receive eGate Posts

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** dialog box appears.
- 4 Select the **Active** option and click **OK** (see [Figure 38 on page 61](#)).

Figure 38 Activating Message Channels



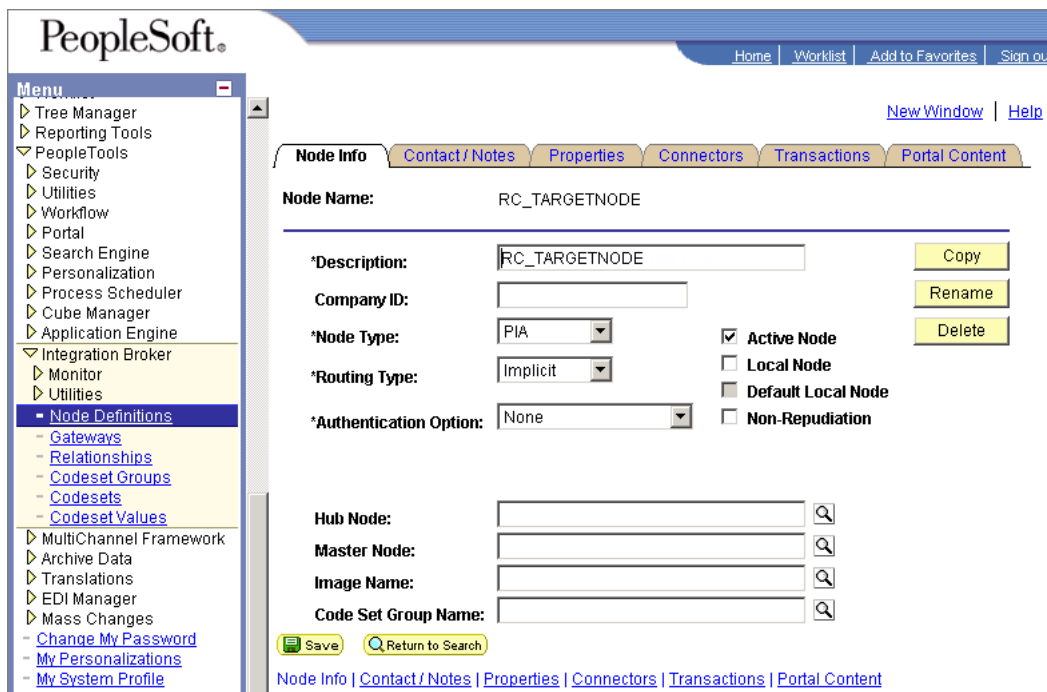
Creating Target Nodes to Post to eGate Using HTTP

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

To create target nodes to post to eGate using HTTP

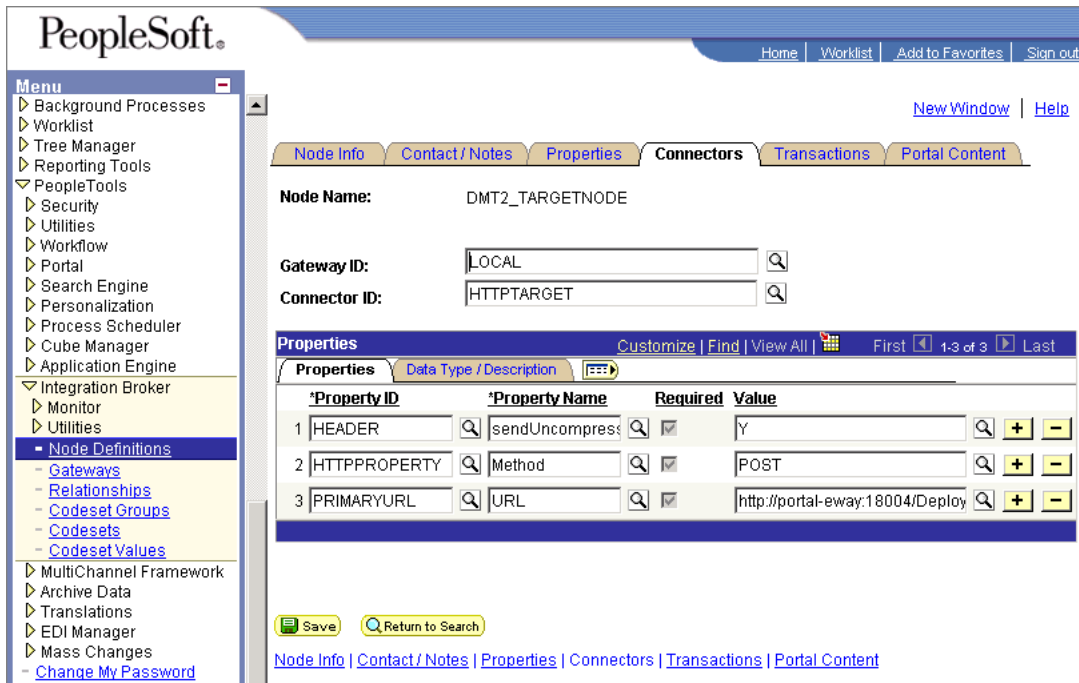
- 1 Follow the PeopleSoft documentation to create a new node using your own naming convention and configure it as displayed in Figure 39.

Figure 39 Creating Nodes to Post to eGate



- 2 Select the target connector ID, and from the Connectors tab, enter the values shown in Figure 40.

Figure 40 Configuring the Connector to Post to eGate using HTTP



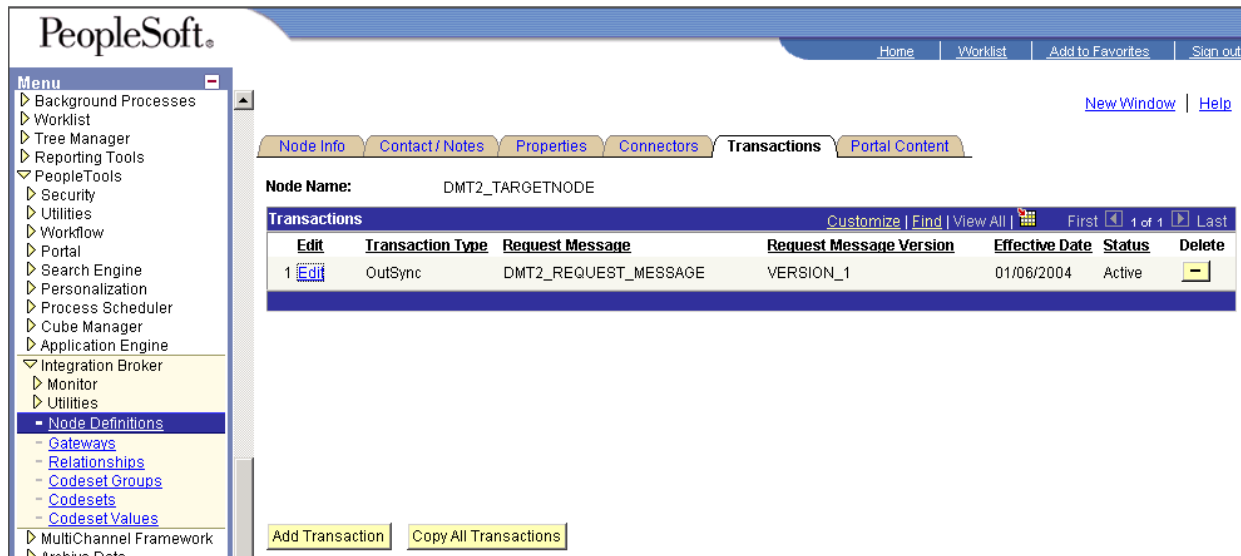
Use the following format for the **PRIMARYURL** property:

http://localhost:portno/Deployment1_servlet/PeopleSoftHTTPServerWay

This property must match the logical eWay Servlet-url property defined in the Enterprise Designer as described in [servlet-url](#) on page 39. The port number must match the default Web server port number specified in the Integration Server properties in the Enterprise Designer. The Deployment Profile is the name of the project's Deployment Profile defined in the Enterprise Designer. The Deployment Profile name must be followed by **_servlet**.

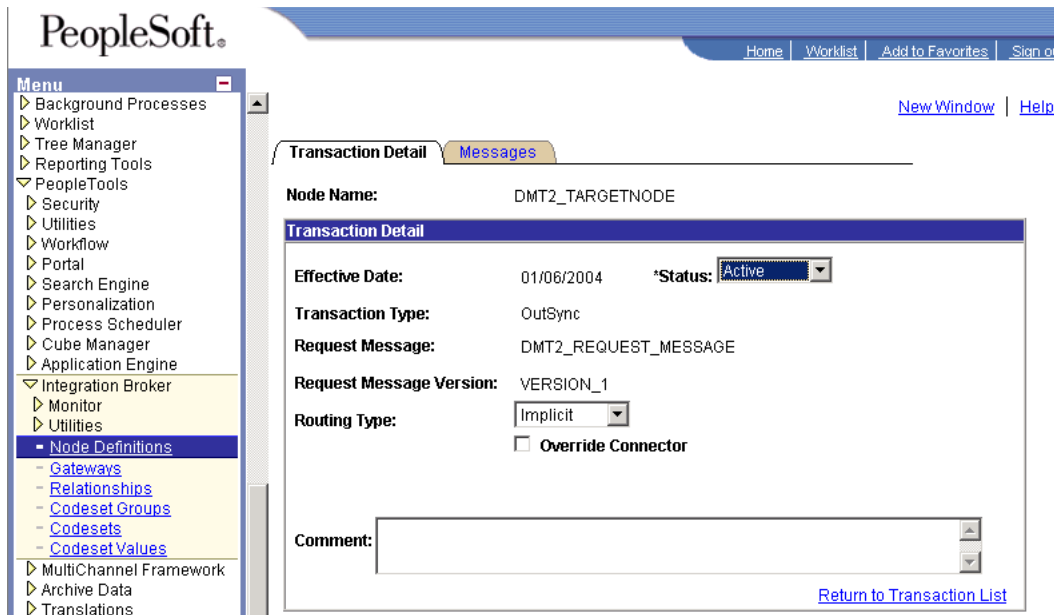
- 3 Configure the transaction as displayed in [Figure 41 on page 63](#)).

Figure 41 Configuring the Transaction to Post to eGate using HTTP



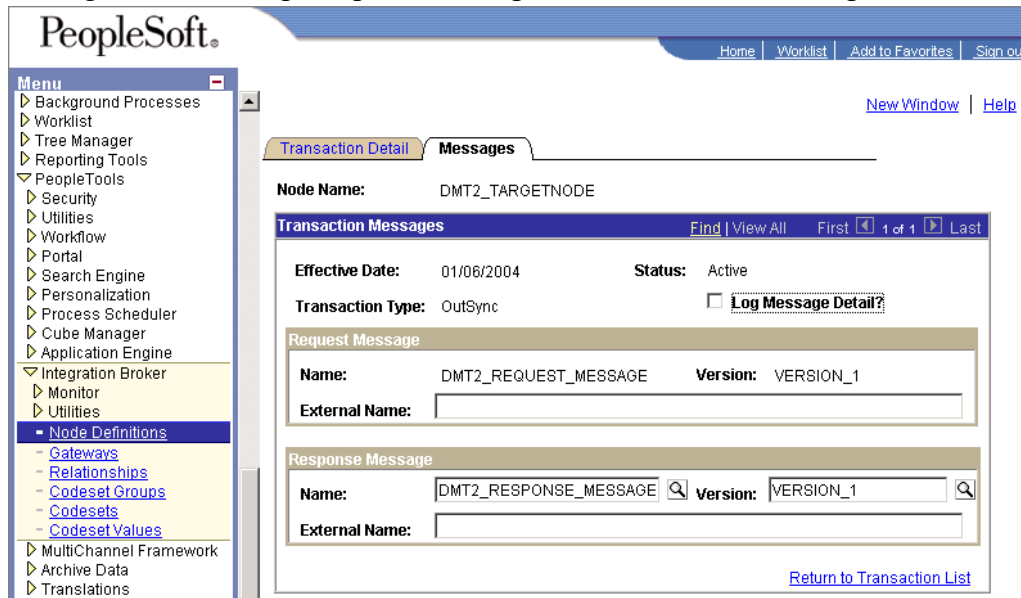
4 Click **Edit** (see Figure 42).

Figure 42 Configuring the Transaction Detail to Post to eGate Using HTTP



5 Click **Messages**. The **Messages** tab is displayed (see Figure 43 on page 64).

Figure 43 Configuring the Messages to Post to eGate Using HTTP



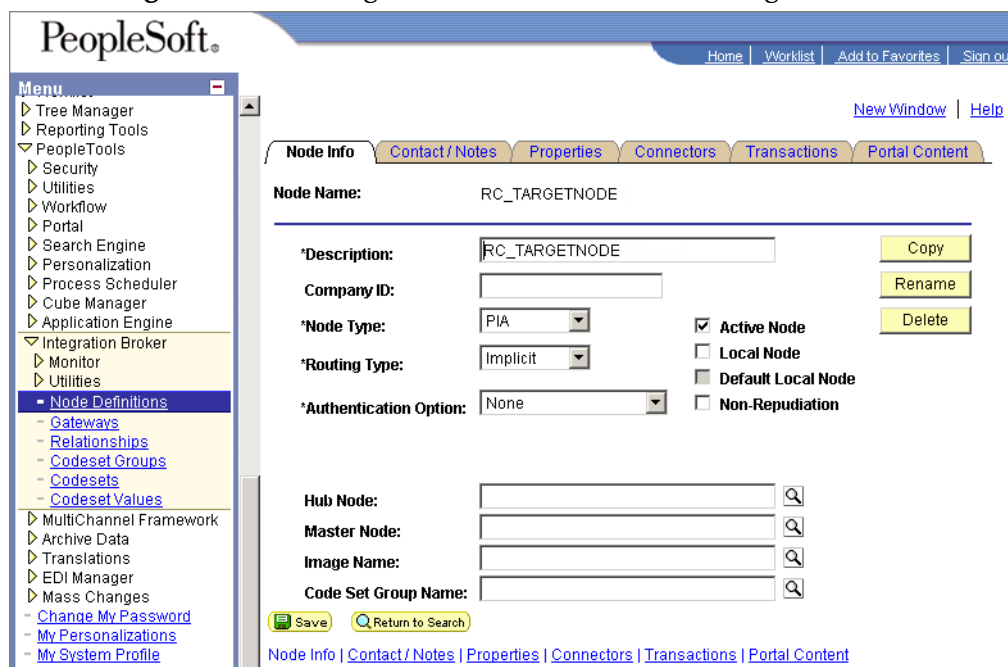
Creating Target Nodes to Post to eGate Using JMS

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

To create the target Node to post to eGate using JMS

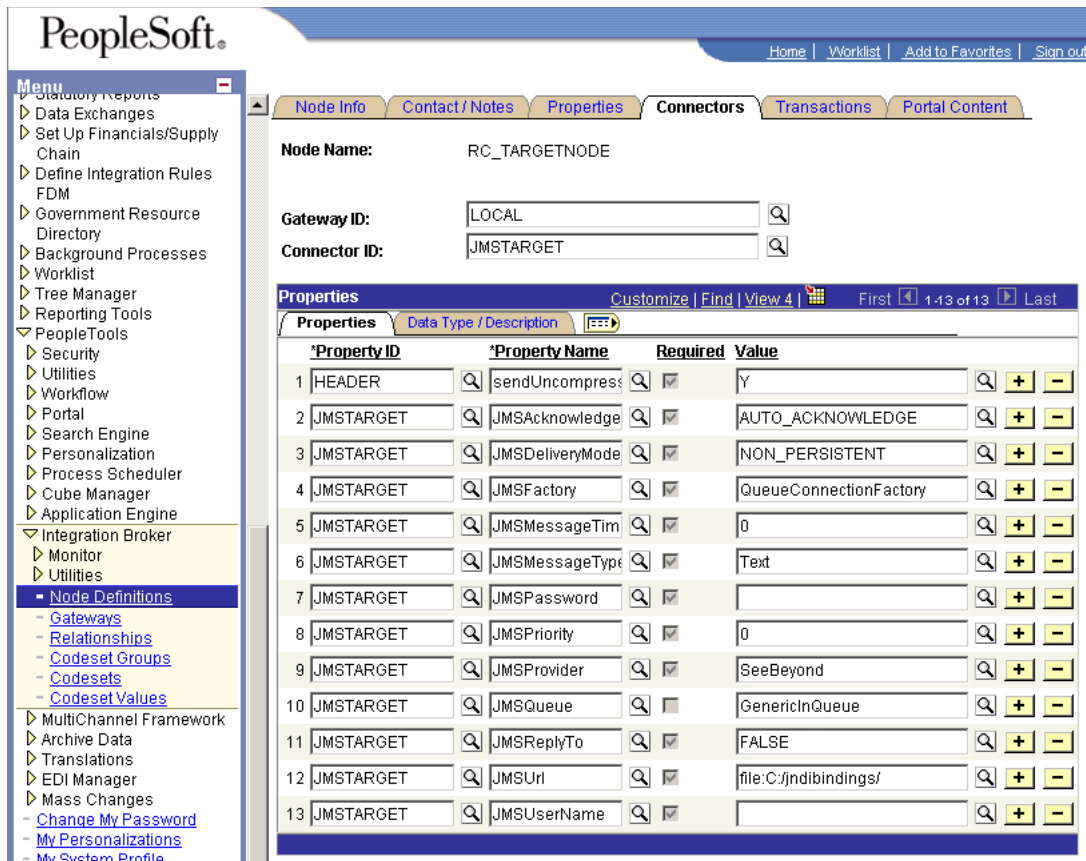
- 1 Follow the PeopleSoft documentation to create a new node using your own naming convention and configure it as displayed in Figure 44.

Figure 44 Creating Nodes to Post to eGate Using JMS



- 2 Select the target connector ID, and enter the values shown in Figure 45.

Figure 45 Configuring the Connectors to Post to eGate Using 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.

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

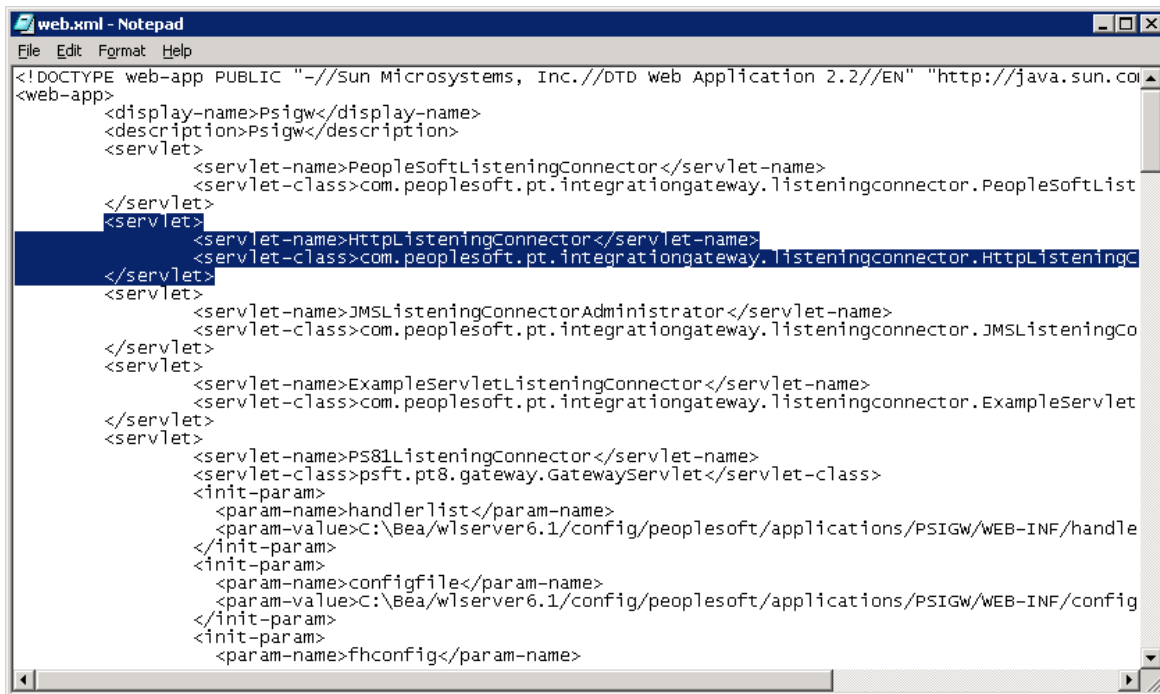
However, you must set the location for the HTTP listening connector in the Environment properties of the PeopleSoft eWay as described in [URL](#) on page 38. The routing of messages in the PeopleSoft server is decided by the content of the message in the header section.

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 [servlet-url](#) on page 39.

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 (see Figure 46).

Figure 46 Verifying the HTTP Listening Connector



5.2.3 Additional JMS Configurations

Configuring Inbound JMS Connections

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

To configure inbound JMS connections

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

bea\wlserver6.1\config\peoplesoft\applications\PSIGW\WEB-INF

where *bea* is the WebLogic installation directory.

- 2 Edit the file for the JMS queue listener properties as shown in Table 5.

You can configure multiple queues by using the convention **ig.jms.queue1**, **ig.jms.queue2**, **ig.jms.queue3**, and so on. Table 5 shows how the JMS listener is configured for the **GenericOutQueue**.

Table 5 JMS Queue Listener Properties

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

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 use the 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 the <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 Table 6.

You can configure multiple queues by using the convention **ig.topic1**, **ig.topic2**, **ig.topic3**, and so on. Table 6 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 "GenericOutTopic", must be same in the .bindings file. The java code to generate such entry in the .bindings is:</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:</p> <pre> ig.jms.JMSProvider.JNDIFactory.SeeBeyond=com. sun.jndi.fscontext.RefFSContextFactory </pre>

Table 6 JMS Topic Listener Properties

<p>ig.jms.Topic1.JMSFactory=TopicConnectionFactory</p>	<p>"TopicConnectionFactory" is the jndi name in the .bindings file. You should use the 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 using 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 83.

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, do the following:

- 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, use the following:

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

To stop the JMS listening connector, use the following:

- `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
```

5.2.4 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.

5.2.5 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.

5.3 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.

5.3.1 Creating the PeopleSoft Node to Receive eGate HTTP Posts

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

To create PeopleSoft nodes to receive eGate HTTP posts

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

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

For Apache:

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

For WebLogic:

http://PSFTHOST/servlets/gateway

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

The URL name displays in the **Message Node** dialog box similar to Figure 47.

Figure 47 PeopleSoft Node for Receiving eGate HTTP Posts

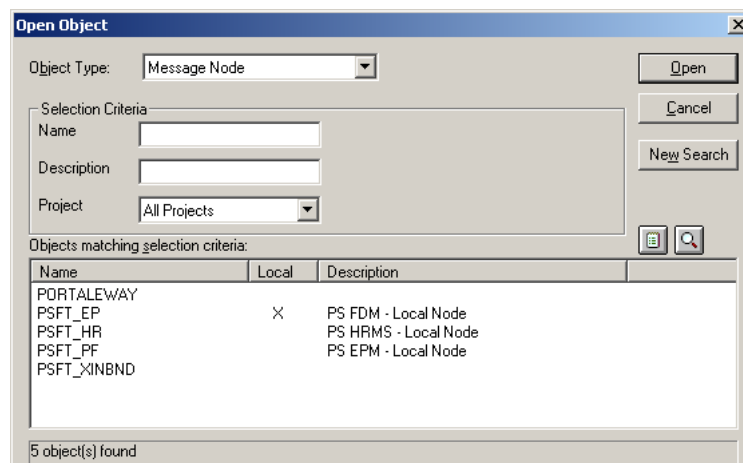


- 5 Click **Save As** on the **File** menu.
- 6 Enter the name of the message node.
- 7 From the File menu, click **Open**. The **Open Object** window appears (see Figure 48).
- 8 To verify that the message node is ready for use, select **Message Node** from the **Object Type** list and click **Open**

A list of all message nodes displays as shown in the Figure 48. 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 48 Viewing Message Nodes



5.3.2 Activating the Message Definition to Receive eGate Posts

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

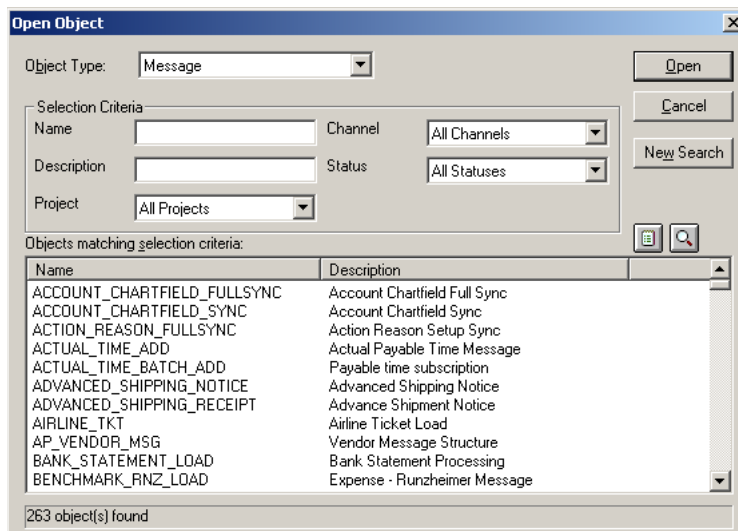
*Note: For purposes of this publication the **ADVANCED_SHIPPING_RECEIPT** Message Definition is activated for publish / subscribe.*

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

To activate the message definition to receive eGate posts

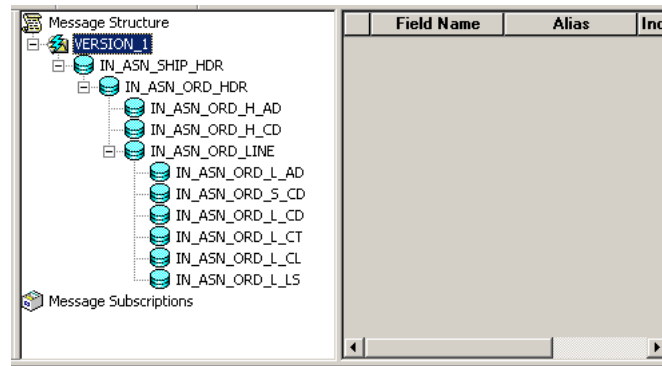
- 1 In PeopleTools Application Designer, click **Open** on **File** menu. The **Open Object** dialog box appears.
- 2 Click **Message** from the **Object Type** list. This displays all available PeopleSoft message definitions (see Figure 49).

Figure 49 Viewing Available Message Destinations



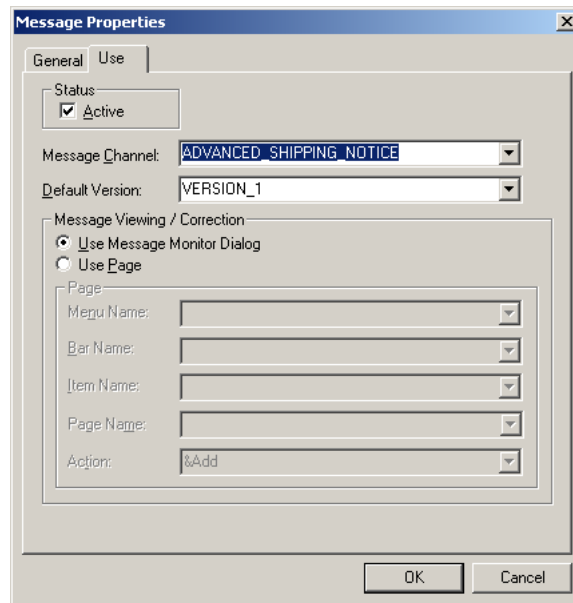
- 3 Double-click the message definition. The **Message** window appears, displaying the record details of the chosen message structure as displayed in [Figure 50 on page 75](#).

Figure 50 Message Structure Details



- 4 Click **Object Properties** on the **File** menu,. The **Message Properties** dialog box appears.
- 5 Click the **Use** tab.
- 6 Select the **Active** option as displayed in Figure 51, and click **OK**.

Figure 51 Activating the Message Definition to Receive eGate Posts



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

5.3.3 Defining Message Channel Routing Rules

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

Configuring the Message Channel

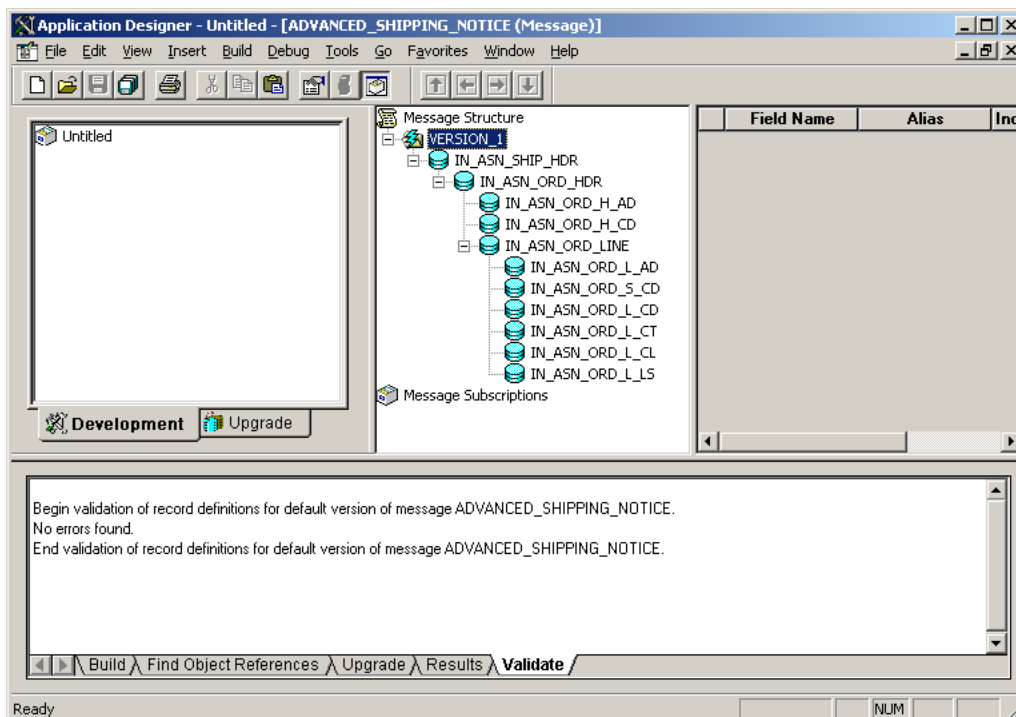
Each message channel logically groups messages together. For purposes of the procedure below, the **ADVANCED_SHIPPING_RECEIPT** message is grouped into the **ADVANCED_SHIPPING_NOTICE** message channel.

To configure the message channel

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

The message nodes are now defined on the **Routing Rules** tab of the **Message Channel** window as shown in Figure 52.

Figure 52 Viewing the Message Nodes



Defining Routing Directions for Message Nodes

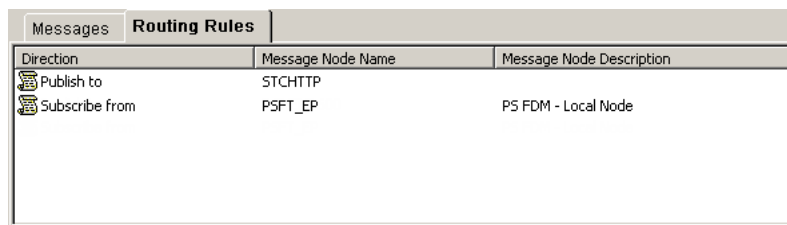
Routing directions provide you with the ability to assign destinations (Publish To/Subscribe From) to a message node. This section describes the procedure for defining the routing directions for the eWay message node, **Subscribe From**.

To define the routing directions

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

The **Routing Rules** tab now shows that the eWay message node is subscribing to messages from **PSFT_EP** and is publishing to **STCHTTP** (see Figure 53).

Figure 53 Viewing Routing Directions



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.

5.3.4 Adding the PeopleSoft Subscription Handler

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

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

To add the PeopleSoft handler directory

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

For Apache:

<http://PSFTHOST/servlets/psft.pt8config.ConfigServlet>

For WebLogic:

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

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

The **Handler Directory** page appears (see Figure 54).

Figure 54 Adding the PeopleSoft Handler Directory

Handler	Status	Load	Unload	Configure	Delete
Add handler					

- 2 Click **Add handler**. The **Add Handler** page appears.
- 3 Enter the PeopleSoft handler class as shown in Figure 55 and click **Save**.
psft.pt8.psfthandler.PeopleSoftHandler

The **Handler Directory** page displays the new handler as shown in Figure 55.

Figure 55 Viewing the New Handler

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

- 4 Click **Load** to load the PeopleSoft handler class just added. The status changes to **Loaded successfully**.
- 5 Click **Configure** to configure the handler. The **Manage Lookup Table** page for the PeopleSoft handler appears (see Figure 56).

Figure 56 Managing the Lookup Table

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

- 6 Click **Add a new node** to associate the node with this subscription handler. The **Add an address** window appears (see Figure 57).

Figure 57 Adding an Address

Node	Machine address:port#	Tools Version	OPRID	Password
PSFT_EP e.g., EGEE_REMOTE	//solutions9:9000 e.g., //AKTT9000...	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 in Figure 58.

Figure 58 Viewing the New Node

Manage Lookup Table					
Node	Machine address:port#	Tools Version	OPRID	Actions	
PSFT_EP	//solutions9.9000	8.13	VP1	<input type="button" value="Edit"/>	<input type="button" value="Delete"/> <input type="button" value="Add"/>
<input type="button" value="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.

5.3.5 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 79
- [Activating the Message Definition for Subscription](#) on page 79
- [Defining the Message Channel Routing Rules](#) on page 79
- [Adding the HTTP publication handler](#) on page 80

5.3.6 Creating an HTTP eWay Message node

Refer to [Creating the PeopleSoft Node to Receive eGate HTTP Posts](#) on page 72 to create a message node associated with the PeopleSoft eWay. A message node called STCHTTP is used as an example.

5.3.7 Activating the Message Definition for Subscription

Refer to [Activating the Message Definition to Receive eGate Posts](#) on page 74 to activate the message to be published to the PeopleSoft eWay. In this case, activate the PO-EXPECTED_RECEIPT_SHIPTO message.

5.3.8 Defining the Message Channel Routing Rules

Refer to [Defining Message Channel Routing Rules](#) on page 75 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).

5.3.9 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`

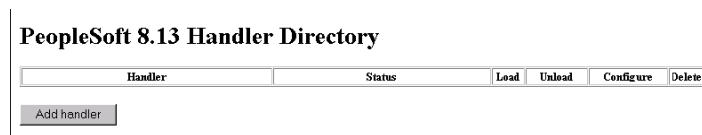
For WebLogic:

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

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

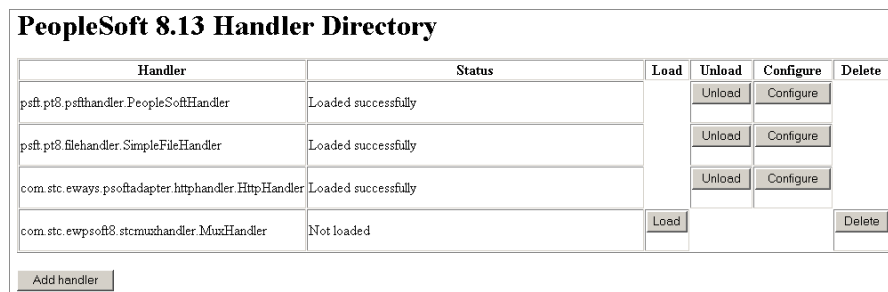
The **Handler Directory** page appears (see Figure 59).

Figure 59 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.ewpsoft8.stchttphandler.HTTPHandler`
- 4 Click **Save**. The **Handler Directory** page displays the new handler (see Figure 60).

Figure 60 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 appears.
- 7 Click **Add an HTTP node** to associate a node with this subscription handler.

- 8 Enter the values for the new node associated with the subscription handler. Scroll to the right to access additional columns.
- 9 In the **Include Headers** column, indicate whether or not you want header information to be retained in the received messages. All values are mandatory.
 - A Selecting the check box preserves the header information.
 - B Deselecting the check box strips the header information.
- 10 Click **Save**. This displays the **STCHTTP** node entries. If the entries are correct, the Application Messaging Gateway now can receive XML messages from PeopleSoft and publish the XML messages to the PeopleSoft eWay (in HTTP mode).

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

Working with PeopleSoft Sample Projects

The PeopleSoft eWay comes with eight sample projects. These projects can be imported into Enterprise Designer and used to quickly learn how to set up PeopleSoft eWays, Environments, and Deployment Profiles for an ICAN project.

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

This chapter describes how to import and use the sample projects.

What's in This Chapter

- [About the Sample Projects](#) on page 82
- [Locating the Sample Projects](#) on page 83
- [Importing a Sample Project](#) on page 83
- [PS_HTTP_BPEL Sample Project](#) on page 85
- [PS_JMS_BPEL Sample Project](#) on page 88
- [PS_HTTP_JCE Sample Project](#) on page 91
- [PS_JMS_JCE Sample Project](#) on page 95
- [PS_HTTP_JCE_InOut Sample Project](#) on page 99

6.1 About the Sample Projects

The PeopleSoft eWay includes five sample projects that demonstrate how PeopleSoft eWay projects are created. The following projects are included:

- **PS_HTTP_JCE:** demonstrates eGate communicating with PeopleSoft using HTTP.
- **PS_HTTP_BPEL:** demonstrates eInsight/eGate communicating with PeopleSoft using HTTP.
- **PS_JMS_JCE:** demonstrates eGate communicating with PeopleSoft using JMS.
- **PS_JMS_BPEL:** demonstrates eInsight/eGate communicating with PeopleSoft using JMS.
- **PS_HTTP_JCE_InOut:** demonstrates eGate communicating with PeopleSoft using HTTP.

The above Samples are provided to be used with **PeopleTools version 8.42**. In addition, three samples are also included for **PeopleTools 8.13**.

- **PS813_JCE**: which is similar to PS_JMS_JCE for 8.42.
- **PS813_BPEL**: which is similar to PS_JMS_BPEL for 8.42.
- **PS813_JCE_HTTP_InOut**: Which is similar to PS_HTTP_JCE_InOut for 8.42.

Sample projects, once they are imported, are nearly complete. To complete the sample project see [Completing a Project](#) on page 102.

6.2 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 directions, refer to [Installing the PeopleSoft eWay](#) on page 14.

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.

6.3 Importing a Sample Project

To import a sample eWay project to the Enterprise Designer do the following:

- 1 The sample files are uploaded with the eWay's documentation .sar file and downloaded from the Enterprise Manager's Documentation tab. Extract the samples from the Enterprise Manager to a local file.

This extracts the following files:

- 842 (folder)
 - ♦ **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
 - ♦ **PS_HTTP_JCE_InOut.zip** for the PS_HTTP_JCE_InOut project
 - ♦ **DTD_and_Data_Files.zip** (DTDs and input data files)
 - ♦ **PSFTBindJMSFactory.java** (the JNDI bindings generation application)
- 813 (folder)
 - ♦ **PS_813_BPEL.zip** for the PS_JMS_BPEL project
 - ♦ **PS813_JCE.zip** for the PS_JMS_JCE project

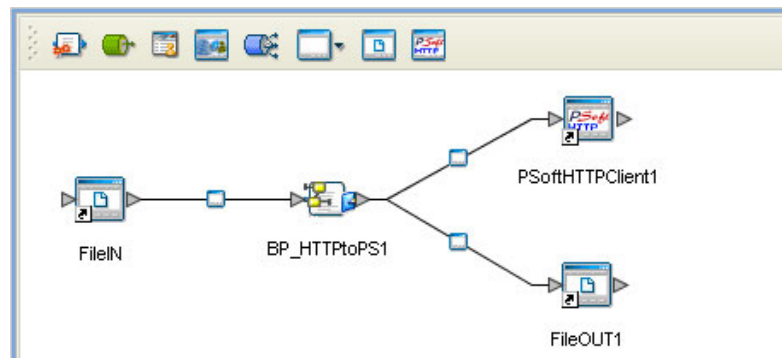
- ♦ **PS813_JCE_HTTP_InOut.zip**
 - ♦ **PSHTTP_813.~in** (8.13 sample input data file)
- 2 Save any unsaved work before importing a sample project.
 - 3 From the Enterprise Designer's Project Explorer pane, right-click the Repository and select **Import** from the shortcut menu. The **Import Manager** appears.
 - 4 Browse to the directory that contains the sample project zip file. Select the sample file (for example, **PS_JMS_JCE.zip**) and click **Import**. After the sample project is successfully imported, click **Close**.

6.4 PS_HTTP_BPEL Sample Project

The eInsight HTTP sample project for PeopleTools 8.42, **PS_HTTP_BPEL**, demonstrates how eInsight/eGate communicates with PeopleSoft using HTTP. After you import the project you can use this section to find out more about how the sample is constructed.

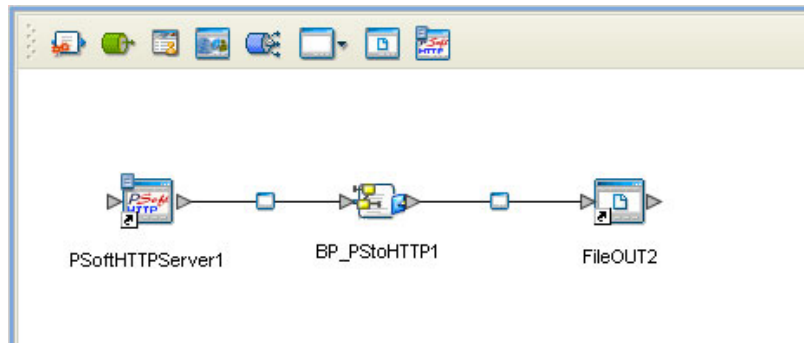
The eInsight HTTP sample project contains an outbound and an inbound data flow. The outbound data flow is from eGate to PeopleSoft; the inbound flow is from PeopleSoft to eGate. Figure 61 shows the outbound data flow in the Connectivity Map.

Figure 61 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_HTTPtoPS1** receives the input data, and publishes the data to the external PeopleSoft server using HTTP. The response from the PeopleSoft server is written to an external file using the File eWay.

Figure 62 eInsight HTTP Sample Project—Inbound Data Flow



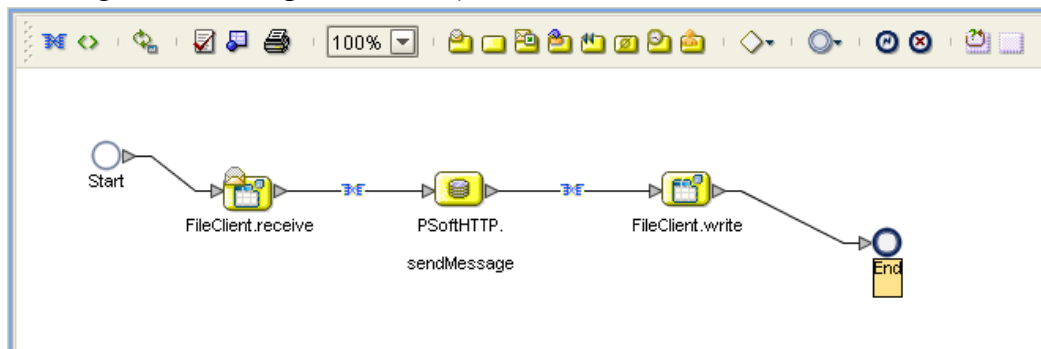
In the inbound data flow, displayed in Figure 62, the Business Process, **BP_PStoHTTP1**, receives a message from the PeopleSoft server using HTTP and publishes the contents of the message to an external file using the File eWay.

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

6.4.1 Outbound Business Process: eInsight to PeopleSoft Using HTTP

Figure 63 shows the outbound Business Process of the eInsight HTTP sample project.

Figure 63 eInsight HTTP Project—Outbound Business Process



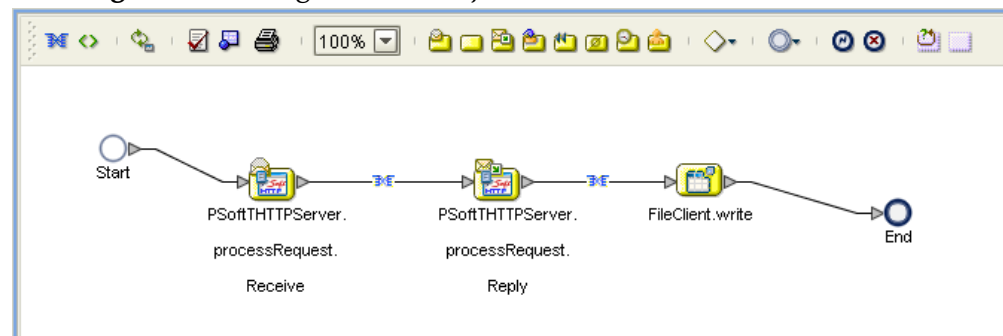
The business logic of the outbound Business Process **BP_HTTP_PS** performs the following:

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

6.4.2 Inbound Business Process: PeopleSoft to eInsight Using HTTP

Figure 64 shows the inbound Business Process of the eInsight HTTP sample project.

Figure 64 eInsight HTTP Project—Inbound Business Process



The business logic of the inbound Business Process **BP_PStoHTTP1** performs the following:

- 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.

6.4.3 Configuring the Project for Your System

After this sample is imported, and the Environment has been created (see [Creating an Environment](#) on page 102), the properties must be configured for your system. To do this do the following:

- 1 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 70.
- 2 From the PeopleSoft HTTP Client eWay Environment Properties Editor, Expand the **PeopleSoft Settings, 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 58.

- 3 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 Using JMS](#) on page 64 and [Configuring Inbound JMS Connections](#) on page 67.
- 4 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 70.

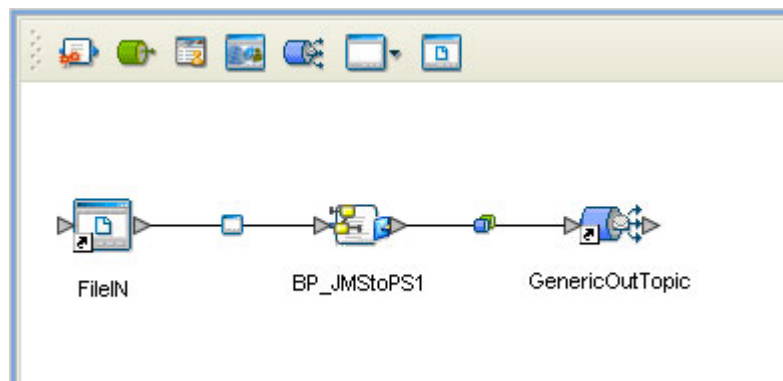
After the properties have been set for your specific system, create the Deployment Profile (see [Creating and Activating the Deployment Profile](#) on page 103).

6.5 PS_JMS_BPEL Sample Project

The eInsight JMS sample project for PeopleTools 8.42, **PS_JMS_BPEL**, demonstrates eInsight/eGate communicating with PeopleSoft using JMS. After you import the project, you can use this section to find out more about how the sample is constructed.

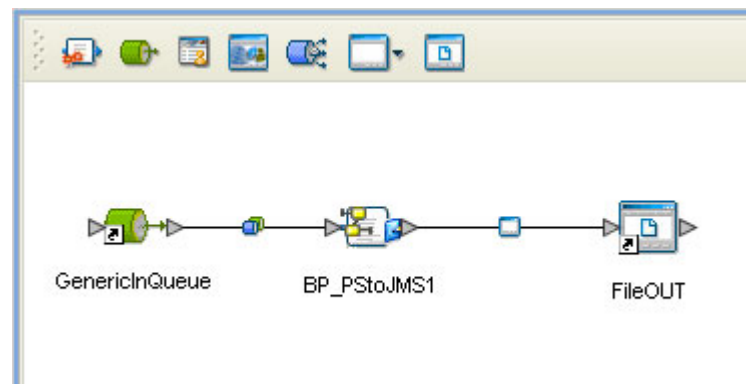
The eInsight JMS sample project contains an outbound and an inbound data flow. The outbound data flow is from eGate to the PeopleSoft server; the inbound flow is from the PeopleSoft server to eGate. Figure 65 below shows the outbound data flow in the Connectivity Map.

Figure 65 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**, receives the input data, unmarshals it, and publishes it to the PeopleSoft server using the outgoing queue, **GenericOutTopic**.

Figure 66 eInsight JMS Sample Project—Inbound



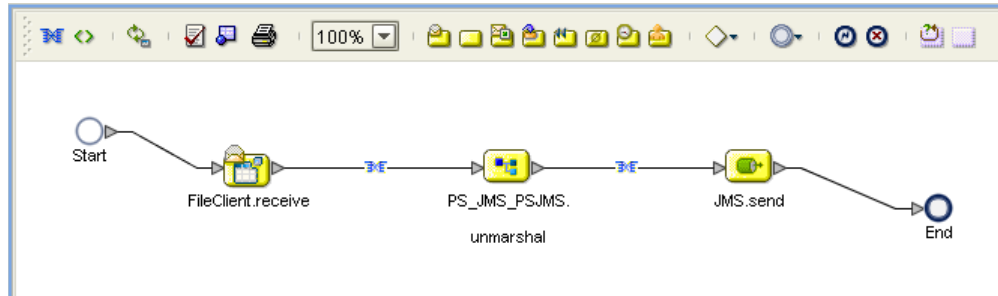
In the inbound data flow displayed in Figure 66, the Business Process **BP_PStoJMS1** receives a message from the PeopleSoft server from the incoming queue, **GenericInQueue**. The Business Process then publishes the message to an external directory using the outbound File eWay.

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

6.5.1 Outbound Business Process: eInsight to PeopleSoft Using JMS

Figure 67 shows the outbound Business Process of the eInsight JMS sample project.

Figure 67 eInsight JMS Project—Outbound Business Process



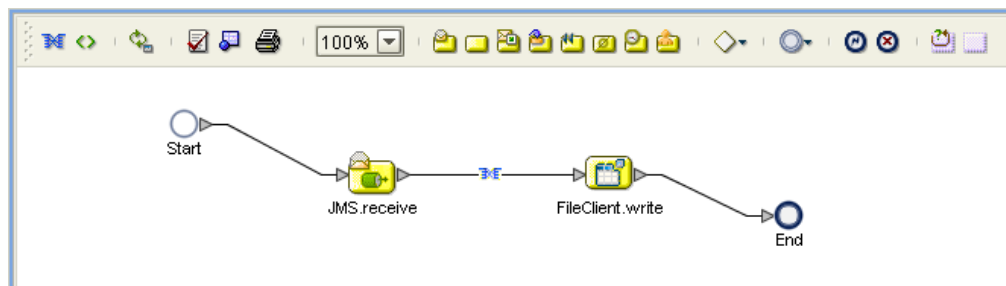
The steps below show the business logic of the Outbound Business Process **BP_JMStoPS**.

- 1 The **FileClient.receive** operation receives the 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 publishes the data to the PeopleSoft server using the outgoing queue, **GenericOutTopic**.

6.5.2 Inbound Business Process: PeopleSoft to eInsight Using JMS

Figure 68 shows the Inbound Business Process of the eInsight JMS sample project.

Figure 68 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 using the incoming queue, **GenericInQueue**.
- 2 The **FileClient.write** operation publishes the message to an external directory.

6.5.3 Configuring the Project for Your System

After this sample is imported, and the Environment has been created (see [Creating an Environment](#) on page 102), the properties must be configured for your system. To do this do the following:

- 1 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 70.
- 2 From the PeopleSoft HTTP Client eWay Environment Properties Editor, Expand the **PeopleSoft Settings, 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 58.

- 3 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 Using JMS](#) on page 64 and [Configuring Inbound JMS Connections](#) on page 67.
- 4 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 70.

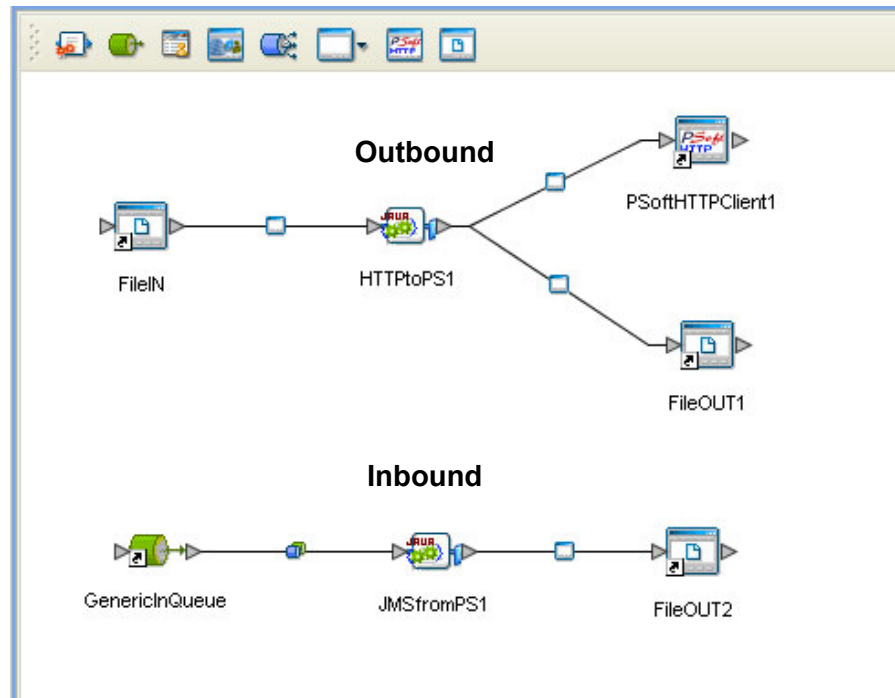
After the properties have been set for your specific system, create the Deployment Profile (see [Creating and Activating the Deployment Profile](#) on page 103).

6.6 PS_HTTP_JCE Sample Project

The eGate HTTP sample project for PeopleTools 8.42, **PS_HTTP_JCE**, demonstrates how eGate communicates with PeopleSoft using HTTP. After you import the project as described in **Importing a Sample Project** on page 83, use this section to find out more about how the sample is constructed.

Figure 69 shows the Connectivity Map for the eGate HTTP sample project.

Figure 69 eGate HTTP Sample Project—Connectivity Map



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

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

In the outbound data flow displayed in Figure 69, the Collaboration **JMSfromPS** receives a message from the PeopleSoft server by way of the incoming queue, **GenericInQueue**. The Business Process then publishes the message to an external directory using the outbound File eWay.

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

6.6.1 Inbound Collaboration: eGate to PeopleSoft Using HTTP

The steps below show the business logic of the inbound Collaboration **HTTPtoPS** displayed in Figure 70.

Figure 70 HTTPtoPS Collaboration— Outbound Business Rules

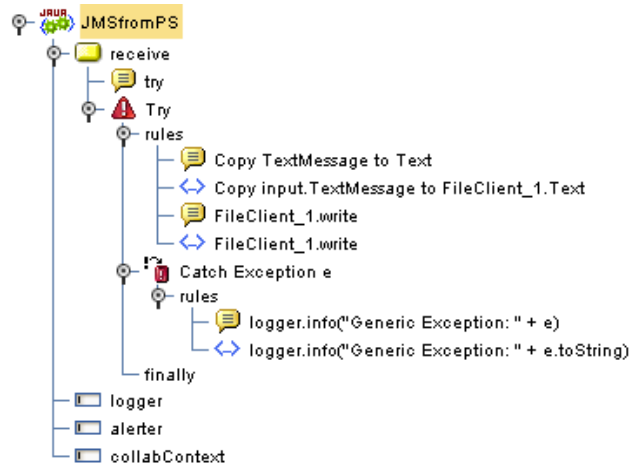


- 1 The Collaboration defines a local variable, *outstring*, and initialize it to null.
- 2 The Collaboration copies the text under the input node to the *XMLmessage* node under the *PSoftHttpAppMsgRequestV842* node.
- 3 The Collaboration calls the *sendMessage* method to post the message to PeopleSoft.
- 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*.

6.6.2 Outbound Collaboration: PeopleSoft to eGate Using JMS

The steps below show the business logic of the outbound **JMSfromPS** Collaboration displayed in Figure 71.

Figure 71 JMSfromPS Collaboration—Inbound Business Rules



- 1 The Collaboration receives a message from the PeopleSoft server by way of the JMS incoming queue, **GenericInQueue**.
- 2 The Collaboration calls the *sendMessage* method to write the message to an external directory using the outbound File eWay.

6.6.3 Configuring the Project for Your System

After this sample is imported, and the Environment has been created (see [Creating an Environment](#) on page 102), the properties must be configured for your system. To do this do the following:

- 1 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 [Use the following format for the PRIMARYURL property](#): on page 62.
- 2 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 70.
- 3 From the PeopleSoft HTTP Client eWay Environment Properties Editor, Expand the **PeopleSoft Settings, 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 58.

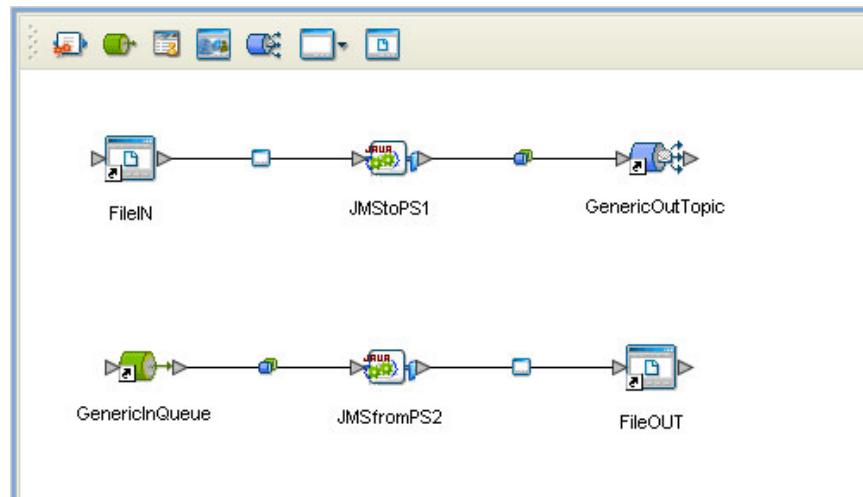
- 4 Because JMS is used in this project, you must configure eGate and the PeopleSoft for JMS queues with the same exact name as used in the Connectivity Map. This sample uses the name *GenericInQueue* and *GenericOutQueue*. You must configure PeopleSoft to use these names for the target and source nodes as described in [Creating Target Nodes to Post to eGate Using JMS](#) on page 64 and [Configuring Inbound JMS Connections](#) on page 67.
- 5 You must also edit, 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 70.
- 6 After the properties have been set for your specific system, create the Deployment Profile (see [Creating and Activating the Deployment Profile](#) on page 103).

6.7 PS_JMS_JCE Sample Project

The eGate JMS sample project for PeopleTools 8.42, **PS_JMS_JCE**, demonstrates how eGate communicates with PeopleSoft using JMS. After you import the project as described in **Importing a Sample Project** on page 83, you can use this section to find out more about how the sample is constructed.

Figure 72 shows the Connectivity Map for the eGate JMS sample project.

Figure 72 eGate JMS Sample Project—Connectivity Map



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

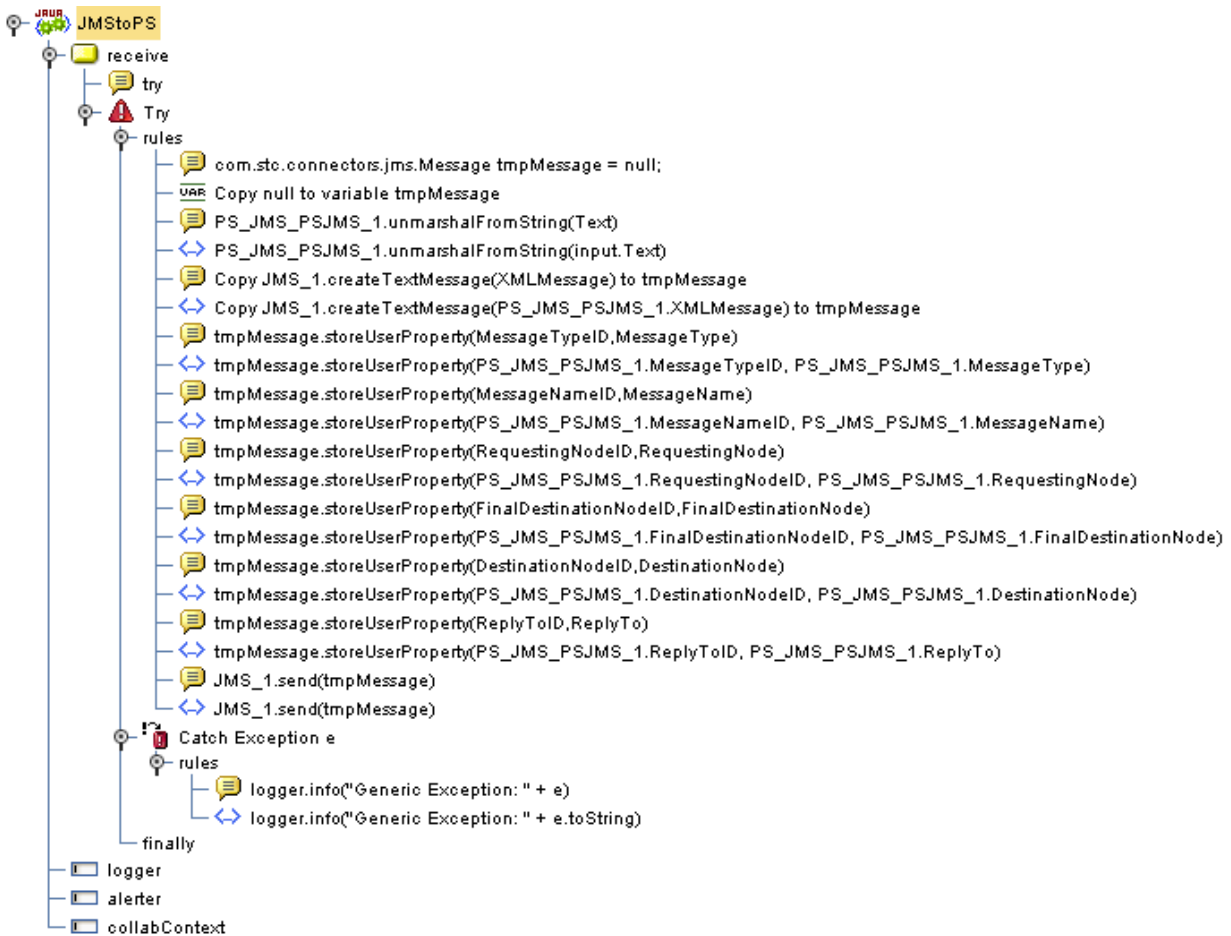
For the inbound data flow, the inbound File eWay receives data from the file **PSJMS_JCE.in** in the **c:\data\input\PSoft** folder. The outbound Collaboration gets the input data, parses it, and posts it to the JMS outgoing queue. The inbound Collaboration receives a message from the PeopleSoft server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

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

6.7.1 Outbound Collaboration: eGate to PeopleSoft Using JMS

The following steps show the business logic of the inbound JMSStoPS Collaboration displayed in **Figure 73 on page 96**.

Figure 73 JMStoPS Collaboration—Business Rules

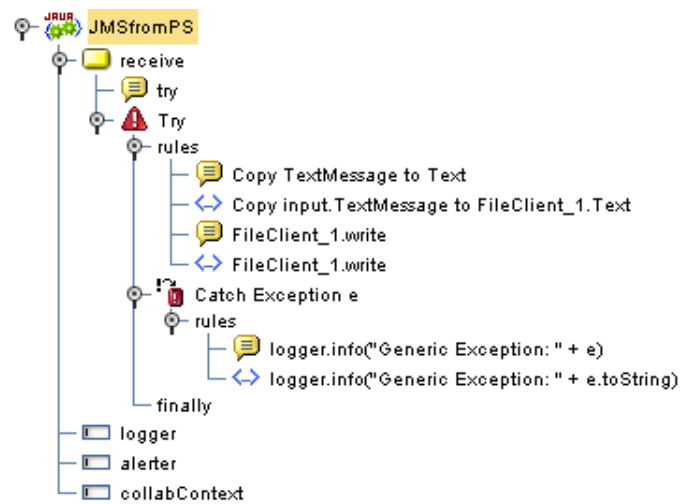


- 1 The Collaboration unmarshals the input.
- 2 The Collaboration maps the data to PeopleSoft fields using the DTD OTD, provided with the sample project.
- 3 The Collaboration uses the *sendMessage* method to send the message to the JMS outgoing queue, **GenericOutQueue**.

6.7.2 Inbound Collaboration: PeopleSoft to eGate using JMS

The following steps show the business logic of the inbound **JMSfromPS** Collaboration displayed in [Figure 74 on page 97](#).

Figure 74 JMSfromPS Collaboration—Business Rules



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

6.7.3 Configuring the Project for Your System

After this sample is imported, and the Environment has been created (see [Creating an Environment](#) on page 102), the properties must be configured for your system. To do this do the following:

- 1 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 [Use the following format for the PRIMARYURL property:](#) on page 62.
- 2 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 70.
- 3 From the PeopleSoft HTTP Client eWay Environment Properties Editor, Expand the **PeopleSoft Settings, 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 58.

- 4 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 Using JMS](#) on page 64 and [Configuring Inbound JMS Connections](#) on page 67.

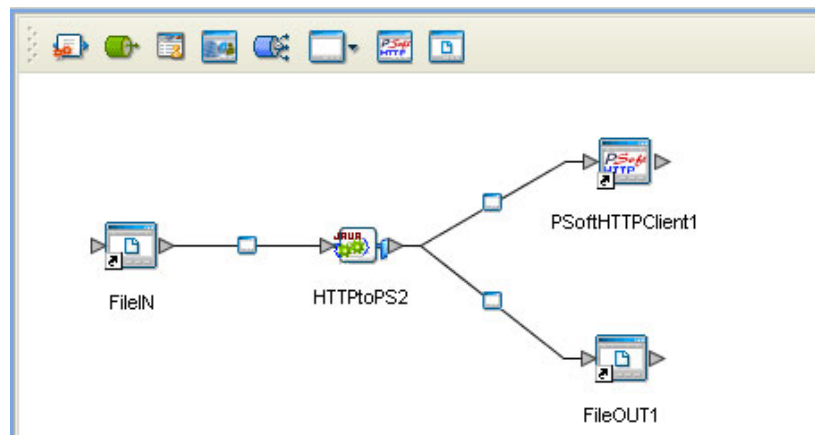
- 5 You must also edit, recompiled, and run the JNDI generation application. The generated **.bindings** file must be copied to the recognizable JNDI binding directory for PeopleSoft. For information, refer to [Creating the JNDI Bindings File for JMS Posting](#) on page 70.
- 6 After the properties have been set for your specific system, create the Deployment Profile (see [Creating and Activating the Deployment Profile](#) on page 103).

6.8 PS_HTTP_JCE_InOut Sample Project

The eGate HTTP sample project for PeopleTools 8.42, **PS_HTTP_JCE_InOut**, demonstrates how eGate communicates with PeopleSoft using HTTP. After you import the project you can use this section to find out more about how the sample is constructed.

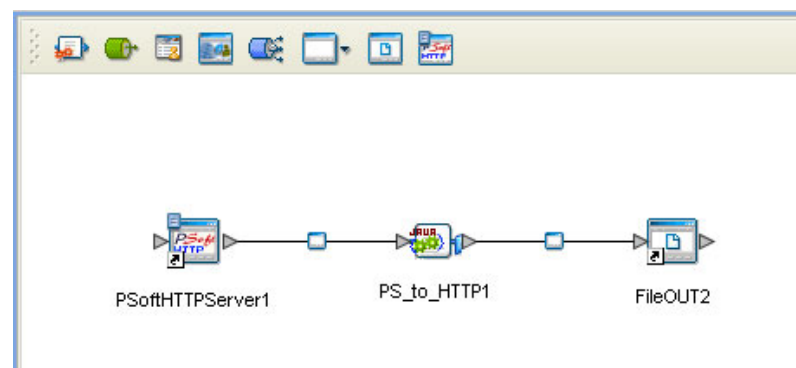
The eGate HTTP sample project contains an outbound and an inbound data flow. The outbound data flow is from eGate to PeopleSoft; the inbound flow is from PeopleSoft to eGate. Figure 75 shows the outbound data flow in the Connectivity Map.

Figure 75 eGate HTTP Sample Project – Outbound Data Flow



In this data flow, the File eWay receives data from an external directory and publishes the data to the **HTTPtoPS2** Collaboration. The HTTPtoPS2 Collaboration publishes the data to the external PeopleSoft server using HTTP. The response from the PeopleSoft server is written to an external file using the File eWay.

Figure 76 eGate HTTP Sample Project – Inbound Data Flow



For the inbound data flow, as displayed in Figure 76, the Collaboration, **PS_to_HTTP1**, receives a message from the PeopleSoft server using HTTP and publishes the contents of the message to an external file using the File eWay.

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

6.8.1 Outbound Collaboration: eGate to PeopleSoft Using HTTP

Figure 77 shows the outbound Collaboration's Business Rules for the eGate HTTP sample project.

Figure 77 eGate HTTP Project – Outbound Collaboration



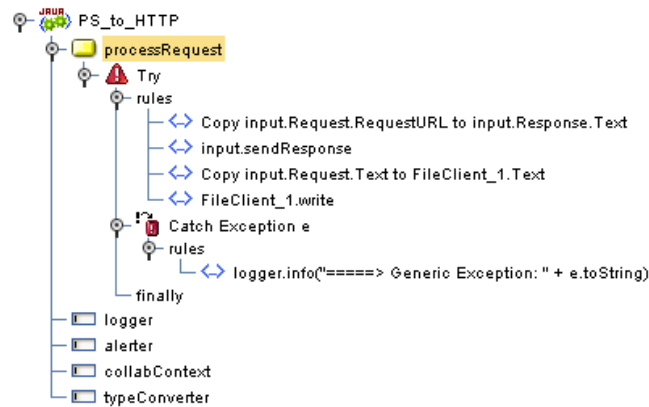
The Business Rules of the outbound Collaborations **HTTPtoPS2** performs the following:

- 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*.

6.8.2 Inbound Collaboration: PeopleSoft to eGate Using HTTP

Figure 78 on page 101 shows the inbound Business Rules of the eGate HTTP sample Project.

Figure 78 eGate to HTTP Project—Inbound Collaboration



The Business Rules of the inbound Collaboration PS_to_HTTP preforms the following:

- 1 The Collaboration receives a message from the PeopleSoft server.
- 2 The Collaboration calls the *sendResponse* method to send a reply back to the PeopleSoft server.
- 3 The Collaboration writes the message data to an external directory using the outbound File eWay.

6.8.3 Configuring the Project for Your System

After this sample is imported, and the Environment has been created (see [Creating an Environment](#) on page 102), the properties must be configured for your system. To do this do the following:

From the PeopleSoft HTTP Client eWay Environment Properties Editor, Expand the **PeopleSoft Settings, 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 58.

After the properties have been set for your specific system, create the Deployment Profile (see [Creating and Activating the Deployment Profile](#) on page 103).

6.9 Completing a Project

Before an imported sample project can be run you must do the following:

- Create an **Environment** (see [Creating an Environment](#) on page 102).
- Configure the eWays for your system (see [Configuring the eWay Properties](#) on page 17) making sure that any required inbound or outbound directories have been created.
- Create a **Deployment Profile** (see [Creating and Activating the Deployment Profile](#) on page 103).

6.9.1. Creating an Environment

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

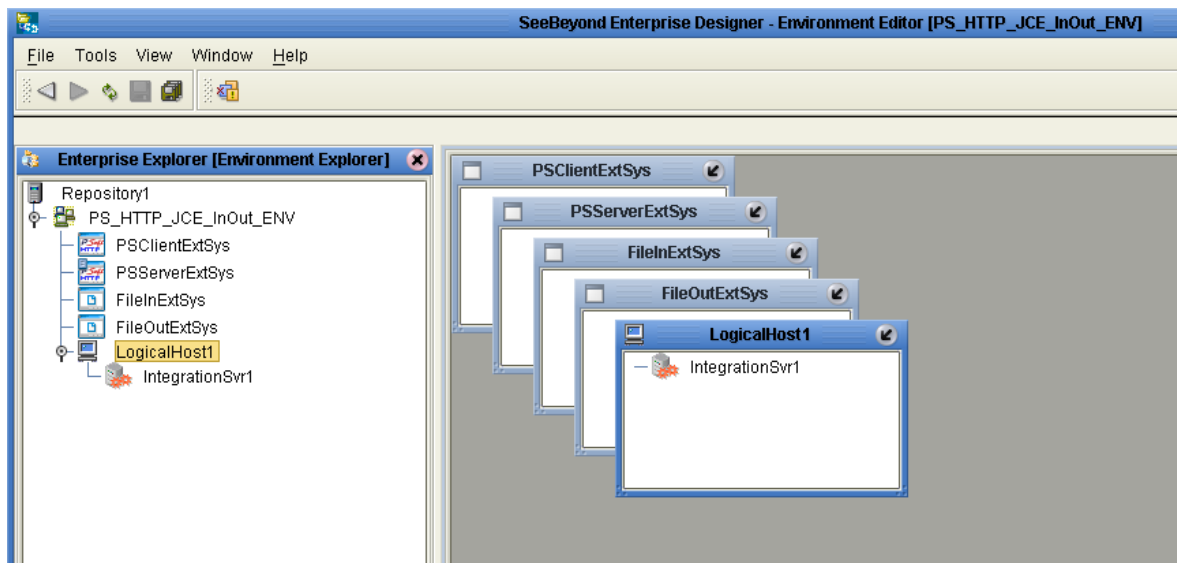
The following example provides step by step directions for creating the Environment for the **PS_HTTP_JCE_InOut** sample project.

- 1 From the Enterprise Designer's Enterprise Explorer, click the **Environment Explorer** tab.
- 2 Right-click the Repository and select **New Environment**. A new Environment is added to the Environment Explorer tree.
- 3 Rename the new Environment (for this example, **PS_HTTP_JCE_InOut_Env**).
- 4 Right-click **PS_HTTP_JCE_InOut_Env** and select **New PeopleSoft HTTP Client External System**. Name the External System **PSClientExtSys**. The **PSClientExtSys** window is added to the Environment Editor.
- 5 Right-click **PS_HTTP_JCE_InOut_Env** and select **New PeopleSoft HTTP Server External System**. Name the External System **PSServerExtSys**. The **PSServerExtSys** window is added to the Environment Editor.
- 6 Right-click **PS_HTTP_JCE_InOut_Env** and select **New File External System**. From the **Create an External System** dialog box, enter **FileInExtSys** as the name and select **Inbound File eWay** as the type. Click **OK**. **FileInExtSys** is added to the Environment Editor.
- 7 Right-click **PS_HTTP_JCE_InOut_Env** and select **New File External System** again. Enter **FileOutExtSys** as the name and select **Outbound File eWay** as the type. **FileOutExtSys** is added to the Environment Editor.
- 8 Right-click **PS_HTTP_JCE_InOut_Env** and select **New Logical Host**. The **LogicalHost1** box is added to the Environment and **LogicalHost1** is added to the Environment Editor tree.
- 9 From the Environment Explorer tree, right-click **LogicalHost1** and select **New SeeBeyond Integration Server** from the shortcut menu. A new Integration Server

(**IntegrationSvr1**) is added to the Environment Explorer tree under LogicalHost1(see Figure 79).

If the sample contained any JMS Queues or Topics, you would also right-click **LogicalHost1** and select **New SeeBeyond JMS IQ Manager** from the shortcut menu to add a JMS IQ Manager (**SBjmsIQMgr1**) is added to the Environment Explorer tree under LogicalHost1 .

Figure 79 Environment Editor



10 Save your current changes to the Repository.

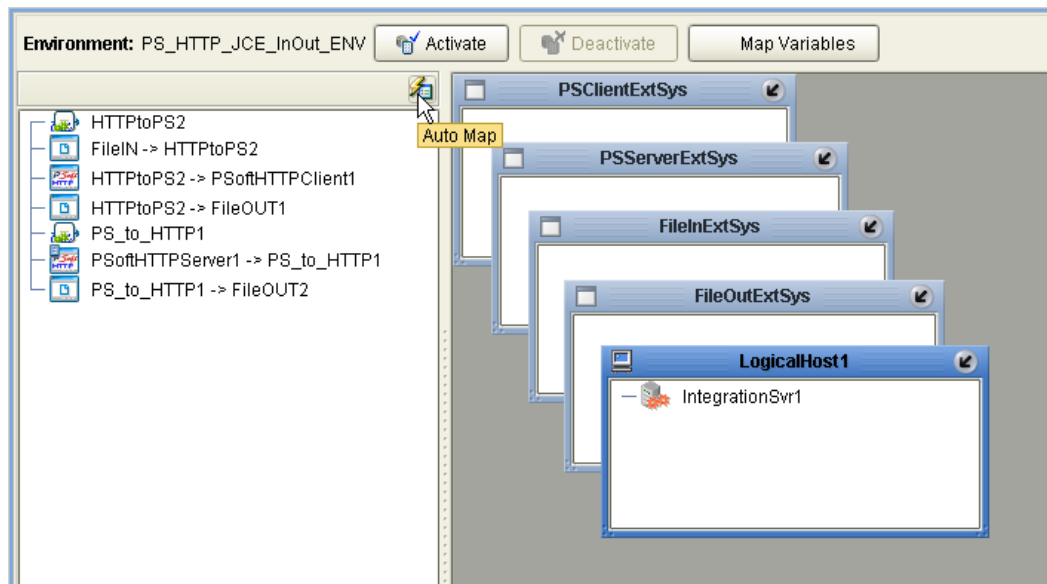
6.9.2 Creating and Activating the Deployment Profile

Deployment Profiles are specific instances of a project in a particular Environment. Deployment Profiles are created using the Enterprise Designer's Deployment Editor.

The following example provides step by step directions for creating the Deployment Profile for the **PS_HTTP_JCE_InOut** sample project.

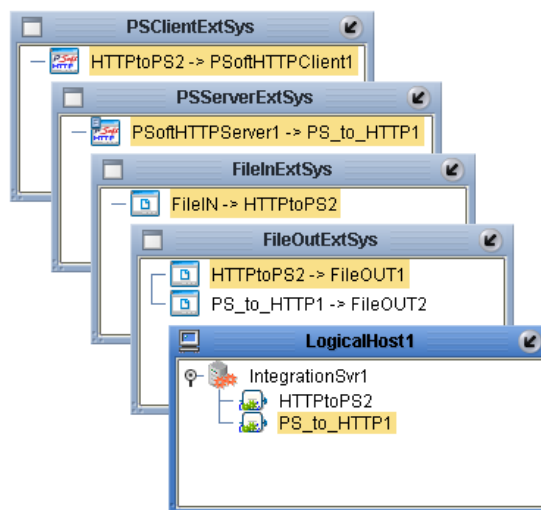
- 1 From the Enterprise Explorer's Project Explorer, right-click the project (for example, **PS_HTTP_JCE_InOut**) and select **New > Deployment Profile**.
- 2 From the **Create Deployment Profile** dialog box, select the appropriate Environment (for this example, **PS_HTTP_JCE_InOut_Env**), enter a name for the Deployment Profile (for this example, **PS_HTTP_JCE_InOut_DP**), and click **OK**. Make sure this name matches the name used in the **Servet-url** property in the logical eWay properties as described in [servlet-url](#) on page 39.
- 3 Click the **Auto Map** icon as displayed in [Figure 80 on page 104](#). The projects components are automatically mapped to their system window as seen in [Figure 81 on page 104](#). If any of the project components are not mapped automatically after Auto Map is used, those component can be mapped manually by following the appropriate steps below. Once all components are mapped, proceed to step 11.

Figure 80 Deployment Profile - Auto Map



- 4 From the left pane of the Deployment Editor, drag **HTTPtoPS2 -> PSoftHTTPClient1** to the **PSClientExtSys** window.
- 5 From the left pane of the Deployment Editor, drag **PSoftHTTPServer1 -> HTTPtoPS1** to the **PSClientExtSys** window.
- 6 From the left pane of the Deployment Editor, drag **FileIN -> HTTPtoPS2** to the **FileInExtSys** window.
- 7 From the left pane of the Deployment Editor, drag **HTTPtoPS2 -> FileOUT1** and **PS_to_HTTP1 -> FileOUT2** to the **FileOutExtSys** window.
- 8 Drag **HTTPtoPS1** (service) and **HTTPtoPS2** (service) to **IntegrationSvr1** in the **LogicalHost1** window(see [Figure 81 on page 104](#)).

Figure 81 Deployment Profile



- 9 Click **Activate**. When activation succeeds, save the changes to the Repository.

6.9.3. Running the Project

The following directions assume that the Enterprise Designer was downloaded to **C:\ican50**. If this is not the case, replace that location in the following directions with the appropriate location.

- 1 From the Enterprise Manager Downloads tab, download **Logical Host - for win32**.
- 2 Extract the file to the **ican50\LogicalHost1** directory. You must specify the **LogicalHost1** directory for it to be created.
- 3 Navigate to **C:\ican50\LogicalHost1\logicalhost\bootstrap\config** directory and open the **logical-host.properties** file using a text editor.
- 4 Enter the following information in the appropriate fields:
 - ♦ Logical Host root directory: **ican50\LogicalHost1\logicalhost**
 - ♦ Repository URL: **http://localhost:port number/repository name**
 - ♦ Repository user name and password: *Your user name and password*
 - ♦ Logical Host Environment name: (For example **PS_HTTP_JCE_InOut_Env**)
 - ♦ Logical Host name: **LogicalHost1**

Save your changes to **logical-host.properties** and close the file.

- 5 Run the **bootstrap.bat** file in the **ican50\LogicalHost1\logicalhost\bootstrap\bin** directory.
- 6 Copy the sample project's input data file to the input directory.

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 106
- [Monitoring PeopleSoft Collaborations](#) on page 107
- [Log Files and Alerts](#) on page 107

7.1 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

7.1.1 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 [PeopleSoft HTTP Client eWay Connectivity Map Properties](#) on page 20.
- 2 In the **Project Explorer** tab, double-click the Deployment Profile for the project.
- 3 Click **Reactivate**.

7.1.2 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 [PeopleSoft HTTP Client eWay Environment Properties](#) on page 25.
- 2 In the **Environment Explorer** tab, right-click the Logical Host that contains this eWay.
- 3 Click **Apply**.

7.2 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*.

7.3 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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