BEA eLink Adapter for PeopleSoft User Guide

BEA eLink Adapter for PeopleSoft Version 1.1 Document Edition 1.1 October 1999

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BEA eLink Adapter for PeopleSoft User Guide

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Preface

This document provides instructions for installing and configuring BEA eLink Adapter for PeopleSoft. It is intended for system managers with the responsibility of installing products in the UNIX or Windows NT environment and configuration of layered products. While this guide attempts to provide step-by-step details of the configuration of eLink Adapter for PeopleSoft, it is intended for the experienced eLink Adapter for PeopleSoft consultant.

Topics

Preinstallation Requirements

Creating a BEA_CPS Message Definition

Installing eLink Adapter for PeopleSoft

Configuring PeopleSoft Application Server Domain

Configuring FML32

Running eLink Adapter for PeopleSoft

Exposing PeopleSoft Panels to TUXEDO Applications

Prerequisite Skills

Users of this guide are expected to have the following skill set in order to understand the context of the information:

- PeopleTools use, including the creation and definition of records, panels, panel groups, menus, menu items, business processes, activities, and message definitions.
- TUXEDO FML buffer definition.
- System management knowledge of BEA TUXEDO.
- ♦ A general understanding of the Windows NT operating system and DOS shell commands.
- ♦ A general understanding of the UNIX operating system and UNIX commands.
- A familiarity with BEA TUXEDO and PeopleSoft programming.

Prerequisite Software

Before starting the eLink adapter for PeopleSoft installation be sure that the following software is properly installed:

- PeopleSoft 7.5 or greater (three-tier mode.)
- PeopleTools 7.56 or later
- ♦ TUXEDO 6.4 or greater.

Documentation

This document, the *BEA eLink Adapter for PeopleSoft User Guide*, is designed primarily as an online document. If you are reading this as a paper publication, note that to get full use from this document you should install and access it as an online HTML document.

TUXEDO Documentation

The following BEA publications may be helpful:

TUXEDO System 6 Reference Manual

TUXEDO System 6 Programmer's Guide, Volumes 1 and 2

Other Publications

For more information about TUXEDO technology, refer to the following books:

The TUXEDO System (Andrade, Carges, Dywer, Felts)

TUXEDO: An Open Approach to OLTP (Primatesta)

Building Client/Server Applications Using TUXEDO (Hall)

For more information about PeopleSoft technology, refer to the following books:

PeopleSoft 7.5 People Books

Contact Information

The following sections provide information about how to obtain support for the documentation and software.

Documentation Support

If you have questions or comments on the documentation, you can contact the BEA Information Engineering Group by e-mail at **docsupport@beasys.com**.

Customer Support

If you have any questions about this version of BEA eLink Adapter for PeopleSoft, or if you have problems installing and running BEA eLink Adapter for PeopleSoft, contact BEA Customer Support through BEA WebSupport at www.beasys.com. You can also contact Customer Support by using the contact information provided on the Customer Support Card, which is included in the product package.

When contacting Customer Support, be prepared to provide the following information:

- Your name, e-mail address, phone number, and fax number
- Your company name and company address
- Your machine type and authorization codes
- The name and version of the product you are using
- A description of the problem and the content of pertinent error messages

1 Preinstallation Requirements

This section provides information about preparing to install the eLink Adapter for PeopleSoft component.

Deciding the Environment for eLink Adapter for PeopleSoft

The eLink Adapter for PeopleSoft software must be installed in its own TUXEDO domain. This allows configuration and management to occur without disruption to the PeopleSoft services. This domain must be separately licensed, as the TUXEDO license provided with PeopleSoft only covers the PeopleSoft applications.

Depending on system load and use, eLink Adapter for PeopleSoft may be installed either on the same computer that runs PeopleSoft or a separate computer. This choice is left to the system manager.

If the computer where the eLink Adapter for PeopleSoft software resides is not the same computer as the one being used to run PeopleSoft, then you must install and configure the PeopleTools 7.56 client software on the eLink Adapter for PeopleSoft machine.

Testing the PeopleSoft Application

Before installation of the eLink Adapter for PeopleSoft can begin, PeopleSoft must be started. verify PeopleSoft is up by connecting in 2-tier mode. To do this, start the pstools.exe in the %PS_HOME%\bin\client\winx86\ directory path. Enter the database name PTDMO and a valid login ID and password, such as PTDMO/PTDMO.

Defining PeopleSoft Message Definition

After verifying the PeopleSoft application is connecting in 2-tier mode, you must set up Message Definitions for updating and retrieving data from the PeopleSoft database. These definitions must be in place prior to installing the eLink Adapter for PeopleSoft component. For information on how to configure these Message Definitions in PeopleSoft, refer to "Creating a BEA_CPS Message Definition."

2 Creating a BEA_CPS Message Definition

When the eLink Adapter for PeopleSoft software starts up, it must determine which PeopleSoft Message Definitions are available via ATMI services. To do this, the eLink Adapter component requires a definition, BEA_CPS, which queries all the available definitions. You create this definition within the PeopleSoft configuration using the PeopleTools Application Designer. This section explains how to create the BEA_CPS Message Definition within PeopleSoft.

Start the PeopleTools Application Designer

These are the steps used to create the BEA_CPS message Definition in PeopleTools:

Creating a BEA_CPS Message Definition
Create a New Record Definition
Add Fields To The Record Definition
Define Record Properties
Define the Field Properties
Create a Panel to Acces the BEA_CPS Message Definition (Optional)

Create The New Business Process

Creating a BEA_CPS Message Definition

Define the Activity

Create a New Activity

Create New Message Agent Message Definition

Define the Message Definition

Create a New Record Definition

Select **File -> New**. This brings up a dialog that allows the selection of a new PeopleSoft object. Highlight Record from the available choices (Figure 2-1) and click **OK**.



Figure 2-1 Add a new record definition in PeopleTools.

Add Fields To The Record Definition

The record will contain two fields: ACTIVITYNAME, and INPUTNAME.

- 1. Begin by adding the ACTIVITYNAME field:
 - a. Select **Insert -> Field** from the menu. The **Insert Field** dialog box displays (Figure 2-2).
 - b. Type ACTIVITYNAME in the Name field and click the Insert button.

Figure 2-2 Add the ACTIVITYNAME field to the record.

Insert Field						×
O <u>bj</u> ect Type:	Field		~			Insert
- Selection Crite	ria					Close
<u>N</u> ame:	ACTIVITYNAME					
Long Name:			<u>P</u> roject:	All Projects	▼	Ne <u>w</u> Search
<u>T</u> ype:	All Fields	-				
Objects matchin	g <u>s</u> election criteria:					
Name		Туре	Lo	ng Name:		

2. Add the INPUTNAME field:

Change the **Name** field from ACTIVITYNAME to INPUTNAME and click **Insert**. Figure 2-3 shows how the Record Definition displays with both fields.

Untilled	the Record Placent	1			
	Field Nome Act PATI VINANE TRACT ACT	Day 30	Formal II Mared Ucross	Activity Activity Insul Name	
Dentlopment FB lypole		10 10]	
EBanakapasant PB Unyente	-				

Figure 2-3 View of record after inserting the required records.

Define Record Properties

After you have defined the record, you must define its properties. Select **File -> Object Properties** from the menu to bring up the **Record Properties** dialog.

General Properties

On the **General** tab add the general information about the record. In Figure 2-4, the **Description** and **Comment** fields are filled in as follows:

Description: BEA CPS Record

Comment: This record is used by eLink Adapter for PeopleSoft to determine the Message Agent Activities and Message Definitions.



Record Properties	×
General Uze Type	
61	
Description: BEA CPS Record	
Converts:	
This record is used by eLink Adapter for PeopleSoft to determine the Message Agent Activities and Message Definitions.	
- Last Updated	
Date/Time:	
By Openator	
OK. Cancel	

Set the Type of Record

- 1. Select the **Type** tab.
- 2. Select the Dynamic View radio button in the Record Type section.
- 3. Type the following in the **SQL View Select Statement** text box:

```
select A.ACTIVITYNAME, A.INPUTNAME from PSMSGAGTDEFN A,
PSBUSPROCXREF B where B.COMPONENTNAME = A.ACTIVITYNAME
```

- 4. Verify the information (Figure 2-5.)
- 5. Press the **OK** button.



Figure 2-5 Set the type of record.

Define the Field Properties

- 1. Double-click on the **ACTIVITYNAME** field in the **Record** window to bring up the Record Field Properties dialog.
- 2. Under the **Use** tab check (click) the **Key**, **Search Key**, and List Box Item check boxes. Ensure that no other check boxes are selected (Figure 2-6).
- 3. Select OK.

Record Field Properties	×
Use Edis Field Name: ACTIVITYNAME Keys Duplicate Even Key Attende Search Key Escanding Key	Default Value Constant Of Becond Name: Peld Name:
	0K Cancel

Figure 2-6 Define the properties of the ACTIVITYNAME field.

4. The INPUTNAME field properties must also be set. Double-click on the **INPUTNAME** field in the Record window to bring up the Record Field Properties dialog for the **INPUTNAME** field. Select the Key and List Box Item checkboxes. Ensure that no other checkboxes are selected. Select **OK**.

Save the Record Definition

- 1. Select **File -> Save As** from the menu.
- 2. In the Save As dialog type BEA_CPS in the Save Name As field (Figure 2-7).
- 3. Select OK.



Figure 2-7 The last step in creating the record definition

Insert the record into the project by selecting **Insert -> Current Object** into Project from the menu (or by pressing <F7>). The Record window may now be closed: select **File->Close** from the menu.

Create a Panel to Acces the BEA_CPS Message Definition (Optional)

The tasks in this section are optional and define the PeopleSoft Panel and Menu items that allow the eLink Adapter for PeopleSoft Message Definition to be graphically executed from within PeopleTools.

Note: The eLink Adapter for PeopleSoft component will function without these items being created.

When using PeopleTools, a panel must be defined to allow access to the **ACTIVITYNAME** and **INPUTNAME** fields defined in the BEA_CPS record. Select **File->New** and highlight Panel in the New dialog to create a new panel. Select **OK** (Figure 2-8).



New	2
New Record Field	OK Cancel
Rand Nanu	

Adding fields consists of adding two edit boxes and defining the properties of each.

- 1. Begin by inserting an Edit box.
- 2. Select **Insert -> Edit Box** from the menu.

- 3. The cursor will change from a pointer to a crosshair.
- 4. Move the crosshair over the panel window (near the center of the upper half of the window) and click on the window.
- 5. This will place a new entry field in the panel (Figure 2-9).
- 6. The crosshair will revert back to a pointer.

Figure 2-9	Add the first	text entry f	field to the panel.
------------	---------------	--------------	---------------------

Application Designer - Untitled - Panell (See El Caralita Ser El Caralita Se El Caralita Ser El Caralita
🕅 United 18 🧿 Records	E Pavel (Pavel)
	Damay Name
Development (#Urgente	
Opening project 1 total statest(c) in project. 1 Percent abject(c) inserted.	1
三日人 Sale 人 feel Open Roberson: 入 feel P	Propinition (, Lagrance), Revents (, Lagrance)
Testy	DP MM

- 7. Double-click on the entry field in the panel window (the white box).
- 8. This will bring up the Panel Field Properties dialog.
- 9. Under the **Record** tab, specify BEA_CPS as the Record Name (you may either type it in or select it from the drop-down list).
- 10. For the **Field Name** specify ACTIVITYNAME (again, you may either type it in or select it from the drop-down list) (Figure 2-10).
- 11. Under the **Use** tab check **Display Only** in the **Field Use Options** section (Figure 2-11).
- 12. Select OK.

Becord Name BEA_D	8 .
Beld Name: ACTM	
Vie: Use	Delauk Syle 🖳 💽
Sign	Aignment
(F: Average	IF Auto
C Nasiman	C Let
C Custon	C Right
Display Options	
C Display Zerg	T Display Carguy
E Passeroid	C Quiency Symbol
F Show Prompt Button	T 1000 Separator
T Auto Fil	T Auto Decimal
# Dvaraciler:	

Figure 2-10 Set the panel field properties for the ACTIVITYNAME field.

Record Label Un	•	
Field Use Options	EulerCurrency Field Display Control Field Eulered Display Field	
Related Control Field		
Popug Menu		
Field Help Context N	unber An Anoge	

Figure 2-11 Set the panel field properties for ACTIVITYNAME to display only.

Following the same method used for the ACTIVITYNAME, add a second entry field for INPUTNAME. Place this entry field in the center of the bottom half of the panel window. Select **Insert -> Edit Box** from the menu (pointer changes to crosshair), position the crosshair in the center of the lower half of the panel window and click on the panel window, double click on the new entry field to bring up the Panel Field Properties dialog. For the Record Name specify BEA_CPS. For the Field Name specify INPUTNAME (Figure 2-12). Under the **Use** tab check **Display Only** in the **Field Use Options** section (Figure 2-13). Select **OK**.

Becard Name	BEALD	8
Eield Name:	INPUT	
tyle:	-Use	Delauk Style 🔲 💌
Sign		Aignment
(F: Average		IF Auto
C Mainin		C Let
C Custom		C Rek
Display Dotions		
C Display Zarp		T Display Campuny
Passeved		C Quirence Symbol
F Show Plane	RELITION	T 1000 Separator
F Auto Fil		T Auto Decimal
Denie F	-	

Figure 2-12 Define the panel field properties for the INPUTNAME field.

Figure 2-13	Set the panel field properties for INPUTNAME to	display only.
-------------	---	---------------

and Field Properties		×
Record Label Use FieldUse Options P Display Only Invisible	Mult-Currency Field Display Control Field Balated Display Field	
Refered Control Field		
Papup Menu	2	
Field Help Contegt Nue	oket o Aroign	
	OK I	Cancel

Save the panel definition by selecting **File** -> **Save As** from the menu and typing BEA_PANEL as the Save Name as (Figure 2-14). Select **OK**. The panel has been created. Add the Panel to the Project, <F7>. Select **File** -> **Close** from the menu to close the panel definition window.

Figure 2-14 Save the newly created panel as BEA_PANEL.

Save Az	×
Save Name Ac: BEA_RANEL	OK Cancel
English	

Define a New Panel Group

A panel group must be defined to contain the panel that was just defined. From the menu select **File -> New**, and choose **Panel Group** in the **New** dialog (Figure 2-15). Select **OK**.

Figure 2-15 Create a new panel group.

New	×
New	OK
Panel Menu	- Cancel
Panel Group Burgers Process	-
To can receive the cane	_

From the menu select **Insert -> Panel into Group** to bring up the Insert Panel dialog. Specify BEA_PANEL in the **Name** field and press the **Insert** button (Figure 2-16). Select **Close** to close the Insert Panel dialog (Figure 2-17).

Figure 2-16 Insert the BEA_PANEL into the panel group.

Incert Panel						×
Object Type:	Parol		Ŧ			Incert
- Selection Cite	ńa –					Close
Name:	BEA_PANEL					
Description			Project	All Projects	٣	Ney Search
Туре:		v	Language:	English	٣	
Objects matching	g gelection oriteria	:				
Nane		Туре	Description			Language
•						>

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feedy		1	DAP MUM SOFL	

Figure 2-17 The panel group with BEA_PANEL inserted.

A search record must be added to the panel group. This is the method by which eLink for PeopleSoft determines the names of available Message Agent Activities and Message Definitions:

- 1. From the menu select **File -> Object Properties** to bring up the Panel Group Properties dialog.
- 2. In the dialog select the Use tab.
- 3. Under Actions select the Add, Update/Display, Update/Display All checkboxes.
- 4. Ensure that the **Correction** and **Data Entry** checkboxes are not selected.
- 5. In the **Search Record** field specify BEA_CPS (by either typing it in or selecting it from the drop-down list) (Figure 2-18).
- 6. Select **OK** to return to the Panel Group Definition window.

Access Seach record: BEA_CPS Add seach record: Detailgenet	Actions P & dd Update/Display Update/Display/Aff Conection Data Entry
STier Execution Location	Panel Group Sage
Parel Group Build	C Dient
C Clevi	C Application server
Application server	C Application server (with edits)
IF Default (application server)	C Default (application server)

Figure 2-18 Define the properties of the panel group.

Save the panel group by selecting **File -> Save As** from the menu. Type BEA_PNLGROUP as the **Save Name As** (Figure 2-19). Select **OK** to save and return to the Panel Group definition window. Add the panel group to the project by pressing <F7>. Close the Panel Group Definition window by selecting **File -> Close** from the menu.



Save Ax	×
Save Name Acc	
BEA_PNLGROUP	
Maakaat:	Cancel
G8L 💌	

The panel group must now be associated with a menu.

To create the menu select **File** -> **New** from the menu and select Menu from the New dialog. Select **OK**.

Choose Standard as the Menu type and select OK (Figure 2-20).

This will display a menu window with the new menu in it. In the menu, between Favorites and Language, is an empty space outlined with a dashed rectangle (Figure 2-21). Double click within this rectangle to bring up the **Bar Item Properties** dialog.

Type BEA in the **Name** field and eLink for PeopleSoft in the **Label** field (Figure 2-22).

Select OK.

Figure 2-20	Create a new	v standard menu.
-------------	--------------	------------------

New Menu	×
Menu Type C. Kinesterd	OK.
C Extended	Cancel

Figure 2-21 The newly created menu.



Bar Item Properties
Bar Item
Bar Item
Bar BEA

0K

Figure 2-22 Add a new bar item, CPS, to the menu.

Cancel

The menu now needs a menu item. Double click in the new dashed rectangle that is below the heading "CPS" to bring up the Menu Item Properties dialog. Enter CPS1 in the Name field and Definitions in the Label field (Figure 2-23).

	Figure 2-23	Add a menu item	, "Definitions," to) the bar item "CPS."
--	-------------	-----------------	---------------------	-----------------------

Name:	OPS1	
Label	Definitional	
Туре		
	jroup	
C Beoplei	Code	
C Sapara	tor	
Panel Group	p	
Nave		
Maiket		Select.
Search Rev	0	
C Overide	-	

The panel group created previously is added to the menu by pressing the **Select** button on the Menu Item Properties dialog. Press the **Select** button to bring up the **Open Object** dialog. Specify BEA_PNLGROUP as the **Name** (Figure 2-24). Press the **Select** button in the **Open Object** dialog to return to the **Menu Item Properties** dialog. Select **OK** in the **Menu Item Properties** dialog.

Open Object				×
Object Type:	Parel Broup		×	Select
- Selection Cite	éa			Cancel
Nane:	BEA_PNLGRO	6		
Description				Ney Search
Maket:	GBL.	۲		
Objects matching	g gelection criteria	c		
Nane		Malket	Description	
BEA_PHILGRO	UP	GBL		
BEA_PNLGROU	12;			

Figure 2-24 Add BEA_PNLGROUP to eLink for PeopleSoft.

Save the Menu by selecting **File -> Save As** from the menu. Specify BEA_MENU as the **Save Name** as (Figure 2-25). Select **OK**. Add the panel group to the project by pressing <F7>. Close the **Menu Definition** window by selecting **File -> Close** from the menu.

Figure 2-25 Save the newly created menu as BEA_MENU.

Save Az	×
Save Maree Ac:	OK
BEA_MENU	Cancel

Create The New Business Process

A business process must be created to contain the Activity and Message Definition that eLink for PeopleSoft uses.

Create a new business process by selecting **File** -> **New** from the menu and selecting **Business Process** from the **New** dialog (Figure 2-26). Select **OK**. This will bring up the **Business Process** window and a small, detached activity window.



Figure 2-26 Create a business process with the Activity and Message Definition.

Create a New Activity

Click on the button with three footprints. Move the pointer over the **Business Process** window (pointer will change to a box) and press the mouse button. The **Activity Choices** dialog will be displayed. Select **Create New Activity** (Figure 2-27). Select **OK**. This will place an icon of the three footprints in the **Business Process** window (Figure 2-28).



Activity Choices	ĸ
Create New Activity	
C Beuse Existing Activity	
C Dopy Existing Activity	
C Dreate From <u>H</u> TML Access Template	
<u>QK</u> Cancel	



Figure 2-28 The business process with the newly created activity.

Define the Activity

Right click on the three footprint icon in the **Business Process** window. This will display the **Activity Definition** dialog. In the **Name** field type BEA_CPSActivity and then press <Tab>.

Note: The **Icon Description** will be filled in automatically with the data from the **Name** field when focus is shifted from the **Name** field.

In the description field type "This activity is used by BEA eLink for PeopleSoft during initialization." (Figure 2-29). Select **OK**. Be sure to use the same capitalization as documented.

Activity Defini	tion 🛛
Mare:	BEA_CPSAdivity
loan Desar:	BEA_CPSAdivity
Ωεοσιφάστ	This activity is used by BEA eLink for PeopleSolt during
Help Contest Number:	0 CC Auto Amign
	QK Carcel

Figure 2-29 Define the activity as BEA_CPSActivity.

Figure 2-30 The business process now contains the BEA_CPSActivity definition.

Application Designer - Untitled - Dasi	eus Paceul (Estimus Poceu)	RDG
Cold Year Inner Suit (only to Cold Big (C)	Parater Albain (pp. 2)	
	JEA Distance	1 1
Brank Identical Interface The Interface Interface The Interface Interface Parel detect(s) interface Parel detect(s) interface Parel detect(s) interface Parel Interface Parel Interface		
±]≥∬ Balli λ feel Diject Ratemoon: λ f	ni il Popiello (Lipyste), Bredin / Edilate /	NUM STR.

Create New Message Agent Message Definition

Double click on the BEA_CPSActivity icon in the **Business Process** window (Figure 2-30). The **Business Process** window will be blank and the small floating window will now contain several more, different icons (Figure 2-31). Click on the icon that appears to be a door and move the pointer into the **Business Process** window (the pointer will change to a small box) and click in the **Business Process** window. This will place the door icon in the window (Figure 2-32).



Figure 2-31 Add a Message Agent Message Definition.



Figure 2-32 The Message Agent Message Definition is added, but not yet defined.

Define the Message Definition

Right click on the door icon in the **Business Process** window to bring up the **Message Agent Definition** dialog. Specify BEA_CPSNames in the **Name** field and press <Tab> (the **Icon Description** field will be filled in automatically after focus changes from the **Name** field). For the **Description** field type: "This definition is used by BEA eLink for PeopleSoft during initialization." Be sure to use the specified capitalization.


Figure 2-33 Name the new Message Agent Message Definition BEA_CPSNames.

Select the **Attributes** button to bring up the **Message Attributes** dialog. Specify the following for each of the fields (either by typing in the values or selecting them from the drop-down lists) (Figure 2-34):

If the optional steps were performed as described in "Create a Panel to Acces the BEA_CPS Message Definition (Optional)," specify the following values:

- Menu Name-BEA_MENU
- ♦ Bar Name-BEA
- ♦ Item Name-CPS1
- ♦ Action Name-Update/Display All
- Search Record-BEA_CPS

		*
Bar Name:		*
(Jers Name:		
Action Name:	1	
Search Record	BEA_OPS	*

Figure 2-34 Attributes for BEA_CPSNames when not for use within PeopleTools.

Select **OK** to return to the **Message Agent Definition** dialog.

Select the **Level Mapping** button on the **Message Agent Definition** dialog. In the **If Row Found** section select the **Update** radio button. In the **If Row Not Found** section select the **Insert** radio button (Figure 2-35). Select **OK** to return to the **Message Agent Definitions** dialog.

Figure 2-35 Define the Level Mapping attributes.

 If Row Found
G Update C Skip C Beplace
C Delate C Erce
II Row Not Found
Figuret C Sup C Engr
C Delete Remaining Rows
Cutput all occurrences

Select the **Field Mapping** button to bring up the **Message Agent Field Map** dialog (Figure 2-36). Select the **Add** button to bring up the **Map Field** dialog.

Hiccoge Agent Field	Нар		×
			Add
			Debte
	QK.	Cancel	

Figure 2-36 Add field mapping to the BEA_CPSNames Message Definition.

In the **Value** section highlight (Search Record) in the **Record** box and then ACTIVITYNAME in the **Field** box. In the **Field Name** specify ACTIVITYNAME (Figure 2-37). Select **OK** to return to the **Message Agent Field Map** dialog. Select the **Add** button again to bring back the **Map Field** dialog.

Figure 2-37 Field mapping without ACTIVITYNAME Message Definition.

Hap Field	×
FieldName: ACTIVITYNANE	
Map Mode: Copy 💌 Map When: Input	
Value Record Field	
# RecEdd Beach Record ACT // P/MAME	_
and a second	
<u>D</u> K Cancel	

In the **Value** section highlight (Search Record) in the Record box and then INPUTNAME in the **Field** box. In the **Field Name** specify INPUTNAME (Figure 2-38). Select **OK** to return to the **Message Agent Field Map** dialog.

Hap Field				×
Field Mane:	INPUTNAME	*		
Map <u>M</u> ode:	Copy 💌	Map <u>\</u> when Input	-	
Value	Record		Field	
@ RecEvid	Search Record BEA_CPS	1	ACTIVITYNAME INFUTNAME	
	· · · · ·			
		ŪK	Cancel	

Figure 2-38 Field mapping without INPUTNAME Message Definition.

Select **OK** from the **Message Agent Field Map** dialog (Figure 2-39) to return to the **Message Agent Definition** dialog. Select **OK** in the **Message Agent Definition** dialog to return to the **Business Process** window.



Figure 2-39 Message Definition BEA_CPSNames with required field mappings.

Save the Business Process by selecting **File -> Save As** from the menu. Type BEA_CPSBUSPROC in the **Save Name As** field (Figure 2-40). Select **OK**. Add the Business Process to the Project by pressing <F7>. Close the Business Process by selecting **File -> Close** from the menu.





Save the Project by selecting **File -> Save Project** from the menu. Enter BEA_CPS as the name to save as (Figure 2-41).

Figure 2-41 Save the eLink for PeopleSoft project as BEA_CPS.

Save Project As	×
Save Project <u>N</u> erve Ac	0K
BEA_CPS	Cancel

Figure 2-42 shows the BEA_CPS project with all the components visible.



Figure 2-42 All items defined in the eLink for PeopleSoft project.

Select **File** -> **Exit** from the menu to exit the application designer. The PeopleSoft definitions required by eLink Adapter for PeopleSoft have now been created.

Configuration Validation

To make the eLink for PeopleSoft menu visible within the PeopleSoft GUI, permissions must be granted to authorized users. Launch the PeopleTools Object Security application.

Open the PeopleTools group by selecting **File -> Open -> Group**, highlighting PeopleTools, and pressing **OK**.

Object Security Open		×
Group ID		
PEOPLETOOLS		
	<u>0</u> K	
	Cancel	
1		

From the menu select **View -> Menus**.



In the Excluded Menus list, on the right side of the window, the BEA_MENU will be listed. Highlight BEA_MENU by clicking on it.

Add it to the usable list by clicking on the single left arrow in the middle of the window.



Save the changes by selecting **File -> Save** from the menu.

Exit PeopleSoft Object Security by selecting File -> Exit.

Launching the Security Administrator

To launch the Security Administrator, select **File -> Open**. Press the arrow to the right of the **Operator/Class Name** input field. ALLPANLS will be inserted into the **Operator/Class Name** field.

Open Operator/Cla	\$\$		×
Operator/Class <u>N</u> am	e:		
ALLPANLS			
Name	Туре	Primary Class	
ALLPANLS	Class		
HRPNLS	Class		
INPNLS	Class		
INS1	Operator	INPNLS	
INS2	Operator	INPNLS	
INVPANLS	Class		
MGR1	Operator	INVPANLS	
PS DTADAUL	Uperator	THRPNLS	
PTADMIN	Uperator	ALLPANES	
DIDNO			
	Operator		
			•
			a . 1
		UK	Cancel

Select **OK** and the ALLPANLS Class displays.

🚲 Security A	dministrator - ALLPANLS (Class of Operators)				
Ele Edit Ve	Ele Edit Yew Juset Lods Bo Fgyceles Window Help				
	o o da a a a a a a a a a a a a a a a a a				
ALLPANLS (Class of Operators)					
	ADMINISTER_HR_SECURITY				
	ADMINISTER_INV_SECURITY				
Gerenal	ADMINISTER_WORKFORCE_(GEL)				
	AININISTER_MOREFORCE_[U.S.]				
	APPLICATION DESIGNER				
	APPLICATION_ENGINE				
Mercultures	APPLICATION_REVIEWER				
(HOIMING NO.	CUBE_NAMAGER				
	DATA_MOVER				
0	DEFINE_FLEXIBLE_FROCESSING				
	DEPINE_GEMERAL_OPTIONS_HR				
Signon Tinez	DEFINE_GENERAL_OFTIONS_INV				
	EDI_MANAGER				
II = 10	ESTABLISH_BUSINESS_UNITS				
	FULFILL_STOCK_ORDERS				
Process	GRADEBOOK				
Groupe	INFORT_MAMAGER				
	NAINTAIN_CONTAINERS				
11	MAINTAIN_INVENTORY				
Ready	N.	N			

Click on the **Menu** icon on the left side of the window. Insert the BEA_MENU by selecting **Insert -> Menu Name** from the menu. This brings up the **Insert Menu Name** dialog.

Insert Menu Name 🛛 🗙					
Select the menu to insert:					
AE75					
BEA MENU					
CORRENCY_CONTROL					
OK Cancel					

Highlight BEA_MENU from the list and select **OK** to bring up the **Select Menu Items** dialog.

S	elect Menu	Items		×
	Menu Name:	BEA_MENU		
	Bar Name	Item Name	Actions/Panels	DispOnly
	BEA	CPS1	<u>A</u> dd Update/Display Update/ <u>D</u> isplay All BEA_PANEL	No
				V
	Eelect All	Change Display-Only	ОК	Cancel

Press the **Select All** button and then press the **OK** button to return to the **Security Administrator** main window, which now should include BEA_MENU in the menu list.

File Fr	ly Administrator - ALLPANLS (Class of Operators) View Inset Tools Bin Excellen Window Halo				
D					
at AL	MILS (Class of Operators)				
	ADMINISTER HR SECURITY ADMINISTER HR SECURITY				
Ger	ADMINISTER_WORKPORCE_(GEL)				
	APPLICATION_DESIGNER APPLICATION_ENGINE APPLICATION_ENGINE				
Men	DEA NENU				
S	DEFINE FLEXIELE PROCESSING				
Signor	DEFINE GENERAL OPTIONS IN DEFINE GENERAL OPTIONS INV				
	ESTAELISH_BUSINESS_UNITS				
Pio Gra	GRADEBOOK				
	MAINTAIN_CONTAINERS				
Ready	NUM	10			

Save the changes by selecting **File** -> **Save** from the menu and then exit the Security Administrator selecting **File** -> **Exit**. The BEA Menu will now be available from within the PeopleTools GUI. In order for the menu item to appear, any running PeopleTools Applications must be restarted (e.g. If Security Administrator was launched from within the Application Designer, the Application Designer must be exited and re-started). The BEA Menu will appear under the Go menu item.

3 Installing eLink Adapter for PeopleSoft

This chapter contains information for installing and uninstalling the eLink Adapter for PeopleSoft product.

Pre-Installation Considerations

The eLink Adapter for PeopleSoft software runs on Digital UNIX, HP-UX, AIX, Solaris, and Windows NT platforms. Complete the following tasks prior to installing eLink Adapter for PeopleSoft:

- Read the BEA eLink Adapter for PeopleSoft Release Notes.
- Install and verify the operation of the BEA TUXEDO product.
- The following server platforms are supported for eLink for PeopleSoft:
 - ♦ HP-UX
 - ♦ AIX Version
 - ♦ Solaris
 - ♦ Windows NT (Intel)

Configuring the Environment to Install eLink for PeopleSoft

Before installing eLink Adapter for PeopleSoft, you must configure the environment properly. Ensure that BEA TUXEDO is configured properly.

Installing BEA eLink Adapter for PeopleSoft

The eLink Adapter for PeopleSoft software will run on Unix-based platforms and Windows NT. Refer to the appropriate platform sections that follow for installation instructions.

Installing on UNIX-based Platforms

To install the eLink Adapter for PeopleSoft software, you run the install.sh script. This script installs all the necessary software components.

Perform the following steps to install the eLink Adapter for PeopleSoft software on a supported UNIX platform.

1. Log on as root to install eLink for PeopleSoft.

\$ su -Password:

2. Access the CD-ROM device.

```
# ls -1 /dev/cdrom
total 0
brw-rw-rw- 1 root sys 27, 0 September 27 10:55 clb0t010
```

3. Mount the CD-ROM.

mount -r -F cdfs /dev/cdrom/c1b0t010 /mnt

4. Change the directory to your CD-ROM device.

cd /mnt

5. List the CD-ROM contents.

ls
install.sh hp sun5x ibm alpha winnt

6. Execute the installation script.

sh ./install.sh

7. The installation script runs and prompts you for responses. Listing 3-1 is an example of the installation script. The entries in bold represent user responses.

Listing 3-1 Install.sh Example

01 alpha.dux40 02) hp/hpux1020 03) hp/hpux11 04) ibm/aix43 05) sun5x/so126 06) sun5x/so17 Install which platform's files? [01-6, q to quit, 1 for list]: 3 ** You have chosen to install from hp/hpux11 ** Is this correct? [y,n,q]: y To terminate the installation at any time press the interrupt key, typically , <break>, or <ctrl+c>. The following packages are available: 1 BEA eLink Adapter for PeopleSoft eps Select the package(s) you wish to install (or 'all' to install all packages) (default: all) [?,??,q]: all BEA eLink Adapter for PeopleSoft (9000) Release 1.1 Copyright (c) 1999 BEA Systems, Inc. All Rights Reserved. Distributed under license by BEA Systems, Inc. BEA eLinkisa trademark of BEA Systems, Inc. Directory where PeopleSoft Adapter files are to be installed (Enter your TUXEDO directory path) [?,q]: /work/cmadm/tux64

Using /work/cmadm/tux64 as the PeopleSoft Adapter base directory Determining if sufficient space is available ... 200 blocks are required 4935566 blocks are available to /work/cmadm/tux64 Unloading /cmhome/dist/eps-2/hp/hpux11/eps/EPST64.Z... bin/cps bin/lic.sh eLink/peoplesoft/psappserv/psappsrv.dc eLink/peoplesoft/psappserv/psappsrv.ubx eLink/peoplesoft/psappserv/readme.txt eLink/peoplesoft/psappserv/setenv.bat eLink/peoplesoft/psappserv/setenv.sh eLink/peoplesoft/simpeps/MsgAgtEx.fml eLink/peoplesoft/simpeps/ePS.dc eLink/peoplesoft/simpeps/ePS.env eLink/peoplesoft/simpeps/ePS.ubb eLink/peoplesoft/simpeps/in.ud eLink/peoplesoft/simpeps/readme.txt eLink/peoplesoft/simpeps/setenv.bat eLink/peoplesoft/simpeps/setenv.sh locale/C/CPSMSG_CAT udataobj/CPSDef.fml 180 blocks ...finished Changing file permissions... ...finished If your license file is accessible, you may install it now. Install license file? [y/n]:n Please don't forget to use lic.sh located in your product bin directory to install the license file from the enclosed floppy. Refer to your product Installation Guide for details on how to do this. Installation of BEA eLink Adapter for PeopleSoft was successful Please don't forget to fill out and send in your registration card

8. Change the directory to your root directory.

cd /

9. Unmount the CD-ROM device.

Installing on a Windows NT Platform

The following steps will install the eLink for peopleSoft software on a Windows NT system.

1. Insert the product CD-ROM and click the **Run** option from the **Start** menu. The **Run** window displays. Click **Browse** to select the CD-ROM drive. Change directories to the winnt directory and select Setup.exe program. Click **OK** to run the executable and begin the installation. The following **Welcome** screen displays. Click **Next** to continue with the installation.

Figure 3-1 Welcome Screen



2. The **BEA Software License Agreement** displays. Click **Yes** to accept the terms of the agreement and continue with the product installation. Click **No** to exit the installation process.



Figure 3-2 BEA Software License Agreement

3. The **User Information** screen displays after the **Software License Agreement** screen. Enter the user name in the **Name** field. Enter the name of your company in the **Company** field. Click **Next** to continue with the installation.

Figure 3-3 User Information Screen



4. The **Install License File?** option screen displays next. You may select **Yes** to install your BEA Software License File, or you may select **No** to bypass this step and continue installing the eLink Adapter for PeopleSoft software. If you select **Yes**, continue with step 5. If you select **No**, continue with Step 7.





5. The **Select License File Source Directory** screen displays. Enter the directory path where your license file resides in the field. You can browse and click directories by clicking the **Browse** button. Typically, the license file is installed in the tuxedo/udataobj directory.

If you entered a valid directory path, click **Next** to continue with the installation. Go to Step 7. If you entered an invalid directory path, go to Step 6.

Select License File Sour	ce Directory	×
	Please Enter Directory where your product license file resides. [Transf your license file disketse and select NEXT to process the license.]	
	Bjowte	
	< Back Next Cancel	

Figure 3-5 Select License File Source Directory Screen

6. If you do not enter a valid directory path for your license file, the installation software generates an error message dialog box. You can select **Yes** to enter a valid directory path, or you can select **No** to continue with the installation. If you

select **No**, the installation software automatically searches for either the TUXEDO or WebLogic Enterprise software. If it finds either, the installation software completes the process. If neither is found, the installation software aborts the process.

Once you have entered a valid directory path, click **Next** to continue with the installation. Go to Step 7.

Figure 3-6 Invalid License File Directory Dialog Box



- 7. A progress bar displays showing the status of the installation.
- 8. The **Setup Complete** screen displays notifying you that the BEA eLink Adapter for PeopleSoft product is installed on your system. Click **Finish** to complete the Setup process.

Figure 3-7 Setup Complete Screen



Distribution Libraries and Executables

The eLink Adapter for PeopleSoft CD-ROM contains the following libraries and executable programs. After installing the eLink Adapter for PeopleSoft software, verify that these libraries and programs are installed on your system.

Verify that the following files are installed by the eLink Adapter for PeopleSoft software.

Directory	Files		
/bin	cps		
	CPSMSG_CAT		
/udataobj	CPSDef.fml		
elink/peoplesoft/simpeps	ePS.dc		
	ePS.env		
	ePS.ubb		
	in.ud		
	MsgAgtEx.fml		
	readme.txt		
	setenv.bat		
	setenv.sh		
elink/peoplesoft/psappserv	psappsrv.dc		
	psappsrv.ubx		
	readme.txt		
	setenv.bat		
	setenv.sh		

Table 3-1 Distribution Libraries and Executables

Uninstalling eLink Adapter for PeopleSoft on Windows NT

Perform the following steps to uninstall the eLink Adapter for PeopleSoft on a Windows NT system.

- 1. Click the **Start** button, and then point to **Settings**. Point to the folder that contains **Control Panel**, and then click **Control Panel**.
- 2. Double click on the Add/Remove Programs option from the Control Panel listings to access the Add/Remove Programs properties window.
- 3. In the **Add/Remove Programs Properties** window, select eLink Adapter for PeopleSoft from the program list and click the **Add/Remove** button.
- The uninstall process for eLink for PeopleSoft begins. The Remove Programs From Your Computer screen displays. Click OK to complete the uninstall process.

Figure 3-8 Remove Programs From Your Computer Screen



4 Configuring PeopleSoft Application Server Domain

It is possible to configure eLink Adapter for PeopleSoft differently from the configuration detailed here. For example, eLink Adapter for PeopleSoft can run on the same computer as PeopleSoft. These variations are simply a matter of configuring TUXEDO via the UBBCONFIG file, the scope of which is outside this document.

The configuration detailed in this document is an example. It should be a simple exercise to modify the configuration to meet any specific site needs. Refer to the TUXEDO documentation for details concerning TUXEDO configuration.

Note: This example assumes that PeopleSoft has been installed and properly configured for three-tier mode. When configuring PeopleSoft in three-tier mode, you must stop and restart the PeopleSoft application server domain. Therefore, this configuration example requires that the PeopleSoft services be stopped and restarted.

Configuring to Run Multiple Domains

This section details configuration of TUXEDO so that PeopleSoft and eLink Adapter for PeopleSoft run in separate domains.

Configuring the PeopleSoft Domain

1. Modify the domain's psappsrv.ubx file (usually located in the PS_HOME\appserv\domain directory) on the computer running PeopleSoft. Add the following entries to the end of the specified sections:

Listing 4-1 psappsrv.ubx Changes

```
*GROUPS

PSDGRP GRPNO = 2 OPENINFO = NONE

*SERVERS

DMADM

SRVGRP = PSDGRP SRVID = 30

GWADM

SRVGRP = PSDGRP SRVID = 31

GWTDOMAIN

SRVGRP = PSDGRP SRVID = 32
```

2. Copy the psappsrv.dc file from the samples\psappsrv directory to the PS_HOME\appserv\domain directory. It must be modified to reflect the site-specific information. The default psappsrv.dc provided is shown in Listing 4-2.

Listing 4-2 Default psappsr4v.dc

DM_LOCAL_DOMAINS TESTSERV GWGRP=PSDGRP TYPE=TDOMAIN

```
DOMAINID="TESTSERV"
DMTLOGDEV="<PS_HOME>appserv\<domain>\DMTLOG"
*DM_REMOTE_DOMAINS
eLink TYPE=TDOMAIN
DOMAINID="eLink"
*DM_TDOMAIN
eLink NWADDR="<IP:port of eLink Adapter for PeopleSoft machine>"
TESTSERV NWADDR="<IP:port of PS machine>"
*DM_REMOTE_SERVICES
```

- 3. Run psadmin to reconfigure the domain; no modifications to any of the configurations settings should be necessary. Do not boot the domain yet.
- 4. Set the following environment variables at the command prompt:

```
SET TUXCONFIG=<PSHOME>\appserv\<domain>\pstuxcfg
SET BDMCONFIG =<PSHOME>\appserv\<domain>\BDMCONFIG.
```

5. After modifying the psappsrv.dc file for your site, run dmloadcf to create the binary domain configuration file:

dmloadcf -y psappsrv.dc

- 6. Boot the PeopleSoft domain via psadmin.
 - **Note:** The DMADM server will log an informational message (CMDGW_CAT: 3149) upon startup. This message indicates that the default domain gateway configuration file is being used. This is normal in this configuration.

Configuring eLink Adapter for PeopleSoft Domain

1. Create a UBBCONFIG file for eLink Adapter for PeopleSoft on the computer running the software. A sample ePS.ubb is shown in Listing 4-3.

```
Listing 4-3 Sample ePS.ubb file
```

```
# This is a skeletal TUXEDO configuration file - "ePS.ubb"
# designed to be used for eLink Adapter for PeopleSoft.
#
*RESOURCES
             33247
                        # ( 32768 < IPCKEY < 262143 )
IPCKEY
MASTER
             eLink
            eLink
DOMAINID
MODEL
             SHM
MAXSERVERS
             20
SECURITY
            NONE
*MACHINES
"<Name of computer running eLink>" LMID="eLink"
      TUXDIR="C:\TUXEDO"
      APPDIR="C:\BEA_eLink\PeopleSoft\samples"
      TUXCONFIG="C:\BEA eLink\PeopleSoft\samples\ePS.tux"
      ULOGPFX="C:\BEA_eLink\PeopleSoft\samples\ULOG"
       ENVFILE="C:\BEA_eLink\PeopleSoft\samples\ePS.env"
      TYPE="1386NT"
      MAXACCESSERS=80
*GROUPS
CPSDGRP LMID=eLink
      GRPNO=1
DGRP LMID=eLink
      GRPNO=2
      OPENINFO=NONE
*SERVERS
DEFAULT:
      CLOPT="-A" # Advertise all services.
     REPLYQ=N# Reply queue not needed for our simple setup.MAXGEN=3# Max number of restarts in the grace period.GRACE=60# Ten minutes grace period
      RESTART=Y
       SYSTEM_ACCESS=FASTPATH
DMADM
      SRVGRP = DGRPSRVID = 30
GWADM
      SRVGRP = DGRPSRVID = 31
GWTDOMAIN
```

```
SRVGRP = DGRPSRVID = 32

CPS

SRVGRP=CPSDGRP

SRVID=155

RQADDR="MSGAPIQ"

REPLYQ=Y

CLOPT="-A -- -17 -p2,L -s2,R"

*SERVICES
```

- 2. Modify the machine name to reflect the name of the computer on which eLink Adapter for PeopleSoft is running.
- 3. Modify the paths to point to the correct locations.
- 4. Run tmloadcf to create the binary configuration file.

tmloadcf -y ePS.ubb

Note: The TUXCONFIG environment variable must match the one specified in ePS.ubb, in this case ePS.tux.

The FML Definition Files must be placed in a directory accessible by eLink Adapter for PeopleSoft. The ePS.env file provided as shown in Listing 4-4.

Listing 4-4 ePS.env File

- 5. Modify the settings as follows:
 - The eLink Adapter for PeopleSoft path must point to the appropriate location.
 - CPSOprId and CPSOprPswd must be the Operator ID and password of a valid PeopleSoft user with the privileges necessary to run the CPSNames Message Definition.

It may be desirable to add Usysf132 to FIELDTBLS32 and TUXDIR\udataobj (where TUXDIR is the full path to the TUXEDO home directory) to FLDTBLDIR32 to allow the use of ud32 with eLink Adapter for PeopleSoft.

6. Create the domain configuration file for the eLink domain. A sample configuration file is shown in Listing 4-5.

Listing 4-5 Sample Configuration File

```
*DM_LOCAL_DOMAINS
# Domain in which BEA eLink Adapter for PeopleSoft is running
eLink GWGRP=DGRP
      TYPE=TDOMAIN
      DOMAINID="eLink"
      DMTLOGDEV="c:\BEA eLink\PeopleSoft\samples\DMTLOG"
# Domain in which PeopleSoft is running
*DM_REMOTE_DOMAINS
TESTSERV TYPE=TDOMAIN
      DOMAINID="TESTSERV"
*DM_TDOMAIN
eLink NWADDR="<IP:Port of eLink machine>"
TESTSERV NWADDR="<IP:port of PS machine>"
*DM REMOTE SERVICES
MsqAPI
GetCertificate
```

7. Modify the machine name to reflect the name of the computer on which eLink Adapter for PeopleSoft is running.

- 8. Modify the paths to point to the correct locations.
- 9. Ensure that the BDMCONFIG environment variables are set before running dmloadcf.
- 10. Run dmloadcf to create the binary configuration file.

```
dmloadcf -y ePS.dc
```

5 Configuring FML32

Communication with eLink Adapter for PeopleSoft is achieved through the use of FML32 buffers. This section details the creation of the FML Definition Files and configuration of the environment to allow eLink Adapter for PeopleSoft to find the FML definition files. For a complete overview of FML buffers see the TUXEDO FML Programmer's Guide provided with TUXEDO.

Create the FML Definition File(s)

The eLink Adapter for PeopleSoft component maintains a one-to-one relationship between the FML field names and the field names used in the PeopleSoft Message Definitions (note this is not the record field's name, it is the name entered for the Message Definition field mapping). In order for eLink Adapter for PeopleSoft to use the FML fields there must be one or more FML Field Definition Files which must be included in the environment variable FIELDTBLS32 and located in a directory included in the environment variable FLDTBLDIR32, both of which are in the ePS.env file.

The eLink Adapter for PeopleSoft component treats all fields as being of type string. Therefore, only unique Message Definition fields names need defining – eLink Adapter for PeopleSoft does not differentiate between multiple occurrences of the same field name in different Message Definitions when passing data between one another. It is up to the system manager to determine how to maintain the FML definition files. They may be stored in one file or broken into sets of files that may, for example, correspond to the fields used for each individual Activity.

There are several ways to determine the Message Definition field names. Two of the easier ways are:

- From the Message Definition Field Mapping from within the PeopleTools Application Designer
- By running a query directly against the database

To determine the field names that must be defined in an FML definition file using the PeopleTools Application Designer, open each Message Agent Message Definition that will be used with eLink Adapter for PeopleSoft. Inside each Message Definition in the Field Mapping section, obtain the list of field names used by that Message Definition. For example: in the PeopleSoft demonstration database the Business Process MSGAGT_EXAMPLES contains one Activity, MsgAgtExamples, which contains four Message Definitions: AddL0, AddUpdRow, ReadRow, and ReadRows. Examining the Field Mapping for the ReadRows Message Definition shows four defined fields: EMPLID, NAME_TYPE, NAME_PART, and PREFERRED_NAME. These are the fields that must be defined in an FML Definition File.

Figure 5-1 shows the list of message definition fields that must be defined in an FML definition file in order to use eLink Adapter for PeopleSoft with the message agent message definition.



Figure 5-1 List of necessary message definition fields.

The FML Definition File must contain lines similar to the following:

EMPLID	900	string	-	EmployID
NAME_TYPE	901	string	-	Type of name for employee
NAME_PART	902	string	-	ID of portion of name of employee
PREFERRED_NAME	903	string	-	Preferred name of employee

To obtain the list of fields by querying the database directly, use the following SQL query:

```
select distinct C.FIELDNAME
from PSMSGAGTDEFN A, PSBUSPROCXREF B, PSMAPRECFIELD C
where B.COMPONENTNAME=A.ACTIVITYNAME
and C.ACTIVITYNAME=A.ACTIVITYNAME
order by C.FIELDNAME
```

The selection may be modified to obtain the fields for one or a set of Activities by adding additional constraints to the "where" clause.

For example, to obtain the fields used only by the MsgAgtExamples Activity, use the following query:

```
select distinct C.FIELDNAME
from PSMSGAGTDEFN A, PSBUSPROCXREF B, PSMAPRECFIELD C
where B.COMPONENTNAME=A.ACTIVITYNAME
and C.ACTIVITYNAME=A.ACTIVITYNAME
and C.ACTIVITYNAME='MsgAgtExamples'
order by C.FIELDNAME
```

6 Running eLink Adapter for PeopleSoft

This section discusses starting the TUXEDO domain(s) to allow eLink Adapter for PeopleSoft to function.

First, boot the PeopleSoft domain via **psadmin**. This domain must be running in order for the eLink for PeopleSoft server (CPS.EXE) to successfully initialize.

The eLink for PeopleSoft domain environment has to be set before it can be booted up. The environment variables that need to be set are: TUXCONFIG, BDMCONFIG, FIELDTBLS32 and FLDTBLDIR32. A sample environment batch file to do this has been provided in elink\peoplesoft\simpeps\setenv.bat.

The eLink for PeopleSoft domain can now be booted up by using the command: tmboot -y

Based on the command line options given to eLink for PeopleSoft, it will look for all or specific Activities and create the TUXEDO services to execute those message definitions. The command line options for eLink for PeopleSoft are summarized below.

The eLink for PeopleSoft component maintains a one-to-one correspondence between each advertised service and each Message Agent Business Process–Activity pair. Four (optional) command line parameters control the way in which eLink for PeopleSoft service names are created from the PeopleSoft Activity and Message Definition names. The parameters are:

-l<length> (lowercase "L")

specifies the length of the service prefix constructed from the Activity name. Where <length> is replaced by one of the following numbers:

6 Running eLink Adapter for PeopleSoft

0 –

Service name derived solely from the Message Definition Name (uses none of the Activity Names).

1-13 -

Service name consists of characters from both the Activity and Message Definition names. The name uses a total of 14 characters from the two names: a prefix derived from the Activity name, a dot ("."), and a suffix derived from the Message Definition name. The number represents the maximum number of characters to use for the prefix.

An optional conversion level may be specified to control the algorithm used for creating the service name prefix and suffix. This conversion will be applied before concatenation, so that truncation occurs based on the setting of the "-l" parameter.

-p<level>

specifies the conversion level to use for creating the service name prefix from the Activity name.

-s<level>

specifies the conversion level to use for creating the service name suffix from the Message Definition name.

Where <level> is replaced by one of the following numbers:

0 -

At a conversion level of zero, no changes are made to the original name before the concatenation is performed. This is the default if the -p or -s is not specified.

1-

Remove spaces, keeping up to 15 characters (note that further truncation may occur during the concatenation step) For example: "This Is A Long Name In PeopleSoft" becomes: "ThisIsALongName" "Administer Workforce" becomes "AdministerWorkf"

2-

Remove spaces, and all vowels (y is considered a consonant) except capitals and letters preceded immediately by a space, up to 15
characters (again, further truncation may occur during concatenation). For example: "This Is A Long Name In PeopleSoft" becomes: "ThsIsALngNmInPp" "Administer Workforce" becomes "AdmnstrWrkfrc"

```
-a<ActivityName>[,<ActivityName>...]
Where: <ActivityName> is the (unmodified) name of a PeopleSoft
Activity.
```

For each Activity specified, the Adapter will advertise services for every Message Definition in that Activity. The Adapter will advertise services for all Message Agent Message Definitions in all Activities if this option is not specified.

Command line options are processed from right to left, thus making it possible to use different lengths and mangling schemes (both prefix and suffix) for one, some, or all of the Activity – Message Definition pairs. If the –a option is encountered, the service names for that Activity are created using the previously set length (-l), prefix scheme (-p), and suffix scheme (-s). If any or all of these options are omitted the defaults are used.

FML32 Buffer

Communication with eLink for PeopleSoft is performed using FML32 buffers. The application making the PeopleSoft request must populate an FML32 buffer with the fields required by the PeopleSoft Message Definition.

In addition, two eLink for PeopleSoft defined fields must be populated: BEA_CPSOprId and BEA_CPSOprPswd. These fields correspond to the PeopleSoft Operator ID and password, respectively, that eLink for PeopleSoft will use to log in to PeopleSoft and perform the requested action.

All FML32 fields must be defined as type string. This applies to both the data being passed to eLink for PeopleSoft as well as the data returned from eLink for PeopleSoft.

Field names in the FML32 buffer are identical to the names used in the PeopleSoft Message

6 Running eLink Adapter for PeopleSoft

If the Message Definition is expecting input of EmployeeID, HireDate, and Salary there must be FML32 fields of these names defined.

Multiple rows of data are represented as occurrences in the FML32 buffer. All fields with the same occurrence are treated as a single row of data to PeopleSoft. This provides the application with the ability to add or update multiple non-level 0 rows in PeopleSoft as well as receive multiple rows of data from PeopleSoft.

The FML32 buffer returned by eLink for PeopleSoft reserves one field, BEA_CPSError, for return status. This field will contain the return code and, if available, a string description of the error returned from PeopleSoft.

For example, the demonstration database that ships with PeopleSoft contains several Message Agent Message Definitions.

7 Exposing PeopleSoft Panels to TUXEDO Applications

This chapter provides instructions for determining internal names for a PeopleSoft GUI dialog box components. This information is then used to create a Message Definition for TUXEDO applications to access the PeopleSoft database in the same manner as the PeopleSoft dialog box.

Throughout this chapter you will need to record dialog box information on the two worksheets located at the end of this chapter.

You must determine the following dialog box internal information in order to create the Message Definition:

- Menu name
- Dialog box name
- Dialog box group
- Record and field names associated with the dialog box
- Search record

Determining PeopleSoft Internal GUI Component Names

Perform the following steps to gather internal names for PeopleSoft GUI dialog box components.

The PeopleSoft dialog box used in this integration example is the "Disciplinary Action" panel. This panel is created as part of PeopleSoft's demonstration application, PTDMO.

Displaying the Disciplinary Action Dialog Box

Perform the following steps to display the Disciplinary Action dialog box.

- 1. Select **Start -> PeopleSoft7.5 -> PeopleTools**. You will see the following dialog box; however, the title bar may display a different title.
- 2. Select Go -> Administer Workforce -> Administer Workforce (GBL) from the menu.



Figure 7-1 Select Administer Workforce (GBL)

 From the Administer Workforce dialog box, select Use -> Disciplinary Action. You will see the following dialog box.

Figure 7-2 Employee ID Dialog Box

a man frank	
EnpliD: 0100	DK.
1	Carsel
None	Seatch
Cont Range	1 Den
0 Name	Ure Garage
	Meet Guatry
•1	1

4. Type the employee number G000 in the EmpID box and click OK. The Administer Workforce (GBL) - Use - Disciplinary Action dialog box displays.



Figure 7-3 Disciplinary Action Dialog Box

For the purposes of this example, the Disciplinary Action dialog box is the object from which PeopleSoft internal information will be gathered.

Using the Message Definition Attributes worksheet in the back of this chapter, record the following information in the GUI name column.

- Menu Name Administer Workforce (GBL)
- Menu Bar Use
- Menu Item Disciplinary Action
- Action Update/Display
- Panel Name Disciplinary Action

Obtaining the Internal Menu Name

Perform the following steps to obtain the internal menu name.

- 1. Select **Start -> PeopleSoft7.5 -> Application Designer**. You will see the Application Designer dialog box.
- 2. Select File -> Open. You will see the following Open Object dialog box.

Figure 7-4 Open Object Dialog Box

Open Object				
Ogject Type:	Henu	-		Select
Selection Cate				Cancel
Liwe.	ADMINISTER_WORKS	OFC.		
Queroniphine .				NegSeath
Dee	Al Henus	-		
Objects matcher Nature ADMINISTER ADMINISTER ADMINISTER	g plecker plane HR, SECURITY NY SECURITY WORKDALE (U.S.)	Tare Standard Standard Standard Standard	Description)	•
AE75 ANALYSIS_DI APPLICATION REA_EPS_ME BEA_HENU REA_PSIT_ME	L MANAGER ENGRE MJ	Standard Standard Standard Standard Standard Standard	HyperCube Manager	
1. I	nd			v

- 3. In the Object Type drop-down list, select Menu.
- 4. Type % in the Name box and click Select. The "Objects matching selection criteria" field populates with a list of items.
- 5. Select the menu name that is similar to the GUI menu name. In this case, you select ADMINISTER_WORKFORCE_(GBL).
- 6. Click Select. The Application Designer development environment opens with the ADMINISTER_WORKFORCE_(GBL) dialog box displayed in the right pane. This serves as verification that you selected the correct object.



Figure 7-5 Application Designer Dialog Box

- 7. Using the Message Definition Attributes worksheet in the back of this chapter, record the following Menu Name information in the PeopleSoft Internal Name column.
 - Menu Name ADMINISTER_WORKFORCE (GBL)

Obtaining the Internal Panel Name and Group

To obtain the panel name and panel group, you must open and examine the panel within the PeopleTools Application Designer.

Perform the following steps to obtain the internal panel name and group.

- 1. From within Application Designer, select **File -> Open**. You will see the Open Object dialog box.
- 2. In the Object Type drop-down list, select Menu.
- 3. Type ADMINISTER_WORKFORCE(GBL) in the name box and click Select. The "Objects matching selection criteria" field populates with a list of items.
- 4. Select the menu name that is similar to the GUI menu name. In this case, you select ADMINISTER_WORKFORCE_(GBL).

- 5. Click Select. The Application Designer development environment opens with the ADMINISTER_WORKFORCE_(GBL) dialog box displayed in the right pane. This serves as verification that you selected the correct object.
- 6. From within the ADMINISTER_WORKFORCE_(GBL) dialog box displayed in the right pane, select **Use -> Disciplinary Action**.
- Right-click on Disciplinary Action and select View Definition from the menu. The following DISCIPLINARY_ACTN.GBL panel displays in the Application Designer dialog box.

Figure 7-6 Panel Group Dialog Box



- 8. Using the Message Definition Attributes worksheet in the back of this chapter, record the following Panel Name and Panel Group information in the PeopleSoft Internal Name column.
 - Panel Name DISCIPLINARY_ACTN
 - Panel Group DISCIPLINARY_ACTN.GBL

Obtaining the Search Record

Perform the following steps to obtain the Search Record.

- 1. From within the Application Designer with the DISCIPLINARY_ACTN.GBL panel displayed, select **File -> Object Properties**. The Panel Group Properties dialog box displays.
- 2. Select the Use tab.
- Using the Message Definition Attributes worksheet in the back of this chapter, record the following Search Record information in the PeopleSoft Internal Name column.

konn		Actions
Search mood:		ि ≜ái
PERLIKOLOGI	-	F geter Digler
Add search rocald		C Updeo Digiley H
		Denter
Ortal pavel		2 Date Date
PERSONAL DATAT	2	
Tier Execution/Lacokery		
Parel brog (just	100	County (1924
E Clevi	1.5	Jard .
 Application server. 	1.54	gokcation server
F Detail legitodan renet	104	able also, some (with edite)
	16.0	Veranit Secolication termes

Figure 7-7 Panel Group Properties Dialog Box

- 4. Click Cancel to close the Panel Group Properties dialog box.
- 5. Click Cancel to close the Panel Group dialog box.
- 6. Close the ADMINISTER_WORKFORCE_(GBL) Menu. If prompted to save changes, click No.

Obtaining the Record and Field Names

Perform the following steps to obtain Record and Field names.

- Select Start -> PeopleSoft7.5 -> Application Designer. The Application Designer dialog box displays.
- 2. Select File -> Open. The Open Object dialog box displays.

- 3. In the Object Type drop-down list, select Panel.
- 4. In the Name box, type DISCIPLINARY_ACTN.
- 5. Click Select. The DISCIPLINARY_ACTN.ENG panel displays as shown.

Figure 7-8 DISCIPLINARY_ACTN.ENG Panel

Transfer of the	ton in	4
Proposited in our	nge jannannan	
Supervise ID Page Sale	•]	
Action Editor Sing Action III		1
Comment		3

6. To obtain the Record and Field information associated with the GUI object, double-click on the field of interest. The Panel Field Properties dialog box displays with the Record and Field information.

Email Name Dokt Name	DISORDELLOT
light.	100 Uke Dalauk Nate 100
Sax	Algement
W Annual	F Auto
CHamper	C 140
C Carton	C Rule
in the	Data Nor
Display Options	
T Doping 2mg	e 🖓 Englay Compag
T Partyrel	Dameng Spread
T they good	at Editors (*** 1000 Separator
I Autorit	F Auto Decinal

Figure 7-9 Panel Field Properties Dialog Box

- 7. Select the Use tab to determine if the field is used for Display Only. If the field is Display Only, then TUXEDO applications are only able to retrieve the information, not update it.
- 8. Using the Message Definition Fields worksheet in the back of this chapter, record the Record Name, Field Name, and Display Only information.
- 9. Repeat steps 6 through 8 for every dialog box component of interest.
- Select File -> Close to close the DISCIPLINARY_ACTN.ENG when you are finished. If prompted to save changes, click No.

Creating the Activity and Message Definition

Once you have obtained the Message Definition attributes and the field names associated with the GUI controls, you can create a Message Definition to access the panel's information from a TUXEDO application.

Perform the following steps to create the activity and message definition.

 Select Start -> PeopleSoft7.5 -> Application Designer. The Application Designer dialog box displays. 2. Select **File -> New -> Business Process**. The following panel displays within the Application Designer main window.



Figure 7-10 Business Process Panel

- 3. Click the "Three Footprints" icon to begin adding a new activity.
- 4. Click anywhere on the grid to display the Activity Choices window.

Figure 7-11 Activity Choices Window

Activity Choices 🛛 🗶				
C Erecte New Activity				
C Beue Existing Activity				
C Dopy Existing Activity				
Create Frans HTML Access Template				
<u>DK</u> Cancel				

- 5. Click the Create New Activity button.
- 6. Click OK. The "Three Footprints" icon displays on the grid window.
- 7. Place your cursor over the 'Three Footprints' icon and right-click. The Activity Definition dialog box displays.

gane:	Dury Disciplinary Action	Time
cos Deocr	Duey Disciplinary Action	Turdi
Jesception	This activity is used by the eLink for P access the Administer Walifarce. Use parent]	esplată afi adapter to 🗵 e Disciplinary Action
	to an and	

Figure 7-12 Activity Definition Dialog Box

- 8. Use the dialog box to describe the new activity using the Name, Icon Descr, and Description fields.
- 9. Click OK. The icon for the new activity displays on the Business process grid.
- 10. Double-click the new activity icon to open the activity.
- 11. Click the Door icon to select it and then click somewhere on the grid to add a Message Definition.
- 12. Right-click the Message Definition to open the Message Agent Definition dialog box.

Herrage Ag	ent Definition		×
Name:	Query Disciplinery Action	Bilanep	
Icon Desca	Query Disciplinary Action	Atrèster	
		Level Mapping .	
		Field Mapping .	
Description:	This Message Agent Definition is used by the eL PeopleSoft adapter to query the Administer Work Disciplinary Action panel.	nk lor 📧	
	QK. Cancel		

Figure 7-13 Message Agent Definition Dialog Box

13. Type the appropriate descriptive information.

14. Click Attributes to open the Message Attributes dialog box.

Figure 7-14 Message Attributes Dialog Box

ľ	leccage Attribute	13	×			
	Target Panel 510	νp				
	Menu Narse:	ADMINISTER_WORKFORCE_IGEL	¥			
	Eler Nerre:	USE	¥			
	(tern Name:	DISCIPLINARY_ACTION	¥			
	Action Name:	8Update/Dioplay	¥			
	Search Record	PERS_SPICH_GBL	¥			
	OK. Cancel					

15. From the Menu Name drop-down list, select ADMINISTER_WORKFORCE-(GBL).

- 16. Using the Message Definition Attributes worksheet in the back of this chapter, select the corresponding values from the Message Attributes drop-down lists.
- 17. Click OK to return to the Message Agent Definition dialog box.
- 18. Click Level Mapping to open the Map Level Options dialog box.

Figure 7-15 Map Level Options Dialog Box

Hap Level Options		×
Record Herachy DISCIPLIN_STEP	If Row Found © Update © Skip © Beplace © Delete © Error If Row Not Found © Ignet © Skip © Error Delete Remaining Rows © Delete Remaining Rows © Delete Remaining Rows	
K	Cancel	

- 19. Accept all the defaults and click OK to return to the Message Agent Definition dialog box.
- 20. Click Field Mapping to open the Message Agent Field Map dialog box.

Mensage Agent F	old Moy		- -
	gx	Cancel	

Figure 7-16 Message Agent Field Map Dialog Box

21. Click Add to open the Map Field dialog box.

Figure 7-17 Map Field Dialog Box

Hap Field	×
Field Name: EMPLID	
Map Made Copp · Map When Input ·	
Value Record Field	1
F Rectied Search Record EMPLID	
DERIVED_HR DISCPLIN ACTN	
DISCIP_TYPE_TBL DISCIPLIN_STEP	
DISCIP_STEP_TBL	
OK Cancel	

Using the information recorded in the Message Definition Fields worksheet at the back of this chapter, map each field in the Message Agent Field Map so that this information can be retrieved by TUXEDO applications.

- 22. To add the field EMPLID, select Search Record in the Record pane.
- 23. Select EMPLID in the Field pane.

- 24. Type EMPLID in the Field Name box.
- 25. Accept the map Mode default.
- 26. Select Input from the Map When drop-down list.
- 27. Click OK to return to the Message Agent Field Map. The EMPLID field should be added to the Message Agent Field Map as shown below.

Figure 7-18 Message Agent Field Map

Copy	Input P	DAL, SHOLDS	SC EMPLID	
				-
				Change
				Dokto
	Cope	Copp Input P	Copy Input PERS, SHOH, OF	Cope Paper PDAS_SHOH_DISLEMPUS

- 28. Add the remaining fields to the Message Agent Map definition. Since this message definition is for a query request, all other fields should be of type "Output". These fields will not be sent in the query request, but will only be received in the query response.
 - **Note:** Notice that the Field Name defined in the Message Agent map does not have to match the field name of the record.
- 29. Continue adding output fields as necessary. A sample Message Definition follows.

Figure 7-19 Complete Message Agent Map Definition

ľ	****	ge Agent Field Hap				8
	Kay Kay Kay	ENFLID DISOP_INODENTS DISOP_INODENT_DATE DISOP_INODENT_TYPE DISOP_INODENT_TYPE DISOP_INODENT_DESOR DISOP_SUPERVISOR DISOP_SUPERVISOR DISOP_SUPERVISOR DISOP_STEP_TYPE DISOP_STEP_OT DISOP_STEP_OT DISOP_STEP_COMMENTS	Copy Copy Copy Copy Copy Copy Copy Copy	Irpd Outpd Outpd Outpd Outpd Outpd Outpd Outpd Outpd Outpd Outpd Outpd	FERS_SPICH_GBLENFLID DERIVED_HR_TOTAINDDENIT DISCIPLIN_ACTN.DISCIPLINARY_T- DISCIPLIN_ACTN.DISCIPLINARY_T- DISCIPLIN_ACTN.DESCRILDING DISCIPLIN_ACTN.DESCRILDING DISCIPLIN_ACTN.SUPERVISOR_JD PERSONAL_DATA.NAME DISCIPLIN_ACTN.PURGE_DT DISCIPLIN_STEP.DISCIPLINARY_ST DISCIPLIN_STEP.ACTION_DT DISCIPLIN_STEP.COMMENTS	Add. Daings. Dainte.
		QK		l	Cancel	

- 30. Click OK to close the Message Agent Field Map dialog box.
- 31. Click OK to close the Message Agent Definition dialog box.
- 32. Select **File -> Save** to save the new business process, activity, and message definition.

Defining FML32 Fields

In order to use the new message definition, you must create the associated FML field identifiers.

For more information on defining FML32 fields, refer to the *BEA TUXEDO FML Programmer's Guide*.

Perform the following steps to define the FML32 fields.

1. Edit the MsgAgtEx.fml.

2. Add each field from the Message Agent Field Map to the FML file. Each field should be of type string. The following table is the FML used for this example.

#name	rel-number	type	flags	comment
EMPLID	18	string	-	Employee ID
DISCIP_INCIDENTS	19	string	-	Number of incidents
DISCIP_INCIDENT_DATE	20	string	-	Date of incident
DISCIP_INCIDENT_TYPE	21	string	-	Incident type
DISCIP_INCID_TYPE_DESCR	22	string	-	Incident type description
DISCIP_INCIDENT_DESCR	23	string	-	Incident description
DISCIP_SUPERVISOR_ID	24	string	-	Employee ID of supervisor
DISCIP_SUPERVISOR	25	string	-	Supervisor name
DISCIP_INCID_PURGE_DT	26	string	-	Date that incident is forgotten
DISCIP_STEP_TYPE	27	string	-	Type of discipline taken
DISCIP_STEP_TYPE_DESCR	28	string	-	Descrip of discipline step type
DISCIP_STEP_DT	29	string	-	Date of discipline action
DISCIP_STEP_ADVISOR	30	string	-	Discipline advisor
DISCIP_STEP_COMMENTS	31	string	-	Comments on discipline action

Table 7-1 FML Example

Testing the New Message Definition

Perform the following steps to test the new Message Definition.

1. Reboot the eLink for PeopleSoft adapter to take advantage of the new FML fields and the new Message Definition.

```
tmshutdown -s cps
tmboot -s cps
```

2. Create a script for the ud32 utility. The ud32 utility can read tab-delimited text and create a FML32 buffer request. Use the following ud32 script to test this example.

```
SRVCNM QryDscp.DscActn
BEA_CPSOprID PTDMO
BEA_CPSOprPswd PTDMO
EMPLID G000
```

3. Send the script to the indicated service and print out the FML32 response.

This script will invoke service "QryDscp.DscActn", sending an operator ID, ad operator password, and an employee id to return Disciplinary information on. The following is the output for the example.

```
$ud32 < disp.ud
SENT pkt(1) is:
SRVCNM QryDscp.DscActn
BEA_CPSOprId PTDMO
BEA_CPSOprPswd PTDMO
EMPLID G000
RTN pkt(1) is:
BEA_CPSRows 1
DISCIP_INCIDENTS 1
DISCIP INCIDENTS DATE 02/11/1994
```

DISCIP_INCIDENT_TYPE LRF DISCIP_INCID_TYPE_DESCR Late return from lunch DISCIP_INCIDENT_DESCR Greg returned 30 minutes late from lunch Tardiness has been a recurring problem with Greg. DISCIP_SUPERVISOR_ID 8154 DISCIP_SUPERVISOR Peck, Jan DISCIP_INCID_PURGE_DT 08/11/1994 DISCIP_STEP_TYPE 1 DISCIP_STEP_TYPE_DESCR Discuss with dept. Supervisor DISCIP_STEP_DT 02/11/1994 DISCIP_STEP_ADVISOR Richardson, Dion DISCIP_STEP_COMMENTS Greg has been verbally reprimanded. Further tardiness will result in dock in pay.

Message Definition Worksheets

Use the following worksheets to record the information needed to create a Message Definition.

	GUI Name	PeopleSoft Internal Name
Menu Name		
Men Bar		
Menu Item		
Action		
Panel Name		
Panel Group		
Search Record		

 Table 7-2 Message Definition Attributes

Table 7-3 Message Definition Fields

Record Name	Field Name	Display Only	Description

Record Name	Field Name	Display Only	Description	