

# iWay

## iWay Application Adapter for PeopleSoft User's Guide

Version 7.0.x and Higher

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## Preface

This document explains how to use the iWay Application Adapter for PeopleSoft, which is an interface between PeopleSoft 8 and other applications. It describes how to use the iWay Application Adapter for PeopleSoft with iWay Explorer to develop online connections to PeopleSoft 8 applications.

**Note:** This Release 7.0.x content is currently being updated to support iWay Release 8.0.x software. In the meantime, it can serve as a reference for your use of iWay Release 8. If you have any questions, please contact *Customer\_Success@ibi.com*.

#### How This Manual Is Organized

This manual includes the following chapters:

	Chapter/Appendix	Contents
1	Introducing the iWay Application Adapter for PeopleSoft	Provides an overview of the iWay Application Adapter for PeopleSoft and summarizes how to use it to integrate PeopleSoft systems with other applications.
2	iWay Application Adapter for PeopleSoft Supported Platforms Matrix	Specifies version, platform, and database support information for iWay Application Adapter for PeopleSoft.
3	Application Adapter for PeopleSoft Quick Start Guide	Provides a quick start guide for the iWay Application Adapter for PeopleSoft.
4	Configuring the iWay Application Adapter for PeopleSoft	Describes how to configure the iWay Application Adapter for PeopleSoft.
5	Generating Component Interface APIs	Describes how to generate component interface APIs for use with the iWay Application Adapter for PeopleSoft.
6	Configuring the PeopleSoft Message Router	Describes how to configure the TCP/IP Target Connector (in PeopleSoft release 8.4) and the TCP/IP Handler (in PeopleSoft release 8.1).
7	Creating XML Schemas or Web Services for PeopleSoft	Describes how to create XML schemas for PeopleSoft business objects using iWay Explorer.

	Chapter/Appendix	Contents
8	Listening for PeopleSoft Events	Describes how to use iWay Explorer to connect to PeopleSoft and listen for events.
9	Configuring an HTTP Event Listener for PeopleSoft Using iWay Service Manager	Describes how to configure an HTTP event listener for Peoplesoft using iWay Service Manager.
10	PeopleSoft Troubleshooting and Error Messages	Explains limitations and workarounds when connecting to PeopleSoft.
A	Configuring the Application Adapter for PeopleSoft in an iWay Environment	Describes how to configure the adapter in the Service Manager console.
В	Using PeopleSoft Component Interfaces	Describes how to create, secure, and test a component interface for use with the iWay Application Adapter for PeopleSoft.
С	Using PeopleSoft 8 Integration Broker	Discusses how to configure and test PeopleSoft Integration Broker Release 8.4 and PeopleSoft Application Messaging Release 8.1 using a PeopleSoft-supplied File Output interface.
D	PeopleTools Upgrade Considerations	Provides upgrade considerations for PeopleTools.

#### **Documentation Conventions**

The following table describes the documentation conventions that are used in this manual.

Convention	Description
THIS TYPEFACE or this typeface	Denotes syntax that you must enter exactly as shown.
this typeface	Represents a placeholder (or variable), a cross-reference, or an important term. It may also indicate a button, menu item, or dialog box option that you can click or select.
underscore	Indicates a default setting.
Key + Key	Indicates keys that you must press simultaneously.

Convention	Description
{}	Indicates two or three choices. Type one of them, not the braces.
	Separates mutually exclusive choices in syntax. Type one of them, not the symbol.
	Indicates that you can enter a parameter multiple times. Type only the parameter, not the ellipsis ().
	Indicates that there are (or could be) intervening or additional commands.

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#### Help Us to Serve You Better

To help our consultants answer your questions effectively, be prepared to provide specifications and sample files and to answer questions about errors and problems.

The following tables list the environment information our consultants require.

Platform	
Operating System	
OS Version	
JVM Vendor	
JVM Version	

The following table lists the deployment information our consultants require.

Adapter Deployment	For example, JCA, Business Services Provider, iWay Service Manager
Container	For example, WebSphere
Version	
Enterprise Information System (EIS) - if any	
EIS Release Level	
EIS Service Pack	
EIS Platform	

The following table lists iWay-related information needed by our consultants.

iWay Adapter	
iWay Release Level	
iWay Patch	

The following table lists additional questions to help us serve you better.

Request/Question	Error/Problem Details or Information
Did the problem arise through a service or event?	
Provide usage scenarios or summarize the application that produces the problem.	
When did the problem start?	
Can you reproduce this problem consistently?	
Describe the problem.	
Describe the steps to reproduce the problem.	
Specify the error message(s).	
Any change in the application environment: software configuration, EIS/database configuration, application, and so forth?	
Under what circumstance does the problem <i>not</i> occur?	

The following is a list of error/problem files that might be applicable.

- Input documents (XML instance, XML schema, non-XML documents)
- ❑ Transformation files
- Error screen shots
- Error output files
- Trace files
- Service Manager package to reproduce problem
- Custom functions and agents in use
- Diagnostic Zip
- Transaction log

For information on tracing, see the *iWay* Service Manager User's Guide.

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#### Chapter

## Introducing the iWay Application Adapter for PeopleSoft

This section provides an overview of the iWay Application Adapter for PeopleSoft and describes how to integrate other systems with PeopleSoft systems.

#### In this chapter:

- Let Key Features of the iWay Application Adapter for PeopleSoft
- How the iWay Application Adapter for PeopleSoft Works
- iWay Application Adapter for PeopleSoft Component Information

#### Key Features of the iWay Application Adapter for PeopleSoft

The iWay Application Adapter for PeopleSoft provides a means to exchange real-time business data between PeopleSoft systems and other application, database, or external business partner systems. The adapter enables external applications for inbound and outbound processing with PeopleSoft.

The adapter uses XML messages to enable non-PeopleSoft applications to communicate and exchange transactions with PeopleSoft using services and events.

- □ Services: Applications use this capability to initiate a PeopleSoft business event. Services also are referred to as component methods.
- □ **Events:** Applications use this capability to access PeopleSoft data only when a PeopleSoft business event occurs. Events also are referred to as messages.

When you access a PeopleSoft component from another application, you use:

Component Interfaces. If a Component Interface does not exist, create, secure, and test one. For more information, see Using PeopleSoft Component Interfaces on page 135 or your PeopleSoft documentation.

If the Component Interface exists, but you modified it, secure and test it. For more information, see *Using PeopleSoft Component Interfaces* on page 135 or your PeopleSoft documentation.

Alternatively, you can secure and test the Component Interface and create the Component Interface API after you generate schemas or web services.

❑ **Component Interface APIs.** Create an API for the Component Interface. For more information, see *Generating Component Interface APIs* on page 47.

□ Schemas and web services. Create schemas or web services for the component methods. For more information, see *Creating XML Schemas or Web Services for PeopleSoft* on page 75.

To receive a message from PeopleSoft, you use:

- □ The Integration environment. Configure and test your PeopleSoft Integration Broker (release 8.4) or Application Messaging environment (release 8.1). For information on properly configuring the environment, see *Using PeopleSoft 8 Integration Broker* on page 157 or your PeopleSoft documentation.
- **Message routing.** Configure TCP/IP Target Connector (release 8.4), HTTP Target Connector (release 8.4), or TCP/IP Handler (release 8.1). For more information, see *Configuring the PeopleSoft Message Router* on page 57.

#### How the iWay Application Adapter for PeopleSoft Works

The adapter uses your application server and XML messages to enable non-PeopleSoft applications to communicate and exchange transactions using one of the following two facilities:

- PeopleSoft Component Interface
- PeopleSoft Integration Broker (in release 8.4) or Application Messaging Manager (in release 8.1).

The adapter connects to the PeopleSoft Application Server by accessing APIs for the Component Interfaces that correspond to its supported business objects. Every Component Interface contains data and business logic for the business component, thus alleviating a requirement for the adapter to duplicate the processes defined within the business component.

The adapter is bidirectional, enabling it to:

- Detect an event by receiving an XML document from PeopleSoft using Integration Broker or Application Messaging.
- Pass an XML request document to execute an instance of the PeopleSoft Component Interface and its method.

#### PeopleSoft Enterprise Application Integration Architecture

PeopleSoft provides for integration with other applications and systems through its Component Interface framework and its Integration Broker (in release 8.4) or Application Messaging (in release 8.1) facility. The iWay Application Adapter for PeopleSoft uses the PeopleSoft framework and leverages various integration access methods to provide the most flexibility and functionality.

Integration access methods supported by the iWay Application Adapter for PeopleSoft include:

- □ PeopleSoft Java<sup>™</sup> API using Component Interfaces.
- DeopleSoft XML using Integration Broker or Application Messaging.

#### PeopleSoft Component Interface

In the PeopleSoft environment, a Component Interface is a container for distributing PeopleSoft application data among PeopleSoft logical systems and for exchanging PeopleSoft application data with non-PeopleSoft systems.

The Component Interface is based on an existing business process within PeopleSoft. An example is a purchase order entry, which can be a PeopleSoft-delivered process or a userdeveloped process. The Component Interface also inherits its methods (for example. Add, Update, and so on) and its business logic from the underlying business process.

PeopleSoft delivers generic Component Interfaces with each of its applications. These are called Enterprise Integration Points (EIP). Customers also can develop their own custom Component Interfaces, or they can modify EIP as required.

#### PeopleSoft Application Messaging Manager

PeopleSoft Application Messaging facilitates the integration of PeopleSoft XML with PeopleSoft. The iWay Application Adapter for PeopleSoft provides a handler that must be configured within the PeopleSoft application gateway using TCP/IP transport services.

#### iWay Application Adapter for PeopleSoft Component Information

The iWay Application Adapter for PeopleSoft works with one of the following components:

- □ iWay Service Manager
- iWay Business Services Provider (iBSP)

When hosted in an iWay environment, the adapter is configured through iWay Service Manager and iWay Explorer. iWay Explorer is used to configure adapter connections and event capabilities and to create web services. When the adapter is hosted in a third-party application server environment, iWay Explorer (used to configure PeopleSoft connections and event capabilities and to create web services) can be configured to work in a web services environment in conjunction with iBSP.

#### **Component Information Roadmap**

The following table lists the deployment component and the location of component information for the iWay Application Adapter for PeopleSoft.

Deployed Component	For more information, see
iWay Service Manager	Appendix A of this guide
	iWay Service Manager User's Guide
iWay Explorer	Chapters 5 and 6 of this guide
	iWay Installation and Configuration
iWay Business Services Provider (iBSP)	iWay Installation and Configuration

#### iWay Service Manager

iWay Service Manager is the heart of the Universal Adapter Framework and is an open transport service bus. Service Manager uses graphical tools to create sophisticated integration services without the need for custom integration code by:

- Creating metadata from target applications.
- □ Transforming and mapping interfaces.
- □ Managing stateless processes.

Its capability to manage complex adapter interactions makes it an ideal foundation for a service-oriented architecture.

#### iWay Explorer

iWay Explorer uses a tree metaphor to introspect the PeopleSoft system metadata. The Explorer enables you to create XML schemas and web services for the associated object. In addition, you can create ports and channels to listen for events in PeopleSoft.

External applications that access PeopleSoft through the iWay Application System Adapter for PeopleSoft use either XML schemas or web services to pass data between the external application and the adapter.

#### iWay Business Services Provider

The iWay Business Services Provider (iBSP) exposes, as web services, enterprise assets that are accessible from adapters regardless of the programming language or the particular operating system.

iBSP simplifies the creation and execution of web services when running:

- □ Custom and legacy applications.
- □ Database queries and stored procedures.
- Packaged applications.
- Terminal emulation and screen-based systems.
- □ Transactional systems.

Coupled with a platform and language independent messaging protocol called SOAP (Simple Object Access Protocol), XML enables application development and integration by assembling previously built components from multiple web services.



## iWay Application Adapter for PeopleSoft Supported Platforms Matrix

iWay Software is committed to support the diverse environments and varied systems of our users through support for leading enterprise applications, platforms, and databases.

This section specifies version, platform, and database support information for iWay Application Adapter for PeopleSoft. It is designed to provide a consolidated view of PeopleSoft (PeopleTools) releases and the various operating systems and databases, on which they are supported.

#### In this chapter:

- Application Adapter for PeopleSoft Supported Platforms Overview
- PeopleTools
- Application Adapter for PeopleSoft Operating Systems
- Databases
- Java Development Kit (JDK)
- Application Adapter for PeopleSoft Communication Modes

- PeopleSoft Object Types and Interfaces
- PeopleSoft Communication Types
- PeopleSoft Operations
- PeopleSoft Data Types
- Other PeopleSoft Functions
- Known Application Adapter for PeopleSoft Limitations
- Related Information for the Application Adapter for PeopleSoft in Specific iWay Releases

#### Application Adapter for PeopleSoft Supported Platforms Overview

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PeopleSoft systems and applications that are supported by iWay Application Adapter for PeopleSoft are governed by the underlying PeopleTools version.

Note: PeopleSoft versions are generally discussed and referenced by the following:

- PeopleSoft application version
- PeopleTools version

PeopleTools is the development platform for PeopleSoft applications. Oracle provides a support matrix, which identifies the mapping between PeopleSoft application versions and PeopleTools releases. This support matrix is available through the *Lifetime Support Summary for PeopleSoft Releases (Doc ID 1348959.1)*, which is maintained by Oracle.

#### PeopleTools

iWay Application Adapter for PeopleSoft supports PeopleTools versions as listed in the following table.

PeopleTools Series	Supported Versions
8.1	8.17 to 8.22
8.4	8.40 to 8.52

#### Application Adapter for PeopleSoft Operating Systems

iWay Application Adapter for PeopleSoft supports all of the operating systems that are listed in the *iWay Installation and Configuration Guide* under *Operating System Requirements*.

The only exceptions to the list are z/OS and OS/400, which are not supported by iWay Application Adapter for PeopleSoft.

#### Databases

iWay Application Adapter for PeopleSoft does not function directly with databases and only operates at the API level.

#### Java Development Kit (JDK)

iWay Application Adapter for PeopleSoft supports the Java Development Kit (JDK) versions that are listed in the *iWay Installation and Configuration Guide* under *Java Requirements*.

#### Application Adapter for PeopleSoft Communication Modes

iWay Application Adapter for PeopleSoft supports the following communication modes:

- Services (Outbound). iWay Application Adapter for PeopleSoft can send messages to PeopleSoft.
- **Events (Inbound).** iWay Application Adapter for PeopleSoft can receive messages from PeopleSoft.

#### **PeopleSoft Object Types and Interfaces**

iWay Application Adapter for PeopleSoft supports the following PeopleSoft Object Types and Interfaces:

- □ Component Interfaces through PeopleSoft generated Java APIs. Component Interfaces are used for outbound communication (services) from iWay Application Adapter for PeopleSoft to PeopleSoft systems.
- Messages / Services through Integration Broker. Messages are used for inbound communication (events) from PeopleSoft systems to iWay Application Adapter for PeopleSoft.

#### PeopleSoft Communication Types

iWay Application Adapter for PeopleSoft supports the following communication types:

- **Component Interfaces:** Synchronous
- □ Messages / Services: Asynchronous

#### **PeopleSoft Operations**

iWay Application Adapter for PeopleSoft supports the following operations:

□ **Component Interfaces:** Operations such as Insert, Update, Delete, Find, and Browse are supported by adapter, except for the Cancel operation. Custom operations or methods are not supported by the adapter.

**Note:** Operations vary based on each Component Interface.

**Messages / Services:** Receive documents from PeopleSoft.

#### PeopleSoft Data Types

iWay Application Adapter for PeopleSoft supports the following data types:

- Character
- Number
- Date

However, iWay Application Adapter for PeopleSoft processes these data types as strings when sending and receiving documents with PeopleSoft systems.

#### **Other PeopleSoft Functions**

There is no known list related to other functions for iWay Application Adapter for PeopleSoft.

#### Known Application Adapter for PeopleSoft Limitations

This section lists known issues for iWay Application Adapter for PeopleSoft.

- **The Cancel operation (method) for Component Interfaces is not supported.**
- □ The synchronous communication type for events (inbound) is not supported.

#### Related Information for the Application Adapter for PeopleSoft in Specific iWay Releases

For more information, see the *iWay New Features Bulletin and Release Notes* documentation for a specific release (for example, iWay Version 7.0.2).



## Application Adapter for PeopleSoft Quick Start Guide

This chapter provides a quick start guide for the iWay Application Adapter for PeopleSoft.

#### In this chapter:

- PeopleSoft Quick Start Overview
- Installing the Application Adapter for PeopleSoft
- Configuring the Application Adapter for PeopleSoft
- Upgrading PeopleTools

#### PeopleSoft Quick Start Overview

This quick start guide summarizes the high-level key steps that are required to install, configure, and use the iWay Application Adapter for PeopleSoft. The quick start guide does not elaborate on any of the steps in detail. Instead, cross-references are provided for the corresponding sections in the *iWay Application Adapter for PeopleSoft User's Guide*. Users of the iWay Application Adapter for PeopleSoft system and begin using the adapter. To gain a complete understanding about the adapter, it is recommended for users to review the entire *iWay Application Adapter for PeopleSoft User's Guide* section is not a replacement for that level of detail. The steps in this quick start guide are required to be performed by an iWay integration developer ("Integrator") and PeopleSoft admin ("PeopleSoft Administrator"). For each task, the appropriate role is noted accordingly throughout the quick start guide.

#### Installing the Application Adapter for PeopleSoft

Installing the iWay Application Adapter for PeopleSoft consists of the following key steps.

- 1. Review and verify the information in *iWay Application Adapter for PeopleSoft Supported Platforms Matrix* on page 19.
- 2. Refer to the *iWay Installation and Configuration Guide* to install the iWay Application Adapter for PeopleSoft.

**Note:** In the Adapter Selection pane of the installer, the iWay Application Adapter for PeopleSoft is located in the *Application Adapters* category, as shown in the following image.

Way Service Manager is packaged with a s	Description
adapter(s) you want to install with your config	This components install the
Technology Adapters	Application Adapters which
Application Adapters	provide transaction level
E eBusiness Adapters	access to the most popular
E Legacy Adapters	ERP, CRM, and SCM
Log Event Adapters	packages like SAP,
Protocol Adapters	PeopleSoft, Siebel, and more.
419.69 MB of space required on the C drive 26455.62 MB of space available on the C dr allShield	ive < Back Next > Cancel

The iWay Application Adapter for PeopleSoft is not installed by default and must be selected during the iWay installation.

3. In the *iWay Installation and Configuration Guide*, refer to *Chapter 3, Preparing Adapters* (PeopleSoft topic) to review supported versions and the library files that are required by the iWay Application Adapter for PeopleSoft.

#### Configuring the Application Adapter for PeopleSoft

This section lists and describes the key configuration steps for configuring the iWay Application Adapter for PeopleSoft and then integrating with PeopleSoft for inbound and outbound processing.

#### **Initial Configuration**

The initial configuration for the iWay Application Adapter for PeopleSoft consists of the following key steps.

1. Consult with your PeopleSoft system administrator to determine the PeopleTools version being used (not the PeopleSoft system/application version).

The iWay Application Adapter for PeopleSoft follows and is directed by the PeopleTools version (not the PeopleSoft system/application version). After you have determined the PeopleTools version, see *Specifying the Version of PeopleSoft* on page 29 to configure the adapter to use PeopleTools version 8.1 or version 8.4.

#### Role: Integrator

2. Refer to *Installing the Application Adapter for PeopleSoft Component Interfaces* on page 30 for information on installing the iWay prepackaged Component Interfaces into the PeopleSoft system.

Role: PeopleSoft Administrator

3. Refer to *Configuring Component Interface Security* on page 35 for information on configuring the PeopleSoft system to provide access to the adapter.

Role: PeopleSoft Administrator

4. If you are using PeopleTools version 8.1 and require use of the adapter to consume events from PeopleSoft (messages from PeopleSoft), then you must install the iWay prepackaged listener on the PeopleSoft system. For more information, see *Installing the TCP/IP Message Router for the iWay Application Adapter for PeopleSoft* on page 43.

Role: PeopleSoft Administrator

5. If the adapter must integrate data inbound (services) into PeopleSoft, then Component Interface APIs must be generated. For more information, see *Generating Component Interface APIs* on page 47.

Role: PeopleSoft Administrator

6. iWay Application Adapter for PeopleSoft requires a set of library files from PeopleSoft. For more information, see *Copying PeopleSoft Files Into the Lib Directory* on page 45.

Role: PeopleSoft Administrator

7. If the adapter requires subscribing to messages (events) from PeopleSoft, then the application must be configured for this purpose. For more information, see *Configuring the PeopleSoft Message Router* on page 57.

You must refer to the section that corresponds to your PeopleTools version (8.1 or 8.4). If your PeopleTools version is 8.48 or higher (8.4 series), see *Using PeopleSoft 8 Integration Broker* on page 157.

Role: PeopleSoft Administrator

8. Collect the valid PeopleSoft connection parameters (such as server name, Jolt port number, user ID, and password) from the PeopleSoft administrator.

9. Determine which PeopleSoft Component Interfaces and messages are required to be integrated through the iWay Application Adapter for PeopleSoft.

#### Role: Integrator

10.For the given list of PeopleSoft Component Interfaces, ensure that security is enabled for these Component Interfaces. For more information, see Securing a Component Interface on page 140.

Role: PeopleSoft Administrator

11.Ensure that the PeopleSoft Component Interfaces are tested for validation from the PeopleTools Application Designer. For more information, see *Testing a Component Interface* on page 150.

Role: PeopleSoft Administrator

#### Using the Adapter for Inbound Processing (Inbound Services Into PeopleSoft)

Using the iWay Application Adapter for PeopleSoft for inbound processing consists of the following key steps.

Role: Integrator

- 1. Start iWay Explorer, as described in Starting iWay Explorer on page 75.
- 2. Create and configure an adapter target for your PeopleSoft system, as described in *Establishing a Target for PeopleSoft* on page 76.
- 3. Create an schema (.xsd) document for the selected PeopleSoft Component Interface, as described in *Creating an XML Schema* on page 82.
- 4. Create a web service for the selected PeopleSoft Component Interface, as described in *Generating a Web Service for PeopleSoft* on page 84.

#### Notes:

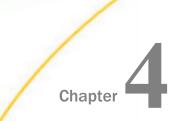
- □ The above steps can be repeated for all required PeopleSoft Component Interfaces.
- Any additional integration tasks should be performed through iWay Integration Tools (iIT) and iWay Service Manager (iSM) using the web services and XML schema documents (.xsd) that were generated for selected PeopleSoft Component Interfaces. For more information, refer to the iSM and iIT user documentation.

#### Using the Adapter for Outbound Processing (Outbound Services From PeopleSoft)

For more information, see *Configuring an HTTP Event Listener for PeopleSoft Using iWay Service Manager* on page 115.

#### **Upgrading PeopleTools**

If you are planning to upgrade PeopleTools while the iWay Application Adapter for PeopleSoft is deployed in a production environment, see *PeopleTools Upgrade Considerations* on page 199 for more information.



## Configuring the iWay Application Adapter for PeopleSoft

This section describes how to configure the iWay Application Adapter for PeopleSoft. You must:

- □ Select your version of PeopleSoft.
- □ Install the adapter Component Interfaces.
- □ Install the adapter TCP/IP message router.
- □ Copy the psjoa.jar file (and, for PeopleSoft release 8.1, the pstools.properties file) into the iWay7\lib directory.

#### In this chapter:

- Specifying the Version of PeopleSoft
- Installing the Application Adapter for PeopleSoft Component Interfaces
- Installing the TCP/IP Message Router for the iWay Application Adapter for PeopleSoft
- Copying PeopleSoft Files Into the Lib Directory

#### Specifying the Version of PeopleSoft

The iWay Application Adapter for PeopleSoft supports multiple versions of PeopleSoft. However, one version can be incompatible with another. The adapter must recognize the version you use. After installation, files for both versions of PeopleSoft appear in the iWay7\lib directory. The default location for this directory on Windows is:

#### C:\Program Files\iWay7\lib

On non-Windows systems, you use the corresponding location.

#### Procedure: How to Specify the Version of PeopleSoft

To specify the correct version of PeopleSoft:

1. To ensure the adapter functions properly, remove the file that does not correspond to your version.

For PeopleSoft 8.4x releases, remove the following file:

iwpsci81.jar

iWay Application Adapter for PeopleSoft User's Guide

For PeopleSoft 8.1x releases, remove the following file:

iwpsci84.jar

2. After you change the contents of the lib directory, restart all iWay components.

The iwpsci84.jar file also supports PeopleTools version 8.5x. When connecting with PeopleTools versions 8.5x (such as 8.50 or 8.51), you can use the iwpsci84.jar file with those PeopleTools versions.

#### Installing the Application Adapter for PeopleSoft Component Interfaces

The iWay Application Adapter for PeopleSoft includes two custom Component Interfaces. iWay Explorer uses these Component Interfaces to create schemas for events and services.

To configure Component Interfaces for use by the iWay Application Adapter for PeopleSoft:

- 1. Import and build the Component Interfaces.
- 2. Configure Component Interface security.
- 3. Test the Component Interfaces.

#### Importing and Building the Component Interfaces

The Component Interfaces supplied with the iWay Application Adapter for PeopleSoft are delivered through a PeopleSoft project.

□ For Release 8.4, the project is the IWY\_CI\_84 project, packaged in iwpsci84.zip.

□ For Release 8.1, the project is the IWY\_CI\_81 project, packaged in iwpsci81.zip.

These files are installed with iWay 7.0 SM.

On Windows, their default location is:

#### C:\Program Files\iWay7\etc\setup\peoplesoft

On non-Windows systems, use the corresponding location. If this location does not exist, contact iWay Software for copies of the relevant files.

#### *Procedure:* How to Import and Build the Component Interfaces

To import the IWY\_CI\_81 or IWY\_CI\_84 project to PeopleSoft 8:

1. Unzip *iwpsci81.zip* or *iwpsci84.zip* to a directory of your choice.

The unzip process creates its own subdirectory. For example, if you extract the file to c:  $\temp$ , it creates c: $\temp\IWY_CI_81$  or c: $\temp\IWY_CI_84$ .

- 2. Launch the PeopleSoft Application Designer in two-tier mode.
- 3. To open the Copy From File Select Project dialog box:

In PeopleSoft 8.4, select Copy Project from the Tools menu and then, select From File.

In PeopleSoft **8.1**, select *Copy Project from File* from the File menu.

The Copy Project From File dialog box opens.

- 4. Navigate to the original directory to which you unzipped the file.
- 5. To open the Copy From File dialog box, click Open (in 8.4) or Copy (in 8.1).

**Note:** Although the following images illustrate PeopleSoft release 8.4, the corresponding instructions are accurate for releases 8.1 and 8.4.

The following image shows the PeopleSoft Application Designer Copy From File dialog box. It includes PeopleTools release and target information on the left, a Definition Type(s) pane, and five buttons, Copy, Cancel, Options, Select All, and Deselect All.

Danala Tarala Dalanan	0.40.00	Definition Tura(a)	
PeopleTools Release: Source File Name: Application Release:	IWY_CI_84 Financials/SCM 8.40.000	Definition Type(s): Records Pages Components Component Interfaces	<u>C</u> opy Ca <u>n</u> cel
Service Pack: Target Database Name:	0 F840DM0	<u>sql</u>	Options
	Financials/SCM 8.40.000		<u>S</u> elect All Deselect Al
🗖 O <u>v</u> erride Depende	ncies		
mport Directory	TEMP		

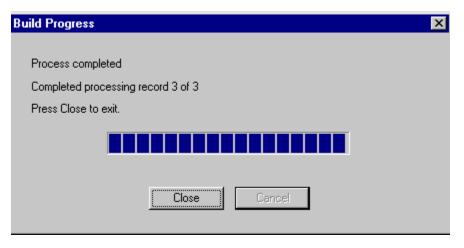
- 6. Highlight all the objects that appear under Definition Types and click Copy.
- 7. To build the views in the project, from the Build menu, select *Project*.

The following image shows the Build dialog box. It contains a Build Scope pane, a Build Options pane, and a Build Execute Options pane. It also contains Build, Cancel, and Settings buttons.

Build		×
Build Scope		<u>B</u> uild
IWY_PSBCITEM_VW IWY_PSMSGFLD_VW		Cancel
IWY_PSMSGSRCH_V		<u>S</u> ettings
	-Build Options	
	Create <u>T</u> able:	s
	📃 🔲 Create Indexe	es
	Create Views	
	🔲 <u>A</u> lter Tables	
	📃 🔲 <u>C</u> reate Trigge	er
	Build Execute Op	tions
	O B <u>u</u> ild script file	e
	• Execute SQL	now
	C Execute and	build script
1		

- a. From Build Options, select the Create Views check box.
- b. In the Build Execute Options pane, select the customary option for your site. (For example, in the previous image, the Execute SQL now option is selected.)
- 8. Click Build.

The following image shows the Application Designer Build Progress status pane. It contains a summary of the process completed and a progress bar. Only the Close button is active.



Note: There are no errors or warnings.

- a. To ensure that the records were created correctly, use your native SQL Tool to view the records from the generated view.
- b. If the records were not correctly generated, click Close.
- 9. Double-click the SQL Build log statement.

The following image shows the PsBuild log file, which contains information about the SQL build process.

 Psbuild.log - Notepad

 File
 Edit
 Search
 Help

 SQL
 Build
 process
 began
 on
 11/5/02
 at
 10:29:20
 AM
 for
 database
 F840DMO.

 SQL
 Build
 process
 ended
 on
 11/5/02
 at
 10:29:22
 AM.

 3
 records
 processed, 0
 errors, 0
 warnings.
 SQL
 executed
 online.

 SQL
 Build
 log
 file
 written
 to<C:\TEMP\PSBUILD.LOG.</td>

10. If you encounter problems, check the Build settings options by choosing *Build* and then, *Settings*.

The following image shows the Build Settings dialog box. It includes four tabs: Create (active), Alter, Logging, and Scripts. The Create tab includes three panes: Table Creation Options, View Creation Options, and Index Creation Options. Each pane includes two options. One is to recreate the table, view, or index if it already exists. The other is to skip the table or view if it already exists or to recreate the index only if modified. The dialog box also includes OK and Cancel buttons.

Build Settings		×
Create Alter Logging Scripts		
Table Creation Options C Recreate table if it already exists C Skip table if it already exists		
View Creation Options © Recreate <u>v</u> iew if it already exists © Skip view if it already exists		
Index Creation Options C Recreate index if it already exists C Recreate index only if modified		
	ОК	Cancel

Depending on the application server database for PeopleSoft 8, a database may require the Tablespace name. For more information regarding this function, consult your PeopleSoft 8 database administrator.

You have finished importing and building the Component Interfaces. To configure security for Component Interfaces, see *Configuring Component Interface Security* on page 35.

#### Configuring Component Interface Security

iWay Explorer requires the custom Component Interfaces that you imported and built in the previous procedure, *How to Import and Build the Component Interfaces* on page 30, so you must ensure that all iWay Explorer users have access to these Component Interfaces. As with all PeopleSoft objects, security is assigned at the Permission List level. Review your site security requirements to determine the users who will work with iWay Explorer and then, set Component Interface security for each distinct Permission List belonging to those users.

**Note:** These Component Interfaces are required for creating schemas and iWay Business Services, and they are required at run time for using the Find method. They have only Get and Find access and cannot be used to update your PeopleSoft database; this minimizes possible security exposures.

In PeopleSoft release 8.1, you may set security in 2-, 3-, or 4-tier mode; in release 8.4 and higher, you may set security in 4-tier mode only.

The following procedure describes how to configure security for all supported releases of PeopleSoft in all supported modes. The images in the procedure reflect PeopleSoft release 8.4 in 4-tier mode.

#### Procedure: How to Configure Component Interface Security

To configure security for each adapter Component Interface:

1. From the PeopleSoft user interface menu, choose *PeopleTools*, *Security*, *User Profiles*, *Permissions & Roles*, and then *Permission Lists*.

The following image shows the expanded Security menu, which displays a list of options under Permissions & Roles.



2. Click Permission Lists.

The following image shows the Permission Lists pane. It contains two tabs, Find an Existing Value (active) and Add a New Value, a Search by drop-down list, an input field called "begins with," a Search button, an Advanced Search hyperlink, and a Search Results section.

Permission	n Lists	
Enter any infor	rmation you have and click Search. Leave fi	elds blank for a list of all values.
/ Find an Exis	sting Value Add a New Value	
Search by:	Permission List 💌 begins with	
Search Ac	dvanced Search	
Search	(Alt+1)	
Search Res		
		formation above and search again to reduce the number of search results.
View All	First 🕢 1-100 of 300 💽 Last	
Permission Li	ist Description	
AEAE1000	Environments Management	
AEPNLS	AEPNLS: clone of ALLPNLS	
ALLPAGES	ALLPAGES	
ALLPORTL	All Portal	
AMPNES	(blank)	
AMSYSTEM	(blank)	
APPNLS	(blank)	
APPSRVR	Can start application server	
BDPNLSA	(blank)	
BDPNLSS	(blank)	
BIPNLS	Billing Panels	
CPAE1000	Application Environment	
CPE01000	Enterprise Objects	

3. Click Search and select the relevant Permission List.

The following image shows that the Permission List appears on the General tab which is active. The other tabs are Pages, PeopleTools, Process, and Sign-on Times.

General <u>P</u> ag	ges Y <u>P</u> eopleTools Y P <u>r</u> ocess Y <u>S</u> ign-on Times \ 🕨
Permission List:	ALLPAGES
Description:	ALLPAGES
Permission List Ger	neral
Navigator Homepag	e: NAVIGATOR
🗹 Can Start Applica	ation Server?
🗆 Allow Password	to be Emailed?
Time-out Minutes	
• Never Time-out	
O Specific Time-o	ut (minutes)

4. To display the Component Interfaces tab, click the arrow to the right of the Sign-on Times tab.

The following image shows the Component Interfaces tab with a list of interfaces. In addition to the Sign-on Times tab, the Message Monitor and Web Libraries tabs appear, but are inactive.

◀ Sign-on Times Y	Component Inter	faces Message Mon	itor Y <u>W</u> eb	Libraries 👌 🕑
Permission List:	ALLPAGES			
Description:	ALLPAGES			
Component Interface	es	Customize   Find   뛢	First 🖪	1-280 of 280 🕑 Last
<u>Name</u>			<u>Edit</u>	
AP_PCJOB_RQST			Edit	+ -
AP_PCJOB_RQST2			Edit	+ -
AR_CONVERSATION	I_AGENT		Edit	+ -
AR_CREDIT_AGENT			Edit	+ -
AR_ITEM_AGENT			Edit	+ -
AUC_BID_CONTACT	_ci		Edit	+ -
AUC_CREATE_CLO	NE_CI		Edit	+ -
AUC_CREATE_PO			Edit	+ -
AUC_PAGELET_PRE	EF_CI		Edit	+ -
AUC_VNDR_ID_CI			Edit	+ -
AUC_WF_APPR_CI			Edit	+ -
BDG_CNTRL_EW_N	ITFY		Edit	+ -
BDG_CNTRL_NOTIF	Υ		Edit	+ -
BD_ACCT_PER_LOG	ОКИР		Edit	+ -

- a. To add a new row to the Component Interfaces list, select the plus sign (+).
- b. Type or select the *IWY\_CI\_ATTRIBUTES* Component Interface.
- 5. Click Edit.

The Component Interface Permissions pane for the IWY\_CI\_ATTRIBUTES component interface opens. It includes a column for Methods and drop-down lists for the Method Access including ones corresponding to Get and Find.

- a. To set the Get and Find methods to Full Access, click Full Access (All).
- b. Click OK.
- 6. Repeat the process for the IWY\_CI\_MESSAGES Component Interface.
- 7. Scroll to the bottom of the Component Interfaces pane and click Save.

You have finished configuring security for the Component Interfaces delivered with the iWay Application Adapter for PeopleSoft. To test these Component Interfaces, see *Testing the Component Interfaces* on page 39.

## Testing the Component Interfaces

You must test each of the PeopleSoft Component Interfaces before using them with the adapter.

## Procedure: How to Test the Component Interfaces

To test the Component Interfaces:

- 1. In PeopleSoft Application Designer, open the *IWY\_CI\_ATTRIBUTES* Component Interface.
- 2. Choose Tools and then, Test Component Interface.

The following image shows the Component Interface Tester dialog box. It contains three panes: 'Get' keys, 'Create' keys (inactive), and 'Find' keys all for Component Interface. It includes three check boxes: Interactive Mode, Get History (selected), and Edit History Items. It also includes four buttons: Get Existing (active), Create New (inactive), Find button, and Cancel.

Component Interface Tester - Enter key values, choo	ose function 🛛 🗙
Get' keys for Component Interface (double-click to set)	Get Existing
Create' keys for Component Interface (double-click to set)	Create <u>N</u> ew
Find' keys for Component Interface (double-click to set)	Find
<ul> <li>Interactive Mode (set properties immediately)</li> <li>Get History Items</li> <li>Edit History Items</li> </ul>	Cancel

**Note:** The Create New button is inactive because the Add method is not applicable to this Component Interface.

3. Click the *Find* button.

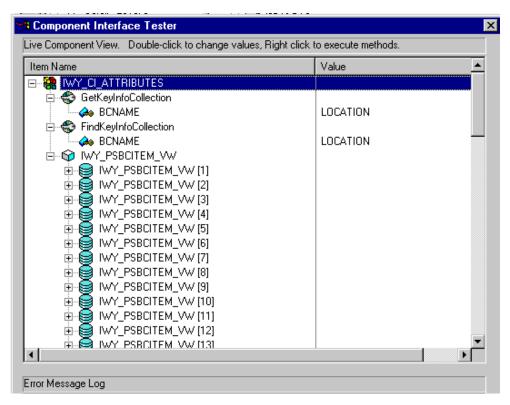
Entries for the underlying component appear. A message may appear stating that display is limited to a certain number of entries. This is not a significant limitation.

The following image shows the Component Interface Tester - Find Results dialog box. It contains a Find Results field and Get Selected and Cancel buttons.

Find Results (click item to select)-		/
	USER_PROFILE	[Get Selected]
IWY_CI_ATTRIBUTES [203] BCNAME	VCHR_APPROVE	Consel
IWY_CI_ATTRIBUTES [204]		<u>C</u> ancel
BCNAME	VENDOR_USER_	
IWY_CI_ATTRIBUTES [205]		
BCNAME	VNDR_ID	
IWY_CI_ATTRIBUTES [206]		
	WF_MONITOR_S.	
IWY_CI_ATTRIBUTES [207] BCNAME	WF TIMEOUT D.	
IWY_CI_ATTRIBUTES [208]	D.	
BCNAME	WORKER_BID	
IWY_CI_ATTRIBUTES [209]		
BCNAME	WORKLIST	
IWY_CI_ATTRIBUTES [210]		
BCNAME	WORKLISTENTR'	

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

The relevant data for the selected key appears as shown in the following image of the Component Interface Tester. The Tester includes an Item Name pane and a Value pane. The image shows the values for the keys, GetKeyInfoCollection and FindKeyInfoCollection, and the list of IWY\_PSBCITEM\_VW databases. It also contains an Error Message Log pane.



When this window appears, it means that the Component Interface was successfully tested for the Find method.

5. In the Component Interface Tester dialog box, click the Get button.

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

The following image shows the Component Interface Tester dialog box. It contains three panes: 'Get' keys, 'Create' keys (inactive), and 'Find' keys, all for Component Interface. It also includes three check boxes: Interactive Mode, Get History (selected), and Edit History Items. It includes four buttons: Get Existing (active), Create New button (inactive), Find button, and Cancel.

Component Interface Tester - Enter key values, choo	se function 🛛 🗙
'Get' keys for Component Interface (double-click to set)	<u>G</u> et Existing
Create' keys for Component Interface (double-click to set)	Create <u>N</u> ew
Find' keys for Component Interface (double-click to set)	<u>F</u> ind
<ul> <li>Interactive Mode (set properties immediately)</li> <li>Get History Items</li> <li>Edit History Items</li> </ul>	Cancel

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

The following image shows the Component Interface Tester dialog box. It includes an Item Name pane and a Value pane as well as an Error Message Log pane.

tem Name	Value	-
- 🥵 IWY_CI_ATTRIBUTES		
🖻 🌍 GetKeyInfoCollection		
- 🚕 BCNAME	LOCATION	
🚊 🚭 FindKeyInfoCollection		
- CNAME	LOCATION	
🗄 🐨 IWY_PSBCITEM_VW		
🗄 😂 IWY_PSBCITEM_VW [1]		
🗄 😂 IWY_PSBCITEM_VW [2]		
🗄 🕞 IWY_PSBCITEM_VW [4]		
IWY_PSBCITEM_VW [4] IWY_PSBCITEM_VW [5] IWY_PSBCITEM_VW [6] IWY_PSBCITEM_VW [7] IWY_PSBCITEM_VW [8] IWY_PSBCITEM_VW [9] IWY_PSBCITEM_VW [10] IWY_PSBCITEM_VW [11]		
🗄 🤤 IWY_PSBCITEM_VW [6]		
🗄 😂 IWY_PSBCITEM_VW [7]		
🗄 😂 IWY_PSBCITEM_VW [8]		
🗄 🤤 IWY_PSBCITEM_VW [9]		
🗄 🤤 IWY_PSBCITEM_VW (10)		
🗄 🗐 IWY_PSBCITEM_VW [12]		
		Þ

If the previous window opens, the Component Interface has been successfully tested for the Get method.

6. Repeat the previous steps for the IWY\_CI\_MESSAGES Component Interface.

You have finished testing the Component Interfaces.

# Installing the TCP/IP Message Router for the iWay Application Adapter for PeopleSoft

To enable PeopleSoft to send an XML event document to iWay components using TCP/IP, you must install the TCP/IP message router required for your specific PeopleSoft release level.

For PeopleSoft Release 8.4, install the TCP/IP target connector. For more information, see *Installing the TCP/IP Target Connector for PeopleSoft Release 8.4* on page 44.

For PeopleSoft Release 8.1, install the TCP/IP handler. For more information, see *Installing the TCP/IP Handler for PeopleSoft Release 8.1* on page 44.

#### Notes:

- □ If you are using PeopleTools Release 8.40 and higher, then iWay Software recommends you to use the target connectors that are delivered by PeopleSoft. Do not install the target connectors that are delivered with the iWay Application Adapter for PeopleSoft.
- ❑ The TCP/IP target connector configuration for PeopleSoft Release 8.4 is provided for customers who are migrating from an older PeopleSoft release (PeopleSoft 8.1 series) to a newer PeopleSoft release.
- □ If you are not using PeopleSoft messages for event handling, then skip the steps that describe how to install the target connectors for TCP and HTTP that are delivered with the iWay Application Adapter for PeopleSoft.

## Installing the TCP/IP Target Connector for PeopleSoft Release 8.4

The TCP/IP target connector for PeopleSoft release 8.4 is installed with iWay 7.0 SM. The default location on Windows is:

C:\Program Files\iWay7\etc\setup\peoplesoft\iwpsevent84.jar

On non-Windows systems, use the corresponding location.

If this location does not exist, contact iWay Software for copies of the relevant files.

## Procedure: How to Install the TCP/IP Target Connector for PeopleSoft Release 8.4

To install the TCP/IP target connector for PeopleSoft Release 8.4:

- 1. Extract *TCPIPTARGET84.class* from iwpsevent84.jar. using an extraction utility appropriate for your platform.
- 2. Port *TCPIPTARGET84.class* to the platform where the PeopleSoft gateway web server resides.
- 3. Place TCPIPTARGET84.class in the PeopleSoft server target connector directory.

This directory may vary according to your web or application server.

## Installing the TCP/IP Handler for PeopleSoft Release 8.1

The TCP/IP target connector for PeopleSoft release 8.1 is installed with iWay 7.0 SM. The default location on Windows is:

#### C:\Program Files\iWay7\etc\setup\peoplesoft\iwpsevent81.jar

On non-Windows systems, use the corresponding location.

If this location does not exist, contact your distributor for copies of the relevant files.

## Procedure: How to Install the TCP/IP Handler for PeopleSoft 8.1

To install the TCP/IP Handler for PeopleSoft release 8.1:

- 1. Port *iwpsevent81.jar* to the platform where the PeopleSoft gateway web server resides.
- 2. Place *iwpsevent81.jar* in the servletclasses directory under the PeopleSoft web server.
- 3. Extract the embedded class files.

### *Example:* Installing the TCP/IP Handler on a UNIX System

To install the TCP/IP handler for PeopleSoft release 8.1 on a UNIX system:

- 1. Log on to the UNIX system with the proper PeopleSoft ID and permissions.
- 2. Navigate to the PeopleSoft web servlets directory.

This directory may vary by release and by web server, but usually is:

\$PS\_HOME/webserv/servletclasses

3. To extract the class files required by PeopleSoft, issue the JAR command, for example:

jar -xvf /tmp/iwpsevent81.jar

The following output appears on a Sun/Solaris system:

```
$ jar -xvf /tmp/iwpsevent81.jar
created: META-INF/
extracted: META-INF/MANIFEST.MF
extracted: psft/pt8/tcphandler/TCPIPHandler81$Entry.class
extracted:
psft/pt8/tcphandler/TCPIPHandler81$HandlerEntry.class
extracted:
psft/pt8/tcphandler/TCPIPHandler81$PublicationHandler.class
extracted: psft/pt8/tcphandler/TCPIPHandler81.class
$
```

Note: The files are placed in a new directory, tcphandler, under psft/pt8.

## Copying PeopleSoft Files Into the Lib Directory

iWay Explorer creates XSD schemas and iWay Business Services from PeopleSoft Component Interfaces and creates XSD schemas from PeopleSoft messages. To do so, the following file(s) must be in the iWay7\lib directory. The default location for this directory on Windows is:

```
C:\Program Files\iWay7\lib
```

On non-Windows systems, use the corresponding location.

You must ensure that the following are in the lib directory:

PeopleSoft Java Object Adapter (psjoa.jar)

This file provides a low level interface between client applications and PeopleSoft. This file is provided with PeopleSoft and can be found in the following directory:

*PS\_HOME*\web\PSJOA

where:

PS\_HOME

Is the PeopleSoft home directory.

The psjoa.jar file is different for every version of PeopleSoft. When you upgrade your Peopletools release, ensure you copy the psjoa.jar file for the new release into the iWay7\lib directory and restart all components.

□ pstools.properties (for PeopleSoft 8.1.x)

PeopleSoft release 8.1x requires an additional file, pstools.properties found in the following directory:

#### PS\_HOME\web\jmac

psoftcrmci.jar file

This file is a set of Java classes that were generated from PeopleSoft Component Interfaces. For more information, see *Generating Component Interface APIs* on page 47.



## Generating Component Interface APIs

This section describes how to build and compile Component Interface APIs to use with the iWay Application Adapter for PeopleSoft.

### In this chapter:

- Building the PeopleSoft API Java Programs
- Compiling the PeopleSoft API Java Programs

## Building the PeopleSoft API Java Programs

Whether you are using an Enterprise Integration Point (EIP) supplied by PeopleSoft or a customized Component Interface, you must create a PeopleSoft API to enable communications with the PeopleSoft application. The API is a collection of Java class files that reside on the client machine and mediate between the client application layer and PeopleSoft.

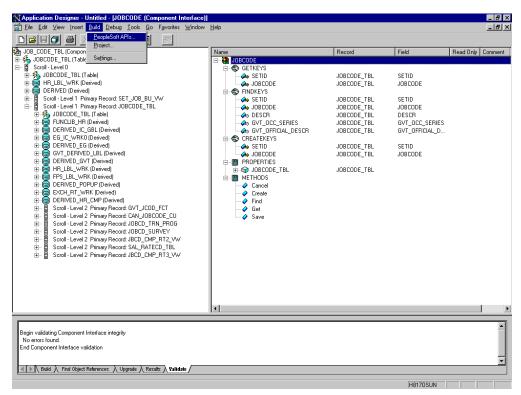
Before using your Component Interface, you must apply security to it and test it. For information about these tasks, as well as how to create a Component Interface, see *Using PeopleSoft Component Interfaces* on page 135.

## *Procedure:* How to Create a PeopleSoft API Java Program

To create a PeopleSoft API Java program:

1. Open the PeopleSoft Application Designer.

The following image shows the PeopleSoft Application Designer Component Interface. The upper part is divided into two panes, and lower part displays a pane for viewing validation. The Build menu is open and the PeopleSoft APIs option is selected.



2. To open a Component Interface, click the right pane and from the Build menu, select *PeopleSoft APIs*.

The Build PeopleSoft API Bindings dialog box opens where you can select options for the COM Type Library and Java Classes in their respective panes as shown in the following image. Currently, the Build check box is selected in the COM Type Library pane which includes the following fields: Target Directory, Type Library Template, and COM Server DLL Location. The AutoRegister and Clean-up Registry check boxes are selected. The dialog box also contains the C Header Files pane that includes a Build check box (clear) and the Directory for Header file field.

Build PeopleSoft API Bindings	×
COM Type Library	
Image: Build         Target Directory:         V:\psftora\h817osun\bin\client\winx86	
Type Library Template:	
COM Server DLL Location: V:\psftora\h817osun\bin\client\winx86	
AutoRegister 🔽 Clean-up Registry 🔽	
C Header Files	
Build Directory for header file: C:\WINNT\Profiles\eh04287\Desktop	
Java Classes	
🔽 Build	
Directory containing PeopleSoft package: V:\PSFT0RA\H8170SUN\web\ext	
	_
Select APIs to Build: All None	
CompIntfc.WORKLISTCollection	
CompIntfc.WORKLISTENTRYCollection	
PeopleSoft.CompIntfcCollection PeopleSoft.Property	
PeopleSoft.PropertyList OK	
PeopleSoft.PSMessage PeopleSoft.PSMessageCollection Cance	
PeopleSoft Regional Settings Cance	

- a. Because you are creating Java files, clear the Build check box for COM Type Library.
- b. If it is not already selected, select the *Build* check box in the Java Classes pane and then, select a directory on your local machine where the Java files are to be placed, for example, c:\psoft8\_components.
- 3. To build all files, follow the steps in *How to Build All of the API Files* on page 50. To build APIs for specific Component Interfaces, follow the steps in *How to Build APIs for a Specific Component Interface* on page 51.

## Procedure: How to Build All of the API Files

To build all files:

- 1. Complete the steps in *How to Create a PeopleSoft API Java Program* on page 47. In the Build PeopleSoft API Bindings dialog box:
  - a. Select the Build check box for Java Classes.
  - b. Specify a directory on your local machine where the Java files are to be placed, for example, c:\psoft8\_components.
- 2. In the same dialog box, select the default, All (potentially a large number).
- 3. Click OK.

PeopleSoft generates the files. This takes a few minutes. After the process is complete, a message appears in the output window.

The following image shows the GP\_PYE\_ERN\_DED\_ASGN Component Interface from the HR 8.1 application. It shows the Build PeopleSoft API Bindings dialog box, with the Build check box in the Java Classes pane selected, and the location of the Java files. The list of APIs appears, and the All, None, OK, and Cancel buttons are active.

Application Designer - Untitled - JOBCODE (C E File Edit View Insert Build Debug Icols G						_ 8 ×
		Teh				
JOB_CODE_TBL (Component)		Name	Record	Field	Read Only	Comment
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Readu				H8170SUN		

You are ready to compile the Java files. For more information, see *Compiling the PeopleSoft API Java Programs* on page 53.

## Procedure: How to Build APIs for a Specific Component Interface

To build APIs for a specific Component Interface or interfaces:

- 1. Complete the steps in *How to Create a PeopleSoft API Java Program* on page 47. In the Build PeopleSoft API Bindings dialog box:
  - a. Select the Build check box for Java Classes.
  - b. Specify a directory on your local machine where the Java files are to be placed, for example, c:\psoft8\_components.
- 2. In the same dialog box, click None.

Selecting None clears the selected APIs, so you can select the appropriate ones for your Component Interface. There may be fewer than five, or more than 50 APIs, for a particular Component Interface. The APIs begin with the name of your Component Interface.

- a. Select the APIs for your Component Interface.
- b. In addition to the APIs for the selected Component Interface, you also must generate the API files for the following generic Component Interface properties:

CompIntfcPropertyInfo

CompIntfcPropertyInfoCollection

3. Select these properties in the same step as the Component Interface build process or select them separately.

The following image shows the Build PeopleSoft API Bindings dialog box, with the Build check box in the Java Classes pane selected, and the location of the Java files. The list of APIs and the generic properties appear, and the All, None, OK, and Cancel buttons are active.

Build PeopleSoft API Bindings	×
COM Tura Library	
Build Target Directory: V:\psftora\h817osun\bin\client\winx86	
Type Library Template:	
COM Server DLL Location: V:\psftora\h817osun\bin\client\winx86	
AutoRegister 🔽 Clean-up Registry 🔽	
C Header Files	
Build Directory for header file: C:\WINNT\Profiles\eh04287\Desktop	
Java Classes	
🔽 Build	
Directory containing PeopleSoft package: C:\psoft8_components	
Select APIs to Build: All None	
CompIntfc.CI_SALARY_PLAN_GRP	
Completic CI_SALARY_PLAN_GRPCollection	
Completife.CITY_TBL_ITA Completife.CITY_TBL_ITACollection	
Completife.CompletifePropertyInfo	
Completic Completic PropertyInfoCollection OK	
Completife.CORPORATE_CARD Completife.CORPORATE_CARD_CC_CARD_TBL_EX	1
	]

4. Click OK.

PeopleSoft generates the files. This takes a few minutes. After the process is complete, a message appears in the output window.

You are ready to compile the Java files. For more information, see *Compiling the PeopleSoft API Java Programs* on page 53.

## Compiling the PeopleSoft API Java Programs

PeopleSoft places the Java programs to compile in the directory called

psoft8\_components\PeopleSoft\Generated\CompIntfc

where:

#### psoft8\_components

Is the directory specified during the build process.

If you chose to generate all APIs, the systems creates a second directory, that you are not required to access, called

psoft8\_components\PeopleSoft\Generated\PeopleSoft

The process for compiling the PeopleSoft API Java Programs depends on whether you are compiling on the machine where you installed iWay Explorer or on another machine.

□ To compile the PeopleSoft API Java programs on the **same machine where you installed iWay Explorer**, point to the psjoa.jar file or copy it to the directory where you placed the Java API files, for example, c:\psoft8\_components.

For more information, see Building the PeopleSoft API Java Programs on page 47.

❑ To compile the PeopleSoft API Java programs on a machine other than the one where you installed iWay Explorer, see How to Compile the PeopleSoft API Java Programs on Another Machine on page 53.

**Note:** There are two Java programs for every API file that you selected when you built the Java programs. For more information, see *Building the PeopleSoft API Java Programs* on page 47.

Before you compile the Java programs, you require the PeopleSoft Java Object Adapter, the psjoa.jar file, that resides on your PeopleSoft Application Server under the PS\_HOME\Web \psjoa directory. This is the file that you placed in the adapter lib directory during installation. For more information, see the *iWay Installation and Configuration* manual.

### Procedure: How to Compile the PeopleSoft API Java Programs on Another Machine

**Note:** If you are running on UNIX, do the compile and JAR steps on Windows NT and then move the file to your UNIX machine. The JAR file is binary. If you use an FTP-based tool to move your JAR file from Windows NT to UNIX, the file format must be set to binary. To compile the PeopleSoft API Java programs on a machine other than the one where you installed iWay Explorer:

- 1. Obtain a copy of the psjoa.jar file from the PeopleSoft Application Server.
- 2. Ensure that the psjoa.jar file is in the Java class path before you compile the programs.
- 3. Compile the Java programs and ensure that you include the following path:

\PeopleSoft\Generated\CompIntfc

Note: The path is case-sensitive.

The following Windows NT BAT file, run from the psoft8\_components directory, properly compiles the Java APIs. (The code assumes that psjoa.jar was placed in psoft8\_components.)

```
@echo off
set JAVA_HOME=<my-java-home>
set PATH=%JAVA_HOME%\bin;%PATH%
set CLASSPATH=%JAVA_HOME%\lib\tools.jar;psjoa.jar;%CLASSPATH%
javac -classpath %CLASSPATH% .\PeopleSoft\Generated\CompIntfc\*.java
```

#### where:

<my-java-home>

Is the fully qualified path name of your Java home directory.

This code places the class files in the same directory with the Java files, but you can choose a different location depending on your site requirements.

4. Compress the class files into a JAR file.

The following Windows BAT file, if run from the psoft8\_components directory, creates a correct JAR file:

```
@echo off
set JAVA_HOME= my-java-home
set PATH=%JAVA_HOME%\bin;%PATH%
set CLASSPATH=%JAVA_HOME%\lib\tools.jar;%CLASSPATH%
jar cvf my-jar-file.jar .\PeopleSoft\Generated\CompIntfc\*.class
```

Where appropriate, substitutions are made for my-java-home and my-jar-file.

5. To verify that your JAR file is correct, open it with the WinZip application.

File Actions	s Options	Help									
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Path					Name	<b>A</b>			Туре	Modified	
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eopleSoft\G	Senerated\@	iompIntfc)			BeaCi	iAttributesBea	PsbcitemVwCollection.cl	155	CLASS File	6/24/2003 4:56 PM	
eopleSoft\G	Senerated\(	ompIntfc)			BeaCi	AttributesColl	ection.class		CLASS File	6/24/2003 4:56 PM	
eopleSoft\G	Senerated\(	ompIntfc\			BeaCi	Messages.cla	ss		CLASS File	6/24/2003 4:56 PM	
eopleSoft\@	Senerated\(	ompIntfc\			BeaCi	MessagesBea	PsmsgfldVw.class		CLASS File	6/24/2003 4:56 PM	
eopleSoft\@	Senerated\@	iompIntfc\			BeaCi	MessagesBea	PsmsgfldVwCollection.cla	55	CLASS File	6/24/2003 4:56 PM	
opleSoft\G	Senerated\(	iompIntfc)			BeaCi	MessagesColli	ection.class		CLASS File	6/24/2003 4:56 PM	
eopleSoft\G	Senerated\(	ompIntfc\			CiCm	RuleDefn.cla	ss		CLASS File	6/24/2003 4:56 PM	
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eopleSoft\@	Senerated\C	iompIntfc\					CmpRuleDefnCollCmpRu	eRatecd.class	CLASS File	6/24/2003 4:56 PM	
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	Senerated\(					olCtg.class			CLASS File	6/24/2003 4:56 PM	
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	Senerated\(						tgCollection.class		CLASS File	6/24/2003 4:56 PM	
	Senerated\(					lCtgL1.class			CLASS File	6/24/2003 4:56 PM	
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The following image shows the PeopleSoft JAR files opened in the WinZip application.

6. If the JAR file does not use the following case-sensitive path, you must go back and correct it:

PeopleSoft\Generated\CompIntfc\

7. Place the JAR file in the common lib directory.

This enables the iWay Application Adapter for PeopleSoft to communicate with the PeopleSoft Component Interface.

For the current Windows NT version of the product, the default location is

*iWay7*\lib

For UNIX, the location is

*iWay7*/lib

where:

## iWay7

Is the full path to your iWay installation.

For more information, see the *iWay Installation and Configuration* manual.

## Configuring the PeopleSoft Message Router

This section describes how to configure and test a TCP/IP or HTTP target connector and a TCP/IP handler for PeopleSoft.

**Note:** In PeopleSoft release 8.1, the messaging architecture is called Application Messaging and includes Application Messaging Gateway. In release 8.4, the messaging architecture is called Integration Broker, which includes Integration Gateway. When discussing release-independent issues, this section uses release 8.4 terminology. When discussing release-specific issues, it uses release-specific terminology.

#### In this chapter:

Chapter

- Configuring the TCP/IP or HTTP Target Connector for PeopleSoft 8.4
- Configuring the TCP/IP Handler for PeopleSoft 8.1
- Testing Your PeopleSoft Configuration

## Configuring the TCP/IP or HTTP Target Connector for PeopleSoft 8.4

The TCP/IP message routing software, provided with the iWay Application Adapter for PeopleSoft, passes XML documents from PeopleSoft Integration Gateway to your application server.

The HTTP Outbound Connector, provided by PeopleSoft, may be used in place of the iWAY TCP/IP84 Connector in release 8.4.

This configuration topic assumes you are familiar with PeopleSoft Integration Broker (in release 8.4). If not, see *Using PeopleSoft 8 Integration Broker* on page 157 for basic information about configuring and testing. For a complete description before you work with the iWay Application Adapter for PeopleSoft, see your PeopleSoft documentation.

The procedures in this topic assume that your Integration Broker environment is configured and tested. For more information, see *Using PeopleSoft 8 Integration Broker* on page 157.

To configure the PeopleSoft 8.4 TCP/IP or HTTP Target Connector to send messages to your application server:

1. Configure the gateway for the TCP/IP Target Connector or HTTP Target Connector.

For more information, see How to Configure the Gateway for the TCP/IP Target Connector on page 58 or How to Configure the Gateway for the HTTP Target Connector on page 64.

**Note:** This step is optional when configuring the HTTP Connector. The HTTP Target Connector is supplied with your PeopleSoft application, and no special configuration steps are required. If you choose, you may configure default connection values on the Gateway. You can override these values when you configure the node.

2. Configure the node.

For more information see *How to Configure the Node for the TCP/IP84 Connector* on page 60 or *How to Configure the Node to Use the HTTP Connector* on page 66.

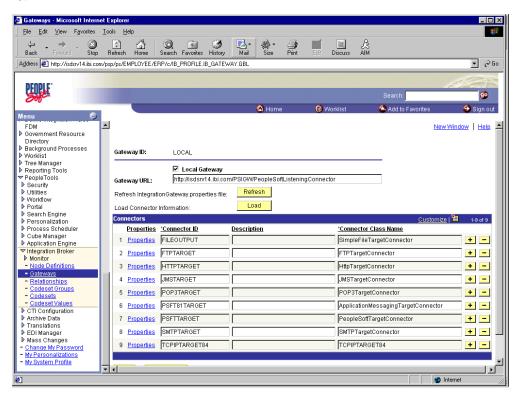
**Note:** Starting with release 8.4, the Integration Broker is delivered with an HTTP Outbound Connector. This connector can be used in place of the iWAY TCP/IP84 Connector for sending messages to your application server.

## *Procedure:* How to Configure the Gateway for the TCP/IP Target Connector

To configure the gateway for the TCP/IP Target Connector:

- 1. In a web browser, open your PeopleSoft release 8.4 application.
- 2. In the Menu pane, expand PeopleTools, Integration Broker, and then click Gateways.
- 3. Open the LOCAL Gateway ID.

The following image shows the PeopleSoft Gateway ID pane on the right. The right pane includes the following: the Local Gateway check box, the Gateway URL field, fields with information for Connector ID, Description, and Connector Class Name, Properties hyperlinks, and the Refresh and Load buttons.

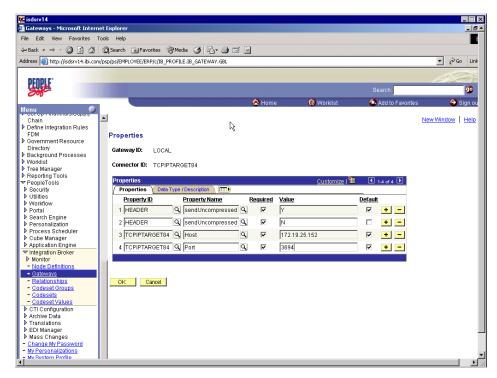


a. If you do not see the TCPIPTARGET84 Connector ID, click *Load* and scroll to locate *TCPIPTARGET84* in the list.

If TCPIPTARGET84 still does not appear, the connector class file was not installed in the Integration Gateway. For information about installing the TCPIPTAGER84 connector, see the *iWay Installation and Configuration* manual.

b. Click the *Properties* hyperlink for TCPIPTARGET84.

The following image shows the Properties pane for TCPIPTARGET84. Gateways is selected in the Menu pane. The right pane contains the following components: the Gateway ID, Connector ID, and OK and Cancel buttons.



Default values appear for the host and the port. For complex business situations, you can override this setting on the individual node.

- c. Type values for the host and the port for the machine on which your PeopleSoft XML listener is listening for incoming messages.
- 4. Click OK.

The Gateway window opens.

5. Scroll to the bottom of the window and click Save.

You have finished configuring the gateway for the TCP/IP Target Connector.

## Procedure: How to Configure the Node for the TCP/IP84 Connector

To configure the node for the TCP/IP84 Connector:

1. In the Menu pane, select PeopleTools, Integration Broker, and then click Node Definitions.

2. Select the node that you want to configure.

**Note:** This procedure uses a node called EXTERNAL. For more information about creating and using nodes, see *Using PeopleSoft 8 Integration Broker* on page 157 or your PeopleSoft documentation.

The following image shows the Node Info tab for External node on the right. It includes the following: Description, Company ID, Hub Node, Master Node, Image Name, and Code Set Group Name fields; Node Type, Routing Type, and Authentication Options lists; Active Node, Local Node, Default Local Node, and Non-Repudiation check boxes; and Copy, Rename, and Delete buttons.

- a. From the Node Type drop-down list, select External.
- b. From the Routing Type drop-down list, select *Implicit*.
- 3. Select the Connectors tab.
  - a. Select TCPIPTARGET84 as the Connector ID.

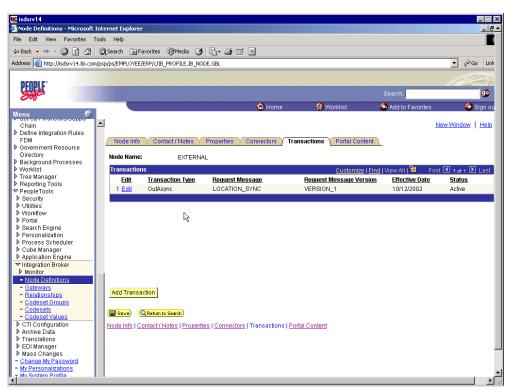
Default values appear for the host and the port.

b. Type values for the host and the port for the machine and port that route XML to your application server.

You can accept or override the default values for individual nodes.

- c. Click Save.
- d. If you are warned that you are changing the Connector, click OK.
- 4. Select the Transactions tab.

The following image shows the TCP/IP84 Connector Transaction tab for the External node type. It contains transaction details and the Add Transaction, Save, and Return to Search buttons.

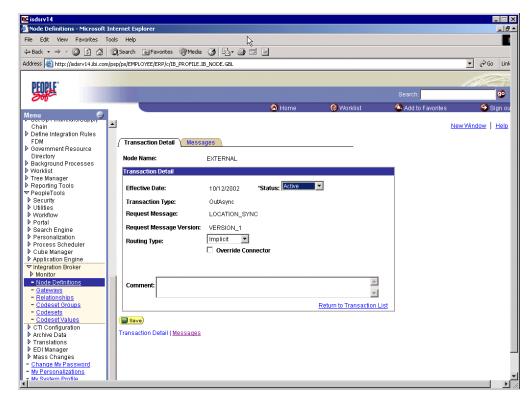


a. If there are no transactions, click *Add Transaction* to add the message with which you are working.

In this procedure, the node is already configured with the LOCATION\_SYNC message.

b. To make the Transaction Detail tab available and view transaction details for the LOCATION\_SYNC message, click *Edit*.

The following image shows the TCP/IP84 Connector Transaction Detail tab, which contains information for the following: Node Name, Effective Date, Transaction Type, Request Message, Request Message Version, and Routing Type. The Comment field is currently empty.



You can add the message with which you are working.

- c. Verify that the Routing Type is Implicit.
- 5. Click Save and return to the Transactions tab.
  - a. To edit additional transactions, click the *Edit* hyperlink to navigate to the Transaction Detail tab.
  - b. In the Transaction Detail tab, from the Status drop-down list, select Inactive.

Inactive status is for initial testing only. After you test your configuration, you can change the status to Active and have as many nodes and transactions as required to satisfy your business requirements.

6. Click Save.

You are ready to send XML messages to your PeopleSoft XML Listener.

## *Procedure:* How to Configure the Gateway for the HTTP Target Connector

To configure the gateway for the HTTP Target Connector:

- 1. In a web browser, open your PeopleSoft 8.4 application.
- 2. In the Menu pane, expand *PeopleTools*, *Integration Broker*, and then click *Gateways*.
- 3. Open the LOCAL Gateway ID.

The following image shows the HTTP Target Connector Gateway ID pane on the right and includes the following: the Local Gateway check box, the Gateway URL field, fields with information for Connector ID, Description, and Connector Class Name, Properties hyperlinks, and the Refresh and Load buttons.

Gateways - Microsoft Internet	Explorer					_ 🗆 ×
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▶ Portal	Load Connector I	nformation:	Load			
Search Engine	Connectors				Customize	1-9 of 9
Personalization Process Scheduler		iComparter ID	Deservitien	IC annu a sta		1-9 of 9
Cube Manager		*Connector ID	Description		r Class Name	
Application Engine	1 Properties	FILEOUTPUT		SimpleFile	eTargetConnector	+ -
✓ Integration Broker ▶ Monitor	2 Properties	FTPTARGET		FTPTarget	tConnector	+ -
<ul> <li>Monitor</li> <li>Node Definitions</li> </ul>	3 Properties	HTTPTARGET		HttpTarget	Connector	+ -
Gateways     Relationships	4 Properties	JMSTARGET		JMSTarge	tConnector	+ -
- Codeset Groups	5 Properties	POP3TARGET		POP3Taro	etConnector	+ -
<ul> <li><u>Codesets</u></li> <li><u>Codeset Values</u></li> </ul>		PSFT81TARGET	,		hMessagingTargetConnector	- <u></u>
CTI Configuration Archive Data		PSFTTARGET	· [		fTargetConnector	- <u></u>
▶ Translations					-	
▶ EDI Manager ▶ Mass Changes	8 Properties	SMTPTARGET		SMTPTarg	etConnector	+ -
- Change My Password	9 Properties	TCPIPTARGET84		TCPIPTAR	GET84	+ -
<ul> <li>My Personalizations</li> <li>My System Profile</li> </ul>						-
	1					
<b>6</b> ]					📄 🔂 Inte	met //.

- a. If you do not see the HTTPTARGET Connector ID, click Load.
- b. If it still does not appear, consult with your PeopleSoft system administrator as your Gateway was not installed properly.
- 4. Click the *Properties* hyperlink for HTTPTARGET.

The Properties pane for HTTPTARGET opens, as shown in the following image. Gateways is selected in the Menu pane on the left. On the right, information about Headers appears.

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PeopleSoft.				1000			
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- ChartField Values			Q [			+ -	
Gateways     Location	39 HEADER	🔍 Pragma	Q [			+ -	
- Monitor Message	40 HEADER	Proxy-Authenticate	۹ 🗆			+ -	
- Node Definitions - SYNC TEST COMP GBL	41 HEADER	Proxy-Authorization	9			+ -	
- Synchronous Details	42 HEADER	Range	<u> </u>			<u> </u>	
<ul> <li>Web Services for CIs</li> <li>Edit Favorites</li> </ul>							
Employee Self-Service	43 HEADER	Referer	<u>q</u> [			+ -	
Manager Self-Service Demand Planning	44 HEADER	Retry-After	۹ ۲			+ -	
Demand Planning	45 HEADER	SOAPAction	<u> </u>			+ -	
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D Customers D Products	47 HEADER	Q Trailer	Q [				
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Customer Contracts Order Management	48 HEADER	C Transfer-Encoding	۹ ۲			+ -	
D Order Pricing	49 HEADER	Q Upgrade	۹ 🗆			+ -	
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D eProcurement	53 HEADER	VWWV-Authenticate	Q [			+ -	
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D Asset Management							•

5. Scroll to the bottom and type a value for the PRIMARYURL.

This is the default HTTP address (machine and port) on which your PeopleSoft XML Listener is listening for incoming messages.

**Note:** For complex business situations, you can override this setting on the individual node.

6. Click OK.

The Gateway window opens.

7. Scroll to the bottom of the window and click Save.

You have finished configuring the gateway for the HTTP Target Connector.

## *Procedure:* How to Configure the Node to Use the HTTP Connector

To configure the node to use the HTTP Connector:

- 1. In the Menu pane, expand PeopleTools, Integration Broker, and then click Node Definitions.
- 2. Select the node that you want to configure.

This procedure uses a node called EXTERNAL. For more information about creating and using nodes, see *Using PeopleSoft 8 Integration Broker* on page 157 or your PeopleSoft documentation.

The following image shows the Node Info tab for External node on the right. It includes the following: Description, Company ID, Hub Node, Master Node, Image Name, and Code Set Group Name fields; Node Type, Routing Type, and Authentication Options lists; Active Node, Local Node, Default Local Node, and Non-Repudiation check boxes; and Copy, Rename, and Delete buttons.

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Node Definitions - Microsoft	Internet Explorer					_ 8 -
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Define Integration Rules						
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Government Resource						
Directory	Node Name:	EXTERNAL				
Background Processes						
Vvorklist	-					
Tree Manager	*Description:	Extrnal Node for Testing		Copy		
Reporting Tools	D D D D D D D D D D D D D D D D D D D					
PeopleTools	Company ID:			Rename		
Security						
▶ Utilities	*Node Type:	External	Active Node	Delete		
Vorkflow			🗆 Local Node			
▶ Portal	*Routing Type:	Implicit 💌				
Search Engine			🔲 Default Local Node			
Personalization	*Authentication Option:	None 💌	Non-Repudiation			
Process Scheduler	nucleon option		-			
Cube Manager						
Application Engine						
▼ Integration Broker						
Monitor	Hub Node:		٩			
<ul> <li>Node Definitions</li> </ul>			Q			
- Gateways	Master Node:					
<ul> <li>Relationships</li> </ul>	Image Name:		Q			
<ul> <li><u>Codeset Groups</u></li> </ul>	-		٩			
<ul> <li><u>Codesets</u></li> <li>Codeset Values</li> </ul>	Code Set Group Name:	I	<u>~</u>			
CTI Configuration	🔛 Save) 🔍 Return to Search)					
Archive Data	Node Info   Contact / Notes   F	Transition I Connectore I Tran	agetiano I Dortal Contant			
<ul> <li>Archive Data</li> <li>Translations</li> </ul>	Node milo ( <u>Contact) Notes</u> ( h	roperties ( connectors ) tran	sacions ( nortal Content			
EDI Manager						
Mass Changes						_
<ul> <li>Change My Password</li> </ul>						
<ul> <li><u>Change wy Password</u></li> <li>My Personalizations</li> </ul>						
- My System Profile						▶ ■
2.4						

- a. From the Node Type drop-down list, select External.
- b. From the Routing Type drop-down list, select Implicit.

3. Select the Connectors tab.

The following image shows the PeopleSoft Integration Broker Connectors tab for the External node. It includes the following: Gateway ID, Connector ID, Property ID, Property Name, and Value fields and Save and Return to Search buttons.

└─ • ⇒ - 😒 🗗 🖆 🐔	a c	• 🕲 🗭 🖪 - 🖨 🖬	1 🗏 🕄 🏦	•		
-	-					
PeopleSoft.					- Chief	Home Worklist
• • • • • • • • • • • • • • • • • • •					1.100	HUILE YYUTARSE
Menu 📃	L.,					
✓ My Favorites	•					
<ul> <li><u>Gateways</u></li> </ul>						
- Location		Node Info Contac	t/Notes / Properties /	Connector	s (Transactions ) Portal	Content
<ul> <li>Monitor Message</li> </ul>	1				<b>L</b>	
<ul> <li><u>Node Definitions</u></li> </ul>		Node Name:	EXTERNAL			
- Synchronous Details						
- Web Services for CIs						
- Edit Favorites		Gateway ID:	LOCAL		Q	
Employee Self-Service		Galeway ID.				
Manager Self-Service		Connector ID:	HTTPTARGET		9	
Demand Planning						
Enterprise Planning Production Planning		Properties	Cust	omiza I Fin	d   View All   📜 🛛 First 🖪 1-	зоғз 🗈 Last
Customers				ounce I i m		
Products		<u> </u>	pe / Description \ [===)			
Promotions		*Property ID	*Property Name	Required	Value	
Customer Contracts		1 HEADER	Q sendUncompress Q	E	Y	Q + -
Order Management		Incoder	Sendoncompres:	De:	l,	
Order Pricing		2 HTTPPROPERTY	🔍 Method 🔍	$\sim$	POST	Q + -
Customer Returns						
▶ Items		3 PRIMARYURL	Q URL Q	$\sim$	http://172.30.172.39:5576	Q + -
Cost Accounting						
Vendors						
▶ Purchasing						
▶ Inventory						
▶ eProcurement						
Sourcing		🔛 Save) 🔍 Return to Se	aroh)			
▷ Engineering						
Manufacturing Definitions		Node Into   Contact / Note	es   <u>Properties</u>   Connectors	I Iransact	ions   Portal Content	
Production Control						
Configuration Modeler						
Product Configurations						

- a. Change the Connector ID to HTTPTARGET.
- b. Type a value for each property based on the information in the following table.

Property ID	Property Name	Value
HEADER	sendUncompressed	Υ
HTTPPROPERTY	Method	POST
PRIMARYURL	URL	URL and the port of the HTTP listener

**Note:** For complex business situations you can configure multiple nodes and multiple listeners.

c. Click Save.

- d. If you are warned that you are changing the Connector, click OK.
- 4. Select the Transactions tab.

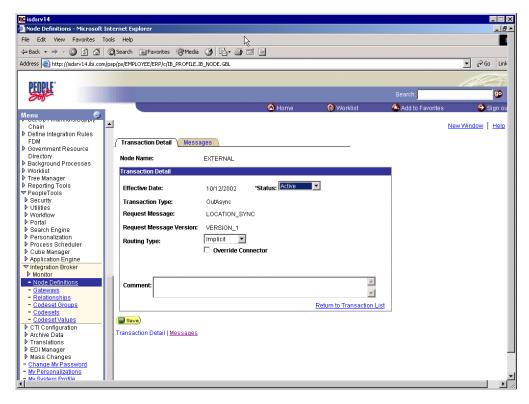
The following image shows the Transactions tab selected. It contains the node name, Transaction information, and the Add Transaction, Save, and Return to Search buttons.

🚾 isdsrv14		11						_
Node Definitions - Microsoft								5 ▲
File Edit View Favorites	Tools	Help						
수 Back • ㅋ > ~ 🙆 🙆 🖄								
Address 🕘 http://isdsrv14.ibi.co	m/psp	/ps/EMPLOYEE/	ERP/c/IB_PROFILE.IB_N	DDE.GBL			💌 🔗 Go Lii	nk
							1000	
PEOPLE								
200						Search:	90	
				🙆 Home	🚯 Worklist	🙆 Add to Favorites	😔 Sign d	ju –
Menu 🥯	<b></b>							
Chain							New Window Hel	2
Define Integration Rules								
FDM		Node Info	Contact / Notes	Properties Connectors	Transactions   Portal Content			
Government Resource	1					-		
Directory		Node Name:	EXTERN	AL				
Background Processes Worklist		Transaction	•				irst 🖪 1 of 1 🕨 Last	e i i
Tree Manager			-		Customize   Fin			41
Reporting Tools		Edit	Transaction Type	Request Message	Request Message Version	Effective Date	Status	
▼ PeopleTools		1 Edit	OutAsync	LOCATION_SYNC	VERSION_1	10/12/2002	Active	
Security								
▶ Utilities								
Workflow			R					
▶ Portal			~~					
<ul> <li>Search Engine</li> <li>Personalization</li> </ul>								
Process Scheduler								
Cube Manager								
Application Engine								
▼ Integration Broker								
▶ Monitor								
<ul> <li><u>Node Definitions</u></li> </ul>								
- Gateways		Add Transa	ction					
- Relationships		Add Halloa	caon					
<ul> <li><u>Codeset Groups</u></li> <li>Codesets</li> </ul>								
- Codeset Values		📳 Save) (	Return to Search					
CTI Configuration		Node Info I Co	ontact (Notes   Propert	ies   Connectors   Transactions	Portal Content			
Archive Data			10001		1. Cital Domona			
▶ Translations								
EDI Manager								
Mass Changes								
<ul> <li>Change My Password</li> <li>My Personalizations</li> </ul>								
- My System Profile								-
								١Ū

5. If there are no transactions, click Add Transaction.

In this procedure, the node is already configured with the LOCATION\_SYNC message.

The following image shows the PeopleSoft Integration Broker Transaction Detail tab for the External node. It contains information for the following: Effective Date, Status, Transaction Type, Request Message, Request Message Version, and Routing Type. Currently, the Comment field is empty.



You can add the message with which you are working.

- a. Verify that the Routing Type is Implicit.
- b. Click Save.
- 6. Click Return to Transaction List.
  - a. If there are other transactions, edit them.
  - b. Set the status to Inactive.

Inactive status is for initial testing only. After you test your configuration, you can change the status to Active and have as many nodes and transactions as required to satisfy your business requirements.

7. Click Save.

You are ready to send XML messages to your PeopleSoft XML Listener.

## Configuring the TCP/IP Handler for PeopleSoft 8.1

This configuration topic assumes you are familiar with Application Messaging (in release 8.1) and assumes that your Application Messaging environment is properly configured and tested. If not, see *Using PeopleSoft 8 Integration Broker* on page 157 for basic information about configuring and testing. For a complete description before you work with the iWay Application Adapter for PeopleSoft, see your PeopleSoft documentation.

## Procedure: How to Configure the TCP/IP Handler for PeopleSoft 8.1

To configure the TCP/IP Handler for PeopleSoft 8.1 to send messages to your application server:

- 1. In a web browser, launch the PeopleSoft 8.1 Gateway Configuration servlet interface.
- If the Simple File Handler is currently loaded, unload and delete it before proceeding. You must see an empty Handler directory.

The following image shows an empty PeopleSoft Handler directory with areas to view status, Load, Unload, Configure, or Delete. The Add handler button appears on the left.

April 18000/servlets/gatew	vay.administration - Microsoft Internet Explorer	_ 8 ×
<u>Eile Edit ⊻iew Favorites T</u> ools <u>H</u>	elp	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100
↔ ↔ ↔ ⊗ 🕅 Back Forward Stop Refresh	Home Search Favorites History Mail Print Edit Discuss AlM	
Address 🙋 http://esdsun:18000/servlets/ga	steway. administration	🔻 🔗 Go
PeopleSoft 8.17	Handler Directory	<u> </u>
Handler	Status	Load Unload Configure Delete
A 111 U		
Add handler		~

- a. Click Add handler.
- b. In the Handler class field, type the full path of TCPIPHandler81 (case-sensitive):

psft.pt8.tcphandler.TCPIPHandler81

3. Click Save.

The following image shows a loaded Add Handler directory.

Edit       View       Favorites       Local       Lepity         Back       Forward       Stop       Refresh       Home       Search       Favorites       History       Mail       Print       Edit       Discuss       AlM         Address       Hittp://esdsun:18000/servlets/gateway.administration       Mail       Print       Edit       Discuss       AlM	
Back Forward Stop Refresh Home Search Favoniles Histony Mail Print Edit Discuss AIM gddress 🗃 http://esdsurc18000/servlets/gateway.administration	<b>▼</b> ∂G
	• 🖓 Gu
Add Handler	
Handler class: pstt.pt8.tcphandler.TCPIPHandler81 Save Cancel	

- 4. When you return to the PeopleSoft Handler directory, click Load.
- 5. Click Configure.

The following image shows the Add TCPIP81 Handler Directory window. It contains an Add a TCPIP81 node button and a Back to Handler Directory hyperlink.

http://esdsun:18000/servlets/ga	teway administration - Microsoft Ir	nternet Explorer
<u>File Edit View Favorites Iools</u>		
Back Forward Stop Re	fresh Home Search Favorites	
ddress 🧃 http://esdsun:18000/servle		
	argaterray.daminerration	
CPIP81 Han	dler Directory	7
	•	
Node Name	Host:Port	Trace Directory Edit Delete
Add a TCPIP81 node		
Add a TCPIPoT flode		
ack to Handler Directory		
Done		👬 Local intranet

a. Click Add a TCPIP81 node.

This procedure uses a node named EXTERNAL. For more information about creating and using nodes, see *Using PeopleSoft 8 Integration Broker* on page 157 or your PeopleSoft documentation.

b. Enter the requested values based on the information in the following table.

Field	Value Example	Description
Node Name	EXTERNAL	Name of the TCP/IP node.
Host Name	172.19.25.152	Machine on which your PeopleSoft XML listener is listening for incoming messages.
Port	3694	Port on which your PeopleSoft XML listener is listening for incoming messages.
Trace Director y	/tmp	Directory where a trace file is created when errors occur in message delivery.

The system does not validate your entries.

- 6. Click Save.
- 7. For your changes to take effect, click *Back to Handler Directory* to return to the PeopleSoft 8.1 Handler Directory window.
- 8. Click Unload and re-Load TCPIPHandler81.

You are now ready to send messages from PeopleSoft to your application server.

## **Testing Your PeopleSoft Configuration**

PeopleSoft 8.1 and 8.4 provide a ping node mechanism for testing your configuration. The mechanism functions identically in both versions.

You test your configuration to ensure that:

- □ Your application server is up and running.
- The server name and/or port number for PeopleSoft and your application server match.
- □ The default page for HTTP exists.

## Procedure: How to Test a PeopleSoft Configuration

To test a PeopleSoft configuration:

1. In a web browser, open your PeopleSoft application.

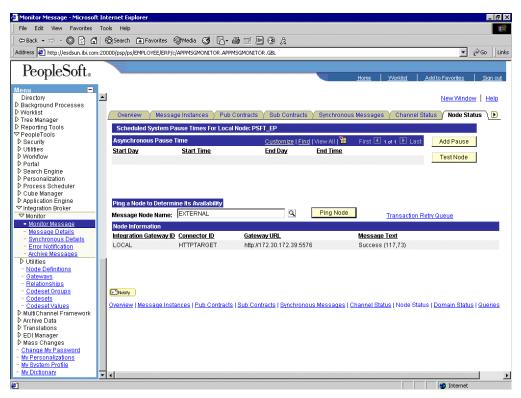
2. Navigate to the message monitoring menu.

**For PeopleSoft 8.4:** In the Menu pane, expand *PeopleTools, Integration Broker, Monitor,* and then select *Monitor Message*.

**For PeopleSoft 8.1:** In the Menu pane, expand Home, PeopleTools, Application Message Monitor, Use, and then select Application Message Monitor.

3. Click the Node Status tab.

The following image shows the Node Status tab which contains areas where you can schedule system pause times for the local node, ping a node to determine its availability, and view node information.



- a. From the Message Node Name drop-down list, select your node.
- b. Click Ping Node.

If you properly configured both PeopleSoft and your application server, you receive a Success message.

An error indicates a configuration problem. For more information, see the Integration Broker error log.

## Creating XML Schemas or Web Services for PeopleSoft

This section describes how to create XML schemas and generate web services (business services) for PeopleSoft business objects using iWay Explorer.

#### In this chapter:

Chapter

- XML Schema and Web Services for PeopleSoft Overview
- Starting iWay Explorer
- Establishing a Target for PeopleSoft
- Modifying a Target
- Viewing Application System Objects
- Creating an XML Schema
- Generating a Web Service for PeopleSoft

#### XML Schema and Web Services for PeopleSoft Overview

The iWay Application Adapter for PeopleSoft enables the processing of Component Interfaces and Messages.

External applications that access PeopleSoft through the adapter use either XML schemas or web services to pass data between the external application and the adapter. You can use iWay Explorer to create the required XML schemas and web services.

For more information on installing and configuring iWay Explorer, see the *iWay Installation and Configuration* manual.

## Starting iWay Explorer

Before you can use iWay Explorer, you must start your application server.

#### Procedure: How to Open iWay Explorer

To open iWay Explorer:

- 1. Ensure that your application server is running.
- 2. Enter the following URL in your browser:

http://hostname:port/iwae/index.html

where:

#### hostname

Is the name of the machine where your application server is running.

port

Is the port for the domain you are using for iWay.

iWay Explorer opens.

The iWay Adapters tab is active, and a list of the supported adapters appears on the left as shown in the following image. In the upper right, the Available Hosts drop-down list displays a Servlet iBSP instance you can access. A Welcome message appears on the right.

FWay Software	Available Hosts:	ibse configuration 💌
iWay Adapters <u>iWay Events</u>	iWay Business Services	
🖃 🦁 iWay Adapters 南 💷 iway	Welcome	
<ul> <li>Procee Applications</li> <li>PropleSoft</li> <li>PRDBMS</li> <li>SAP</li> <li>Siebel</li> </ul>	This iWay Application Explorer is container using the set of metao Services provided by the iWay V iWay Adapter Framework.	data introspection Web

For more information on adding instances, see the *iWay Installation and Configuration* manual.

You are ready to create new targets for PeopleSoft.

## Establishing a Target for PeopleSoft

To browse PeopleSoft business objects, you must create a target for the system you intend to use. The target serves as your connection point and automatically is saved after you create it. For information on creating a target, see *How to Create a New Target* on page 77.

You must establish a connection to the system every time you start iWay Explorer or after you disconnect from the system. When you open iWay Explorer, a list of supported application systems appears in the left pane. The list is based on the adapters that you installed and for which you have licenses. For information on connecting to a target, see *How to Connect to a Target* on page 78.

## Procedure: How to Create a New Target

To create a new target using iWay Explorer:

- 1. Click iWay Adapters.
- 2. Click the PeopleSoft node.
- 3. Move the pointer over Operations and select Define a new target.

The Add a new PeopleSoft target pane opens on the right as shown in the following image.

Add a new PEOPLESOFT target					
Targets represent configured connections to instances of backend systems. Choose a name and description for the new target that you wish to create.					
Target Name:	PSConnect				
Description:	Created on 2/1/04				
Target Type:	Application Server				
Help	< Back Next > Cancel				

- a. In the Target Name field, type a descriptive name for the target, for example, PSConnect.
- b. In the Description field, type a brief description for the connection (optional).
- c. From the Target Type drop-down list, select the type of target to which you are connecting.

The default value is Application Server.

4. Click Next.

The Set connection info pane opens on the right as shown in the following image.

#### Set connection info

Application Server:	esdsun
Port:	23240
User:	VP1
Password:	kok
Help	Back Finish Cancel

- a. In the Application Server field, type the host name or IP address for the computer that is hosting the PeopleSoft application.
- b. In the Port field, type the port number where the PeopleSoft application listens.
- c. In the User field, type a valid user ID for the PeopleSoft application.
- d. In the Password field, type a valid password for the PeopleSoft application.
- 5. Click Finish.

The PeopleSoft target, PSConnect, appears below the PeopleSoft node in the left pane as shown in the following image.



You are ready to connect to your PeopleSoft target.

## *Procedure:* How to Connect to a Target

To connect to a target using iWay Explorer:

1. Expand the *PeopleSoft* node and select the target you defined, for example, PSConnect, as shown in the following image.



- 2. In the right pane, move the pointer over Operations and select Connect.
- 3. In the Password field, enter a valid password and click OK.

The following image shows the change in the PSConnect node that reflects that a connection was made.



4. Expand the PSoftConnect node.

The following PeopleSoft business objects appear:

- Component Interfaces
- Messages
- Component Interfaces (RPC)

#### Procedure: How to Disconnect From a Target

To disconnect from a target using iWay Explorer:

1. In the left pane, click the target to which you are connected, for example, PSConnect.

The following image shows the PSConnect target below the expanded PeopleSoft ports node in the left pane and the Operations menu in the right pane.



2. Move the pointer over Operations and select Disconnect.

Disconnecting from the application system drops the connection, but the node remains. The PSConnect node changes to reflect that a connection was closed.

## Modifying a Target

After you create a target for PeopleSoft using iWay Explorer, you can edit any of the information that you provided previously. For more information, see *How to Edit a Target* on page 80.

Although you can maintain multiple open connections to different application systems, it is recommended that you close connections when you are not using them. For information on disconnecting from a target, see *How to Disconnect From a Target* on page 79.

In addition to closing a connection, you can delete a target that is no longer required. You can delete it whether or not it is closed. If open, the target automatically closes before it is deleted. For more information, see *How to Delete a Target* on page 81.

#### *Procedure:* How to Edit a Target

To edit a target using iWay Explorer:

- 1. In the left pane, click the target, for example, PSConnect.
- 2. In the right pane, move the pointer over Operations and select Edit.

The Edit PeopleSoft target pane opens on the right as shown in the following image. It shows the fields for Target Name and Description, the Target Type drop-down list, and buttons to click to choose whether to proceed to the next pane or to cancel the action.

#### Edit PEOPLESOFT target PSConnect

Targets represent configured connections to instances of backend systems. Choose a name and description for the new target that you wish to create.

Target Name:	PSConnect				
Description:					
Target Type:	Application Server		*		
Help	< Back	lext >		Cancel	٦

- 3. Modify the connection information.
- 4. To display additional information, click Next.
- 5. After you complete your edits in the next pane, click Finish.

#### *Procedure:* How to Delete a Target

To delete a target using iWay Explorer:

- 1. In the left pane, click the target, for example, PSConnect.
- 2. In the right pane, move the pointer over *Operations* and select *Delete*.

A confirmation dialog box opens, as shown in the following image.

Microsoft Internet Explorer			
? Delete	this item ?		
ОК	Cancel		

3. To delete the target you selected, click OK.

The PSConnect node disappears from the left pane.

## **Viewing Application System Objects**

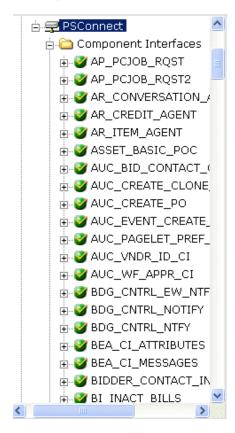
After you connect to PeopleSoft, iWay Explorer enables you to explore and browse business object metadata. For example, iWay Explorer enables you to view PeopleSoft Component Interface and Message metadata stored in the PeopleSoft business object repository.

#### Procedure: How to View Application System Objects

To view application system objects:

- 1. Click the icon to the left of the target name, for example, PSConnect.
- 2. To expand the desired PeopleSoft repository node, click the icon to the left of the repository name, for example, Component Interfaces.

The following image shows the list of PeopleSoft Component Interfaces that appears in the left pane.



You can now generate schemas. For more information, see *Creating an XML Schema* on page 82.

## Creating an XML Schema

After you browse the PeopleSoft business object repository, you can generate XML request and response schemas for the object you wish to use with your adapter.

When the adapter is used with an iBSP configuration, iWay Explorer stores the schemas in a subdirectory of the iWay installation directory, for example,

```
C:\Program Files\iWay7\config\base\wsdl\schemas\service\
peoplesoft\Psoft
```

where:

#### Psoft

Is the name of the connection to the PeopleSoft system as defined in iWay Explorer.

Under this directory, iWay Explorer creates subdirectories containing schemas.

## Procedure: How to Create an XML Schema

To create XML request and response schemas for a PeopleSoft Component Interface using iWay Explorer:

- 1. Select the Component Interface you require.
- 2. In the right pane, move the pointer over Operations and select Generate Schema.

The Schemas pane opens on the right with a table that defines the root tag for each schema and provides associated hyperlinks as shown in the following image.

#### Schemas

Part	Root Tag	Schema
Request	PS8	
Response	PS8	
Event	N/A	N/A
EventReply	N/A	N/A

	OK	Cancel	
--	----	--------	--

3. Click the hyperlink associated with the type of schema you want to view.

The XML schema appears on the right as shown in the following image.

xml version="1.0" encoding="UTF-8" ?
Generated by the iBSE 2004-02-06T19:29:27Z</p
>
- <xsd:schema< td=""></xsd:schema<>
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
targetNamespace="urn:iwaysoftware:adapter:peoplesoft
xmlns:ci="urn:iwaysoftware:adapter:peoplesoft:ci"
elementFormDefault="unqualified">
- <xsd:element name="PS8"></xsd:element>
- <xsd:complextype></xsd:complextype>
- <xsd:sequence></xsd:sequence>
- <xsd:element name="component"></xsd:element>
- <xsd:complextype></xsd:complextype>
- <xsd:simplecontent></xsd:simplecontent>
- <xsd:extension< p=""></xsd:extension<>
<pre>base="xsd:string"&gt;</pre>
- <xsd: attribute<="" p=""></xsd:>
name=" <b>perform</b> "
use="optional"
default="browse">
- <xsd:simpletype></xsd:simpletype>
- <xsd:restriction< p=""></xsd:restriction<>
base="xsd:string">
<xsd:enumeration< td=""></xsd:enumeration<>
ushes-"browses" /s

4. To return to the previous window, click the *Back* button on your web browser.

After you create schemas, you can create web services.

After you create schemas, you can also create events. For more information, see *Listening for PeopleSoft Events* on page 91.

## Generating a Web Service for PeopleSoft

You can generate web services for PeopleSoft. To generate web services, you must deploy the adapter in a web services environment using iWay Business Services Provider (iBSP). iBSP exposes functionality as web services and serves as a gateway to heterogeneous back-end applications and databases.

A web service is a self-contained, modularized function that can be published and accessed across a network using open standards. It is the implementation of an interface by a component and is an executable entity. For the caller or sender, a web service can be considered a "black box" that may require input and delivers a result. Business services can be integrated within an enterprise as well as across enterprises on any communication technology stack, whether asynchronous or synchronous, in any format.

You can make web services available to other services within a host server by generating WSDL (Web Services Description Language) from the web service.

#### *Procedure:* How to Create a Web Service

To create a web service for PeopleSoft:

- 1. If you have not already done so, connect to a PeopleSoft target as described in *Establishing a Target for PeopleSoft* on page 76.
- 2. Expand the PeopleSoft node and select the interface for which you want to create a web service.
- 3. In the right pane, move the pointer over *Operations* and select *Create iWay Business* Services.

The Create Web Service pane opens on the right as shown in the following image.

#### **Create Web Service for LOCATION**



You can select to create a new service or you can select to use an existing service.

If you select to create a new service, the following Create Web Service pane opens.

Create	Web	Service	for	LOCATION
--------	-----	---------	-----	----------

Service Name:	
Description:	
License:	production test
Help <	Back Next > Cancel

- a. In the Service Name field, type a descriptive name for the web service.
- b. In the Description field, type a brief description of the web service (optional).
- c. From the License list, select production or test.
- 4. Click Next.

The following image shows the next pane that opens, where you continue to input information.

Create Web Ser	vice for LOCA	TION	
Method Name:			
Description:			~ ~
Help	< Back	Finish	Cancel

- a. In the Method Name field, type a descriptive name for the method.
- b. In the Description field, type a brief description of the method (optional).
- 5. Click Finish.

iWay Explorer switches the view to the iWay Business Services tab, and the new web service appears in the left pane.

#### **Testing a Web Service**

After a web service is created, test it to ensure that it functions properly. A test tool is provided for testing the web service.

#### Procedure: How to Test a Web Service

To test a web service:

- 1. If you are not on the iWay Business Services tab of iWay Explorer, click the tab to access web services.
- 2. If it is not expanded, expand the list of web services under iWay Business Services.
- 3. Expand the Services node.
- 4. Select the name of the web service you want to test.

The web service name appears as a hyperlink in the right pane.

5. In the right pane, click the named web services hyperlink.

The test option appears in the right pane.

If you are testing an iWay Business Service that requires XML input, an input xml field appears as shown in the following image.

Click here for a complete list of operations.

## test

#### Test

To test the operation using the **SOAP protocol**, click the 'Invoke' button.

input xml:		
		~
		~
	Browse Upload More Invo	ke

- 6. In the input xml field, either type a sample XML document that queries the service or browse to the location of an XML instance and click *Open*.
- 7. Click Invoke.

iWay Explorer displays the results in the right pane.

The following image shows a sample XML returned by iBSP.

```
<?xml version="1.0" encoding="UTF-8" ?>
- <SOAP-ENV:Envelope</p>
   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:SOAP-
   ENV="http://schemas.xmlsoap.org/soap/envelope/"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-
   instance">
 - <SOAP-ENV:Body>

    <GetLocationResponse</li>

      xmlns="urn:iwaysoftware:ibse:jul2003:GetLocation:r
      cid="0714715118B19677314F2AFA356F0EEE">
     - <PS8>
      - <result>
        - <LOCATION TBL row="1">
            <SETID>SHARE</SETID>
             <LOCATION>ALBERTA</LOCATION>
            <EFFDT>05/25/2006</EFFDT>
             <EFF_STATUS>A</EFF_STATUS>
            <DESCR>Alberta -
             Canada</DESCR>
            <DESCR_AC_0 />
            <DESCRSHORT />
            <BUILDING />
```

#### *Example:* Retrieving a List of Locations

The following sample run-time input XML file retrieves a list of locations using the LOCATION Component Interface.

<FLOOR />



# Listening for PeopleSoft Events

This section describes how to use iWay Explorer to connect to PeopleSoft and listen for events. Several port dispositions are available, and you can choose the technique that best suits your requirements.

#### In this chapter:

- Understanding Event Functionality
- Creating, Editing, or Deleting a Port
- Creating, Editing, or Deleting a Channel

## **Understanding Event Functionality**

Events are generated as a result of activity in an application system. You can use events to trigger an action in your application. For example, PeopleSoft may generate an event when customer information is updated. If your application performs an action when this happens, your application is a consumer of this event.

After you create a connection to your application system, you can add events using iWay Explorer. To create an event, you must create a port and a channel.

The following is a description of how ports and channels work.

#### Port

A port associates a particular business object exposed by an adapter with a particular disposition. A disposition defines the protocol and location of the event data. The port defines the end point of the event consumption. For more information, see *Creating, Editing, or Deleting a Port* on page 92.

#### Channel

A channel represents configured connections to particular instances of back-end or other types of systems. A channel binds one or more event ports to a particular listener managed by an adapter. For more information, see *Creating, Editing, or Deleting a Channel* on page 103.

# Creating, Editing, or Deleting a Port

You can create, edit, or delete an event port using iWay Explorer.

You create a port for a PeopleSoft Message from the iWay Adapters tab or from the iWay Events tab. The following dispositions are available when using iWay Explorer in conjunction with an iBSP implementation.

- □ **File.** The File disposition uses a file URL to specify the destination file name or directory where the event document will be written. During run time, the destination file name may require indexing to avoid overwriting. For more information, see *How to Create an Event Port for the File Disposition* on page 93.
- **HTTP.** The HTTP disposition uses an HTTP URL to specify an HTTP end point to which the event document is posted. For more information, see *How to Create a Port for the HTTP Disposition* on page 94.
- □ **iBSP.** The iBSP disposition enables an event to launch a business service method. For more information, see *How to Create a Port for the iBSP Disposition* on page 95.
- □ JMSQ. The JMS queue disposition enables an event to be enqueued to a JMS queue. For more information, see *How to Create an Event Port for the JMS Queue Disposition* on page 100.
- **SOAP.** The SOAP disposition enables an event to launch a business service specified by a WSDL file. A SOAP action is optional; "" is the default value. For more information, see *How* to Create a Port for the SOAP Disposition on page 97.
- **MSMQ.** The Microsoft Message Queuing (MSMQ) disposition supports public and private queues. For more information, see *How to Create a Port for the MSMQ Disposition* on page 96.
- **MQSeries.** The MQSeries disposition enables an event to be enqueued to an MQSeries queue. Both queue manager and queue name may be specified. For more information, see *How to Create a Port for the MQSeries Disposition* on page 101.
- **MAIL.** The MAIL disposition option will be supported in a future release.

For information on editing a port, see *How to Edit an Event Port* on page 102. For information on deleting a port, see *How to Delete an Event Port* on page 102.

## Procedure: How to Create an Event Port for the File Disposition

To create a specific event port for the File disposition using iWay Explorer:

- 1. Click the *iWay Events* tab.
- 2. In the left pane, expand the *PeopleSoft* node.
- 3. Select the *ports* node.
- 4. Move the pointer over Operations and select Add a new port.

The Create New Port pane opens on the right as shown in the following image where you choose parameters for the new port.

Create	New	Port
--------	-----	------

Choose parameters of the port that you wish to create.

Port Name:	
Description:	
Disposition Protocol:	FILE 💌
Disposition:	ifile://[location];errorTo=[pre-define

	ОК		Cancel
		•	

a. In the Port Name field, type a name for the event.

**Note:** Ensure that you specify a name that conforms to standards set by PeopleSoft. For example, when using PeopleSoft, periods are not allowed. You must remove all instances of this character.

- b. In the Description field, type a brief description (optional).
- c. From the Disposition Protocol drop-down list, select FILE.
- d. In the Disposition field, type a File destination to which event data is written.

When pointing iWay Explorer to an iBSP deployment, specify the destination file using the following format:

```
ifile://[location];
errorTo=[pre-defined port name or another disposition url]
```

Parameter	Description
location	Destination and file name of the document where event data is written, for example, ifile://D:\in\x.txt;errorTo=ifile://D:\error.
errorTo	Location where error documents are sent. Predefined port name or another full URL. Optional.

The following table lists and describes the parameters for the disposition.

5. Click OK.

The event port appears under the ports node in the left pane. In the right pane, a table appears that summarizes the information associated with the event port you created.

You are ready to associate the event port with a channel. For more information, see *Creating, Editing, or Deleting a Channel* on page 103.

## *Procedure:* How to Create a Port for the HTTP Disposition

To create a port for an HTTP disposition using iWay Explorer:

- 1. Click the *iWay Events* tab.
- 2. In the left pane, expand the *PeopleSoft* node.
- 3. Select the *ports* node.
- 4. Move the pointer over Operations and select Add a new port.

The Create New Port pane opens on the right.

To point the iWay Explorer to an iBSP deployment, follow the steps in *How to Create a Port* for the *HTTP Disposition for an iBSP Deployment* on page 94.

#### Procedure: How to Create a Port for the HTTP Disposition for an iBSP Deployment

To create a port for the HTTP Disposition and point iWay Explorer to an iBSP deployment:

- 1. Perform the procedure, *How to Create a Port for the HTTP Disposition* on page 94.
- 2. In the Port Name field, type a name for the event.
- 3. In the Description field, type a brief description (optional).
- 4. From the Disposition Protocol drop-down list, select HTTP.

- 5. In the Disposition field, enter an HTTP destination.
- 6. To point iWay Explorer to an iBSP deployment, use the following format

```
ihttp://[myurl];responseTo=[pre-defined port name or another
disposition url];
```

where:

myurl

Is the URL target for the post operation, for example,

http://myhost:1234/docroot

#### responseTo

Is the location where responses are posted, if desired.

7. Click OK.

The port appears under the ports node in the left pane. In the right pane, a table appears that summarizes the information associated with the event port you created.

You are ready to associate the event port with a channel. For more information, see *Creating, Editing, or Deleting a Channel* on page 103.

#### *Procedure:* How to Create a Port for the iBSP Disposition

To create a port for an iBSP disposition using iWay Explorer:

- 1. Click the *iWay Events* tab.
- 2. In the left pane, expand the *PeopleSoft* node.
- 3. Select the *ports* node.
- 4. Move the pointer over Operations and select Add a new port.

The Create New Port pane opens on the right.

- a. In the Port Name field, type a name for the event.
- b. In the Description field, type a brief description (optional).
- c. From the Disposition Protocol drop-down list, select *iBSP*.
- d. In the Disposition field, enter an iBSP destination in the form of:

ibse:svcName.mthName; responseTo=[pre-defined port name or another disposition url]; errorTo=[pre-defined port name or another disposition url] The following table lists and describes the parameters for the disposition.

Parameter	Description
svcName	Name of the service created with iBSP.
mthName	Name of the method created for the business service.
responseTo	Location where responses to the business service are posted. Predefined port name or another full URL. Optional.
errorTo	Location where error documents are sent. Predefined port name or another full URL. Optional.

#### 5. Click OK.

The port appears under the ports node in the left pane. In the right pane, a table appears that summarizes the information associated with the port you created.

You are ready to associate the event port with a channel. For more information, see *Creating, Editing, or Deleting a Channel* on page 103.

#### Procedure: How to Create a Port for the MSMQ Disposition

To create a port for an MSMQ disposition using iWay Explorer:

- 1. Click the *iWay Events* tab.
- 2. In the left pane, expand the *PeopleSoft* node.
- 3. Select the *ports* node.
- 4. Move the pointer over Operations and select Add a new port.

The Create New Port pane opens on the right.

- a. In the Port Name field, type a name for the event.
- b. In the Description field, type a brief description (optional).
- c. From the Disposition Protocol drop-down list, select MSMQ.
- d. In the Disposition field, enter a MSMQ destination in the form of:

msmq:/host/private\$/qName; errorTo=[pre-defined port name or another disposition url]

Parameter	Description
host	Machine name where the Microsoft Queuing system is running.
Queue Type	For private queues, enter <i>Private</i> \$. Private queues are queues that are not published in Active Directory. They appear only on the local computer that contains them. Private queues are accessible only by Message Queuing applications that recognize the full path name or format name of the queue.
qName	Name of the private queue where messages are placed.
errorTo	Location where error documents are sent. Predefined port name or another full URL. Optional.

The following table lists and describes the parameters for the disposition.

5. Click OK.

The port appears under the ports node in the left pane. In the right pane, a table appears that summarizes the information associated with the port you created.

You are ready to associate the event port with a channel. For more information, see *Creating, Editing, or Deleting a Channel* on page 103.

#### Procedure: How to Create a Port for the SOAP Disposition

To create a port for a SOAP disposition:

- 1. Click the *iWay Events* tab.
- 2. In the left pane, expand the *PeopleSoft* node.
- 3. Select the *ports* node.
- 4. Move the pointer over Operations and select Add a new port.

The Create New Port pane opens on the right.

- a. In the Port Name field, type a name for the event.
- b. In the Description field, type a brief description (optional).
- c. From the Disposition Protocol drop-down list, select SOAP.

d. In the Disposition field, enter an SOAP destination, using the following format:

```
soap:[wsdl-url];soapaction=[myaction];
method=[web service method];namespace=[namespace];
responseTo=[pre-defined port name or another disposition URL];
errorTo=[pre-defined port name or another disposition url]
```

The following table lists and describes the parameters for the disposition.

Parameter	Description
wsdl-url	The URL to the WSDL file that is required to create the SOAP message, for example:
	<pre>http://localhost:7001/ibse/IBSEServlet/test/ webservice.ibs?wsdl</pre>
	where:
	webservice
	Is the name of the web service you created using iWay Explorer.
	To find this value, navigate to the <i>iWay Business Services</i> tab and open the <i>Service Description</i> hyperlink in a new window. The WSDL URL appears in the Address field.
	You can also open the WSDL file in a third party XML editor (for example, XMLSPY) and view the SOAP request settings to find this value.

Parameter	Description	
soapaction Method called by the SOAP disposition, for example:		
	webservice.method@test@@	
	where:	
	webservice	
	Is the name of the web service you created using iWay Explorer.	
	method	
	Is the method being used.	
	test	
	Is the license that is being used by the web service.	
	To find this value, navigate to the <i>iWay Business Services</i> tab and open the <i>Service Description</i> hyperlink in a new window. Perform a search for <i>soapAction</i> .	
method	The web service method you are using. This value can be found in the WSDL file.	
namespace	The XML namespace you are using. This value can be found in the WSDL file.	
responseTo	Location where responses are posted. Predefined port name or another disposition URL. Optional.	
	The URL must be complete, including the protocol.	
errorTo	Location where error documents are sent. Predefined port name or another full URL. Optional.	

#### 5. Click OK.

The event port appears under the ports node in the left pane. In the right pane, a table appears that summarizes the information associated with the event port you created.

You are ready to associate the event port with a channel. For more information, see *Creating, Editing, or Deleting a Channel* on page 103.

## Procedure: How to Create an Event Port for the JMS Queue Disposition

To create a port for a JMS queue disposition using iWay Explorer:

- 1. Click the *iWay Events* tab.
- 2. In the left pane, expand the *PeopleSoft* node.
- 3. Select the *ports* node.
- 4. Move the pointer over Operations and select Add a new port.

The Create New Port pane opens on the right.

- a. In the Port Name field, type a name for the event.
- b. In the Description field, type a brief description (optional).
- c. From the Disposition Protocol drop-down list, select *JMSQ*.
- d. In the Disposition field, enter a JMS destination.

When pointing iWay Explorer to an iBSP deployment, use the following format:

```
jmsq:myQueueName@myQueueFac;jndiurl=[myurl];
jndifactory=[myfactory];user=[user];password=[xxx];
errorTo=[pre-defined port name or another disposition url]
```

The following table lists and describes the parameters for the disposition.

Parameter	Description
queue	Name of a queue to which events are emitted.
Connection Factory	A resource that contains information about the JMS Server.
jndi_url	The URL to use to contact the JNDI provider. The syntax of this URL depends on the JNDI provider that is used. This value corresponds to the standard JNDI property: java.naming.provider.url
jndi_factory	Is JNDI context. INITIAL_CONTEXT_FACTORY and is provided by the JNDI service provider.
user	User ID associated with this queue.
password	Password for the user ID.

_	Parameter	Description	
-	errorTo	Location where error documents are sent. Predefined port name or another full URL. Optional.	

5. Click OK.

The port appears under the ports node in the left pane. In the right pane, a table appears that summarizes the information associated with the port you created.

You are ready to associate the event port with a channel. For more information, see *Creating*, *Editing*, *or Deleting a Channel* on page 103.

#### Procedure: How to Create a Port for the MQSeries Disposition

To create a port for an MQSeries disposition using iWay Explorer:

- 1. Click the *iWay Events* tab.
- 2. In the left pane, expand the *PeopleSoft* node.
- 3. Select the *ports* node.
- 4. Move the pointer over Operations and select Add a new port.

The Create New Port pane opens on the right.

- a. In the Port Name field, type a name for the event.
- b. In the Description field, type a brief description (optional).
- c. From the Disposition Protocol drop-down list, select MQSeries.
- d. In the Disposition field, enter an MQSeries destination.

When pointing iWay Explorer to an iBSP deployment, use the following format:

```
mqseries:/qManager/qName;host=[hostname];port=[port];
channel=[channnelname];
errorTo=[pre-defined port name or another disposition url]
```

The following table lists and describes the parameters for the disposition.

Parameter	Description	
qManager	Name of the queue manager to which the server must connect.	
qName or	Name of the queue where messages are placed.	
respqueue		

Parameter	Description
host	Host on which the MQ server is located (MQ Client only).
port	Number to connect to MQ server queue manager (MQ client only).
channel	Case-sensitive name of the channel that connects with the remote MQ server queue manager (MQ client only). The default channel name for MQSeries is SYSTEM.DEF.SVRCONN.
errorTo	Location where error documents are sent. Predefined port name or another full URL. Optional.

5. Click OK.

The port appears under the ports node in the left pane. In the right pane, a table appears that summarizes the information associated with the event port you created.

You are ready to associate the event port with a channel. For more information, see *Creating*, *Editing*, *or Deleting a Channel* on page 103.

#### Procedure: How to Edit an Event Port

To edit an event port:

- 1. Select the event port you want to edit.
- In the right pane, move the pointer over *Operations*, and select *Edit*.
   The Edit Port pane opens on the right.
- 3. Make the required changes to the event port configuration fields.
- 4. Click OK.

#### *Procedure:* How to Delete an Event Port

To delete an event port:

- 1. Select the event port you want to delete.
- 2. In the right pane, move the pointer over *Operations*, and select *Delete*.

A confirmation dialog box opens, as shown in the following image.

Microsoft Internet Explorer		×
? Delete	this item ?	
ОК	Cancel	

3. To delete the event port you selected, click *OK*.

The event port disappears from the list in the left pane.

## Using the Default Event Port

When using iWay Explorer to connect to PeopleSoft and listen for events, a default event port is available at all times as shown in the following image.



The default event port can be used for testing purposes or when you do not want to route event data to a specific port you configured. The default port is enabled when you start a channel that does not have a specific event port assigned.

The default event data is actually a file disposition that writes to an out.xml file in the following output directory:

ifile://./eventOut/out.xml

## Creating, Editing, or Deleting a Channel

All defined event ports must be associated with a channel. You can create, edit, or delete a channel for your event adapter using iWay Explorer. For information on creating a channel, see *How to Create a Channel* on page 104. For information on editing a channel, see *How to Edit a Channel* on page 112. For information on deleting a channel, see *How to Delete a Channel* on page 112.

You can also create a channel using one of the following protocols:

- **HTTP.** For more information, see *How to Create an HTTP Channel* on page 107.
- **File.** For more information, see *How to Create a File Channel* on page 108.
- **TCP.** For more information, see *How to Create a TCP Channel* on page 110.

#### *Procedure:* How to Create a Channel

To create a channel using iWay Explorer:

- 1. Click the *iWay Events* tab.
  - a. In the left pane, expand the PeopleSoft node.

The ports and channels nodes appear.

- b. Click the channels node.
- 2. In the right pane, move the pointer over Operations and select Add a new channel.

The Add a new PEOPLESOFT channel pane opens on the right as shown in the following image.

#### Add a new PEOPLESOFT channel

Choose a name and description for the new channel that you wish to create.

Channel Name:			]
Description:			]
Channel Type:	HTTP Listener	*	]
	< Back Next >		Cancel

- a. In the Channel Name field, type a name, for example, TEST\_CHANNEL.
- b. In the Description field, type a brief description (optional).
- c. From the Channel Type drop-down list, select a channel type, for example, HTTP Listener.
- 3. Click Next.

The Edit channels pane opens on the right as shown in the following image where you enter the listener port number and choose the synchronization type from the drop-down list.

## Edit channels

Listener port:	8080	
Https:		
Synchronization Type:	REQUEST	*
Help < Bac	k Next>	Cancel

**Note:** The adapter supports only Request-Response and Request-Ack synchronization types.

- Enter information specific to your PeopleSoft system and the channel you are creating.
   Note: Https is not supported by the adapter.
- 5. Click Next.

The Select Ports pane opens as shown in the following image. Current ports appear on the left and available ports appear on the right. Arrow buttons are active to use to move the port from one list to the other. Back, Finish, and Cancel buttons are active.

Sel	ect	Por	ts
-----	-----	-----	----

Current		Available	
ACCOUNT CHARTFIELD	<>>>		
Help < Bac		Finish	Cancel

- a. Select an event port from the list of current ports.
- b. To transfer the port to the list of available ports, click the single right arrow button. To associate all event ports, click the double right arrow button.
- 6. Click Finish.

The channel appears in the left pane under the channels port with an X over the icon to indicate that the channel is disconnected as shown in the following image.

🚊 💵 peoplesoft 🛛



A summary window opens in the right pane, showing the channel description, channel status, and available ports. All the information in the summary is associated with the channel you created.

You must start the channel to activate your event configuration.

7. In the right pane, move the pointer over Operations and select Start the channel.

When the channel is activated, the X over the icon in the left pane disappears.

To stop the channel at any time, you can move the pointer over Operations and select the option to stop the channel.

## Procedure: How to Create an HTTP Channel

To create an HTTP channel using iWay Explorer:

- 1. Click the *iWay Events* tab.
  - a. In the left pane, expand the *PeopleSoft* node.

The ports and channels nodes appear.

- b. Click the channels node.
- 2. In the right pane, move the pointer over Operations and select Add a new channel.

The Add a new PEOPLESOFT channel pane opens on the right.

- a. Type a name for the channel, for example, NewChannel.
- b. Type a brief description (optional).
- c. From the drop-down list, select *HTTP Listener*.
- 3. Click Next.

The Edit Channels pane opens on the right.

4. Provide the required values based on the list of parameters and their descriptions in the following table.

Parameter	Description
Listener port	Port on which to listen for PeopleSoft event data.
HTTPS	For a secure HTTP connection, select this check box.
Synchronization Type	Choose from three synchronization options:
	REQUEST
	REQUEST_RESPONSE
	REQUEST_ACK

5. Click Next.

The Select Ports pane opens.

a. Select an event port from the list of current ports.

- b. To transfer the port to the list of available ports, click the single right arrow button. To associate all the event ports, click the double right arrow button.
- 6. Click Finish.

The channel appears under the channels node in the left pane. An X over the icon indicates that the channel is currently disconnected.

You must start the channel to activate your event configuration.

In the right pane, a summary provides the channel description, channel status, and available ports. All the information is associated with the channel you created.

7. In the right pane, move the pointer over *Operations* and select *Start the channel*.

When the channel is activated, the X over the icon in the left pane disappears.

To stop the channel at any time, you can move the pointer over Operations and select the option to stop the channel.

#### *Procedure:* How to Create a File Channel

To create a File channel using iWay Explorer:

- 1. Click the *iWay Events* tab.
  - a. In the left pane, expand the *PeopleSoft* node.

The ports and channels nodes appear.

- b. Click the channels node.
- 2. In the right pane, move the pointer over Operations and select Add a new channel.

The Add a new PEOPLESOFT channel pane opens on the right.

- a. Type a name for the channel, for example, NewChannel.
- b. Type a brief description (optional).
- c. From the drop-down list, select File Listener.
- 3. To open the Edit Channels pane, click Next.
  - a. In the Request tab, enter values based on the descriptions in the following table.

Parameter	Description
Polling Location	Target file system location for the PeopleSoft XML file.

Parameter	Description
File Mask	File name to use for the output file generated as a result of the operation.

b. In the Response tab, enter values for the parameters based on the descriptions in the following table.

Parameter	Description
Synchronization	Choose from three options:
Туре	REQUEST
	REQUEST_RESPONSE
	REQUEST_ACK
Response/Ack Directory	Target file system location for the PeopleSoft XML file.

c. In the Advanced tab, enter values for the parameters based on the descriptions in the following table.

Parameter	Description
Error Directory	Directory to which documents with errors are written.
Poll interval (msec):	Interval (in milliseconds) when to check for new input. Optional. Three seconds is the default.
Processing Mode	Sequential indicates single processing of requests. Threaded indicates processing of multiple requests simultaneously.
Thread limit	If you selected threaded processing, indicates the maximum number of requests that can be processed simultaneously.

4. Click Next.

The Select Ports pane opens.

a. Select an event port from the list of current ports.

- b. To transfer the port to the list of available ports, click the single right arrow button. To associate all the event ports, click the double right arrow button.
- 5. Click Finish.

The channel appears under the channels node in the left pane. An X over the icon indicates that the channel is currently disconnected.

You must start the channel to activate your event configuration.

In the right pane, a summary provides the channel description, channel status, and available ports. All the information is associated with the channel you created.

6. Move the pointer over Operations and select Start the channel.

When the channel is activated, the X over the icon in the left pane disappears.

To stop the channel at any time, you can move the pointer over Operations and select the option to stop the channel.

#### *Procedure:* How to Create a TCP Channel

To create an TCP channel using iWay Explorer:

- 1. Click the *iWay Events* tab.
  - a. In the left pane, expand the *PeopleSoft* node.

The ports and channels nodes appear.

- b. Click the channels node.
- 2. In the right pane, move the pointer over Operations and select Add a new channel.

The Add a new PEOPLESOFT channel pane opens on the right.

- a. Type a name for the channel, for example, NewChannel.
- b. Type a brief description (optional).
- c. From the drop-down list, select *TCP Listener*.
- 3. Click Next.

The Edit Channels window opens on the right.

4. Enter values for the parameters based on the descriptions in the following table:

Property Name	Property Description		
Host	Host machine on which the adapter is installed.		

Property Name	Property Description
Port Number	Socket number on which iWay Service Manager listens for incoming messages from a client application.
Synchronization	Choose from the following synchronization options:
Туре	□ RECEIVE_REPLY
	RECEIVE_ACK
Is Length Prefix	For PeopleSoft events that return data that is not in XML format. The TCP/IP event application must prefix the data with a 4-byte binary length field when writing data to the TCP/IP port.
Is XML	For PeopleSoft events that return data in XML format. No preparser is required.
Is Keep Alive	Maintains continuous communication between the event transaction and the channel.

5. Click Next.

The Select Ports pane opens.

- a. Select an event port from the list of current ports.
- b. To transfer the port to the list of available ports, click the single right arrow button. To associate all the event ports, click the double right arrow button.
- 6. Click Finish.

The channel appears under the channels node in the left pane. An X over the icon indicates that the channel is currently disconnected.

You must start the channel to activate your event configuration.

In the right pane, a summary provides the channel description, channel status, and available ports. All the information is associated with the channel you created.

7. Move the pointer over Operations and select Start the channel.

When the channel is activated, the X over the icon in the left pane disappears.

To stop the channel at any time, you can move the pointer over Operations and select the option to stop the channel.

#### *Procedure:* How to Edit a Channel

To edit a channel:

1. In the left pane, select the channel you want to edit.

2. In the right pane, move the pointer over *Operations* and select *Edit*.

The Edit channel pane opens on the right and includes current information for Channel Name, Description, and Channel Type as shown in the following image.

Choose a name wish to create.	and description for the channel that you	
Channel Name:	TEST_CHANNEL	
Description:	Created on 2/1/04.	
Channel Type:	TCP Channel	
Help	< Back Next > Cancel	

- 3. Make the required changes to the channel configuration fields.
- 4. Click Next to continue making changes on the next pane.
- 5. When you are finished making your changes, click *Finish*.

#### Procedure: How to Delete a Channel

To delete a channel:

- 1. In the left pane, select the channel you want to delete.
- In the right pane, move the pointer over *Operations* and select *Delete*.
   A confirmation dialog box opens, as shown in the following image.

Microsoft Interne	et Explorer	×
? Delete	this item ?	
ОК	Cancel	

3. To delete the channel you selected, click OK.

The channel disappears from the list in the left pane.



## Configuring an HTTP Event Listener for PeopleSoft Using iWay Service Manager

This section describes how to configure an HTTP event listener for PeopleSoft using iWay Service Manager.

#### In this chapter:

- PeopleSoft HTTP Event Listener Overview
- Configuring an HTTP Listener

#### **PeopleSoft HTTP Event Listener Overview**

Using the iWay Service Manager Administration Console, you can define a channel that includes an HTTP listener as an inlet to receive an event response from PeopleSoft. For example, when the HTTP listener receives a PING GET message from PeopleSoft, it will look for a file that is defined in the Default Page field. If the Default Page field is empty, the HTTP listener will look for the index.html file. This file must be created in advance and copied to a directory that is defined in the Document Root field. If the HTTP listener does not find the index.html file, the listener does not return a response to the PeopleSoft PING message. As a result, PeopleSoft PING generates the following error message:

Integration Gateway - External System Contact Error (158,10721)

#### **Configuring an HTTP Listener**

A listener is a component that receives input for a channel from a configured endpoint. This section describes how to configure an HTTP event listener for PeopleSoft.

#### *Procedure:* How to Configure an HTTP Listener for PeopleSoft

To configure an HTTP event listener:

1. In the left console pane of the Registry menu, select *Listeners*.

Components			
Adapters			
Decryptors			
Ebix			
Emitters			
Encryptors			
Listeners			
Preemitters			

The Listeners pane opens, as shown in the following image.

Listeners Filter By Name Where Name Equals				
	Name	Туре		Description
	<u>file1</u>	File	뢺	A default/sample file listener.
	<u>javadoc</u>	HTTP	4	The javadoc listener is used to make the iWay Service Manager API available to a remote browser.
	pictures.loader	File	4	The pictures listener locates files with a variety of common image file extensions (img, gif, jpg,).
	pictures.viewer	HTTP	4	The pictures viewer is used to kickoff the image retrieval process as defined by the pictures sample.
	<u>scifibooks</u>	Schedule	4	This listener is defined for use by the SciFiBooks sample. It wakes up daily and kicks off the update for the channel.

The table that is provided lists any existing listeners and a short description for each.

2. Click Add.

The Listener Type pane opens.

Listeners Listeners are protocol handler are defined in the registry.	s, that receive input for a channel from a configured endpoint. Listed below are references to the listeners that
Select listener type	
Type *	Type of the new listener          Select a type <ul> <li>Select a type</li> <li>AQ</li> <li>AS1</li> <li>AS2</li> <li>CS3</li> <li>EMAIL</li> <li>File</li> <li>FTP</li> <li>FTPO</li> <li>FTPServer</li> <li>HL7LLP</li> <li>HTTP</li> <li>III</li> <li>Internal</li> </ul>

3. Select HTTP from the Type drop-down list and click Next.

The configuration parameters pane for the HTTP listener opens.

Configuration paramete	rs for new listener of type HTTP
Port *	TCP port for receipt of HTTP requests
	6655
Local bind address	Local bind address for multi-homed hosts: usually leave empty
Document Root *	Base directory from which all HTTP pages will be served C:\TEMP\PS\OUT Browse
Timeout	Timeout interval for TCP socket
Default Page	Default page if no page is identified in the incoming HTTP[s] request index.xml
Response content type	Overrides content type of response           Pick one
Default Text	Default Text sent with 200 OK, will take configured Content Type
Keystore	Full path to Keystore file, which provides certificate material to be used for secure connection Browse
Keystore Password	Password to access Keystore file

- 4. Perform the following steps:
  - a. In the Port field, enter an available port number that will be used by the HTTP listener to listen for PeopleSoft events. For example, 6655.
  - b. In the Document Root field, enter the directory path where PeopleSoft event data will be written. For example, C:\TEMP\PS\OUT.
  - c. In the Default Page field, enter the name of the file that is available in the directory defined in the Document Root field. For example, index.xml.

Note: The index.xml file refers to an empty file that can be created using any text editor.

- d. Scroll down to the Default Java File Encoding field and select UTF-8 from the dropdown list.
- 5. Click Next.

The Name and Description pane opens.

Listeners

Listeners are protocol handlers, that receive input for a channel from a configured endpoint. Listed below are references to the listeners that are defined in the registry.

Select listener type	
Name *	Name of the new listener
	ps_http_listener
Description	Description for the new listener
	This listener is used to listen for PeopleSoft events.
< Back Finish	

6. Provide a name and, optionally, a description, for the listener, and click Finish.

The listener is added to the list in the Listeners pane.

Listeners Filter By Name Where Name Sequels Sequels					
	Name	Туре	References	Description	
	file1	File	4	A default/sample file listener.	
	<u>javadoc</u>	HTTP	4	The javadoc listener is used to make the iWay Service Manager API available to a remote browser.	
	pictures.loader	File	4	The pictures listener locates files with a variety of common image file extensions (img, gif, jpg,).	
	pictures.viewer	HTTP	4	The pictures viewer is used to kickoff the image retrieval process as defined by the pictures sample.	
	ps_http_listener	HTTP	4	This listener is used to listen for PeopleSoft events.	
	<u>scifibooks</u>	Schedule	4	This listener is defined for use by the SciFi Books sample. It wakes up daily and kicks off the update for the channel.	

After the HTTP listener is added to iWay Service Manager, you must assign the listener to an inlet that can be used to construct a channel.

For more information on how to configure a channel, see the *iWay* Service Manager User's *Guide*.

#### *Procedure:* How to Define an Inlet

This section describes how to define a new inlet by using the HTTP event listener that was configured for PeopleSoft.

1. In the left console pane of the Registry menu, select *Inlets*.

Conduits			
Channels			
Inlets			
Outlets			
Routes			
Transformers			
Processes			

The Inlets pane opens.

Inlet	Inlets are conduits which represent the entry into a channel. Inlets contain a Listener, Decryptor, and Preparsers. Inlet Definitions Filter By Name Where Name Equals Equals				
	Name	References	Description		
	<u>file1</u>	a.	The file1 inlet contains the file1 listener and is a part of the file1 sample channel.		
	<u>javadoc</u>	4	The javadoc inlet contains the javadoc listener and is a part of the javadoc channel.		
	pictures.loader	a.	The pictures.loader inlet contains the pictures.loader listener and is a part of the pictures.loader channel.		
	pictures.viewer	4	The pictures.viewer inlet contains the pictures.viewer listener and is a part of the pictures.viewer channel.		
	<u>scifibooks</u>	4	This listener is defined for use by the SciFi Books sample. It wakes up daily and kicks off the update for the channel.		
٨dd	Delete	Rename (	Copy		

The table that is provided lists each inlet that is defined with a brief description.

2. Click Add.

The New Inlet Definition pane opens.

- 3. Enter a name, for example, PS, and description for the inlet.
- 4. Click Finish.

The Construct Inlet pane opens.

		gistered in the inlet. The order of decryptor and preparser components may be changed within e ent and using the 'Move Up' and 'Move Down' buttons.			
🗌 Name	Туре	Move	Description		
No data was found.					

The table that is provided is used to list the components that are currently registered with the inlet.

5. Click Add.

The Select component type pane opens.

	Component Types	Description
	Listener	Listeners are protocol handlers, that receive input for a channel from a configu red endpoint.
0	Decryptor	Decrypts the document.
0	Preparser	A logical process that handles documents before they are parsed by the system. U sually used to convert from non-XML to xml.

The table that is provided lists the component types you can select and register with the inlet you are defining.

6. Select *Listener* from the list of component types and click *Next*.

The Select a listener definition pane opens, as shown in the following image.

Filter By Name Where Name Equals				
	Name	Туре	Description	
0	<u>file1</u>	File	A default/sample file listener.	
0	<u>javadoc</u>	HTTP	The javadoc listener is used to make the iWay Service Manager API available to a remote browser.	
0	<u>pictures.loader</u>	File	The pictures listener locates files with a variety of common image file extensions (img, gif, jpg, $\ldots$ ).	
0	pictures.viewer	HTTP	The pictures.viewer is used to kickoff the image retrieval process as defined by the pictures sample.	
۲	ps_http_listener	HTTP	This listener is used to listen for PeopleSoft events.	
0	<u>scifibooks</u>	Schedule	This listener is defined for use by the SciFi Books sample. It wakes up daily and kicks off the update for the channel.	

7. Select the *ps\_http\_listener* listener, and click *Finish*.

You are returned to the Construct Inlet pane, which now includes the ps\_http\_listener you registered with your inlet.

	struct Inlet w are the components currently registered in the inlet. The order of decryptor and preparser components may be changed within each ponent type by checking a component and using the 'Move Up' and 'Move Down' buttons.			
Name	Туре	Move	Description	
ps_http_listener	Listener		This listener is used to listen for PeopleSoft events.	
<< Back Add Delete				

You can now configure a route and an outlet, which can be used to construct a channel in iWay Service Manager.

For more information, see the *iWay* Service Manager User's Guide.

# PeopleSoft Troubleshooting and Error Messages

This section provides troubleshooting information for the following three categories:

iWay Explorer

- PeopleSoft
- iBSP

Chapter

The following topics explain limitations and workarounds when connecting to PeopleSoft. The adapter-specific errors described in this section can arise using the adapter with an iBSP configuration.

#### In this chapter:

Error Messages in iWay Explorer

- Error Messages in PeopleSoft
- Error Messages in iBSP

#### **Error Messages in iWay Explorer**

The following table lists errors and solutions when using iWay Explorer with the iWay Application Adapter for PeopleSoft.

Error	Solution
Cannot connect to the iWay Application Adapter for PeopleSoft from iWay Explorer.	Ensure that: PeopleSoft is running.
The following error message appears: Problem activating adapter	<ul> <li>The PeopleSoft user ID and password are correct.</li> </ul>
	The port number is correct.
	The custom Component Interface is properly installed.

Error	Solution
The following error message appears: java.lang.IllegalStateException: java.lang.Exception: Error Logon to PeopleSoft System	You have provided invalid connection information for PeopleSoft, or the wrong psjoa.jar is in the lib directory. The psjoa.jar file version is specific to the PeopleTools release.
PeopleSoft does not appear in the iWay Explorer Adapter node list.	Ensure that the PeopleSoft JAR files, iwpsci84.jar (or iwpsci81.jar) and psjoa.jar, are added to the lib directory.
Logon failure error at run time	If the password for connecting to your PeopleSoft system is not specified when creating a target or with the Edit option in iWay Explorer, you cannot connect to PeopleSoft. The connection password is not saved in repository.xml. Update the password using the Edit option in iWay Explorer and then restart the application server.
The following error message appears: Jolt Session Pool cannot provide a connection to the appserver. This appears to be because there is no available application server domain. [Fri Aug 27 13:06:27 EDT 2004] bea.jolt.ServiceException: Invalid Session	The host name or port number for PeopleSoft is incorrect.
Properties do not appear for a Component Interface.	You are using the wrong iwpsci8x.jar file.

Error	Solution
Cannot generate schemas.	If the error message "Index: -1, Size:0" appears, or if you can log on to iWay Explorer, but you cannot view any Component Interfaces or Messages, then both the iwpsci81.jar and iwpsci84.jar files might be in your lib directory. Stop your server, remove the JAR file that is not required, and restart your server.
Pstools.properties file was not initialized.	The Pstools.properties file is required for the PeopleSoft 8.1 release. If you are using PeopleSoft 8.1, then you must add this file. This error message may appear, even if you are not using PeopleSoft 8.1. In this case, ignore the error message.

#### **Error Messages in PeopleSoft**

The following table lists errors and solutions when using PeopleSoft.

Error	Solution
Services are not working properly when using the PeopleSoft Component Interface test tool in three-tier mode.	<ul> <li>To test properly using the Component Interface test tool:</li> <li>1. Open Application Designer.</li> <li>2. Select the Component Interface.</li> <li>3. Use the test tool.</li> <li>If the service works in test tool, then review the XML and check for redundant fields in XML.</li> </ul>

Error	Solution
Jolt Session Pool cannot provide a connection to the appserver. This appears to be because there is no available application server domain. [Fri Aug 27 13:06:27 EDT 2004] bea.jolt.ServiceException: Invalid Session	The host name or port number for PeopleSoft is incorrect.
Component Interfaces and Messages do not appear in the adapter tree.	The project is not installed properly on the PeopleSoft system.
Return error code -1 is received from PeopleSoft at run time, for example: <locationprocessresponse xmlns="http://xmlns.oracle.com/ LOCATION"&gt;</locationprocessresponse 	You are either using the incorrect version of psjoa.jar, or you have both the iwpsci81.jar and iwpsci84.jar files in your lib directory. In the second case, you must delete the unused JAR file and then restart the server.
<error>-1</error> 	The psjoa.jar file version is specific to the PeopleTools release.
Pstools.properties file was not initialized.	This file is required for PeopleSoft 8.1. If you are using PeopleSoft 8.1, you should add this file. If you are not using PeopleSoft 8.1 and this error message still appears, ignore the message.
Cannot find Component Interface {CI name}	<ul> <li>The reason may be either of the following:</li> <li>The Java API for the selected component interface is not found in the API JAR file. Check the Java API for the class file for the CI. If not found, add the class file for the CI.</li> </ul>
	The component interface name is mentioned incorrectly in the request document.
Not Authorized (90,6) Failed to execute PSSession request	The component interface does not have the access required to perform the operation. Change the permission settings in the PeopleSoft, Security, Permission list for the component interface.

Error	Solution
Must also provide values for keys{keyname}	<ul> <li>The reason may be one of the following:</li> <li>The request XML document does not have the element for the mandatory key. Include the keyname and the value in the request document.</li> <li>The Key field name is mentioned incorrectly in the request document.</li> <li>The Perform operation is mentioned incorrectly in the request XML document.</li> </ul>

#### **Error Messages in iBSP**

This topic discusses the types of errors that can occur when processing web services through iWay Business Services Provider (iBSP).

#### **General Error Handling in iBSP**

iWay Business Services Provider (iBSP) serves as both a SOAP gateway into the adapter framework and as the engine for some of the adapters. In both design time and execution time, various conditions can cause errors in iBSP when iWay Business Services that use adapters are running. Some of these conditions and resulting errors are exposed the same way, regardless of the specific adapter; others are exposed differently, based on the adapter being used. This topic explains what you can expect when you encounter some of the more common error conditions on an adapter-specific basis.

Usually, the SOAP gateway (*agent*) inside iBSP passes a SOAP request message to the adapter required for the web service. If an error occurs, the way it is exposed depends on the adapter and the API or interfaces that the adapter uses. A few scenarios cause the SOAP gateway to generate a SOAP fault. In general, when the SOAP agent inside iBSP receives an invalid SOAP request, a SOAP fault element is generated in the SOAP response. The SOAP fault element contains fault string and fault code elements. The fault code contains a description of the SOAP agent error.

The following SOAP response document results when iBSP receives an invalid SOAP request:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/
envelope/">
<SOAP-ENV:Body>
<SOAP-ENV:Fault>
<faultcode>SOAP-ENV:Client</faultcode>
<faultstring>Parameter node is missing</faultstring>
</SOAP-ENV:Fault>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

In the previous example, iBSP did not receive an element in the SOAP request message that is required for the WSDL for this web service.

#### Adapter-Specific Error Handling

When an adapter raises an exception during execution, the SOAP agent in iBSP produces a SOAP fault element in the generated SOAP response. The SOAP fault element contains fault code and fault string elements. The fault string contains the native error description from the adapter target system.

Because adapters use the target system interfaces and APIs, whether or not an exception is raised depends on how the target system interface or API treats the error condition. If a SOAP request message is passed to an adapter by the SOAP agent in iBSP and that request is invalid based on the WSDL for that service, the adapter may raise an exception yielding a SOAP fault.

Although it is almost impossible to anticipate every error condition that an adapter may encounter, the following examples describe how adapters handle common error conditions and how they are then exposed to the web services consumer application.

#### *Example:* iWay Application Adapter for PeopleSoft Invalid SOAP Request

When the iWay Application Adapter for PeopleSoft receives a SOAP request message that does not conform to the WSDL for the web service being executed, the following SOAP response is generated.

```
<SOAP-ENV:Envelope xmlns:xsi="http://www.w3.org/1999/XMLSchema-instance"
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/1999/XMLSchema">
  <SOAP-ENV:Body>
   <m:CARRIERResponse xmlns:m="urn:schemas-iwaysoftware-com:iwse"</pre>
     xmlns="urn:schemas-iwaysoftware-com:iwse"
     cid="2A3CB42703EB20203F91951B89F3C5AF">
     <PS8>
       <error>Cannot find Component Interface {VARRIER}
              (91,2)Initialization failed
              (90,7)Not Authorized
              (90,6)Failed to execute PSSession request
              Cannot find Component Interface {VARRIER} (91,2)
       </error>
     </PS8>
   </m:CARRIERResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

#### *Example:* Empty Result From SOAP Request

When the iWay Application Adapter for PeopleSoft executes a Component Interface as a web service using input parameters passed in the SOAP request that do not match records in PeopleSoft, the following SOAP response is generated.

```
<SOAP-ENV:Envelope xmlns:xsi="http://www.w3.org/1999/XMLSchema-instance"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/1999/XMLSchema">
<SOAP-ENV:Body>
<m:CARRIERResponse xmlns:m="urn:schemas-iwaysoftware-com:iwse"
xmlns="urn:schemas-iwaysoftware-com:iwse"
cid="2A3CB42703EB20203F91951B89F3C5AF">
<PS8>
<error>No rows exist for the specified keys. {CARRIER}
(91,50)Failed to execute PSBusComp request</error>
</PS8>
</m:CARRIERResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

#### *Example:* Failure to Connect to PeopleSoft

When the iWay Application Adapter for PeopleSoft cannot connect to PeopleSoft when executing a web service, the following SOAP response is generated.

#### *Example:* Invalid SOAP Request

When the adapter receives a SOAP request message that does not conform to the WSDL for the web service being executed, the following SOAP response is generated.

#### *Example:* Empty Result From an Adapter Request

Note: The condition for this adapter does not yield a SOAP fault.

When the adapter executes a SOAP request using input parameters passed that do not match records in the target system, the following SOAP response is generated.

```
<SOAP-ENV:Envelope xmlns:xsi="http://www.w3.org/1999/XMLSchema-instance"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/1999/XMLSchema">
<SOAP-ENV:Body>
<m:RunDBQueryResponse xmlns:m="urn:schemas-iwaysoftware-com:iwse"
xmlns="urn:schemas-iwaysoftware-com:iwse"
cid="2A3CB42703EB20203F91951B89F3C5AF">
<RunDBQueryResult run="1" />
</m:RunDBQueryResult run="1" />
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```



### Configuring the Application Adapter for PeopleSoft in an iWay Environment

After you successfully configure the adapter to represent a particular adapter target, the adapter can be assigned to an iWay Service Manager channel.

#### In this appendix:

□ Configuring the Application Adapter for PeopleSoft in iWay Service Manager

#### Configuring the Application Adapter for PeopleSoft in iWay Service Manager

Before configuring the adapter in iWay Service Manager, you must first create a target, which represents a connection to a backend system, using iWay Explorer. For more information on configuring targets and connections using iWay Explorer, see *Creating XML Schemas or Web Services for PeopleSoft* on page 75 or the *iWay Explorer User's Guide*.

You configure the adapter in the iWay Service Manager console. The configuration process creates run-time connection and persistent data files within Service Manager. The configuration process interrogates the Service Manager repository entries that were built when the target and connection were created using iWay Explorer. The define adapter process creates the run-time repository based on the design-time repository.

#### *Procedure:* How to Define an Adapter

To define an adapter:

- 1. In the Service Manager console, select Registry, then Adapters.
- 2. Click Add.

The iBSP URL pane opens, as shown in the following image.

Provide Repository Url for the new Adapter			
iBSP URL *	Repository of available adapters with user defined targets		
	http://localhost:9000		
<< Back Next >>			

- 3. Enter your iBSP URL, which is the location of the Service Manager repository, for example, http://localhost:9000. This field is required.
- 4. Click Next.

An adapter selection pane opens, as shown in the following image.

Adapter *	Adapters with targets defined at http://localhost.9000. If you don't see an adapter, it's probably because you do not have the adapter's JAR on the classpath.
	Select an adapter
<< Back Next >>	

- 5. From the Adapter drop-down list, select the Adapter, then click Next.
- 6. From the Target drop-down list, select a target you configured for the adapter in iWay Explorer, then click *Next*.

The connection information associated with the target selected is displayed.

Services Provider to access registry.	configurational metadata on behalf of its adapters. Listed below are references to adapters defined in the
Set properties of the ne	w Adapter
Adapter	PeopleSoft
Target	PeopleSoft
Create Error Document	If on, an error document will be returned when an error occurs
	On On
Persist Connection	If on, adapter connection will be reused between executes
	🗌 On
Logon	
Application Server *	
	isdsrv14
Port *	
	9000
User *	
	VP1
Password *	
	•••

- a. Select whether to return an error document when an error occurs.
- b. Select whether an adapter connection will be reused between executes.
- c. Review the connection information you specified in iWay Explorer. You can change or update any information.
- 7. Click Next.
- 8. Provide a name and, optionally, a description, for the adapter, and click *Finish*.

The adapter appears in the adapters list, as shown in the following image.

Ada	apters		
	Filter By Name Where Name	Equals 🗸	
	Reference	Target	Description
	Psoft_iSM	PeopleSoft	
Add	Delete Rename Copy		

#### *Procedure:* How to Modify or Update an Adapter Connection

The following image shows the Adapter Defines pane which displays the name of the adapter and the description (optional).

	pters Filter By Name Where Name	Equals	
	Reference	Target	Description
	Psoft_iSM	PeopleSoft	
Add	Delete Rename Copy		

To modify or update an adapter connection:

1. From the Adapters list, click the adapter reference you defined, in this example, Psft\_iSM.

The pane that displays the target connection information opens. You cannot change the name of the adapter or the target, but you can edit the connection information.

- 2. After you modify the connection information, click Update Connection Properties.
- 3. After you make changes or additions to the adapter target in iWay Explorer, click *Update Adapter Data*.
- 4. Click Finish.



## Using PeopleSoft Component Interfaces

This section describes how to create new Component Interfaces—and how to modify existing Component Interfaces—for use with the iWay Application Adapter for PeopleSoft. You also can use Component Interfaces supplied by PeopleSoft with your application.

Before using a Component Interface you must apply security to it and test it. After securing and testing a Component Interface, you must generate its API, as described in *Generating Component Interface APIs* on page 47.

**Note:** This section is intended as a helpful supplement; it is not a substitute for PeopleSoft documentation. For complete and up-to-date information about PeopleSoft Component Interfaces, see the *PeopleSoft Online Library* for your PeopleSoft system.

#### In this appendix:

- Creating a Component Interface
- Viewing or Modifying Available Methods
- Securing a Component Interface
- Testing a Component Interface

#### Creating a Component Interface

You create Component Interfaces using the PeopleSoft Application Designer. For more information about Application Designer, see your PeopleSoft documentation.

You can add properties from the records in the component view. You can delete a property in the Component Interface that you do not want to expose. You can rename a property by clicking the property and then clicking again until you can type a new name. If you rename a property, it can be referenced in the Component Interface only by the new name, not by the underlying component name.

A property may an icon adjacent to it. For example, EMPLID has an icon indicating that it is a key field from the underlying record. NAME has an icon indicating that it is an alternate key field from the underlying record. For a complete list of property icons, see the PeopleBooks documentation.

#### *Procedure:* How to Create a New Component Interface

To create a Component Interface:

- 1. Open the PeopleSoft Application Designer.
- 2. From the File menu, select New.

The New dialog box opens in the PeopleSoft Application Designer, with a list of objects, as shown in the following image.

X Application Designer - Untitled	_ 8 ×
File Edit View Insert Build Debug Tools Go Favorites Window Help	
New Usiness Interlink Business Process Component Component Interface	
Begin validation of record definitions for default version of message LOCATION_SYNC. No errors found. End validation of record definitions for default version of message LOCATION_SYNC.	<u>^</u>
Ready -	

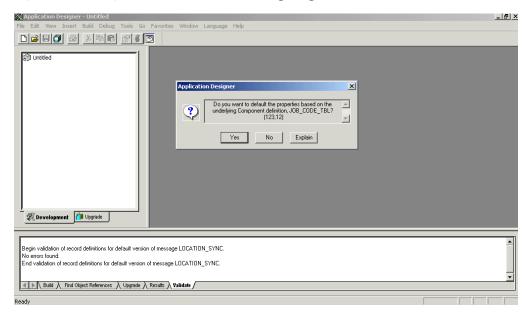
- 3. Select Component Interface.
- 4. Click OK.

The Select Source Component for Component Interface dialog box opens as shown in the following image. It contains the following: Object Type drop-down list (unavailable), the Selection Criteria pane (which includes a Project drop-down list and Name, Description, and Market fields), and an Objects marking selection criteria pane. It also contains Select, Cancel, and New Search buttons.

Application Designer - Untitled File Edit View Insert Build Debug Tools Go Favorites Window Help		X
Subtled	moonent Interface	×
Object Type: Component		Select
Selection Criteria		Cancel
Name JOB_CODE_TBL	Project All Projects	
Description		NewSearch
Market All Markets	×	
Objects matching selection criteria:		
Name	farket Description	
IPE_STEP_TABLE JBCMP_TMP_DEPT JBCMP_TMP_STAT JOBCDDE_HAZRDS_TBL	IBL IPE Plan Table IPE Step Table IBL Mass Change Dept IBL Mass Change Status IBL Job Code Hazards Table IBL Job Code Task Table	_
JOB_ODDE_TBL JOB_DATA JOB_DATA_ADD_NEE	Job Lode Table Job Code Table BBL Job Data BBL Add Non Employee BBL Applicant Hire	
	BL Add Concurrent Job	<b>-</b> 1
3094 object(s) found		
Cevelopment Degrade		
Begin validation of record definitions for default version of message LOCATION_SYN No errors found. End validation of record definitions for default version of message LOCATION_SYNC	2	
		<u>×</u>
Danik		

5. Highlight the component to use as a basis for the Component Interface and click Select.

The Application Designer dialog box, which asks a question and contains Yes, No, and Explain buttons, opens as shown in the following image.



Note: If the Component Interface is large, expose the component properties manually.

6. Choose one of the following options:

To create the Component Interface without displaying properties and to expose component properties manually, click *No*.

- a. Drag the relevant fields from the left pane to the right pane.
- b. To select the functions to perform, right-click either the right or left pane, depending on which pane is active.

For a complete list of functions, see the PeopleBooks documentation.

To create the Component Interface and to **display the properties of the underlying Component Interface,** click Yes. The following image shows the Application Designer component interface. The underlying properties appear in the right pane in a tree structure with information in columns for Name, Record, Field, Read, and Comments.

💥 Application Designer - Untitled - [Component Interface1 (Component Interfa	ce)]				_ 8 ×
🖆 File Edit View Insert Build Debug Tools Go Favorites Window Help					_ 8 ×
JOB_CODE_TBL (Component)	Name	Record	Field	Read 0	Comment
Intitled JOBCODE_TBL (Table) - S					
Condition (1 - Level 0) Condition (1 - Level 1) Condition (1 - Level 2) Condition (1 - Level	Image: Set TKEYS       Ima	JOBCODE_TBL JOBCODE_TBL JOBCODE_TBL JOBCODE_TBL JOBCODE_TBL JOBCODE_TBL JOBCODE_TBL JOBCODE_TBL JOBCODE_TBL	SETID JOBCODE SETID JOBCODE DESCA GVT_OCFICIAL SETID JOBCODE		
Begin validation of record definitions for default version of message LOCATION_SYNC. No errors found. End validation of record definitions for default version of message LOCATION_SYNC.					•
Build A Find Object References A Upgrade A Results A Validate					
Ready					

#### Viewing or Modifying Available Methods

The standard methods for the Component Interface are:

- Create
- Find
- 🖵 Get
- Save

Only those methods in the underlying component are available. For example, if the underlying component does not contain Add capabilities, the Create method is not available.

#### Procedure: How to View or Change Available Methods

The following image shows the Properties dialog box with the Standard Methods tab active. The check boxes for standard methods and for Cancel are selected.

Application Designer - Untitled - [Component Inte ] Tile Edit View Insert Build Debug Tools Go I		ce)]				
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Eulid	s / Validate /					

To view or change available methods:

- 1. Open the Component Interface Properties dialog box.
- 2. Click the Standard Methods tab.
- 3. Select the desired methods.
- 4. Click OK.

## Securing a Component Interface

You must configure security for the Component Interface before you can begin to test.

For information on configuring security for PeopleSoft Version 8.1x in two- and three-tier mode, see *How to Configure Component Interface Security for PeopleSoft Version 8.1x* on page 141. For information on configuring security for PeopleSoft Version 8.4 or higher, see *How to Configure Interface Security for PeopleSoft Version 8.4 or Higher* on page 145.

#### *Procedure:* How to Configure Component Interface Security for PeopleSoft Version 8.1x

The following image shows the Maintain Security window with the Use menu expanded.

Maintain Security			
File Edit View Go Favorites	Use Setup Process Help		
	My Profile Forgot My Password	∉⇒ <b>+✓</b> ≁∠	
	User Profiles	•	
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	Roles	<b>*</b>	
	Role Save As		
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	Permission Lists	General 🕨	
	Permission List Save As	Pages 🕨	
	Delete Permission List	PeopleTools 🕨	
		Process >	
		Sign-on Times Component Interface Add	
		Message Monitor   Update/Display	
		Web Libraries	
		Query 🕨	
		Mass Change 🔹 🕨	
		Other Settings 🕨	
		Audit 🕨	

To configure Component Interface security:

1. From the Use menu, select Permission Lists, Component Interface, and then click Update/ Display. The Update/Display Permission Lists dialog box opens as shown in the following image. It contains a Permission List field, Permission List and Description information, and OK, Cancel, Search, Detail, Use Query, and New Query buttons.

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CPBN1000 Application Messaging Admin. CPBN1000 Benefits		1
CPC01000 Collaborative Apps Admin CPC01500 Administer Self Service	Use Query	1
CPEB1000 eBenefits	-	1
LCDED1010 Develop & devicitedate	New Query	
More matching entries were found than can be displayed.		
H817OSUN	PST	//
For Help, click Help Topics on the Help Menu.	115,289	

Before Security can be set, you must identify the permission list or lists.

2. Select the relevant permission list and click OK.

For information on permission lists, see the PeopleBooks documentation.

The following image shows the Permission Lists pane and contains information about the ALLPORTL permission list in the Name column. The Component Interface tab is active.

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ile <u>E</u> dit <u>V</u> iew <u>G</u> o F <u>a</u> vorites <u>U</u> se <u>S</u> etup					
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Click On This Row To Enter Data					
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	<b>`</b> _				
					•
1		1817OSUN Compo	nent Interface	PST Update/[	▶ Display

- 3. To insert the new Component Interface you created, click Click On This Row To Enter Data.
- 4. When the Edit button appears, click Edit.

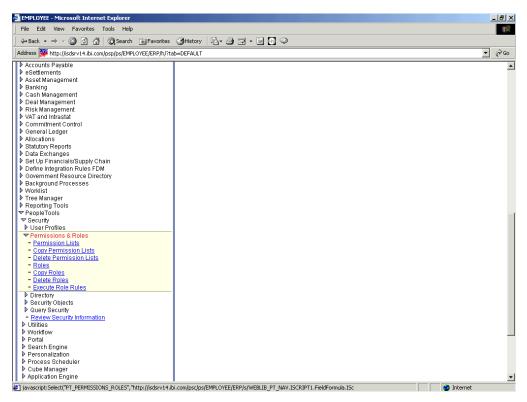
When you select the Component Interface, all available methods appear, including userdefined methods. You can then specify whether this particular Permission List must have Full or Partial Access. The following image shows the ALLPORTL Permission List with full access to all methods (Get, Create, Save, Cancel, and Find). It also contains OK, Cancel, Full Access All, and No Access All buttons.

Maintain Se	curity - Use - Permission Lists	8	- 🗆 ×
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Permission List:	ALLPORTL		<u> </u>
Description:	[Portal] Portal Permission	21	
Name		F dit	
_	omponent Interface Permissio	ons	
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Couries Field Cha			
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Readv		H817OSUN	

- 5. To select the desired level of access, click in the Method Access column opposite the method and select from the drop-down list.
- 6. Click OK.

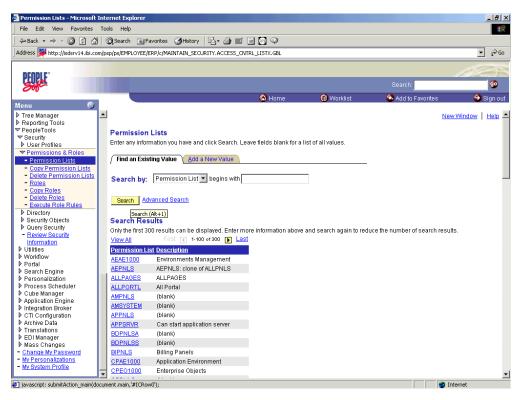
# Procedure: How to Configure Interface Security for PeopleSoft Version 8.4 or Higher

The following image shows the configure component interface security window. Permissions and Roles is expanded in the left pane.



To configure interface security:

1. Expand PeopleTools, Security, User Profiles, and Permissions & Roles and then, click Permission Lists. The following image shows the Permission Lists pane on the right with the Find an Existing Value tab active. You can view an existing value in the Permission List column with its associated description and search for results.



- 2. Click Search.
- 3. Select the relevant permission list.

The following image shows the General tab and contains information for the ALLPAGES permission list. It contains Description and Navigator Homepage fields; check boxes for selecting Can Start Application Server? and Allow Password to be Emailed?; and options to choose between Never Time-out and Specific Time-out.

🚰 Permission Lists - Microsoft	Int	ernet Explorer			- 8 ×
File Edit View Favorites	То	ols Help			21
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V User Profiles		Remainsion Link ALL RADED			
		Permission List: ALLPAGES			
<ul> <li>Permission Lists</li> </ul>		Description: ALLPAGES			
<ul> <li>Copy Permission Lists</li> </ul>					
- Delete Permission Lists		Permission List General			
- Roles - Copy Roles		Navigator Homepage: NAVIGATOR			
- Delete Roles		NAVIGATOR			
- Execute Role Rules		Can Start Application Server?			
Directory		Allow Password to be Emailed?			
Security Objects					
<ul> <li>Query Security</li> <li>Review Security</li> </ul>		Time-out Minutes			
Information					
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Cube Manager					
Application Engine					
<ul> <li>Integration Broker</li> <li>CTI Configuration</li> </ul>		(■ Save) Q Return to Search) (+≣ Next in List) (↑≣ Previous in List)	6		
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Translations		General   Pages   PeopleTools   Process   Sign-on Times   Component Interfaces   Message Monitor   V	Veb Libraries   Perso	nalizations   Quen	(   <u>Mass (</u>
▶ EDI Manager					
Mass Changes - Change My Password					
- My Personalizations					
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	-	•			•
🥙 Done				🗿 Internet	

4. To view the Component Interfaces tab, click the right arrow next to the Sign-on Times tab and click the *Component Interfaces* tab.

The following image shows the Component Interfaces tab and lists component interfaces for the ALLPAGES permission list.

ile Edit View Favorites					
🛏 Back 🔹 🔿 🚽 🚳 🚮	🛛 🐼 Search 🛛 📷 Favorites 🖓 History 🛛 🛃 🕶 🎒	🔟 📄 💿 🥯			
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Directory Security Objects					
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- Review Security	AR_CREDIT_AGENT	Edit	+ -		
Information	AR_ITEM_AGENT	Edit	+ -		
Utilities Workflow	AUC BID CONTACT CI	Edit	+ -		
Portal			+ -		
Search Engine	AUC_CREATE_CLONE_CI	Edit			
Personalization	AUC_CREATE_PO	Edit	+ -		
Process Scheduler Cube Manager	AUC_PAGELET_PREF_CI	<u>Edit</u>	+ -		
Application Engine	AUC VNDR ID CI	Edit	+ -		
Integration Broker	AUC_WF_APPR_CI	Edit	+ -		
CTI Configuration					
Archive Data Translations	BDG_CNTRL_EW_NTFY	Edit	+ -		
EDI Manager	BDG_CNTRL_NOTIFY	Edit	+ -		
Mass Changes	BD_ACCT_PER_LOOKUP	Edit	+ -		
Change My Password	BD_ANALYSIS_DB	Edit	<u> </u>		
My Personalizations My System Profile					
	BD_ASSET	<u>Edit</u>	+ -		•

5. To add a new row to the Component Interfaces list, click the *plus* button.

The following image shows the Component Interfaces tab and lists component interfaces for the ALLPAGES permission list. It includes a component interface name field where you clicked the plus sign to add a row.

Permission Lists - Microsoft Inte	ernet Explorer				_ # ×
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<ul> <li>Delete Permission Lists</li> <li>Roles</li> </ul>		· · · · · · · · · · · · · · · · · · ·			
- Copy Roles			279 of 279 💽 Last		
- Delete Roles	Name	Edit			
- Execute Role Rules	AP_PCJOB_RQST	Edit	+ -		
▶ Directory	AP_PCJOB_RQST2	Edit	+ -		
Security Objects Query Security	AR_CONVERSATION_AGENT	Edit	+ -		
- Review Security	-				
Information	AR_CREDIT_AGENT	Edit	+ -		
▶ Utilities		Q Edit	+ -		
Vorkflow Portal	AUC BID CONTACT CI	Edit	+ -		
▶ Search Engine	AUC_CREATE_CLONE_CI		+ -		
▶ Personalization		Edit			
Process Scheduler	AUC_CREATE_PO	Edit	+ -		
Cube Manager Application Engine	AUC_PAGELET_PREF_CI	Edit	+ -		
Application Engine	AUC_VNDR_ID_CI	Edit	+ -		
♦ CTI Configuration	AUC WE APPR CI	Edit			
Archive Data					
▶ Translations	BDG_CNTRL_EW_NTFY	Edit	+ -		
▶ EDI Manager ▶ Mass Changes	BDG_CNTRL_NOTIFY	Edit	+ -		
- Change My Password	BD_ACCT_PER_LOOKUP	Edit	+ -		
- My Personalizations	BD ANALYSIS DB	Edit	+ -		
- My System Profile		Lun			
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ø)					Internet

6. Type the Component Interface name and click Edit.

The following image shows the Component Interface Permissions pane for the component interface AR\_ITEM\_AGENT. It includes a column for the Method; drop-down lists for the Method Access corresponding to: Get, Create, Save, Cancel, and Find; and the buttons for Full Access (active) or No Access.

Permission Lists - Microsoft	Internet Explorer					_ 8
<u>File Edit View Favorites</u>	<u>T</u> ools <u>H</u> elp					
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✓ Security	Component Inte	rface Permissions				
User Profiles						
✓ Permissions & Roles	AR_ITEM_AGEN	г				
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- Copy Roles	Method	'Method Acc		No Access (All)	l	
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Directory	Create	Full Access	•			
Security Objects	Save	Full Access	•			
Query Security						
<ul> <li><u>Review Security</u> Information</li> </ul>	Cancel	Full Access	•			
• Utilities	Find	Full Access	•			
Workflow						
Portal	OK Cancel					
· Search Engine · Personalization						
Personalization Process Scheduler						
Cube Manager						
Application Engine						
Integration Broker						
CTI Configuration Archive Data						
Translations						
EDI Manager						
Mass Changes						
<ul> <li>Change My Password</li> <li>My Personalizations</li> </ul>						
• My Personalizations • My System Profile						
int of otomic	-					
						Internet

- a. From the drop-down lists, select the desired access level for each method.
- b. Click OK.
- 7. Scroll down in the right pane and click Save.

### **Testing a Component Interface**

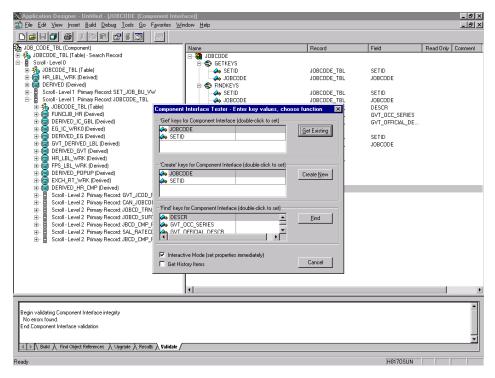
The iWay Application Adapter for PeopleSoft uses PeopleSoft metadata and Component Interfaces, therefore, it can accommodate new or modified Component Interfaces. The adapter makes no assumptions about Component Interfaces except that they are logical and valid. Therefore, each Component Interface must be tested before it can be used as a source for the adapter. If changes are made to the underlying application by the user or by a PeopleSoft upgrade, and the changes invalidate a Component Interface, the user must repair the invalid Component Interface before the adapter uses it.

### Procedure: How to Test a Component Interface

To test a Component Interface:

1. In Application Designer, from the Tools menu, select Test Component Interface.

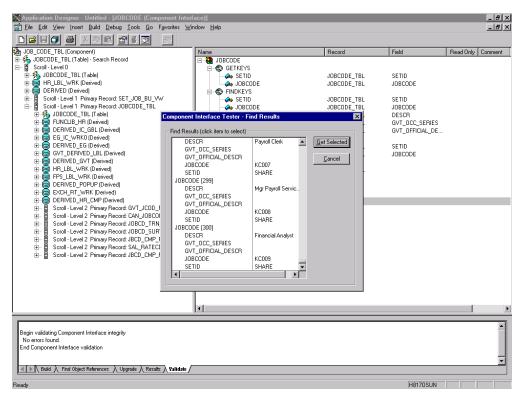
The Component Interface Tester dialog box opens as shown in the following image. It contains the following panes: Get keys for Component Interface, Create keys for Component Interface, and Find keys for Component Interface. It also contains Get Existing, Create New, Find, and Cancel buttons and check boxes for Interactive Mode and Get History Items.



2. To test the Component Interface, use one the following methods:

To test the Component Interface using the **Find method**, click *Find*.

The Component Interface Tester - Find Results dialog box opens and displays all of the possible entries for the underlying component. If there are more than 300 entries, a message appears as shown in the following image.



- a. In the left pane of the Find Results dialog box, select a field.
- b. To display the relevant data for that particular field, click Get Selected.

IOB_CODE_TBL (Challe) - Search Record         JOB_CODE_TBL (Table) - Search Record         Scall - Level 0         HB_LBL_WRK (Derived)         DECDDE_TBL (Table)         Scall - Level 1 Primacy Record JOB(         Scall - Level 1 Primacy Record JOB(         Scall - Level 1 Primacy Record JOB(         B_Scall - Level 1 Primacy Record (         B_Scall - Level 2 Primacy Record	Mame     JOBCODE     JOB	Record JOBCODE_TBL Right click to execute methods: Value 0011 GBI M CAD Frances Andyst Fin Analyst Fin Analyst	Field SETID OBCODE ETID OBCODE SECR SVT_OCFICIAL_DE ETID OBCODE	
Begin validating Component Interface integrity	1			
No errors found. End Component Interface validation	e à Resulte à Validate /			

The following image shows the Component Interface Tester that opens.

If the security settings permit, you can change the values in the individual fields.

To test the Component Interface using the Get method:

- c. Enter the existing key(s).
- d. Click Get Existing.

This returns the exposed properties for the key that you entered.

You can change values if Update access was specified.

Alternatively, you can test using the Create method.

To test the Component Interface using the **Create method:** 

- e. Enter all required key values.
- f. Click Create New.

When you enter valid values in Create keys, a pane that displays the JOBCODE data after the Table name is expanded with default data in place appears as shown in the following image.

∭Application Designer - Untitled - [JOBCOE ☐ File Edit View Insert Build Debug Ioc					_ 8 ×	
						1
JOB_CODE_TBL (Component)	Name	Record	Field	Read Only	Comment	T
<ul> <li>★ JOBCODE_TBL (Table) - Search Record</li> <li>★ Scoll - Level 0</li> <li>★ JOBCODE_TBL (Table)</li> <li>★ DBRIVED (Derived)</li> <li>★ DBRIVED (Derived)</li> <li>★ DBRIVED_TBL (Table)</li> <li>★ DDRIVED_TBL (Derived)</li> <li>★ DERIVED_C (Derived)</li> <li>★ DERIVED_POPUP (Derived)</li> <li>★ Scoll - Level 2 Primay Record (Derived)</li> </ul>	Identified and a set of the	JOBCODE_TBL	SETID		Lonment	
Begin validating Component Interface integrity No errors found. End Component Interface validation					<b>^</b>	
Build & Find Object References & Upgrade	> 👌 Results 👌 Validate /				-	
Beadu			H8170SUN			

At this point, you can change fields. Changes are validated against the underlying business logic of the component.

- g. After you finish making changes, right-click the top item in the pane.
- 3. To save your changes, click the Save icon.

The keys used to create the record can be used with the Get method for viewing data.

You can view the data that was added in the PeopleSoft Component as shown in the following image. The Job Code Profile pane displays information in fields and drop-down lists relating to job title, description, and so forth.

📕 Manage Human Resources (GBL) - Setup - Job Code Table		- P ×
<u>File Edit View Go Favorites Setup Setup Lcl Process ProcLcl Inquire Report Rpt Lcl Help</u>		
Job Code Profile Evaluation Criteria Salary Survey Default Compensation Non-Base Compensation		
SetID: SHARE Job Code: MYJOBC Business Units that use	this Setid	<u> </u>
Job Code Profile		
*Effective Date: 10/11/2002 + Status: Active -		
*Job Title: My brand new JOBCODE		
Short Job Title: My JOBCODE		
Job Description:	_	
Job Function Code:		
Job Family:		
"Standard Hours: 40.00 Standard Work Period: W + Weekly		
Workers' Comp Code:		
*Comp Freq: M Monthly Regular/Temporary: C Medical Checkup Required		
Union Code:		
Singapore		
Festive Advance Pay Program:		
Canada		
National Occupational Classif:		
Pay Equity Job Class: 🗾 🕨 🗖 Seasonal		
BPS Activity:		
Stats-Can Acad Teaching Survey		
*Report Flag: Not Applicable		
Duties:		
	H8170SUN Job Code Profile PST	 Update/Display

The Effective Date is one of the default values.

You have finished testing the Component Interface. Before using the Component Interface, you must generate its API. For more information, see *Generating Component Interface APIs* on page 47.

Appendix

# Using PeopleSoft 8 Integration Broker

This section discusses how to configure and test PeopleSoft Integration Broker (Release 8.4) and PeopleSoft Application Messaging (Release 8.1) using a PeopleSoft-supplied File Output interface.

In PeopleSoft Release 8.1, the messaging architecture is called Application Messaging and includes Application Messaging Gateway. In Release 8.4, the messaging architecture is called Integration Broker and includes Integration Gateway. When discussing release-generic issues, this section uses Release 8.4 terminology. When discussing release-specific issues, it uses release-specific terminology.

**Note:** This section is intended as a helpful supplement; it is not a substitute for PeopleSoft documentation. For more complete and up-to-date information on PeopleSoft Messaging and Integration Broker, see the *PeopleSoft Online Library* for your PeopleSoft system.

#### In this appendix:

- PeopleSoft Integration Broker
- Configuring Integration Broker in PeopleSoft Release 8.4 (PeopleTools Releases 8.48 8.51)
- Configuring Integration Broker in PeopleSoft Release 8.4 (PeopleTools Releases 8.40 8.47)
- Configuring Application Messaging in PeopleSoft Release 8.1
- Viewing the PeopleCode for a Message
- Testing the Integration Broker
- Using Outbound Synchronous Messages

### **PeopleSoft Integration Broker**

PeopleSoft Integration Broker provides a mechanism for communicating with the outside world using XML files. Communication can take place between different PeopleSoft applications or between PeopleSoft and third-party systems.

To subscribe to data, third-party applications can accept and process XML messages posted by PeopleSoft using the available PeopleSoft connectors or by adding a custom built connector to the Integration Gateway. This topic primarily covers publishing outbound asynchronous messages from a PeopleSoft system to a third-party application using the delivered File Output connector. For information on outbound synchronous messages, see *Using Outbound Synchronous Messages* on page 195.

To send a message, you must properly configure various internal structures and processes. The following descriptions are generally release-generic. Details of differences between Releases 8.1 and 8.4 are discussed in other topics.

Most of the examples in this section use the LOCATION\_SYNC message, which is a PeopleSoft Enterprise Integration Point (EIP) and is supplied with most PeopleSoft applications. If LOCATION\_SYNC is not part of your package, you can use any supplied message.

- Message. A Message is a container for the data that goes into the XML. It contains basic structural information, such as records and fields. To send the XML file, the Message must be in an Active status.
- Message Channel. The Message Channel is a mechanism for structuring records into logical groupings. Each Message can belong to only one Message Channel. For the Message to be delivered, the Message Channel must be in an Active (Run) status.

In Release 8.1, the Message Channel also provides preliminary routing instructions; you can specify the Message Nodes that handle the message. Each Message Channel can route messages to multiple Message Nodes.

**Message Node.** Message node functionality changed from 8.1 to 8.4.

In Release 8.1, the primary function of the Message Node is to specify the Gateway that receives the messages.

Much of the "intelligence" built into the Message Channel in Release 8.1 moved to the Message Node in Release 8.4 which provides additional flexibility. You can specify which messages the Message Node can handle. In addition, the Gateway Connector is bound to the Message Node. Each Message Node can route messages to only one Connector.

- □ Integration Gateway. The Integration Gateway is a program that runs on the PeopleSoft web server. It is the physical hub between PeopleSoft and the third-party system.
- □ **Target Connector/Handler.** Connectors are Java programs that run under the control of the Integration Gateway and control the final output destination of the XML file. PeopleSoft Release 8.4 comes with several connectors including HTTP, FTP, SMTP, JMS, POP3, and a Simple File connector that places the file in a directory on the web server. This section discusses the Simple File connector.

❑ PeopleCode. PeopleCode is the programming tool provided with PeopleTools that enables you to create complex application functionality. A message can be initiated only by using specific PeopleCode instructions. This code is usually triggered by an application event, such as creating a new database entry through an online panel or through a batch job.

# Configuring Integration Broker in PeopleSoft Release 8.4 (PeopleTools Releases 8.48 - 8.51)

This section provides a tutorial that walks you through the PeopleSoft event generation process. PeopleTools Releases 8.48 - 8.51 are supported. The tutorial uses the PeopleTools Release 8.48.02 and 8.90 Financial / SCM application. As a result, if you are using a different platform, then correlate the terms and commands specific to that operating system. For more information, refer to the appropriate user guide for each specific component.

### **Configuring PeopleSoft Services**

This section describes how to configure PeopleSoft services.

### *Procedure:* How to Add a Remote Node

To add a remote node:

- 1. Logon to PeopleSoft using the browser-based GUI (Pure Internet Architecture).
- 2. Select PeopleTools, Integration Broker, Integration Setup, followed by Nodes.

The Node Definitions tab is displayed.

Node Definitions	<u>P</u> ortal <u>W</u> S Security	Routings	
Node Name:	EXTERNAL		Copy Node
<b>*Description:</b>	Message publish to third party		Rename Node
'Node Type:	External 🐱	Default Local Node	Balada Marda
'Authentication Option:	None	<ul> <li>□ Local Node</li> <li>✓ Active Node</li> <li>□ Non-Repudiation</li> <li>□ Segment Aware</li> </ul>	Delete Node
'Default User ID:	PS	Q	

- 3. Perform the following steps:
  - a. In the Node Name field, type a name for the new node definition, for example, EXTERNAL.
  - b. In the Description field, type a brief description for the new node definition.
  - c. From the Node Type drop-down list, select External.
  - d. From the Authentication Option drop-down list, ensure that the default option, *none*, is selected.

- e. In the Default User ID field, type the user ID that is being used by the PeopleSoft system, for example, PS.
- f. Select the Active Node check box.
- 4. Click the Connectors tab.

The Connectors tab is displayed.

Node Definitions Connec	tors <u>P</u> ortal !	<u>W</u> S Security Y	Routings	
Node Name EXTERNAL			Ping Node	
Details				
Gateway ID LOCAL		Q		
Connector ID HTTPTARG	ET	Q		
Properties			Customize   Find   🛄 👘	First 🛃 1-3 of 3 🕨 Last
/ Properties / Data Type	/Description Trans			
<u>'Property ID</u>	<u>'Property Name</u>	Required	Value	
1 HEADER	sendUncompressed	Q 🗹	Y	Q 🕂 🖃
2 HTTPPROPERTY	Method	Q 🗸	POST	Q 🕂 🗖
3 PRIMARYURL	URL	۹ 🗹	http://bpelclientt1971	Q 🕂 🖃
Password Encryption U	tility			

- 5. Perform the following steps:
  - a. In the Gateway ID field, type LOCAL.
  - b. In the Connector ID field, type HTTPTARGET.
  - c. For the PRIMARYURL value, enter the host and port number of the PeopleSoft adapter instance that is used to listen for events. For example:

http://bpelclient:1971

- d. Leave the default values for the remaining properties.
- 6. Save your changes.

#### *Procedure:* How to Select a Service

To select a service:

- 1. Select PeopleTools, Integration Broker, Integration Setup, followed by Services.
- 2. Search for the DEPT\_SYNC service and select it.

Services			
Service:	DEPT_SYNC		
'Description:	Dept Sync Incr. Message		
Comments:	Incremental (Component Publish) Dej Message	ot Sync 🔥	
		~	
Service Alias:			
Object Owner ID:	Human Resources 🔽 🔽		
'Namespace:	http://xmlns.oracle.com/Enterprise/Too	ls/services	
	View WSDL Provide Web Service	<u>e</u>	
Service Operations			
Service Operation:			
Operation Type:		ADI	
Existing Operations	Customize   Find   View All	🛗 🛛 First	🛃 1-2 of 2 🕩 Last
Operation Message Lin     Operation Default Version		Activo	Operation Type
Operation.Default Version ADD_DEPT.v1	Description Add Department	Active	Operation Type Asynch
DEPT SYNC.VERSION 1	Dept Sync Incr. Message	V	Asynch

The DEPT\_SYNC Services pane is displayed.

3. From the Existing Operations section on the lower left, click the *DEPT\_SYNC.VERSION\_1* service operation.

The Service Operation - General pane is displayed.

Default Service Operation	1 Version			
"Version:	VERSION_1		🗹 Default	Active
Version Description:	Dept Sync Incr. Message		Routing Status	
Version Comments:		~	Any-to-Local:	Exists
			Local-to-Local:	Exists
		1	Routing Actions Up	1011 Save
	_		Regenerate A	
	Non-Repudiation			-
Introspection	Runtime Schema Validation		Regenerate Lo	ocal-to-Local

4. Click the Active check box.

5. Click the *Routings* tab to add a new routing.

General Handl	ers Routings	
Service Operation:	DEPT_SYNC	
Default Version:	VERSION_1	
Routing Name:	ADD_DEPT	ADD

- 6. In the Routing Name field, type a name for the new routing, for example, ADD\_DEPT.
- 7. Click Add.
- 8. Click the *Routing Definitions* tab to add a new routing definition.

Routing Definitions Para	ameters 🍸 Connector Properties 👌	
Routing Name: 'Service Operation:	ADD_DEPT	✓ Active System Generated
Version:	VERSION_1 ADD_DEPT	1
'Description:		
Comments:		
'Sender Node:	PSFT_HR	]
'Receiver Node:	EXTERNAL	
Routing Type:	Asynchronous - One Way	
Object Owner ID:	~	
Save	Return	

- 9. Perform the following steps:
  - a. In the Sender Node field, type *PSFT\_HR*, which is the default PeopleSoft node that publishes the message.
  - b. In the Receiver Node field, type *EXTERNAL*, which is the new node that has been created to subscribe the message published by PeopleSoft.

10. Click the Connector Properties tab.

Routing Definitions	Paramet	ers Connecto	r Properties		_
Routing	Name:	ADD_DEPT			
Service Ope	ration:	DEPT_SYNC			
Service Operation Ve	ersion:	VERSION_1			
Gate	way ID:	LOCAL		]Q	
Connec	tor ID:	HTTPTARGET		]0	
<b>Connector Properti</b>	ies	<u>Customi</u>	ze   Find   View All   🛅 🛛	First 🛃 1-3 of 3	🕑 Last
Property ID	Property N	lame	<u>Value</u>		
HEADER	sendUnco	mpressed	Υ	্	+ -
HTTPPROPERTY	Method		POST	Q	+ -
PRIMARYURL	URL		http://bpelclient:1971	Q	+ -

- 11. Perform the following steps:
  - a. In the Gateway ID field, type LOCAL.
  - b. In the Connector ID field, type HTTPTARGET.
  - c. For the PRIMARYURL value, enter the host and port number of the PeopleSoft adapter instance that is used to listen for events. For example:

http://bpelclient:1971

12. Click Save and then click Return.

You are returned to the Routing Definitions pane. Notice that the new routing definition (ADD\_DEPT) is now added to the list.

General Y	Handler	s Routings						
Service Opera	ation:	DEPT_SYNC						
Default Ver	rsion:	VERSION_1						
Routing N	lame:			Ado	b			
Routing Defin	nitions				<u>C</u>	ustomize   Find   Vi	ew All   🔛	First 🖪 1-7 of 7 🕨 L
Selected	Name		Version	Routing Type	Sender Node	Receiver Node	Direction	Status
	~GEN~	UPG~24704	VERSION_1	Asynch	PSFT_HR	PSFT_EP	Inbound	Inactive
	ADD D	EPT	VERSION_1	Asynch	PSFT_EP	EXTERNAL	Outbound	Active

- 13. Click Save to save the details of the Service Operation.
- 14. Click the Return to Service link to return to the Services pane.
- 15. Click Save on the Services pane.

### *Procedure:* How to Activate the Gateway

To activate the gateway:

- 1. Select PeopleTools, Integration Broker, Configuration, followed by Gateways.
- 2. Search for the Integration Gateway ID, for example, Local and select it.

The Gateways pane is displayed.

Gateways	6		
Gateway ID:	LOCAL		
	🗹 Local Gateway	🔲 Load Balancer	
URL:	http://peoplesoftdemo	oracle.com:19000/PSIGW/PeopleSoftListeningC	Ping Gateway
Gateway Setup	Properties		
Load Gatew	ay Connectors		

3. Click Ping Gateway.

A new browser window is displayed, which shows that the gateway is active.



4. Close the new browser window to return to the Gateways pane.

ateway ID:	LOCAL					
	🗹 Local Gatew	ay 📃 Load Bala	ncer			
RL:	http://peoplesoff	tdemo.oracle.com:190	00/PSIGW/PeopleSoftListeningC	Ping Gateway		
onnectors		1	0.1	eteroire   Cind	Elizat 🗐 e en er	
onnectors <u>'Connect</u>	or ID	Description	<u>Cu</u> <u>'Connector Class N</u>	stomize   Find   🗮 ame	First 🛃 1-10 of	10 🕨 La
		Description		<u>ame</u>	First  First  First  First	_
*Connect	GET	Description	<u>'Connector Class N</u>	ame or		<u>es</u> +
Connect	PUT	Description	<u>Connector Class N</u> AS2TargetConnector	a <u>me</u> or onnector	Propertie	<u>es</u> +
1 AS2TAR	PUT	Description	Connector Class N AS2TargetConnecto SimpleFileTargetCo	ame or onnector or	Propertie	es + es + es +

5. Ensure that HTTPTARGET is listed in the Connectors section. If it is not listed, click *Load Gateway Connectors* to refresh the available connectors.

### *Procedure:* How to Activate the Domain

To activate the domain:

1. Select PeopleTools, Integration Broker, Configuration, followed by Quick Configuration.

The Quick Configuration pane is displayed.

ntegration Broker Quick Configuration										
ocal Gateway										
The integration	The integration gateway manages message transport through several communication protocols.									
Gateway URL: http://peoplesoftdemo.oracle.com:19000/PSIGW/PeopleSoftListeningConnecto Ping Gateway										
Advanced Gatev	vay Setup Use to access additional integration gateway feature	ures.								
ntegration Broke	r Domains									
	chronous messages, one application server domain must be active. If ina Status drop-down list to activate the appropriate domain.	rctive, First ◀ 1-13 of 13 🕨 Last								
Machine Name	Customize   Find   🗰 Application Server Path	Domain Status								
ADNTAS44	E:\PT840RC4\appservHC840MST_ADNTAS44	Active								
ADNTAS44	E:\PT840\appser\HC840MST_ADNTAS44	Active								
ADNTAS44	E:\PT841E2\appser/HC840MST_ADNTAS44	Active								
ADNTAS44	E:\PT842H2\appserv\HC880MST_ADNTAS44	Active								

2. Ensure that the domain is active.

### *Procedure:* How to Activate the Service

To activate the service:

1. Select PeopleTools, Integration Broker, Integration Setup, followed by Services.

General Handlers	Routings	
Service Operation:	DEPT_SYNC	
Service: Operation Type:	DEPT_SYNC Asynchronous - One Way	
'Operation Description:	Dept Sync Incr. Message	User/Password Required
Operation Comments:		
Object Owner ID:	Human Resources 💌	×.
Operation Alias:		Service Operation Security
Default Service Operation	Version	
"Version:	VERSION_1	✓ Default ✓ Active
Version Description:	Dept Sync Incr. Message	Routing Status
Version Comments:		Any-to-Local: Exists
		Local-to-Local: Exists
		Routing Actions Upon Save
	Non-Repudiation	Regenerate Any-to-Local
Introspection	Runtime Schema Validation	Regenerate Local-to-Local

The Services pane is displayed.

2. Ensure that the service is active.

### *Procedure:* How to Activate the Service Operation (Queue and Message Node)

To activate the service operation:

1. Select PeopleTools, Integration Broker, Configuration, Integration Setup, followed by Services.

The Services pane is displayed.

Existing Operati	ons	Customize   Find   Viet	w All   🛗 👘 First 🗄	🕙 1-2 of 2 🕑 Last
Operation	Message Links			
Operation.Defau	<u>ilt Version</u>	<b>Description</b>	<u>Active</u>	Operation Type
ADD_DEPT.v1		Add Department	$\checkmark$	Asynch
DEPT SYNC.VE	RSION 1	Dept Sync Incr. Message	<b>V</b>	Asynch

2. From the Existing Operations section on the lower left, click the *DEPT\_SYNC.VERSION\_1* service operation.

The Service Operation - General pane is displayed.

Default Service Operation	Version				
'Version:	VERSION_1		🗹 Default	🗹 Active	
Version Description:	Dept Sync Incr. Message		Routing Status		
Version Comments:		~	Any-to-Local:	Exists	
			Local-to-Local:	Exists	
		v	Routing Actions Up	on Save	
	Non-Repudiation		Regenerate A		
Introspection	Runtime Schema Validation		Regenerate L	ocal-to-Local	

3. In the message information section on the bottom of the page, note the value in the Queue Name field of the service operation.

Message Information		
Туре:	Request	
Message.Version:	DEPT_SYNC.VERSION_1	Q View Message
'Queue Name:	ENTERPRISE_SETUP	Q View Queue Add New Queue

4. Click the View Queue link.

The Queue Definitions pane opens.

Queue Defir	nitions						
Queue Name: Description: Comments:	ENTERF EC Setur EC Setur		< ×		☑ Archive Queue Status: ject Owner ID:	Unordere Run Entr Comp	<b>v</b>
Operations Assigne	d to Queue	A10000	_		oning Fields		
Service Operations	View All	First 🕙 1-10 of 42 🕨 Last		ion Fie lude	lds Field	View A	I First I 1-3 of 3 ┠ Last Alias Name
Operation		Version			OPERATIONNAM	16	Allas Halle
ALTACCT_CF_FUL		VERSION_1			PUBLISHER		
ALTACCT_CF_SYN		VERSION_1		_			
BUDGET_REF_CF	-	_	[		PUBPROC		
BUDGET_REF_CF BUS_UNIT_FS_FU	-	VERSION_1 VERSION_1					
BUS_UNIT_FS_SY		VERSION_1					
CHARTFIELD1_FU		VERSION_1					
CHARTFIELD1_SY	NC	VERSION_1					
CHARTFIELD2_FU	LLSYNC	VERSION_1					
CHARTFIELD2_SY	NC	VERSION_1					
Save	Return		Add	Field			

- 5. Ensure that the Queue Status drop-down list has Run selected.
- 6. Click Return to return to the Service operation pane.
- 7. Click the Routings tab.

General	Handlers / Routings							
Service Operation	ation: DEPT_SYNC							
Default Ve	Default Version: VERSION_1							
Routing N	Routing Name:ADD							
Routing Defi	nitions			<u>c</u>	<u>ustomize   Find   Vi</u>	ew All   🛗	First 🕙 1-6 of 6 🕨	
Selected	<u>Name</u>	Version	Routing Type	Sender Node	Receiver Node	<b>Direction</b>	<u>Status</u>	
	~GENERATED~946522	40 VERSION_1	Asynch	~~ANY~~	PSFT_HR	Inbound	Active	
	~GEN~UPG~12357	VERSION_1	Asynch	PSFT_HR	PSFT_CR	Outbound	Inactive	
	ADD DEPT	VERSION_1	Asynch	PSFT_HR	EXTERNAL	Outbound	Active	
	~GEN~UPG~20085	VERSION_1	Asynch	PSFT_HR	PSFT_EP	Outbound	Inactive	
	~GEN~UPG~25397	VERSION_1	Asynch	PSFT_HR	PSFT_HR	Local	Inactive	
	~GEN~UPG~13180	VERSION_1	Asynch	PSFT_HR	PSFT_LM	Outbound	Inactive	

- 8. Ensure that the routings are active.
- 9. Click the Return to Service link on the bottom of the pane to return to the Services pane.
- 10. Click Return to Search to go to the Services search pane.

In the above steps, if the status has been activated in any of the panes for any of the components, then make sure to save the status at the appropriate pane and the respective components.

11. Select PeopleTools, Integration Broker, Configuration, Integration Setup, Services, followed by Nodes.

Node Definitions Connectors Portal WS Security Routings Copy Node Node Name: EXTERNAL Message publish to third party **'Description:** Rename Node External Default Local Node × 'Node Type: Delete Node Local Node Active Node None \* **\*Authentication Option:** Non-Repudiation 📃 Segment Aware

The Node Definitions pane opens.

12. Ensure that the status of the External node is active.

This completes the configuration on the PeopleSoft side.

### Triggering the Event in PeopleSoft

This section describes how to trigger the event in PeopleSoft.

# *Procedure:* How to Trigger the Event

To trigger the event:

- 1. Logon to PeopleSoft using the browser-based GUI (Pure Internet Architecture).
- 2. Navigate to *Main Menu*, Set up HRMS, Foundation Tables, followed by Departments. The Departments pane is displayed.

Departments									
Enter any information you have and click Search. Leave fields blank for a list of all values.									
Find an Existing Value Add a New Value									
SetID:	= 💌	SHARE	Q						
Department:	begins with 🔽		]						
Description:	begins with 🔽		]						
Company:	begins with 🔽		<b>Q</b>						
Location SetID:	begins with 🔽		<b>Q</b>						
Location Code:	begins with 🐱		<b>Q</b>						
Manager ID:	begins with 🔽		Q						
Budget with Department:	begins with 🔽		]						
Include History									
Search Clear	Basic Search	🖥 <u>Save Search Criteria</u>							

3. Click the Add a New Value tab.

Departments
<b>Eind an Existing Value</b> Add a New Value
SetID: SHARE Q Department: BPELTEST01
Add

4. Enter the appropriate value in the SetID and Department fields.

5. Click Add.

The Department Profile tab opens.

Department Profile Comm.	Acctg. and EG			
SetID: SHARE Depa	artment: BPELTEST01	Business	Units that use this Setid	
Department Profile			Find View All First	st 🖲 1 of 1 🕑 Last
'Effective Date: 08/	/25/2008 🛐	'Status:	Active 🗸	+ -
'Description: BP	EL Inbound Test	Short Description:	BPEL Inbou	
Location SetID:	Q			
Location:	Q			
Company:	Q			
Manager Type				
⊙ None				
© EmpliD Manager ID:				
OPosition Manager Pos	sition:			
EmpliD:				
Budget Year End Date:		'Budget Level:	None 🔽	
Payroll for North America				
Tax Location:	Q			

- 6. Provide the necessary information according to your requirements to create a new Department record.
- 7. Click Save at the bottom of the pane when you are finished.

# Verifying the Event Results

This section describes how to verify the event results.

# *Procedure:* How to Verify the Results

To verify the results:

- 1. Logon to PeopleSoft using the browser-based GUI (Pure Internet Architecture).
- 2. Navigate to Main Menu, PeopleTools, Integration Broker, Service Operation Monitor, followed by Asynchronous Services.

The Monitor Overview tab is displayed.

Monitor Overview Operation Instance	es Y P	ublicatio	on Contrac	ts $\gamma$ Subs	cription (	Contract	5			-
Publish Node			Q				Archived			
'Queue Level 🛛 Oper Inst 💌 'Grou	p By	Queue			~					
Time Period										
From Date:	To Da To Tir			Ħ	F	tefresh	J			
Result				Q	ustomiz	e   Find	View All	Firs	t 🖪 1-4 of 4	▶ Last
Queue Name	Error	New	Started	Working	Done	<u>Retry</u>	<u>Timeout</u>	Edited	<u>Canceled</u>	Hold
ENTERPRISE_SETUP	0	0	0	0	5	0	0	0	0	0
PSRF_REPORTING_FOLDERS	0	0	0	0	<u>1366</u>	0	0	0	0	0
PSXP_MSG_CHNL	0	0	0	0	1	0	0	0	0	0
USER_PROFILE	0	0	0	0	1	0	0	0	0	0

Here you can view the results of the events at the queue level.

3. Click the number link (5) queue (Enterprise\_Setup) in the Result section.

The Operation Instances tab is displayed.

Monitor C	verview / Operat	ion Instances	Publication	Contracts	Subs	ription	Contracts			-
	Node Name				]Q		Archived			
External	Service Name				]					
Ser	vice Operation		Q							
	Queue Name	ENTERPRIS	E_SETUP		]Q	Status	Done	~		
	Transaction ID									
Time Per	iod									
From Da	te:	BI	To Date:		31					
From Tin	ne:		To Time:				Refresh			
Result						Custom	ize   Find   Vi	ew All ( 🎽	First 🖪 1-5 of s	s 🗈 Last
Select	Transaction ID		<u>Queue Name</u>	<u>Pu</u> No	<u>blishing</u> de	<u>Sub</u>	Queue	<u>Status</u>	<u>Time Stamp</u>	
	b727c644-72d0-1 b53768245214	1dd-9dd0-	ENTERPRISE	_SETUP PS	FT_HR	Sub	Queue Link	Done	08/25/2008 2:07:48PM	<u>Details</u>

Notice that a new record for the event (department) is available.

4. Click the *Details* link on the lower-right.

Asynchronous Details Transaction ID b727c644-72d0-11dd-9dd0-b53768245214 External Service Name DEPT\_SYNC.VERSION\_1 Refresh ¥ 'Segment 1 Publishing Node PSFT\_HR View XMI Queue Name ENTERPRISE\_SETUP Queue Sequence ID 5 Sub Queue Original Pub Node PSFT HR Uncompressed Data Length 7526 Status DONE Data Length View Limit 100000 View IB Info Publication Contracts ustomize | Find | Actions Information Subscriber Node 'Segment Status EXTERNAL 1 Done View XML Error Messages View IB Info

The Asynchronous Details browser window opens.

Notice that the status of the transaction is DONE for the Publishing and Subscriber nodes.

### Configuring Integration Broker in PeopleSoft Release 8.4 (PeopleTools Releases 8.40 - 8.47)

You can configure PeopleSoft 8.4 to send an asynchronous outbound message to the File Output connector.

To configure application messaging in PeopleSoft 8.4:

- 1. Ensure that the message is active and is routed to the proper Message Channel.
- Configure the IntegrationGateway.properties file to communicate with your PeopleSoft 8.4 application.
- 3. Configure the Integration Gateway and File Output connector.
- 4. Create and configure a new Gateway node.

These tasks are described in detail in the following procedures.

#### *Procedure:* How to Ensure the Message Is Active and Is Routed Correctly

To ensure that the message is active and is routed to the proper Message Channel:

- 1. Open Application Designer.
- 2. On the File menu, point to Open, click Message, and open the LOCATION\_SYNC message.

The Application Designer opens as shown in the following image. The message field names appear in a column with corresponding columns for the field alias and a check box indicating whether to include the field.

Application Designer - Untitled - [LOCATION_SYNC (Message)]					_ 6
<u>File Edit View Insert Build Debug Tools Go Window Help</u>					_ 5
) <b>= = 1 = 3 = 4 = 5 = = = = = =</b>	<b>I</b>				
Message Structure		Field Name	Alias	Include	
S VERSION_1	1	SETID			
COCATION TBL	2	LOCATION			
Message Subscriptions	3	EFFDT		V	
🐓 LocationSync	4	EFF_STATUS			
LocationSyncElf	5	DESCR			
	6	DESCR_AC			
	7	DESCRSHORT			
	8	BUILDING			
	9	FLOOR			
		SECTOR			
		JURISDICTION			
	12	ATTN_TO			
		COUNTRY		V	
	14	ADDRESS1		V	
		ADDRESS2		<b>V</b>	
		ADDRESS3		V	
	17	ADDRESS4			
	18	CITY		<b>V</b>	
	19	NUM1		V	
	20	NUM2		<b>V</b>	
	21	HOUSE TYPE		<b>V</b>	
		ADDR_FIELD1		<u>v</u>	
		ADDR_FIELD2		<b>V</b>	
		ADDR FIELD3		<u>v</u>	
		COUNTY		<b>V</b>	
		STATE		<u>v</u>	
		POSTAL		<u>v</u>	
		GEO_CODE		<u>v</u>	
		IN_CITY_LIMIT		<u>v</u>	
		COUNTRY_CODE		<u>v</u>	
		PHONE		<u>v</u>	
		EXTENSION		<b>v</b>	
		FAX		V 1	
		SETID SALARY		<u> </u>	
		SAL ADMIN PLAN		<u> </u>	
		LANG_CD		<u> </u>	
	37	HOLIDAY_SCHED		- T	
	120	ESTABID			
		LOCALITY		- N	
		CAN CMA		- V	
		CAN_CEE_AREAC			
		GEOLOC_CODE			
		OFFICE_TYPE			
	40	NCR_SW_CAN			
	144	THOUT2M TONIN			

- 3. To view the fields that are included in the Message, select LOCATION\_TBL.
- 4. To view the Properties dialog box, right-click *LOCATION\_TBL* and select *Properties*.

The Message Properties dialog box opens as shown in the following image and includes Non-Repudiation and Status check boxes, Message Channel and Default Version lists, and Use Message Monitor Dialog and Use Page options.

Application Designer - Untitled - [LOCATION_SY				_ B ×
File Edit View Insert Build Debug Iools Go				<u>_8</u> ×
Message Structure		Field Name Ali	<u>v</u>	<u></u>
LOCATION_TBL     Message Subscriptions		2 LOCATION 3 EFFDT	<u> </u>	
		4 EFF_STATUS		
LocationSyncEff	Message Propertie	5 DESCE s		
	General Use			
	Status	Non-Repudiation		
	Message <u>C</u> hannel	ENTERPRISE_SETUP	<b>•</b>	
	Default Version:	VERSION_1	<b>•</b>	
	Message Viewin			
	Ise Messag C Use <u>P</u> age	e Monitor Dialog		
	Page			
	Me <u>n</u> u Name:	DEFINE_GENERAL_OPTIONS	<u></u>	
	Bar Name:	USE_E-P	<b>Y</b>	
	Item Name:	LOCATION	<b>Y</b>	
	Page Name:	LOCATION_DEFINITION	7	
	Action:	&Correction	<b>v</b>	
				L
			OK Cancel	
		36 LANG_CD 37 HOLIDAY_SCHED	<u> </u>	
		38 ESTABID	<u> </u>	
		39 LOCALITY 40 CAN_CMA	<u>v</u>	
		41 CAN_OEE_AREAC 42 GEOLOC CODE	<u> </u>	
		43 OFFICE_TYPE	<u> </u>	
Ready		44 NCR_SW_CAN	<b>N</b>	F840DM0

- a. Select the Use tab.
- b. Ensure the Status check box is selected, indicating that the message is active.

The message is routed to the Message Channel, ENTERPRISE\_SETUP, and the default message version is VERSION\_1 (messages can have multiple versions).

- 5. Click OK.
- 6. Save the message.

You have ensured that the message is active and routed correctly.

### *Procedure:* How to Configure the IntegrationGateway.properties File

If your web server is WebSphere, the IntegrationGateway.properties file resides in:

C:\websphere\AppServer\installedApps\peoplesoft\PSIGW\Web-inf\

To configure the IntegrationGateway.properties file:

- 1. Using the editor of your choice, open the IntegrationGateway.properties file.
- 2. Find the section of the file that specifies the JOLT connect string setting for the default application server. This is usually near line 75 and looks similar to the following:

```
## JOLT connect string setting for optional Default Application
Server. Do NOT specify a NODENAME.
#
# Example:
#ig.isc.serverURL=//MYSERVER:9000
#ig.isc.userid=MYUSERID
#ig.isc.password=MYPASSWORD
#ig.isc.toolsRel=8.40
```

- 3. Uncomment (or copy and uncomment) the four lines that specify the connection.
- 4. Enter the appropriate information.

In the following example, the PeopleTools release is 8.40.09.

```
ig.isc.serverURL=//isdsrv14:9000
ig.isc.userid=VP1
ig.isc.password=VP1
ig.isc.toolsRel=8.40.09
```

The PeopleSoft tools release must be precise to the last decimal.

**Note:** With Release 8.42, the password must be stored in an encrypted format. PeopleSoft provides a script called PSCipher.bat (PSCipher.sh on Unix) to accomplish encryption. Usually, this script is located in the path of the IntegrationGateway.properties file. To run this script, follow the instructions provided by PeopleSoft.

You have finished configuring the IntegrationGateway.properties file.

#### *Procedure:* How to Configure the Integration Gateway and the File Output Connector

To configure the Integration Gateway and the File Output Connector:

- 1. In a web browser, open your PeopleSoft 8.4 application in 4-tier mode.
- 2. In the Menu pane, expand PeopleTools, Integration Broker, and then, click Gateways.
- 3. Open the LOCAL Gateway ID and type the following Gateway URL:

machine-name/PSIGW/PeopleSoftListeningConnector

#### where:

#### machine-name

Is the URL of your PeopleSoft web server.

a. Click Refresh.

A message appears stating the outcome of the refresh process.

- b. Click OK.
- 4. Scroll down and click Save.

You must click Save before continuing.

5. Click the *Properties* hyperlink for the FILEOUTPUT Connector ID.

The Properties pane for the FILEOUTPUT Connector opens, as shown in the following image. Information for the Gateway ID and the Connector ID appears. The Properties tab is active and includes fields for the Property ID, Name, and Value. Check boxes indicating whether required and whether the value is the default also appear on the tab.

	met Exp											- 8
<u>F</u> ile <u>E</u> dit ⊻iew F <u>a</u> vorites	<u>T</u> ools	<u>H</u> elp										1
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3overnment Resource	P	roperties										
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Background Processes	6	iateway ID:	LOCAL									
Norklist		ateway iD.	LUCAL									
Tree Manager												
Reporting Tools	C	Connector ID:	FILEOUT	PUT								
PeopleTools												
Security		Properties						Customiz	e i 🛅 🛛 🔳	1-4 of 4 🕨		
Utilities	7	Properties	V Data Two	e / Description 👌 🖪								
Workflow		•										
Portal		Property II	2	Property Name	1 E	Required	Value		Defau	<u>h</u>		
Search Engine		1 HEADER		sendUncompr	D hesse	<b>v</b>	Y		<b>v</b>	+ -		
Personalization												
Process Scheduler		2 HEADER	(	sendUncompr	essed Q	5	N			+ -		
Cube Manager				-								
		3 PROPERT	Y C	FilePath	Q	5	d:lpslcache			+ -		
Application Engine												
Application Engine Integration Broker		4 PROPERT	Y C	FileName	Q					+ -		
Application Engine Integration Broker Monitor		4 PROPERT	Y C	FileName	٩					+ -		
Application Engine 'Integration Broker Monitor - Node Definitions		4 PROPERT	Y C	FileName	٩					+ -		
Application Engine Integration Broker Monitor Node Definitions Gateways		4 PROPER	Y C	FileName	٩					+ -		
Application Engine Integration Broker > Monitor - <u>Node Definitions</u> - <u>Gateways</u> - <u>Relationships</u>				FileName	٩					+ -		
Application Engine Integration Broker Monitor Node Definitions Gateways Relationships Codeset Groups				FileName	٩					+ -		
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Application Engine Integration Proter Monitor Notal Definitions • Osteways • Cateways • Catesat Groups • Codesats • Codes				FileName	<u>a</u>					<b>*</b> -		

a. Accept or overwrite the default values.

In the previous image, the FilePath PROPERTY from the c:\temp default was changed to d:\ps\cache.

b. To return to the Gateway window, click OK.

6. Scroll down and click Save.

You have finished configuring the Integration Gateway and the File Output Connector.

#### *Procedure:* How to Create and Configure a New Gateway Node

To create and configure a new Gateway Node:

- 1. In the Menu pane, expand PeopleTools, Integration Broker, and click Node Definitions.
  - a. Select the Add a New Value tab.
  - b. In the Node Name field, type a node name.

It is recommended that you name your first (trial) message node EXTERNAL. After successfully configuring and sending messages using this node, you can create additional message nodes with names appropriate for your application.

2. Click Add.

The Node Info tab becomes available.

- a. In the Description field, type an appropriate description.
- b. From the Node Type drop-down list, select *EXTERNAL*.
- c. From the Routing Type drop-down list, select *Implicit*.
- 3. Click the *Connectors* tab to make it available.
  - a. For the Gateway ID, specify LOCAL.
  - b. For the Connector ID, specify FILEOUTPUT.
  - c. Accept or overwrite the default Gateway property values.
- 4. Click Save.
- 5. To specify the transactions to route messages to your node, select the Transactions tab.
- 6. Click Add Transaction.
  - a. From the Transaction Type drop-down list, select Outbound Asynchronous.
  - b. In the Request Message field, specify LOCATION\_SYNC.
  - c. In the Request Message Version field, specify VERSION\_1.
- 7. Click Add.

The Transaction Detail pane opens.

- a. In the Routing Type drop-down list, verify that the value is *Implicit*.
- b. Click Save.
- c. Click the Return to Transaction List hyperlink.

d. To ensure that your data entry is not lost, click Save again.

You have finished creating and configuring the new Gateway Node.

8. Continue with the instructions in *Viewing the PeopleCode for a Message* on page 190.

# Configuring Application Messaging in PeopleSoft Release 8.1

You can configure PeopleSoft 8.1 to send an asynchronous outbound message to the Simple File Handler.

To configure application messaging in PeopleSoft 8.1:

- 1. Create and configure a new Message Node.
- 2. Ensure the message is active and is routed to the proper Message Channel.
- 3. Configure the Message Channel.
- 4. Configure the Simple File Handler in the Gateway.

These tasks are described in detail in the following procedures.

### Procedure: How to Create and Configure a New Message Node

To create and configure a new Message Node:

1. From the File menu, select *New* and click *Message Node*.

The Message Node window opens and contains three options: Insert Location, Find Object References, and Delete as shown in the following image.

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<u>F</u> ile	e <u>E</u> dit	⊻iew	Insert	<u>B</u> uild	<u>D</u> ebug	<u>T</u> ools	<u>G</u> o	F <u>a</u> vorites	<u>W</u> indow	<u>H</u> elp		
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1						_				_		

2. Right-click anywhere inside the white space and select Insert Location.

The Location URL box opens where you type the URL for the location as shown in the following image.

X Application Designer - Untitled - [EXTERNAL (Message Node)]	
📸 Eile Edit View Insert Build Debug Tools Go Favorites Window Help	
Locations:	
Location	×
Location	ОК
URL: http://esdsun.ibi.com:18000@servlets/psft.pt8.gateway.GatewayServlet	Cancel

3. Type the following URL for the PeopleSoft Application Gateway (handler directory):

machine-name:port/servlets/psft.pt8.gateway.GatewayServlet

where:

machine-name

Is the URL of your PeopleSoft web server.

#### port

Is the socket on which the server is listening.

The characters you type after machine-name must be case-sensitive.

4. Click OK.

The Message Node Properties dialog box opens. It contains a Local Node check box and PeopleTools Version, Application Version, Password, Re-verify Password, and Distinguished Name fields.

Elle Edit View Insert Build Debug Iools Go Favorites Window Help     Message Node2     Message Node2     Local Node     Local Node?     Version   PeopleIools Version:   8.17   Application Version:   8.30.000     Access Password   Password   Distinguished Name	X Application Designe	er - Untitled - Message Node2 (Message Node)
Message Node       Message Node       Image         General       Use       Image       Image         Local Node       Image       Image       Image         Version:       Local Node?       Image       Image         Version:       PeopleTools Version:       8.17       Image         Application Version:       8.30.000       Image       Image         Access Password       Image       Image       Image         Re-verify Password       Image       Image       Image	<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>I</u> nsert	<u>B</u> uild <u>D</u> ebug <u>T</u> ools <u>G</u> o F <u>a</u> vorites <u>W</u> indow <u>H</u> elp
General Use         Local Node         Locations:         http://esdsun.ibi.con         Access Password         Password         Re-verify Password		X B C P F Ø
OK Cancel	Message Node2	Message Node Properties         General       Use         Local Node         Local Node?         Version         PeopleTools Version:         8.17         Application Version:         8.30.000         Access Password         Password         Re-verify Password         Distinguished Name

- a. Select the Use tab.
- b. In the text fields, type the PeopleTools and Application Version numbers.
- 5. Click OK.

H

The following image shows the Save As dialog box with a Save Name As field.

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נ	É	6	3 6	1 2	Å	ta P	r	6 6	2		
	ļ	_0C	ations:	:		ssage N	ets/psft.	<b>ave</b> / Save	ateway.Getw As <u>N</u> ame As: ERNAЦ	vayServlet	Cancel

6. To save the Message Node, click OK.

It is recommended that you name your first (trial) message node *EXTERNAL*. After successfully configuring and sending messages using this node, you can create additional message nodes with names appropriate for your application.

If you intend to migrate this message node to a different PeopleSoft environment (for example, from Test to QA), you can create a PeopleSoft Project and insert the Message Node into the Project.

You have finished creating and configuring the message node.

# Procedure: How to Ensure That the Message Is Active and Is Routed Correctly

To ensure that the message is active and is routed to the proper message channel:

- 1. Open Application Designer.
- 2. On the File menu, point to *Open*, click *Message*, and open the *LOCATION\_SYNC* message to view the fields that are included in the message, highlight *LOCATION\_TBL*.

The following image shows the LOCATION\_TBL field, selected in the left pane. The message field names appear in a column with corresponding columns for the field alias and a check box indicating whether to include the field.

pplication Designer - Untitled - [LOCATION_SYNC (Message)] File Edit View Insert Build Debug Tools Go Favorites Window	11-b					
	<u>n</u> ei	,				
SHO SANCE SI I FFF						
dessage Structure		Field Name	Alias	Include		
VERSION_1	1	SETID				
COCATION_TBL	2	LOCATION		<u> </u>		
Message Subscriptions	3	EFFDT		<u> </u>		
<ul> <li>LocationSync</li> </ul>	4	EFF_STATUS		<u> </u>		
<ul> <li>LocationSyncEff</li> </ul>		DESCR		<u> </u>		
, Ebballondynden	6	DESCR_AC		<u> </u>		
	7	DESCRSHORT		<u> </u>		
		BUILDING		<u> </u>		
	9	FLOOR		<u> </u>		
		SECTOR		<u> </u>		
	11	JURISDICTION		<u> </u>		
	12	ATTN_TO		<u> </u>		
		COUNTRY		<u> </u>		
	14	ADDRESS1		<b>V</b>		
	15	ADDRESS2		<b>V</b>		
	16	ADDRESS3		<b>V</b>		
	17	ADDRESS4		<b>V</b>		
		ίατγ		<u> </u>		
	19	NUM1		<b>V</b>		
	20	NUM2		<u> </u>		
	21	HOUSE_TYPE		<b>V</b>		
	22	ADDR_FIELD1		<b>V</b>		
	23	ADDR_FIELD2		<b>V</b>		
	24	ADDR_FIELD3		<b>V</b>		
	25	COUNTY		<b>V</b>		
	26	STATE		<b>V</b>		
	27	POSTAL		<b>V</b>		
	28	GEO_CODE		<b>V</b>		
	29	IN_CITY_LIMIT		<b>V</b>		
	30	COUNTRY_CODE		<b>V</b>		
	31	PHONE		<b>V</b>		
		EXTENSION		<b>V</b>		
		FAX		<b>N</b>		
	34	SETID_SALARY		<u> </u>		
	35	SAL_ADMIN_PLAN		<b>v</b>		
	36	LANG_CD		<u> </u>		
	37	REG_REGION		<b>V</b>		
	38	HOLIDAY_SCHED		<u> </u>		
	39	LOCALITY		<b>V</b>		
		CAN_CMA		<b>V</b>		
		CAN_OEE_AREAC		<u> </u>		
	42	GEOLOC_CODE		<u> </u>		
		OFFICE_TYPE		<u> </u>		
	44	NCR_SW_CAN		<u> </u>		

3. Right-click LOCATION\_TBL and select Properties.

The Message Properties dialog box opens as shown in the following image and includes Non-Repudiation and Status check boxes, Message Channel and Default Version lists, and Use Message Monitor Dialog and Use Page options.

Application Designer - Untitled - [LOCATION_SY	NC (Message)]					_ 8 ×
The Edit View Insert Build Debug Tools Go	F <u>a</u> vorites <u>W</u> indow <u>H</u> e	lp				_ 8 ×
	TEEU					
Message Structure     ⊡-	-	Field Name SETID	Alias	Include V		<u> </u>
CATION_TBL	2	LOCATION		<u>v</u>		
Message Subscriptions	3 4			ম		
LocationSyncEff	5	DESCB				
	Message Properties				×	
	General Use					
	Status Status					
	Message <u>C</u> hannel:	ENTERPRISE_SETUR	1	•		
	Default Version:	VERSION_1		<b>•</b>		
	Message Viewing /					
	<ul> <li>Use Message N</li> <li>Use Page</li> </ul>	Monitor Dialog				
	Page					
	Me <u>r</u> u Name:			7		
	Bar Name:			7		
	Item Name:			7		
	Page Name:			7		
		&Add		-		
		,		_		
			OK	Cancel	1	
		6 LANG_CD				
		7 REG_REGION 8 HOLIDAY_SCHED		ম		
	35	9 LOCALITY		<b>V</b>		
		0 CAN_CMA 1 CAN_OEE_AREAC		ম		
	42	2 GEOLOC_CODE		<b>V</b>		
		3 OFFICE_TYPE 4 NCR_SW_CAN		ম		<b>_</b>
Readu	<u></u>				H8170SUN	

- a. Select the Use tab.
- b. Ensure the Status check box is selected, indicating that the message is active.
- c. From the Message Channel drop-down list, select ENTERPRISE\_SETUP.
- d. From the Default Version drop-down list, select *VERSION\_1* (messages can have multiple versions).
- 4. Click OK.
- 5. Save the message.

# *Procedure:* How to Configure the Message Channel

To configure the Message Channel:

1. Open the ENTERPRISE\_SETUP Message Channel.

2. Right-click ENTERPRISE\_SETUP and select Properties.

The Message Channel properties dialog box opens as shown in the following image. It contains Message Channel Status and Quality of Service options and an Archive Messages? check box.

💐 Application Designer - Untitled - [ENTER	PRISE_SETUP (Message Channel)]
<u> <u> </u> </u>	ols <u>G</u> o F <u>a</u> vorites <u>W</u> indow <u>H</u> elp
Messages Routing Rules	Message Channel Properties
Messages:	General Use
BUS_UNIT_FS_FULLSYNC BUS_UNIT_FS_SYNC COUNTRY_FULLSYNC COUNTRY_SYNC	Message Channel Status © Burn © Pause
CURRENCY_FULLSYNC CURRENCY_SYNC	Quality of service
DEPT_FULLSYNC DEPT_FULLSYNC_EFF DEPT_SYNC	
DEPT_SYNC_EFF E0_ERD_TBL_LOAD	
FUND_LOAD LOCATION_FULLSYNC	
LOCATION_SYNC LOCATION_SYNC_EFF	
PRODUCT_CHARTFIELD_FULLSYNC	
	OK Cancel

- a. Select the Use tab.
- b. Ensure that Message Channel status is set to Run.
- c. Click OK.

You are returned to Application Designer.

- 3. From the left pane, select the *Routing Rules* tab.
- 4. Right-click the pane and select *Insert Message Node*.

The Insert Message Node dialog box opens, as shown in the following image with a list of objects that match the selection criteria.

Insert Message Node			×
O <u>bj</u> ect Type: Message	Node	Y	<u>I</u> nsert
Selection Criteria Name EXTERNA Description Project All Project Objects matching selection of	s <b>v</b>	]	Cancel New Search
Name	Local	Description	
EXTERNAL PSFT_EP PSFT_HR PSFT_PF PSFT_XINBND PSFT_XOUTBND PT_LOCAL	×	PS FDM - Local Node PS HRMS - Local Node PS EPM - Local Node Outbound Node	
7 object(s) found			

- a. Select the message node, for example, EXTERNAL, that you created in *How to Create and Configure a New Message Node* on page 178.
- b. Click Insert.
- 5. Click Cancel.

You are returned to the routing Rules tab where you can select from expanding menus as shown in the following image.

XX Application Des	igner - Untitled - [ENTERPRISE_SETUP	(Message Channel)]
<u>≣</u> Éile <u>E</u> dit ⊻iew	<u>Insert Build Debug Tools Go</u> F <u>a</u> vorite	es <u>W</u> indow <u>H</u> elp
Messages Routin	g Rules	
Direction	Message Node Name	Message Node Desc
Both (Publish and	View <u>D</u> efinition View OnRoute <u>P</u> ublication PeopleCode View On <u>R</u> outeSubscription PeopleCode Insert Message <u>N</u> ode Find Object <u>R</u> eferences	
	Routing Direction	<u>S</u> ubscribe From
		<u>P</u> ublish To ✔ <u>B</u> oth (Pub & Sub)

- a. Right-click the message node and point to *Routing Direction*.
- b. From the Routing Direction menu, select Publish To.
- 6. Save the Message Channel, and if you require it, place it in your Project.

You have finished configuring the Message Channel.

#### *Procedure:* How to Configure the Simple File Handler in the Gateway

To configure the Simple File Handler in the Gateway:

1. In a web browser, launch the PeopleSoft 8.1 configuration servlet interface (also known as the server gateway) by typing the following URL:

machine-name:port/servlets/gateway.administration

where:

#### machine-name

Is the name of the application server where PeopleSoft is hosted.

port

Is the port number on which the application server is listening.

The Handler Directory window opens, as shown in the following image.

🖉 http://esdsun:18000/servlets/gatev	vay.administration - Microsoft Internet Explorer	
<u>File E</u> dit ⊻iew F <u>a</u> vorites <u>T</u> ools	Help	1
Address Address Address Address Address Address Address	ateway, administration	▼ ∂Go
		A
PeopleSoft 8.17	Handler Directory	
Handler	Status	Load Unload Configure Delete
		<u>, , , , , , , , , , , , , , , , , , , </u>
Add handler		
		*
🛃 Done		

2. Click Add handler.

The Add Handler window opens, as shown in the following image.

🗿 http://esdsun:18000/servlets/gateway.administration - Microsoft Internet Explorer	
Eile Edit View Favorites Iools Help	10 A A A A A A A A A A A A A A A A A A A
(→ , → , ②) ② ② △ (△) ③ (□) ③ ③ ③ (□) ③ (□) ③ (□) · ④ · ④ · ④ · □) & Back Forward Stop Refresh Home Search Favorites History Mail Size Print Edit Discuss AlM	
Agdress 🛃 http://esdsun:18000/servlets/gateway.administration	▼ 🔗 Go
Add Handley	_
Add Handler	
Handler class: psft.pt8.filehandler.SimpleFileHandler Save	
Cancel	
	~
e Done	Local intranet

3. Type the following full name of the Simple File Handler class:

psft.pt8.filehandler.SimpleFileHandler

**Note:** The name is case-sensitive.

4. Click Save.

The Handler Directory window reopens, as shown in the following image.

http://esdsun:18000/servlets/gatewa	y.administration -	Microsoft I	nternet E	Explorer								_	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u>	alp												
↔ → → ⊗ Back Forward Stop Refresh	Home Search	Favorites	رچی History	Mail	∰ <b>•</b> Size	Print	E dit	• Discuss	ÂIM				
ddress 🙋 http://esdsun:18000/servlets/gat	eway.administration											• (	∂G
PeopleSoft 8.17	Handle	r Diı	ect	-									
Handler				Sta	tus					Load	Unload Configure		
osft.pt8.filehandler.SimpleFileHandle	r Not loaded									Load		Delete	
Add handler													

5. To load the handler, click Load.

After the handler loads, "Loaded successfully" appears in the Status column.

6. Click Configure.

The Simple File Handler Directory window opens, as shown in the following image.

	s/gateway.administration - Microsoft Internet Explorer	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	<u>I</u> ools <u>H</u> elp	1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 - 1991 -
Back Forward Stop	Image: Constraint of the second se	Edit Discuss AIM
Address 🙋 http://esdsun:18000/s	ervlets/gateway.administration	<b>▼</b> ∂Go
Simple File I	Handler Directory	
Node Name	Output Directory	Include Header? Uncompress? Base64 Decode? Edit Delete
Add a file handler node		
Back to Handler Directory		
Done 🗧		See Local intranet

7. Click Add a file handler node.

The Add File Handler window opens, as shown in the following image.

http://esdsun:18000/servlet:		ation - Microsoft	Internet E	xplorer							
	Tools Help	<u> </u>	~	_	~ A	<u> </u>		0			
Back Forward Stop	🔹 🟠 Refresh Home	Search Favorite:	ان History ا	Rail	Size F	🎒 🕅 Print Edit	• 📃 Discuss	ÂIM			
ddress 🛃 http://esdsun:18000/s	ervlets/gateway.admini	stration									▼ ∂ <sup>0</sup>
Add File Ha	ndler										
									T 1 1.	Derech	
Node Name			Outp	ut Directo	ay					Base64 Decode?	Uncompress?
EXTERNAL	2	/tmp							<b>v</b>		<b>v</b>
Save											
Save Cancel											

- a. In the Node Name field, type the name of the Message Node, for example, EXTERNAL, that you created in *How to Create and Configure a New Message Node* on page 178.
- b. Select an output directory appropriate for your server environment.

The example illustrated in the previous image runs under UNIX. The default directory under Windows NT is c:\\temp\\file. (The double slashes may not be required for your environment.)

- c. Select the desired output file properties.
- 8. Click Save.

You have finished configuring the Simple File Handler.

#### Viewing the PeopleCode for a Message

Messages are initiated by the PeopleCode that is attached to a record. Usually, this record is one of the records associated with the message itself.

## *Procedure:* How to View the PeopleCode for a Message

To view the PeopleCode for a message:

1. Open Application Designer.

The following image shows an open Application Designer which contains a list of field names with their corresponding types and other information.

<u>F</u> ile	<u>E</u> dit <u>V</u> iew <u>I</u> nsert <u>B</u> uild <u>D</u> ebug	<u> </u>	<u>G</u> o F	<u>a</u> vorite	es <u>W</u>	indow	Help	)									
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			2		~) <b>~</b>			3116									
Record Fields Record Type																	
Num	i Field Name	Туре	FDe	FEd	FCh	FFo	RIn	RIs	RDe	RSe	SEd	SPr	SPo	Srl	SrS	Wrk	Р
1	SETID	Char												~			
2	LOCATION	Char											~				
3	EFFDT	Date															
4	EFF_STATUS	Char									~						
5	DESCR	Char										-					
6	DESCR_AC	Char															
7	DESCRSHORT	Char															
8	BUILDING	Char															
	FLOOR	Char															
	SECTOR	Char															
11	JURISDICTION	Char															
	ATTN_TO	Char															
	ADDRESS_SBR	SRec															
	PHONE_SBR	SRec															
15	EXTENSION	Char															
16	FAX	Char															
17	SETID_SALARY	Char															
18	SAL_ADMIN_PLAN	Char															
19	LANG_CD	Char															
	REG_REGION	Char															
21	HOLIDAY_SCHEDULE	Char															
22	LOC_TBLUSA_SBR	SRec															
	LOC_TBLCAN_SBR	SRec															
	WRKS_CNCL_SBR	SRec															
	LOC_TBLGER_SBR	SRec															
26	LOC_TBLUK_SBR	SRec															
27	LOC_TBL_FED_SBR	SRec															
	LOC_TBLESP_SBR	SRec															
29	LABEL_FORMAT_ID2	Char															
	LABEL_FORMAT_ID3	Char															
	USG_LBL_FORMAT_ID	Char															
32	LOC_TBLMEX_SBR	SRec															
33	ESTABID	Char									~						
34	COMMENTS_2000	Long															

- 2. Select the Record Fields tab.
  - a. Select the LOCATION\_TBL record.
  - b. Select the PeopleCode display option.
- 3. Select the Save Post Change (SPo) box for the LOCATION field.

The PeopleCode that initiates a LOCATION\_SYNC message appears, as shown in the following image.

🗙 Application Designer - Untitled - [LOCATION_TBL.LOCATION.SavePostChange (Record PeopleCode)]	_ 8 ×
D Eile Edit View Insert Build Debug Iools Go Favorites Window Help	_ 8 ×
LOCATION (field) SavePostChange	-
<pre>LUCATION [field]SavePostChange Local Newside ANS0; Local Rowset ARS0, ARS01, ARS11; Local Rowset ARS0, ARS01, ARS11; Local Rowset ARS0, ARS01, ARS01, ARS01; Local Rowset ARS0, ARS01, ARS01, Component Inter PanelGroup boolean sActionCodeRowAdd; If ActiveEowCount() = CurrentEowNumber() Then</pre>	×
End-If;	
<pre>«MSG.Publish();</pre>	
End-If; End-If;	-
Ready H8170SUN	

For more information about PeopleCode, consult your PeopleSoft Online Library.

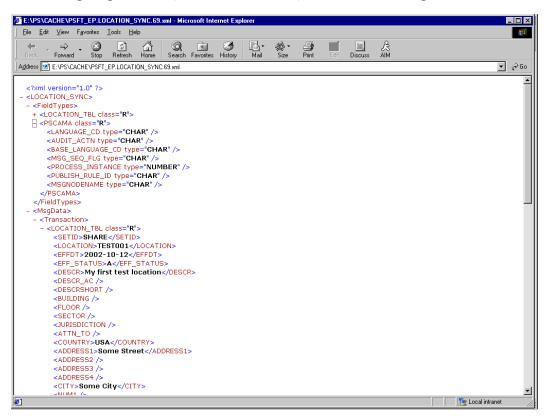
You have viewed the PeopleCode for a message. You can now test Integration Broker (in PeopleSoft 8.4) or Application Messaging (in PeopleSoft 8.1).

# **Testing the Integration Broker**

To test the Integration Broker by generating a message, you can navigate to the Location Transaction window and add, update, or delete a location entry in your application. Depending on your application, the way you navigate varies. The following image shows a Financials 8.4 application with the Location Definition tab selected. A new location with a SetID of SHARE and a Location Code of TEST001 was added.

🖉 Location - Microsoft Interne	et Explorer	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	Iools Help	<b>*</b>
Back Forward Stop	😰 📸 🧐 🛋 🥨 🛃 🏹 🎒 🖬 🎘 🎉	
Address 🙋 http://isdsrv14.ibi.com	mr/psp/ps/EMPLOYEE/ERP/o/DEFINE_GENERAL_OPTIONS.LOCATION_TBL.GBL 🗾 💰	⇒Go
Menu ()	Search: Search: Mome () Worklist Add to Favorites Sign of NewWindow   Help	out
Country     Country Statistics     Division Area Code     Fax Location     Location	Location Definition Location Detail     SetD: SHARE Location Code: TEST001	Ð
Reation Codes     Reation Type Codes     Reation Type Codes     State     Market Rates     Notes     Position Accounting     Process Partition ID     Sales and Use Tax     Shipping and Receiving     Team Members     Units of Measure	Location Definition     First I 1 of 1     Elst       'Eff Date:     10/12/2002     Active     'Descr:     My first test location     + -       Country:     USA     United States     Prefix:	
User Preferences     VAT and Intrastat     Workflow     Xml Schema     Product Related     Utilities     Define Integration Rules     FDM     Government Resource     Directory     Background Processes     Worklist     Tree Manager	City: Some City In City Limit County: Postal: State: NY Q Jurisdiction: Building #: Floor #: Sector: County: Sector: Sector: County: Sector: Sector: County: Sector: Sector: County: Sector: S	
Reporting Tools     PeopleTools <u>Change My Password</u> <u>My Personalizations</u> WOrsteen Profile	▼ Internet	

The following image shows a portion of the XML output from a test message.



**Note:** The name of the file is PSFT\_EP.LOCATION\_SYNC.69.xml, which is the concatenation of PSFT\_EP (the local Publishing Node), the name of the message, and the number of the Publication ID.

If you cannot send a message successfully, PeopleSoft provides a set of tools for monitoring the progress of your messages. In Release 8.1, you use a tool called the Application Messaging Monitor. In Release 8.4, you use the Monitor menu in the Integration Broker.

For a complete description on how to isolate and resolve problems with your messaging environment, consult you PeopleSoft Online Library. If you still cannot send your XML file, the PeopleSoft Customer Connection can help solve your problem.

# Using Outbound Synchronous Messages

Starting with PeopleTools 8.4, you can send outbound synchronous messages. From a highlevel point of view, the primary difference between outbound synchronous and asynchronous is that with outbound asynchronous, the transaction is completed whether or not the message is actually sent or received.

For synchronous outbound messages:

- □ The transaction must wait for a response from the external system before continuing.
- □ The transaction must process the response message.
- □ The external system must ensure that the response message is correctly formatted.

You can use an existing node, or you can create a new node to configure outbound synchronous messages. For information on creating and configuring a node, see *How to Create and Configure a New Gateway Node* on page 177. In either case, you must configure your outbound synchronous transaction.

The iWay Application Adapter for PeopleSoft can work with PeopleSoft outbound synchronous messages. Outbound synchronous messages involve additional configuration steps, both within PeopleSoft and in your application server.

**Note:** The instructions in this topic build upon the instructions for outbound asynchronous messages. It is strongly recommended that you familiarize yourself with outbound asynchronous messaging before attempting outbound synchronous. For more information on outbound asynchronous messages, see *Configuring Integration Broker in PeopleSoft Release* 8.4 (PeopleTools Releases 8.40 - 8.47) on page 172.

Ensure that both outbound and inbound messages are created and active. PeopleSoft provides template examples called IB\_INST\_VER\_SYNC\_MSG and IB\_INST\_VER\_RESP\_MSG. For information on examining these messages, see *How to Ensure the Message Is Active and Is Routed Correctly* on page 172.

#### Example: Configuring an Outbound Synchronous Message

The following example uses a node and transaction delivered by PeopleSoft. However, this example is for illustrative purposes only and does not work as delivered without additional steps. As of Financials Release 8.42, there are no pre-configured outbound synchronous transactions that you can use for testing purposes.

1. Navigate to the *Node Definitions* page and open the *PT\_LOCAL* node.

2. Click the Transactions tab.

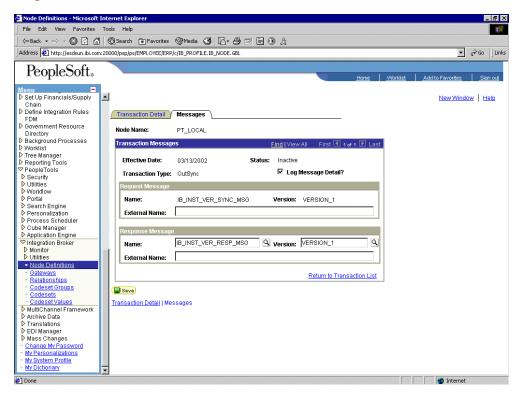
The Transactions pane opens where you can edit transaction types and request messages as shown in the following image.

Node Definitions - Microsoft In	ternet Explore	.r					- 10
File Edit View Favorites T							
		- ·	S B-9 5 5 %				
Address 🩋 http://esdsun.ibi.com:2	0000/psp/ps/EMF	PLOYEE/ERP/c/IB_PROFI	.E.IB_NODE.GBL			-	<i>ୖ</i> ତ୍ର
$\mathbf{D} = 1 \mathbf{C} \mathbf{C}$							
PeopleSoft.	*****			Home	Worklist Add	to Favorites	Sian a
•					VTOTAIST AUG	to r avontes	
enu – • Set Up Financials/Supply –	al.						
Chain	2					New Win	dow Help
Define Integration Rules	Node	Info Contact / Not	es Y Properties Y Connectors	Transactions Portal Content			
FDM	I INOUE	into   Contact/Not	es / Propenies / Connectors		-		
Government Resource	Node Name	PT LO	CAL				
Directory Background Processes	Transactio	-				n	
Worklist			B	Customize   Find   View.		1-9 of 10	
Tree Manager	Edit	Transaction Type	Request Message	Request Message Version	Effective Date		Delete
Reporting Tools	1 Edit	InAsync	IB_INST_VER_ASYNC_MSG	VERSION_1	03/13/2002	Active	-
PeopleTools • Security	2 Edit	InAsync	IB_INST_VER_RESP_MSG	VERSION 1	03/13/2002	Inactive	-
Utilities		· · · · · · · · · · · · · · · · · · ·		-			_
Workflow	3 Edit	InSync	IB_INST_VER_SYNC_MSG	VERSION_1	03/13/2002	Active	-
Portal	4 Edit	OutAsync	IB_INST_VER_ASYNC_MSG	VERSION_1	03/13/2002	Inactive	-
• Search Engine • Personalization	5 Edit	OutAsync	IB_INST_VER_RESP_MSG	VERSION 1	03/13/2002	Active	-
Process Scheduler	5 <u>con</u>	oupsync	ID_INST_VER_RESF_MOD	VERSION_1	03/13/2002	Active	_
Cube Manager	6 Edit	OutSync	IB_INST_VER_SYNC_MSG	VERSION_1	03/13/2002	Inactive	-
Application Engine	7 Edit	InAsync	EMAIL MSG	VERSION 1	01/01/1900	Active	-
Integration Broker		,	-	-			
> Monitor > Utilities	8 <u>Edit</u>	InAsync	ROLESYNCH_MSG	VERSION_1	01/01/1900	Active	-
- Node Definitions	9 Edit	OutAsync	EMAIL_MSG	VERSION_1	01/01/1900	Active	-
Gateways							
- Relationships	And Trees						
- <u>Codeset Groups</u> - Codesets	Add Trans:	action Copy All Tra	nsactions				
- Codesets - Codeset Values							
MultiChannel Framework	🛛 🗐 Save) 🛛	Q Return to Search					
Archive Data	Node Info I C	Contact / Notes   Prope	rties   Connectors   Transactions	Portal Content			
Translations							
EDI Manager Mass Changes							
Change My Password							
My Personalizations							
My System Profile							
My Dictionary	-						
_	_					Interne	

One outbound synchronous message, IB\_INST\_VER\_SYNC\_MSG, appears in the Transaction Type list.

3. In the IB\_INST\_VER\_SYNC\_MSG row, click the *Edit* hyperlink.

The Transaction Detail and Messages tabs become available, as shown in the following image.



4. Click the Messages tab.

Request and response messages appear. The target system must ensure that the response message follows the format of the request message. As the target system is your application server, you must transform the XML that is sent and returned from your final destination.

**Note:** You must use the PeopleSoft-supplied HTTP target connector when you are working with synchronous outbound messages. You cannot use the TCPIP84TARGET connector for outbound synchronous messages.

#### *Example:* Viewing the PeopleCode for a Financials Synchronous Outbound Message

The sample PeopleCode in the following example is for a synchronous outbound message. It differs from asynchronous outbound in that it must handle a response message.

The following sample code is supplied with the Financials application and is associated with the two messages IB\_INST\_VER\_SYNC\_MSG and IB\_INST\_VER\_RESP\_MSG.

To view the PeopleCode:

- 1. From iWay Explorer, open the *PSINST\_VER* record.
- 2. Select the *PeopleCode* display option.
- 3. Select the Field Change (FCh) box for the IB\_SEND\_SOS\_BTN field.

The following code appears as shown in the following image.

Application Designer - Untitled - [PSINST_VER.IB_9		_ 6
File Edit View Insert Build Debug Tools Go ،		
IB_SEND_SOS_BTN (field)	▼ FieldChange	
<pre>/* SyncRequest example */ Local Message crequest MSG, cresponse MSG, Local Rowset crequest FS, cresponse_RS, cl Local Record cresponse_REC, cIB_INST_VER_I Local SQL delete_SQL; Local any cI;</pre>	IB_INST_VER_TRX_RS;	
<pre>arequest_RS = GetLevel0(); arequest_MSG = CreateMessage(Message.IB_IM arequest_MSG.CopyRowset(arequest_RS);</pre>	NST_VER_SYNC_MSG);	
<pre>/* Create the database record object for t &amp;IB_INST_VER_DB_REC = CreateRecord(Record.</pre>		
<pre>/* publish the request and wait for the re aresponse_MSG = arequest_MSG.SyncRequest()</pre>		
<pre>If (&amp;response_MSG.ResponseStatus = 0) Ther</pre>	1	
/* Get the response rowset object from &response_RS = &response_MSG.GetRowset		
<pre>/* Loop through the message rows moving For eI = 1 To (aresponse_RS.RowCount) aresponse_REC.aresponse_RS.ForRow aresponse_REC.copyFieldsTo(clB_INST a(B_INST_VER_DB_REC.Insert(); End=For; End=For;</pre>	- (4I).GetRecord(Record.PSINST_VER_TRX);	
<pre>/* Manual refresh of scrollable area */     «IB_INST_VER_TRX_RS = GetLevel0()(1).GetR     «IB_INST_VER_TRX_RS.Flush();     «IB_INST_VER_TRX_RS.Select(Record.PSINST_V     ""))))))))))))))))))))))))))))))))</pre>		
eady		F842OSLIN NIM



# PeopleTools Upgrade Considerations

This section provides upgrade considerations for PeopleTools.

#### In this appendix:

Upgrading PeopleTools

# **Upgrading PeopleTools**

Ensure that the steps in this section are followed when upgrading PeopleTools.

### Procedure: How to Upgrade PeopleTools

- 1. If you are upgrading from PeopleTools version 8.1 to version 8.4, then you must first refer to *Specifying the Version of PeopleSoft* on page 29 before proceeding.
- 2. Ensure that the Component Interfaces delivered through iWay are available in the new version of PeopleTools.

If you are migrating from an older version of PeopleTools to a newer PeopleTools version, then PeopleSoft should automatically migrate them. Otherwise, you will have to reinstall the Component Interfaces that are delivered through iWay. For more information, see *Installing the Application Adapter for PeopleSoft Component Interfaces* on page 30.

- 3. Perform one of the following steps If you have installed the TCP/IP handler that is delivered through iWay in the current production version of PeopleTools:
  - a. If the current PeopleTools version is 8.1 and if you are migrating to version 8.4, then iWay recommend that you use the HTTP connector that is delivered through PeopleSoft. For more information, see *Using PeopleSoft 8 Integration Broker* on page 157.
  - b. If your current PeopleTools version is 8.4 and if you are using the TCP/IP handler, then iWay recommends that you use the HTTP connector that is delivered through PeopleSoft. For more information, see *Using PeopleSoft 8 Integration Broker* on page 157.
- 4. If you are using the PeopleSoft Integration Broker to publish messages to iWay Application Adapter for PeopleSoft, then refer to the PeopleTools release notes and user documentation for changes in the functionality of PeopleSoft Integration Broker.

- 5. Perform the following steps in the \lib subfolder where iWay Service Manager (iSM) is installed:
  - a. Stop iSM.
  - b. Create a backup of the current psjoa.jar and Component Interface API .jar files and then delete these files.
  - c. Copy the new psjoa.jar and Component Interface API .jar files.

For more information, see Generating Component Interface APIs on page 47.

- d. Start iSM.
- 6. Using iWay Explorer, change the connection parameters for any existing iWay Application Adapter for PeopleSoft targets and channels.

**Note:** Existing adapter targets and channels will contain the old PeopleSoft server (old PeopleTools) information and must be changed to reflect the new version of PeopleSoft server (new PeopleTools).

7. If you are planning to create a new adapter target and channel, then your existing process flows and other processes must be changed to use the new adapter targets and channels.

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# iWay

iWay Application Adapter for PeopleSoft User's Guide

Version 7.0.x and Higher

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