
PeopleSoft 9.2: Events and Notifications Framework

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Contents

Preface: Preface.....	v
PeopleSoft Enterprise Components Related Links.....	v
Chapter 1: Getting Started with PeopleSoft Events and Notifications Framework.....	7
PeopleSoft Events and Notifications Framework Overview.....	7
Events and Notifications Framework Implementation.....	8
Implementing Events.....	8
Implementing Notifications.....	8
Implementing Alerts.....	9
Chapter 2: Understanding the Events and Notifications Framework.....	11
Understanding the Process Flow of the Events and Notifications Framework.....	11
Chapter 3: Setting Up Notifications.....	17
Understanding Notification Setup.....	17
Setting Up the Notification Registry and Override Pages.....	18
Pages Used to Set Up the Notification Registry and Registry Notification Pages.....	18
Notification Registry Page.....	18
System-Level Notifications Page.....	20
BU-Level Notifications Page.....	22
Setting Up Notifications Using XML Messages.....	23
Using the Pre-Defined Notifications.....	24
Modifying PeopleSoft Processes to Create Notifications.....	24
Chapter 4: Setting Up Events.....	27
Understanding Event Setup.....	27
Understanding Event Handlers.....	28
Defining and Registering Events.....	31
Pages Used to Define and Register Events.....	31
Understanding New Events.....	32
Define Events Page.....	32
Registered Handlers Page.....	33
Creating Event Handlers.....	35
Testing Event Handlers and Events.....	42
Pages Used to Test Event Handlers and Events.....	42
Understanding Event Testing.....	42
Event Manager - Test an Event Handler Page.....	43
Event Manager - Raise an Ad-Hoc Test Event Page.....	45
Raising Events.....	47
Monitoring Events.....	49
Pages Used to Monitor Events.....	50
Event Manager - Monitor Page.....	50
Event Monitor - Handlers Page.....	52
Event Monitor - Handler Exceptions Page.....	53
Viewing Event Summaries.....	55
Pages Used View Event Summaries.....	55
Event Manager - Event Summary Page.....	55
Event Manager - Failed Handlers Page.....	57
Event Manager - Handler Exceptions Page.....	57
Chapter 5: Creating Alerts.....	59

Understanding PeopleSoft Queries Within the Alert Framework.....	59
Defining Alert Queries in PeopleSoft.....	60
Pages Used to Define PeopleSoft Queries for Alerts.....	60
Alert Summary Page.....	60
Alert Definition Page.....	61
User List Definition.....	64
Running the Alerts Process.....	68
Page Used to Run the Alerts Process.....	68
Alerts Page.....	68
Chapter 6: Using the Notification Dashboard.....	71
Searching and Viewing the Notification Dashboard.....	71
Pages Used to Search and View the Notification Dashboard.....	71
Notification Dashboard Page.....	71
Notification Detail Page.....	73
Chapter 7: Using PeopleSoft Worklists to View Notification Messages.....	75
Using the PeopleSoft Worklist to View Notification Messages.....	75
Page Used to View Notification Messages on a PeopleSoft Worklist.....	75
Worklist Page.....	75

Preface

PeopleSoft Enterprise Components Related Links

[PeopleSoft Information Portal](#)

[My Oracle Support](#)

[PeopleSoft Training from Oracle University](#)

Getting Started with PeopleSoft Events and Notifications Framework

PeopleSoft Events and Notifications Framework Overview

The PeopleSoft Events and Notifications framework provides three features that can be configured and used to monitor business processes and create messages when unusual situations or errors occur within a PeopleSoft process or table. These messages can be routed to different users (PeopleSoft or non-PeopleSoft) to prompt the user to resolve the issue. Links can take the user directly to the page for correction or resolution. The three features are:

- Events
- Notifications
- Alerts

Events

Events is a feature and framework that enables you to define, implement, and run business logic for business events.

Using the Events framework, you can define the business events that the system raises when you change certain data in application components or run certain PeopleTools Application Engine processes. You can also define the event handlers that the Events framework executes to react to these specific event instances. *Raising* an event is the act of creating an event instance. If an event is raised, the Events framework automatically executes the business logic for the registered event handlers of the event.

Events allow you to:

- Isolate, automatically process, and monitor the business logic asynchronously.
- Define your own business events and build your own event handlers for these events with minimal impact to the delivered code.
- Troubleshoot based on detail provided in the Event Monitor.

Notifications and Alerts

The notifications feature enables you to monitor the transaction flow and alert your organization to any errors, changes, and stalled transactions.

With notifications and alerts, you can:

- Monitor PeopleSoft processes and receive notifications when exceptions are found.
- Scan PeopleSoft tables using PeopleSoft Query and receive notifications when exceptions are found.

- Use the Notification Dashboard to monitor messages and link to the PeopleSoft page where you can review or correct the issue.
- Receive notifications to your email account.
- Receive notifications to your PeopleSoft worklist.
- Pass messages to a third-party system using the XML format.
- Create a custom action for a notification using an PeopleSoft application class.

Events and Notifications Framework Implementation

Many PeopleSoft applications are delivered with pre-defined events and notifications. Refer to your specific application for implementation details.

PeopleSoft Setup Manager enables you to review a list of setup tasks for your organization for the products that you are implementing. The setup tasks include the components that you must set up, listed in the order in which you must enter data into the component tables, and links to the corresponding product documentation.

Other Sources of Information

In the planning phase of your implementation, take advantage of all PeopleSoft sources of information, including the installation guides, table-loading sequences, data models, and business process maps.

For more information, refer the product documentation for .

Implementing Events

To implement Event Manager into your application processing:

Step	Reference
Identify the business events that drive the execution of your business logic and, if necessary, define a new event.	See Defining and Registering Events .
Write the event handlers in PeopleTools Application Designer to execute the business logic that is specific to the event.	See Creating Event Handlers .
Register the event handlers to the event through the Event Registry component.	See Defining and Registering Events .
Test your event and its registered event handlers.	See Event Manager - Test an Event Handler Page .

Implementing Notifications

To implement notifications:

Step	Reference
Add your process name and category to the Notification Registry page.	See Notification Registry Page .
Create a message context record to pass all transactional data through the message framework.	All context records must include the EOEN_LOG_KEY subrecord. Any additional transactional fields can be added to the context record.
Implement the EOEN interface object within your application process by using the EOEN_MVC:EOEN_MODEL.EOEN_INTERFACE class.	See Modifying PeopleSoft Processes to Create Notifications .

Implementing Alerts

Use these steps to implement alerts:

Step	Reference
Define the query to use with the alert.	See Defining Alert Queries in PeopleSoft .
Define the Alert Setup	See Defining Alert Queries in PeopleSoft
Run the Alert process.	See Running the Alerts Process .

Understanding the Events and Notifications Framework

Understanding the Process Flow of the Events and Notifications Framework

As your organization processes the continuous stream of transactions within your PeopleSoft system, the events and notifications feature enables you to monitor the transaction flow and alert your organization to any errors, changes, and stalled transactions. The messages generated by the events and notifications feature can notify you of the problem, give you a detailed description of the issue, and provide a link to the PeopleSoft page where you can resolve it.

The events and notifications delivers a flexible way for you to route these messages to different individuals, job roles, or departments to insure that the correct person handles any potential problems before they cause trouble. Based on your setup of the events and notifications feature, you can view these messages:

- On the Notification Dashboard page. This dashboard provides a central location to view all of these messages.
- (optional) Within a PeopleSoft Worklist.
- (optional) Within an email account.
- (optional) Within a third-party system as an XML-formatted message.
- (optional) Using a custom action created by an application class.

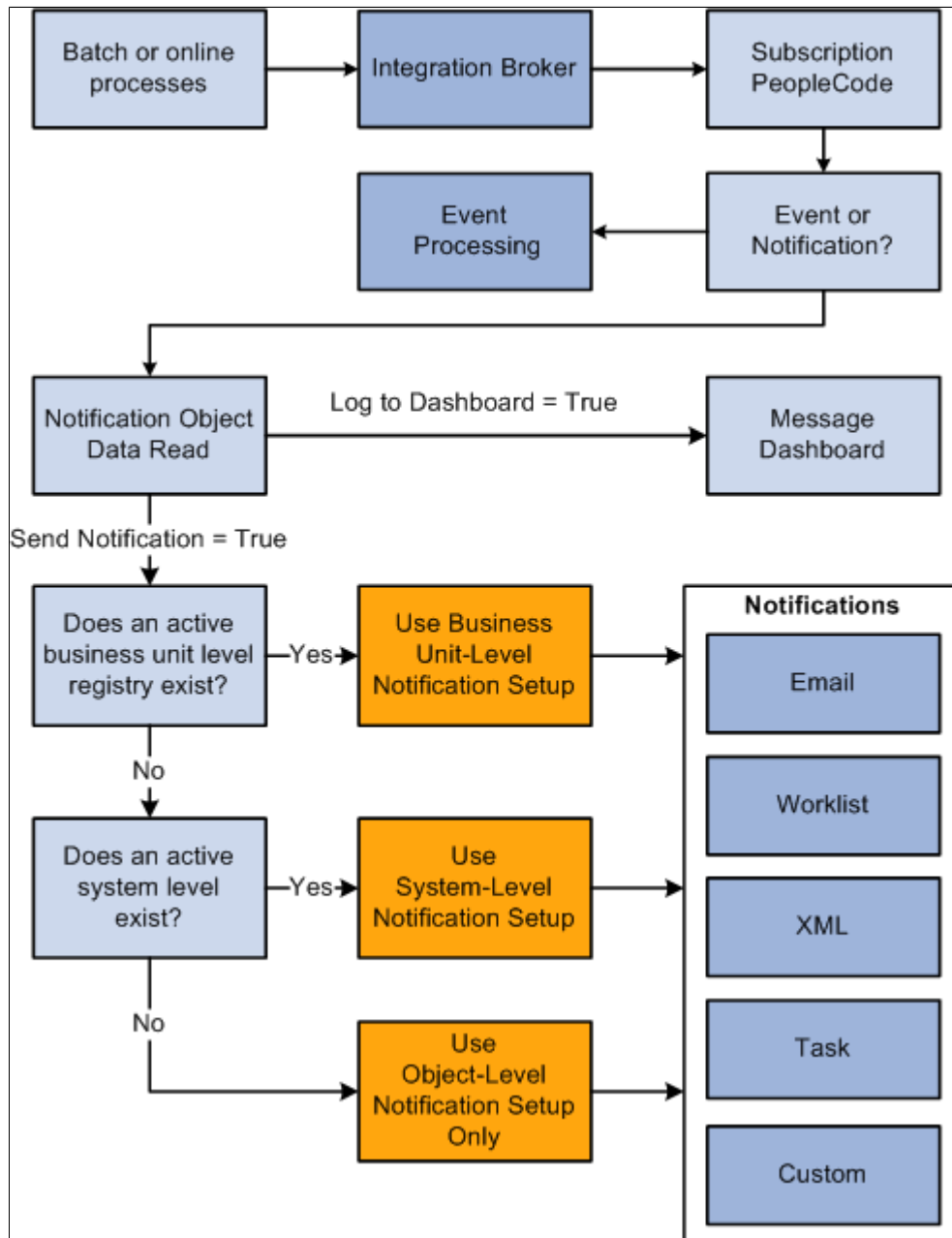
There are three ways to use notifications:

- *Use pre-defined notifications:* Some PeopleSoft applications are delivered with batch and online processes that have been pre-defined to generate notification messages. Once you complete the notification setup steps, the notification messages are delivered to the appropriate user.
- *Define new notifications for a PeopleSoft process:* Use the PeopleSoft Application Designer to alter an existing PeopleSoft process to generate messages. Then complete the notification setup steps for the new notifications. This method alters the PeopleCode of an existing PeopleSoft process and requires the assistance of your IT department.
- *Use PeopleSoft Query:* Create a PeopleSoft Query on one or more PeopleSoft tables, add the Alert using the Alert Setup component, and then complete the Alert setup steps. When the Alerts process is run, the PeopleSoft table is queried and the Alert messages can be generated. This method enables you to monitor data within a PeopleSoft table; for example, searching for stalled transactions, instead of looking at the results of a PeopleSoft process.

The Process Flow of Notification Messages Generated by a PeopleSoft Process

Image: Generating notification messages from a PeopleSoft process

This diagram illustrates the process flow of notifications produced by a batch or online PeopleSoft process. The PeopleSoft process creates message object data that includes values such as, who to notify and where to post the message (Notification Dashboard, Worklist, email, XML notification, or custom action). The message is sent through Integration Broker and subscription PeopleCode determines whether it is an event or a notification. The system checks for override values at the notification registry, the business unit level, or the system level, and then notifies the appropriate person using the Notification Dashboard page, an email, a worklist entry, an XML message, or a custom action.



A PeopleSoft batch or online process, that has been coded to use the notification feature, generates message object data when certain conditions are met. For example, the reservations process in PeopleSoft Inventory sends message data when someone uses the Shortage Workbench to unreserve quantity on a

material stock request. The PeopleSoft process provides several values to the notification framework, including:

- Where to log the message (any combination of the Notification Dashboard, PeopleSoft Worklist, email, XML notification, and custom action).
- The message set and message number.
- User roles, user IDs, email addresses, or PeopleSoft nodes needed to route the message to the correct location.
- Links to the PeopleSoft page where the transaction can be viewed or resolved.

The Notification Registry page is reviewed for the specific process name and process category to determine if:

- Overrides were turned on at the system-level and business unit level for worklist, email, or XML notifications.
- A custom action was created.
- A pre-processing user exit was created.

The PeopleSoft system then checks to see if override values have been entered at the business unit level using the BU-Level Notifications page. The business unit level values override the values provided by the PeopleSoft process.

If there are no entries on the BU-Level Notifications page for this process name and process category, then the PeopleSoft system checks to see if the values have been overridden at the system level using the System-Level Notifications page. The system-level values override the values provided by the PeopleSoft process.

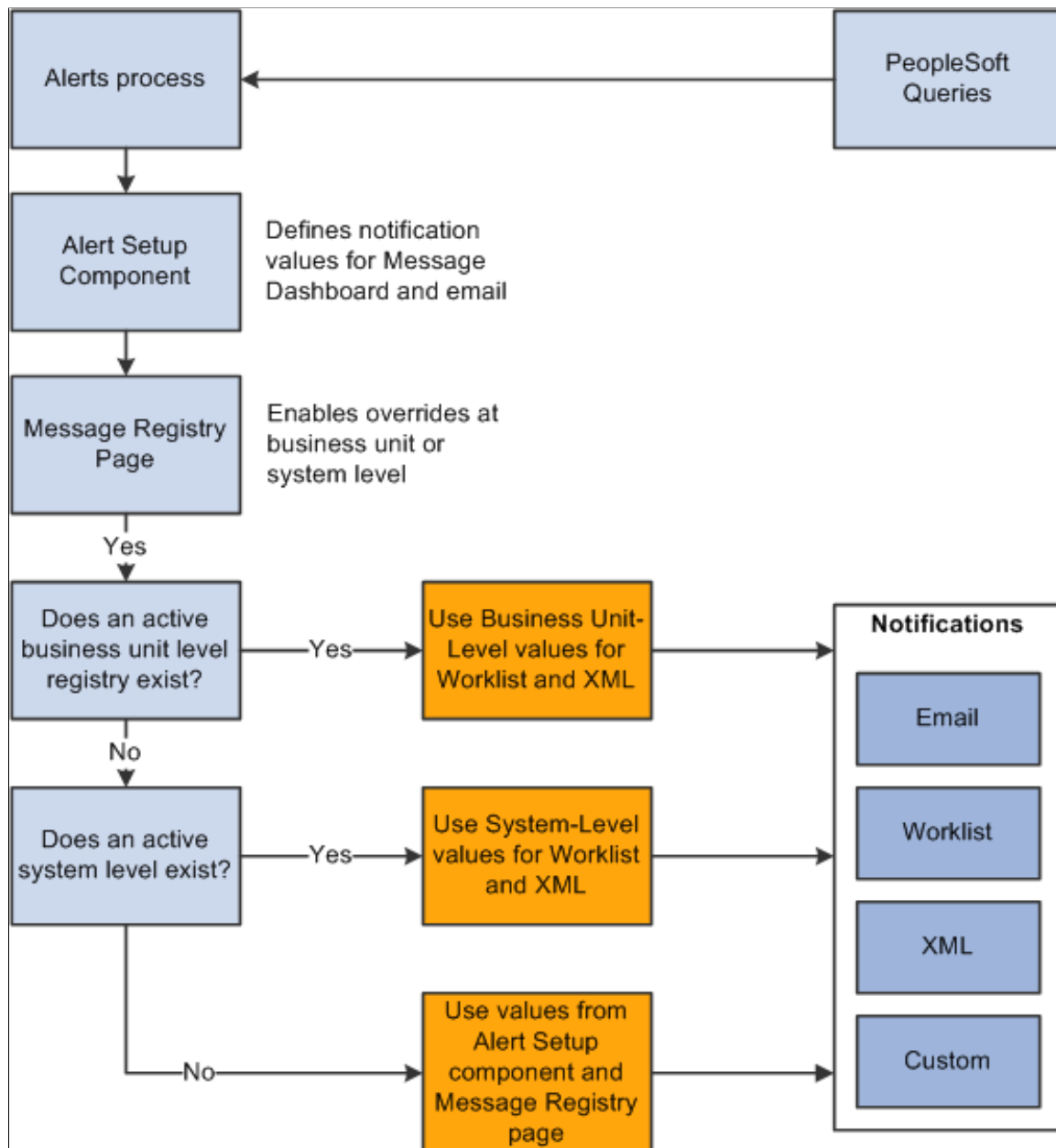
The messages are posted to the Notification Dashboard and other locations based on the values used. If the notification is sent using an email or a worklist entry, a link is provided to take the individual to the message detail page of the Notification Dashboard.

Note: Integration Broker must be configured and active for the Notification and Events framework to function.

The Process Flow of Alert Messages Generated by a PeopleSoft Query

Image: Generating Alert messages from a PeopleSoft Query

This diagram illustrates the process flow of notifications produced by a PeopleSoft Query in combination with the Alert feature. The Alert process is run for one or more PeopleSoft Queries. If issues are found, then message object data is generated using the values included in the Alert Setup component, the BU-Level Notifications page, or the System-Level Notifications page. The appropriate person is notified using the Notification Dashboard page, an email, a worklist entry, or an XML message.



One or more PeopleSoft Queries are run using the Alerts process page.

Values are collected from the Alert Setup component, the BU-Level Notifications page, or the System-Level Notifications page based on process name, process category, and query name. These values include:

- Where to log the message (any combination of the Notification Dashboard, PeopleSoft Worklist, email, and XML notification).

- The message set and message number.
- User roles, user IDs, email addresses, or PeopleSoft nodes needed to route the message to the correct location.
- Links to the PeopleSoft page where the transaction can be viewed or corrected.

You must use the Notification Registry page to enable the overrides for the process name and process category.

The Alert Setup component defines values for the Notification Dashboard, email and Worklist notifications. The BU-Level Notifications page or the System-Level Notifications page define values for the PeopleSoft email, Worklist and XML notifications. If there are no entries on the BU-Level Notifications page for the process name and the process category, then the PeopleSoft system checks to see if the values have been defined at the system level using the System-Level Notifications page.

The message is posted to the Notification Dashboard and other locations based on the values used. If the notification is sent using an email or a worklist entry, a link is provided to take the individual to the message detail page of the Notification Dashboard.

Chapter 3

Setting Up Notifications

Understanding Notification Setup

The Notification setup steps are:

1. Use the Notification Registry page to identify the notifications to be used and to enable any overrides at the system or business unit levels. In addition, the Notification Registry page can create custom actions or allow a pre-processing user exit.
2. Use the System-Level Notifications page to override information from the message that determines who should be notified (user, user role, email address, or node) and how they should be notified (worklist, email, or XML notification). You can also disable worklist, email, or XML notifications. These overrides are applied for the process name and process category combination to the entire PeopleSoft system.
3. Use the BU-Level Notifications page to override information from the message that determines who should be notified (user, user role, email address, or node) and how they should be notified (worklist, email, or XML notification). You can also disable worklist, email, or XML notifications for a specific business unit. These overrides are applied for the process name, process category, and business unit combination. Values at the business unit level override any system-level overrides.
4. Set up and activate the EOEN Notify Message to enable the PeopleSoft Integration Broker to send a message to a third-party system using a XML-formatted messages.

Additional steps are necessary if you are modifying a PeopleSoft process to generate new messages or are using PeopleSoft Query to monitor PeopleSoft tables.

Understanding System and Business Unit Level Overrides

A notification message includes values used to build the message, such as:

- Where to log the message (any combination of the Notification Dashboard, PeopleSoft Worklist, email, and XML notification).
- A message set and message number. (optional)
- User roles, user IDs, email addresses, or PeopleSoft nodes needed to route the notification message to the correct location.
- Links to the PeopleSoft page where the transaction can be viewed or corrected.

The values are obtained from the PeopleSoft process generating the notification or in the case of Alerts from the Alert Setup component, BU-Level Notifications page, and System-Level Notifications page.

For notifications that are not Alerts, you can override the values from the initial PeopleSoft process in order to accommodate a temporary change or permanently provide more specific values using:

- System-Level Notifications page.
- BU-Level Notifications page.

System-level notifications are defined by the process name and the category and enable you to override the notification for the entire system. For example, if Bob receives all of the notifications for the OM_PEGGING / RECEIPT process and he goes on an extended vacation, you can set up an override at the system level to route all of these specific messages to Steve.

Business unit-level notifications are defined by the process name, the category, and the business unit and enable you to override the notification at the business unit level. For example, if the notifications for the OM_PEGGING / RECEIPT process need to be specific to the inventory warehouse, you can set up an override at the business unit level to route all of the messages for business unit US001 to Steve and to route all of the messages for business unit US008 to Ralph.

When you set up system and business unit level notification overrides, you determine who should be notified when a notification occurs and how they should be notified. As with most default hierarchies in the PeopleSoft system, the more specific information overrides the more general information. In this case, if values are defined at both levels for the same process name and category, then the values defined at the business unit level (BU-Level Notifications page) override the values defined at the system-level (System-Level Notification page).

Setting Up the Notification Registry and Override Pages

This section discusses how to set up notification registry and override pages.

Pages Used to Set Up the Notification Registry and Registry Notification Pages

<i>Page Name</i>	<i>Definition Name</i>	<i>Usage</i>
Notification Registry Page	EOEN_NTF_REGISTRY	Set up the notification registry to identify the notifications to be used and to enable any overrides at the system or business unit levels. In addition, the Notification Registry page can create custom actions or allow a pre-processing user exit.
System-Level Notifications Page	EOEN_NTF_REG_SYS	Set up system-level notifications, which define overrides at the system level for each process name and process category.
BU-Level Notifications Page	EOEN_NTF_REG_BU	Set up business unit level notifications, which define overrides at the business unit level for each process name, process category, and business unit.

Notification Registry Page

Use the Notification Registry page (EOEN_NTF_REGISTRY) to set up the notification registry to identify the notifications to be used and to enable any overrides at the system or business unit levels.

In addition, the Notification Registry page can create custom actions or allow a pre-processing user exit.

Navigation

Enterprise Components > Events & Notifications > Notifications Framework > Notifications Registry

Image: Notification Registry page

The notification registry contains all delivered processes and categories. If you have customized your system with additional processes and categories, you must add them to the Notification Registry page

Notification Registry

Process Name

Process Category

*Description

▼ **Description**

Allow Users to Override...

☒ Worklist & Push Notifications

☒ Email Notifications

☒ XML Notifications

▼ **Enable Custom Action**

☒ Enable Custom Action

Application Class Path

Application Class ID

▼ **Pre-Processing User Exit**

Application Class Path

Application Class ID

Process Name

Enter or view the process using notifications. This field can contain an application batch or online process. For Alert notifications, a user-defined value is entered in this field.

Process Category

Enter or view the category. The category is a logical partition of the Process Name.

For PeopleSoft processes, the category names are defined when the process is developed. For example, when the Reservation process runs, multiple messages are related to item ID. All of these item ID-type messages are grouped into one category so that one user can be notified when a message occurs. For each delivered process, the PeopleSoft system has categories that are delivered with the PeopleSoft product.

Description

Enter or view the extended description for this notification message by process name and category combination.

Allow Users to Override

Select the appropriate check boxes Worklist & Push Notifications, Email Notifications, and XML Notifications to enable overrides at the system and business unit levels for this notification message. If you do not allow overrides then the notification method and destinations contained in the notification will always be used. If there are no notification methods or destinations in the notification then the notification dashboard will be the only way to view the notification.

Enable Custom Action

For PeopleSoft processes, select Enable Custom Action, to enable a customized action. Use this option if you have written your own application class for a customized action. Enter the Application Class Path and Application Class ID fields, which are extensions of the EOEN_MVC:MODEL:EOEN_PostProcessingUserExit class.

Pre-Processing User Exit

For PeopleSoft processes, enter the Application Class Path and Application Class ID fields. A preprocessing user exit tells the system to run another process before it determines who to notify. For example, a purchase order approval process is created that is based on the purchase order value. Purchase orders under 500.00 USD are approved by the department manager, and purchase orders over 500.01 USD are approved by the department director. The preprocessing user exit tells the system to run the purchase order approval process before determining who to notify. The preprocessing user exits are extensions of the EOEN_MVC:MODEL:EOEN__PreProcessingUserExit class.

System-Level Notifications Page

Use the System-Level Notifications page (EOEN_NTF_REG_SYS) to set up system-level notifications, which define overrides at the system level for each process name and process category.

Navigation

Enterprise Components > Events & Notifications > Notifications Framework > Notifications System Overrides

Image: System-Level Notifications page

This example illustrates the fields and controls on the System-Level Notifications page. You can find definitions for the fields and controls later on this page.

System-Level Notifications

Delete

Process Name EOEN_ALERT

Process Category CUSTOMEMAIL

☐ Disable All Notifications

Notifications

☐ Disable Worklist Notification

☐ Disable Push Notification

Override Worklist and Push

Role Name

User ID

☐ Disable Email Notification

Override Email Notification

Personalize | Find | View All | First 1 of 1 Last

Email OptionEmail Address

Address

☐ Disable XML Notifications

Override XML Notification

Node Name

The Override Notification sections of this page are determined by the options selected on the Notification Registry page.

Disable All Notifications	Select to disable all notifications for this message.
	<div>Note: Notifications will still be posted to the Notification Dashboard.</div>
Disable Worklist Notification	Select to disable only worklist notifications for this message.
Disable Push Notification	Select to disable only push notifications for this message
Role and User ID	Select a role or a user ID for the worklist notification. This determines the person to notify for this message.
	<div>Note: If the Worklist Notifications check box is selected on the Notification Registry page and the Role field or the User ID field are blank on the System-Level Notifications page and the BU-Level Notifications page, then the worklist notification for the original message object (either User ID or Role) is used.</div>
Disable Email Notification	Select to disable only email notifications for this message.
Email Option	Select <i>Address</i> or <i>UserID</i> for the email notification. Depending on which option you select, the field to the right will change

to *Email Address* or *User ID*. You may add multiple rows if needed.

Note: If the Email Notifications check box is selected on the Notification Registry page and you do not enter an Email Address on the System-Level Notifications page or the BU-Level Notifications page, then the Email Address notification for the original message object is used.

Disable XML Notification

Select to disable only XML notifications for this message.

Node

Select the node name for the XML notification.

Note: If the XML Notifications check box is selected on the Notification Registry page and you do not enter a Node on the System-Level Notifications page or the BU-Level Notifications page, then the XML notification (node) for the original message object is used.

Note: The delivered notifications contained in some PeopleSoft processes are controlled by the owner of the transaction. For example, notification messages for pegging purchase orders goes to the buyer on the purchase order. Therefore, overriding notifications at the business unit level or system level is not enabled.

BU-Level Notifications Page

Use the BU-Level Notifications page (EOEN_NTF_REG_BU) to set up business unit level notifications, which define overrides at the business unit level for each process name, process category, and business unit.

Navigation

Enterprise Components > Events & Notifications > Notifications Framework > Notifications BU Overrides

Image: BU-Level Notifications page

This example illustrates the fields and controls on the BU-Level Notifications page. You can find definitions for the fields and controls later on this page.

BU-Level Notifications Delete

Process Name EOEN_ALERT

Process Category CUSTOMEMAIL

Business Unit GBIBU

☐ Disable All Notifications

Notifications

☐ Disable Worklist Notification ☐ Disable Push Notification

Override Worklist and Push

Role Name 🔍

User ID 🔍

☐ Disable Email Notification

Override Email Notification Personalize | Find | View All | First 1 of 1 Last

Email Option	Email Address
Address ▼	<input type="text"/> + -

☐ Disable XML Notifications

Override XML Notification

Name of node in 🔍
Tree Manager

The BU-Level Notifications page operates exactly like the System-Level Notifications page except that it enables you to specify a business unit as a key for notifications. Values defined at the business unit level (BU-Level Notifications page) override the same values defined at the system-level (System-Level Notification page).

Related Links

[System-Level Notifications Page](#)

Setting Up Notifications Using XML Messages

The Notify Message enables the PeopleSoft Integration Broker to send a message to a third-party system using a XML-formatted messages. The notification framework can publish an outbound message using the Notify Message (EOEN_NOTIFY_MSG) service operation to notify an external system that an error or warning has occurred in the PeopleSoft system.

Setting Up the Notify Message

PeopleSoft delivers the service operation EOEN_NOTIFY_MSG with a default status of *Inactive*. You must activate each service operation before attempting to send or receive data from a third-party source or another PeopleSoft system, such as CRM.

For more information, refer the product documentation .

Using the Pre-Defined Notifications

Several PeopleSoft processes are delivered with the ability to produce notification messages. These notifications are displayed on the Notification Registry page.

Use the Notification Registry page, BU-Level Notifications page, and System-Level Notifications page to customize who should be notified (user, user role, email address, or node) and how they should be notified (worklist, email, XML notification, or custom action).

Some PeopleSoft applications deliver processes with pre-defined coding to generate notification messages, refer to the specific application documentation for a list of delivered processes and categories in the Notification Registry.

Modifying PeopleSoft Processes to Create Notifications

This section discusses how to modify PeopleSoft processes to generate notifications. Not all PeopleSoft processes are delivered with the ability to produce notifications. Your IT department can alter a batch and online process to generate notifications based on your needs.

Once you have added a new process name and process category to the Notification Registry page, you can customize a PeopleSoft process to send notifications.

Follow these steps to add to the notification registry:

1. Add your process name and category to the Notification Registry page.
 - a. Add the description and long text description, which describes the functionality of the message that is logged into the registry so that you can assign the appropriate user to the notification classification.
 - b. Disable any notification feature that your application does not allow you to override at the system and business unit levels.

These notifications are handled within the object interface directly.

2. Create a message context record to pass all transactional data through the message framework.
 - a. All context records must include the EOEN_LOG_KEY subrecord.
 - b. Any additional transactional fields can be added to the context record.
3. Implement the EOEN interface object within your application process by using the EOEN_MVC:EOEN_MODEL.EOEN_INTERFACE class.

For more information, see

Setting Up Events

Understanding Event Setup

To implement Event Manager into your application processing:

1. Identify the business events that drive the execution of your business logic and, if necessary, define a new event.

In many cases, the event is already defined in the local event registry that is accessible through the Event Registry component. If the event is not yet defined, you must define a new business event. To define a new event:

- a. Create an Application Package in PeopleTools Application Designer.

This Application Package is a container for your Handler application classes. It needs to contain a sub-package named *Handlers* with individual application classes under it for each Handler you wish to register.

- b. Register the event to the Event Manager framework through the Event Registry component.

2. Write the event handlers in PeopleTools Application Designer to execute the business logic that is specific to the event.

To develop an event handler, create an Application Class with a method named `ProcessEvent()` that includes the Event Manager interface code that is provided in this topic. Event handlers can be for one or more business events.

3. Register the event handlers to the event through the Event Registry component.
4. Test your event and its registered event handlers.

To test event handlers and events:

- a. Test the event handler in standalone mode through the Handler Tester component.

Note: This test method does not require Integration Broker to be running.

- b. Test the event independent of the business process that raises the event through the Event Tester component.

Note: This test method requires Integration Broker to be up and running.

- c. Test the event in the context of the business process by executing the business process that raises the event through the component or PeopleTools Application Engine process.

The Event Manager framework automatically executes the registered event handlers for an event when you raise the business events.

Understanding Event Handlers

Business events are the functions in a business environment, such as adding a person, changing an employee's compensation rate, terminating an assignment, promoting an employee, and so on. After the events are created, you register events in the Event Registry component. Event handlers are modules of business logic that react to instances of particular events to which they are registered. You must register event handlers to events so that the Event Manager framework executes the event handlers whenever the event is raised.

You can assign multiple event handlers to a single business event, and you can assign a single event handler to react to multiple events. When defining events in the Event Registry component, you can assign event handlers to function in either synchronous mode or asynchronous mode with respect to the process that raises the associated event. When a process raises a registered event, the Event Manager framework determines whether the event handlers that are registered to that event are synchronous or asynchronous. If an event handler is synchronous, the Event Manager framework executes that event handler inline as part of the process that raises the event. If the event handler is asynchronous, the Event Manager framework executes the event handler as a detached process that is out of the critical path of the mainline process. You can register both synchronous and asynchronous event handlers concurrently to the same event. The Event Manager framework executes the registered event handlers in whichever mode you configure them to operate, always executing synchronous event handlers first. When defining event handlers for registry in multiple events, you should include some code in the event handler to examine the Name property of the passed-in event object so that you know which type of event caused the event handler to be executed.

The Event Manager framework is based upon a simple notify and respond model. For the notification side, the Event Manager framework broadcasts that event has occurred, along with the data that caused the creation of the event instance. For the respond side, the individual applications link business logic into the Event Manager framework to respond to the business event. By linking PeopleTools Application Classes to the event in the Event Registry component, the Event Manager framework knows when to execute the registered event handlers for the event when the event is raised.

An event handler that fails during execution causes a disruption to the execution of any other event handlers for that event or the mainline process. The Event Manager framework therefore provides many options for monitoring and troubleshooting event handlers and events. You can monitor event instances and the executions and exceptions of the event handlers through the Event Monitor component or the Event Summary component. You can also test event handlers and events outside of the mainline business process through the Handler Tester component and the Event Tester component.

Local and Remote Nodes

The Event Manager framework enables you to manage events that have influence over more than one database instance. You can use the Event Manager framework to process business events that occur on either a local or remote database (also called a node). A remote node can execute only event handlers that are implemented locally and registered to events in its local event registry. For example, an event that is raised in an HCM database might be important to a separate PeopleSoft Enterprise Learning Management (ELM) database or a PeopleSoft Financials database.

The Event Manager Framework is currently not integrated with the Service Oriented Architecture (SOA) distributed registry. Instead, each database has its own local event registry. Within a local event registry, you can define events that you can raise by local process as well as events of interest to applications on the local database that are raised by remote databases. To support the processing of an event in a remote database, remote databases must implement the Event Manager framework. Also, each local event registry must contain entries for the remote events of interest along with their associated local event handlers.

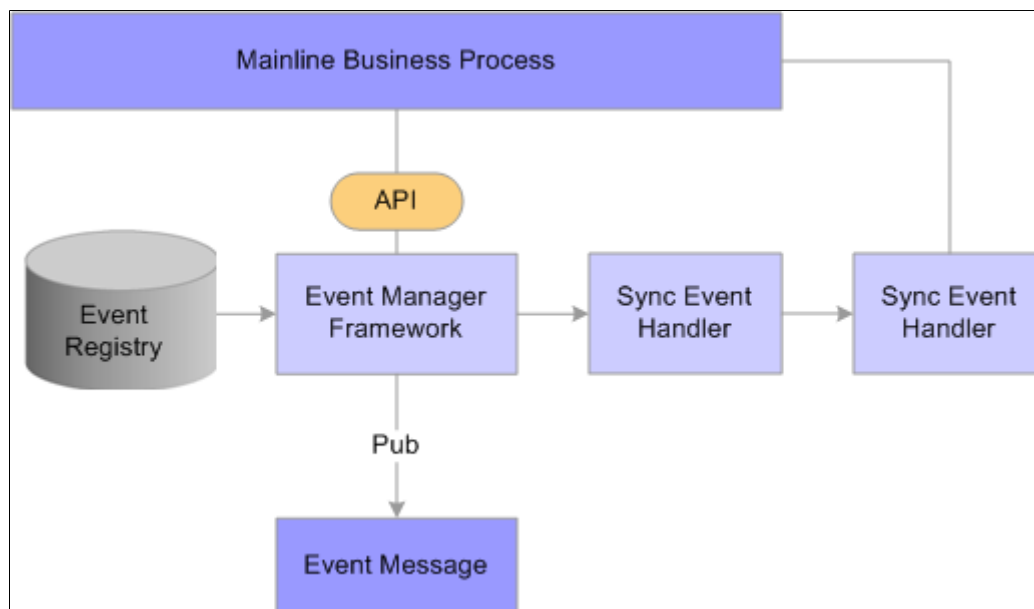
From the perspective of the Event Manager framework, virtually no difference exists between the way that asynchronous handlers are supported for remote events and local events. You register event handlers to events in the event registry, configuring the Event Manager framework to execute event handlers for events that are raised in the local database, a remote database, or both types of databases. Thus, a single event handler can respond to instances of the same event that are raised on the local database as well as a remote database.

Event handlers for remote events are by definition asynchronous. Thus, on the local database the Event Manager framework executes these remote events only after completing the execution of synchronous handlers that you have registered for the event.

Example: Local Event with Synchronous Event Handlers

Image: Local event with synchronous handlers

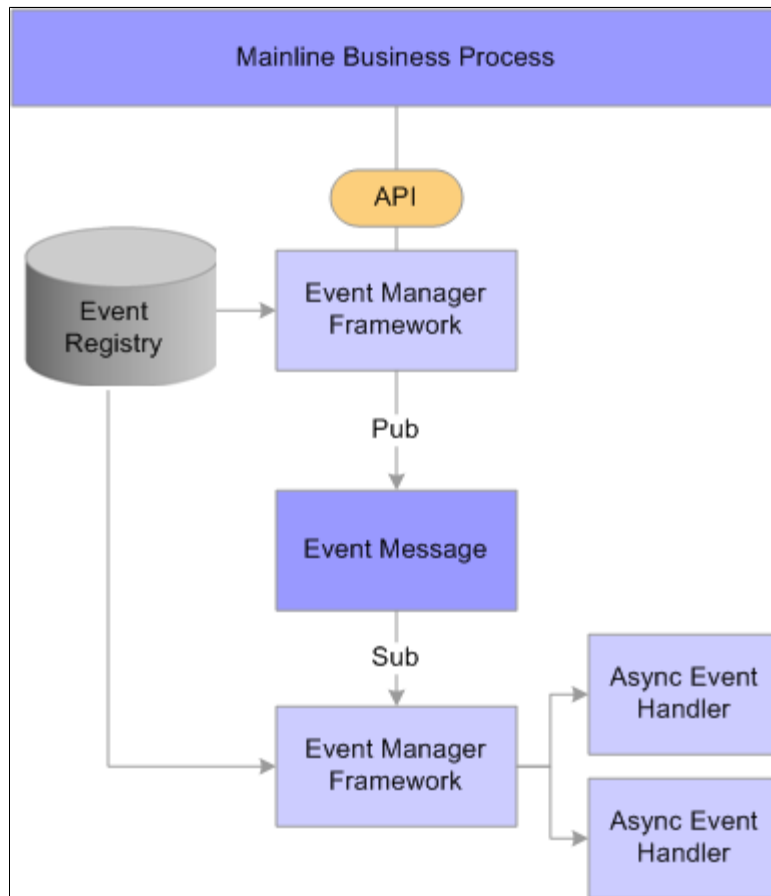
This example illustrates the processing of a mainline business process on a local database using an event with two registered synchronous event handlers. In this scenario, the mainline business process calls the application program interface (API) for the Event Manager framework to raise the event. The framework executes inline the two event handlers in order, publishes the generic PeopleTools Integration Broker event message, and then returns processing control back to the mainline business process.



Example: Local Event with Asynchronous Event Handlers

Image: Local event with asynchronous handlers

This example illustrates the processing of a mainline business process on a local database using an event with two registered asynchronous event handlers. In this scenario, the mainline process calls the API for the Event Manager framework to raise the event. The framework immediately publishes the generic PeopleTools Integration Broker event message, and returns processing control back to the mainline process without delay. A normal PeopleTools Integration Broker local subscription picks up the generic event message and invokes the framework to execute the asynchronous event handlers that are registered to the event.



Example: Local Event with Both Synchronous and Asynchronous Event Handlers

This example illustrates the processing of a mainline business process on a local database using an event with two registered synchronous handlers and two registered asynchronous event handlers. In this scenario, the mainline process waits while the Event Manager framework executes the synchronous event handlers. The Event Manager framework executes the asynchronous event handler as detached processes launched by the local subscription to the generic PeopleTools Integration Broker event message.

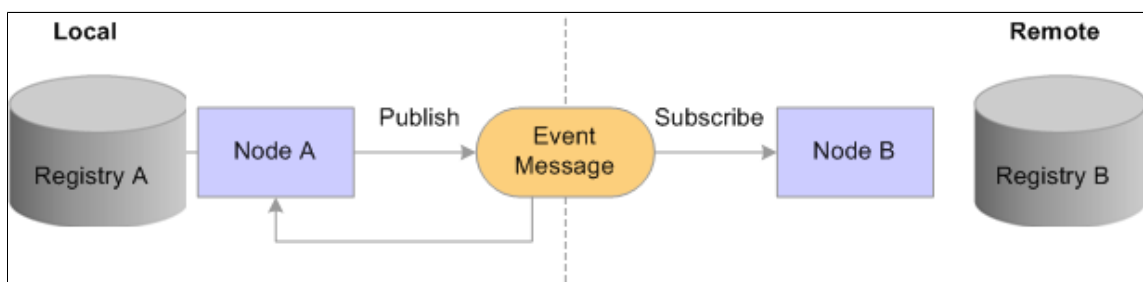
Example: Remote Event

Image: Remote Event

This example illustrates event processing that spans across local and remote databases.

In Registry A, the event has both registered synchronous and asynchronous event handlers. The event handler that is registered to this event is set for a local source. When the event is raised in Registry A, the Event Manager framework logs the event (if it is configured for logging), publishes the generic event message, executes synchronous event handlers that are registered to the event, and then subscribes locally to the generic event message to execute asynchronous event handlers that are registered locally to the event.

Registry B has the same event active in its local event registry. The event handler that is registered to this event is set for a remote source. Because Registry B subscribes remotely to the same event message that Registry A publishes, Registry B logs the occurrence of the event and then executes the registered asynchronous handler.



Defining and Registering Events

To register business events and their event handlers, use the Event Registry (EOEN_EVENT_REG) component.

This section provides an overview of new events and discusses how to define and register events.

Pages Used to Define and Register Events

Page Name	Definition Name	Usage
Define Events Page	EOEN_EVENT_REG	Register the business events that you want to be able to raise within the Event Manager framework.
Registered Handlers Page	EOEN_EVENT_REG2	Register event handlers to the selected business event. The Event Manager framework executes event handlers according to the rules that you specify on this page whenever it receives notification that the specified type of event has been raised.

Understanding New Events

Occasionally, you need to create new events that you can raise in the system for use by the Event Manager framework. As stated in the overview, the first step is to identify the business events that drive the execution of your business logic and, if necessary, define a new event. Recall that to define a new event you must:

- Create a new application package for a new event in PeopleTools Application Designer.
- Register the new event to the Event Manager framework through the Event Registry component.

If you want to register a new event handler to an existing business event, you can bypass this step.

Define Events Page

Use the Define Events page (EOEN_EVENT_REG) to register the business events that you want to be able to raise within the Event Manager framework.

Navigation

Enterprise Components > Events & Notifications > Event Framework > Event Registry

Image: Define Events page

This example illustrates the fields and controls on the Define Events page. You can find definitions for the fields and controls later on this page.

The screenshot shows the 'Event Manager - Registry' page with the 'Define Events' tab selected. The form includes the following fields and controls:

- Event Name:** AssignmentTerminated
- *Event Status:** Active (dropdown menu)
- *Description:** Assignment (Job) Terminated
- *Description (Long):** An assignment (Empl Rcd) has been terminated for a person. This event is raised when the HR Status is set to (I) nactive.
- Logging Enabled:** ☐ (checkbox)

Event Name

The system displays the name of the business event that you want to be able to raise within the Event Manager framework. If you are adding a new business event, enter the name of the event when accessing the component through the Add mode.

Event Status

Select whether the status of the event is *Active* or *Inactive*. The system only raises events in the local database that are active. Note that the system ignores inactive events that are raised in remote databases.

Description and (Long) Description

Enter a short and long description of the business event. The system uses the short description in search pages. You should provide enough detail of the business event in the long

description so that anyone accessing the event knows what it represents.

Logging Enabled

Select to have the system write a row to a log table for each instance of this event. The system writes to the log each time that this event is raised in the local database. For events that are raised in remote databases, the system writes to the local log each time it receives a generic event message for this event.

Registered Handlers Page

Use the Registered Handlers page (EOEN_EVENT_REG2) to register event handlers to the selected business event.

The Event Manager framework executes event handlers according to the rules that you specify on this page whenever it receives notification that the specified type of event has been raised.

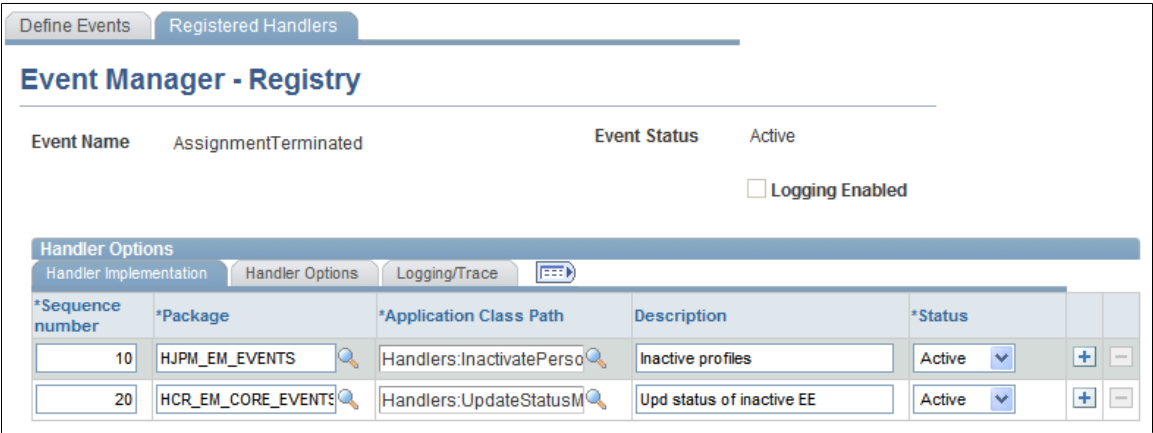
Navigation

Enterprise Components > Events & Notifications > Event Framework > Event Registry

Select the Registered Handlers tab.

Image: Registered Handlers page, Handler Implementation tab

This example illustrates the fields and controls on the Registered Handlers page, Handler Implementation tab. You can find definitions for the fields and controls later on this page.



The number of different events to which you can register a particular event handler is not restricted.

Handler Implementation

Sequence number

Enter a number to indicate the sequence in which the system executes the registered handlers when this event is raised. The execution sequence is important when more than one event handler is registered to an event.

Note: The sequence of event handler execution is relative to other event handlers that are operating in the same mode, either synchronous or asynchronous.

Sys Data (system data)

If this check box is selected, then PeopleSoft Human Resources delivers the event handler registration for this event as system data. You should not modify this system data unless PeopleSoft Human Resources instructs otherwise.

Package

Select the root application package that contains the application class for the event handler. The application class can reside within any application package; however, the application class must reside under a sub-package named *Handlers*.

Application Class Path

Select the application class that implements the event handler. The system displays as possible values all application classes that reside within the selected package as part of the *Handlers* subpackage.

Description

For information purposes, enter a short description of what the event handler does.

Status

Select whether the status of the event handler is *Active* or *Inactive*. The system executes event handlers that are in *Active* status only when this event is raised.

Handler Options**Event Source**

Select the source from which you want the system to execute the event handler for this event. The Event Manager framework supports both local and remote events.

Possible values are:

- *Local & Remote:* Select to have the system execute the event handler for instances of this event that are raised in either the local database or remote databases.
- *Local Only:* Select to have the system execute the event handler for instances of this event that are raised in the local database only.
- *Remote Only:* Select to have the system execute the event handler for instances of this event that are raised in remote databases only.

Handler Mode

Select the mode by which you want the system to execute the event handler for this event. This setting applies only to events that are raised in the local database.

Possible values are:

- *Asynchronous:* Select to have the system execute the event handler as a detached or background process. The

process that raises the event *does not* wait for all registered asynchronous event handlers to execute.

- *Synchronous*: Select to have the system execute the event handler inline with the business process that raises the event. The process that raises the event *does* wait for all registered synchronous event handlers to execute.

Note: The Event Manager framework always executes synchronous handlers before asynchronous handlers, regardless of the values that you specify in the Order column.

Logging/Trace

Logging

Select how you want the system to log execution of event handlers. This option applies only if you select the Logging Enabled check box for the selected event on the Define Events page.

Possible values are:

- *All*: Select to log every execution of this event handler. This option is available only if you select the Event Logging check box for the event of the Define Events page.
- *Errors*: Select if you want to log execution of this event handler only when the execution fails. If you select this option for the event handler but do not enable logging for the event, then if the event handler fails, the system creates an event log entry along with the event handler log entry.
- *None*: Select if you do not want to log execution of this event handler.

Trace

Select to include trace/debug entries in the execution log for this event handler. Use this option for debugging the event handler. This option is available only if you select to log all exceptions of the event handler by selecting the *All* value in the Logging field.

Creating Event Handlers

An event handler is the application-specific code that responds to a particular type of event. You must register event handlers to events so that when an event is raised, the Event Manager framework executes the appropriate event handlers.

Requirements for Creating Event Handlers

To be compatible with the Event Manager framework, when creating event handlers, you must implement all business logic for the event handlers to abide by the following set of standards and code requirements:

- You must implement the entry point to the event handler in a method named `ProcessEvent()` within an application class.

The Event Manager framework executes the `ProcessEvent()` method whenever the associated event is raised. Within the `ProcessEvent()` method, you are free to reference or execute code in other methods, classes, or function libraries. This application class can be an extension of any other application class if necessary.

- You can create the event handler in any new or existing application package within your application, but you must create the event handler under the *Handlers* subpackage.
- The application class and the application package that it resides in must be owned by the application, not the Event Manager framework.
- You must import the `baseEvent` class definition from the Event Manager framework application package into the application class that implements the event handler.

The `ProcessEvent()` method in the application class of the event handler receives as an input parameter an instance of this `baseEvent` class object.

- If you want to be able to communicate detailed errors, warnings, or any other messages back to the Event Manager framework, then you must populate the `HandlerStatus` property with appropriate entries.

The `HandlerStatus` property is a complex property that is part of the `baseEvent` object that the Event Manager framework makes available to the event handler. The structure of this property is defined by `EOEN_EVENT_MANAGER:Base:baseEvent`. The property contains both an overall status indicator and an exception array. The Event Manager framework examines the contents of this property after executing this class and takes appropriate action.

The `HandlerStatus` complex type also carries a method that facilitates appending an entry to the `ExceptionArray` structure. This method is named `AddException()` and takes as an argument the structure defined by `EOEN_EVENT_MANAGER:Base:Types:ExceptionType`.

Note: If event logging is enabled, the Event Manager framework automatically creates an exception entry that lists the event data that was made available to the event handler. The system displays the event data in the pages of the Event Monitor component. If event logging is not enabled in the registry an exception entry containing the data for the event is created only if the `Handler ExecutionStatus` is set to *F* (Fail). This is done to allow re-processing of the event from the Event Monitor.

The structure within the `HandlerStatus` property is:

- `ExecutionStatus` (string – values "S"uccess, "F"ail)
- `ExceptionArray` (array):
 - `EXCEPTION_TYPE` (string – values "E"xception, "K"eys, "T"race)
 - `MESSAGE_SET_NBR` (number)
 - `MESSAGE_NBR` (number)
 - `MSG_SEVERITY` (string – values "M"essage, "W"arning, "E"rror)
 - `MESSAGE_TEXT` (string)

EXPLAIN_TEXT (string)

Details of the baseEvent Class

When the Event Manager framework invokes the baseEvent class, it passes the baseEvent class into the ProcessEvent() method of the application class of the event handler. This enables you to use the properties and methods of the base class to obtain more information about the event instance to direct internal processing of the event.

This table lists public properties of the event object that are of interest to application developers who are implementing the Event Manager framework:

Public Properties	Description
EventName	A string that is populated with the name (type) of the event instance. Examples are "AssignmentTerminated", "PersonAdded", and so on. If you are registering the same event handler to multiple events but these events have slightly different logic depending upon the exact event that is being processed, you can use this property to control your processing.
EventID	A numeric that is populated with the unique serial number that identifies this event instance for an originating node. Generally, event handlers do not have any need for this property. The event handler uses this property primarily inside the framework for audit and monitoring purposes.
ContextRecord	The context record associated with the event.
HasContextRecord	A Boolean set to True if the raised event has a context record.
IsLocal	A Boolean set to True if the event was raised by an activity in the local database. (The term <i>local</i> is relative to the domain in which the event handler code is executing).
EventNode	A string that is populated with the node name of the database in which the activity that raised the event occurred.
HandlerTraceEnabled	A Boolean that indicates whether the user wants the current event handler to create trace and debug information in the event handler log.
EventLoggingEnabled	A Boolean that indicates whether the user wants the current event to create event logging information in the event log. Must be set to true if Event Handler logging is desired.

Public Properties	Description
HandlerLoggingSwitch	A Boolean that indicates whether the user wants the current event handler to create event handler log information in the event log.

Event Handler Skeleton Code

You can use the following skeleton code as a starting point when building an event handler class:

```
import EOEN_EVENT_MANAGER:Base:baseEvent;
import EOEN_EVENT_MANAGER:Base:Types:ExceptionType;

class MyHandlerClass
  /** Dummy Constructor. */
  method MyHandlerClass();
  /** Process Event. */
  method ProcessEvent(&inEvent As EOEN_EVENT_MANAGER:Base:baseEvent);
end-class;

method MyHandlerClass
end-method;

method ProcessEvent
  /+ &inEvent as EOEN_EVENT_MANAGER:Base:baseEvent +/

  Local Record &recContext;

  /* the following lines are required only if you want to pass detail information
     about Errors, Warnings or other messages back to the Event Framework */
  Local EOEN_EVENT_MANAGER:Base:Types:ExceptionType &myExceptionType =
    create EOEN_EVENT_MANAGER:Base:Types:ExceptionType();

  If Not &inEvent.HasContextRecord Then
    &myExceptionType.MESSAGE_SET_NBR = 18137;
    &myExceptionType.MESSAGE_NBR = 6509;
    &myExceptionType.MSG_SEVERITY = "E";
    &myExceptionType.MESSAGE_TEXT = MsgGetText(18137, 6509,
      "no message found", &inEvent.EventID, &inEvent.EventNode);
    &myExceptionType.EXPLAIN_TEXT = "";
    &inEvent.HandlerStatus.AddException(&myExceptionType);

  Else
    /*===== */
    /* ----- Business Logic goes here ----- */
    /*===== */
  End-If;
end-method;
```

Addressing Errors and Warnings

During execution, an event handler might encounter errors, warnings, or other issues that a user needs to be made aware of. In most cases, you want to pass this information back to the Event Manager framework so that users can view the information through the Monitor Events component. Although you do not have to pass this information back to the Event Manager framework, the more information that you do pass back, the easier it is for the administrator to resolve the problem.

The Event Manager framework uses a simple exception-array scheme to receive status information that is passed back to it from an event handler and subsequently displays that information in the Monitor Events component. The structure of the exception array is the same as the structure of a message in the message catalog. It contains a message set number, message number, severity level, message text, and

explanation text in each row of the array. The message set number and message number are significant only if the information that you want to pass back to the Event Manager framework is described in a Message Catalog entry. If not, you can leave these two properties blank and just populate the message text, explanation text, and severity properties.

As mentioned previously, the event object that is passed into your event handler contains a complex property that is used to communicate the status of your event handler. At a minimum, you should populate the overall-status simple property with either (S)uccess or (F)ail prior to quitting your ProcessEvent() method. If you do not populate the overall status property, the Event Manager framework assumes that the event handler executed successfully. PeopleSoft recommends that you pass back information through the exception array of the complex property, although this is optional. For example, if the event object is passed into your handler as `&inEvent`, you populate the overall status property as:

```
&inEvent.HandlerStatus.ExecutionStatus = "S";
/* Handler terminated successfully */
```

You never have to deal directly with the exception array that is embedded in the event object that the event handler receives. Instead, whenever you want to add an item to this array, you call the AddException() method, thus passing in an object that the system has already populated with exception information. This object that you pass in is an instance of the ExceptionType TypeClass. This class has the following properties:

- Message Set Number
- Message Number
- Message Severity
- Message Text
- Explain (Long) Text

The following example shows how to add a message to the exception array for a message that does not come from the Message catalog, assuming that the event object is passed into your event handler as `&inEvent`:

```
&myExceptionType = create EOEN_EVENT_MANAGER:Base:Types:ExceptionType();
&myExceptionEntry.MESSAGE_SET_NBR = 0;
&myExceptionEntry.MESSAGE_NBR = 0;
&myExceptionEntry.MSG_SEVERITY = "M";
&myExceptionEntry.MESSAGE_TEXT = "Hello World!";
&myExceptionEntry.EXPLAIN_TEXT = "";

&inEvent.HandlerStatus.AddException(&myExceptionType);
```

For a Message Catalog entry, you must include the message set number and the message number. You must also retrieve the text and explain text from the Message Catalog because substitution tokens might be involved that the Event Monitor framework cannot pass or resolve.

Note: If you use the AddException() method to create an exception array entry with the MSG_SEVERITY property set to (E)rror, then the system automatically sets the overall execution status indicator for the event handler to (F)ail. This means that you do not need to separately set the overall status property.

Note: The Event Manager framework executes all event handlers that you register to an event. If a particular event handler fails, the Event Manager framework still executes the remaining event handlers that are registered to the event. The Event Manager framework can catch exceptions that an event handler raises rather than terminating before it has finished executing all of the registered event handlers. However, the Event Manager framework does not contain any exception processing or error handling subsystems, and because of this you must ensure that event handler code does not raise an exception that the Event Manager framework cannot catch. One such exception is the PeopleCode error statement. Therefore, you must never raise an exception for an error statement in your event handler. Otherwise, the Event Manager framework stops and does not execute any remaining event handlers that are registered to the event.

Component Interface and SOA Service Exceptions

If you have PeopleSoft Human Resources two additional exception methods are available: Component Interfaces (CIs) and Service Oriented Architecture (SOA) services. The Event Manager framework therefore provides assistance to facilitate passing exceptions from these sources back to the Event Manager framework and ultimately into the Event Monitor component.

The system displays exceptions that are raised by CIs or SOA services on the Handler Exceptions page of the Event Monitor component, much like any other exceptions that are written to the log. For severity information, the system prefaces the message with “[CI]” or “[SOA]”, respectively.

The structure of the event-handler exception log is similar to the exception structure within PeopleTools for CIs and within the SOA framework for SOA services. Essentially, you must pass these exceptions back to the Event Manager framework when they arise. Two methods are available within the Event Manager framework that enable you to do this easily. One method is:

```
HandlerStatus.AddCIException(&arrExceptions as array of Record, &Severity as
string)
```

This method copies all exceptions from a standard CI exception array to the exception log of the event handler according to the specified severity of the exception. Severity codes are (E)rror, (W)arning, and (M)essage.

You can specify multiple severity codes by concatenation. Thus, if you want to copy both errors and warnings, then specify a severity code of EW. A blank severity code causes the copying of all exceptions regardless of severity.

The structure of the exception array that is passed into this method is identical to the exception array that the FUNCLIB_CI version of the standard HCM CI wrapper uses. This is an array of Record.CI_EXCEPTIONS. If you're using the FUNCLIB_CI wrapper, you can pass the exception array that you use with those functions into this method.

If you are calling a CI directly, then you need to first ensure that you have instructed PeopleTools to redirect CI exceptions from the screen to the %Session.PSMessages object. Then, you need to copy the items from PSMessages into an array of Record.CI_EXCEPTIONS so that these exceptions can be passed into this method.

Another method is:

```
HandlerStatus.AddSOAException(&inException As
HMCR_TYPES:ExceptionTypes:ExceptionType_v1_0:ExceptionType)
```

This method copies all exceptions from a standard SOA exception type structure to the exception log of the event handler.

When invoking SOA services, the system always executes them in a try/catch block. Typically, the event handler executes the services and catches certain defined exceptions that arise. A catch-all exception always catches any exceptions that have not been specifically called out.

SOA exceptions differ slightly from CI exceptions in that when invoking an SOA service, you manage only one (if any) exception. The exception that you pass into this method is the exception structure that you catch in your try/catch block.

The following example shows an SOA service invocation passing exceptions back to the Event Manager:

```
*      try
*          &MyService.MyServiceManager.LocateService(&ServiceName);
*          &MyService.DoService();
*          catch <NamedException1> &e1
*              &myEvent.HandlerStatus.AddSOAException(&e1.ServiceException);
*              --- other exception processing ---
*          catch <NamedException2> &e2
*              &myEvent.HandlerStatus.AddSOAException(&e2.Service
*              Exception);
*              --- other exception processing ---
*          . . .
*          catch HMCR_FRAMEWORK:ServiceFramework:baseClasses:baseException
*              &e0
*              &myEvent.HandlerStatus.AddSOAException(&e0.Service
*              Exception);
*              --- other exception processing ---
*      end-try
```

In this code, the items appearing as <NamedExceptionX> represent the application-specific exceptions that are registered in the SOA registry. These are exceptions that are known to be thrown by the indicated SOA service. The class named HMCR_FRAMEWORK:ServiceFramework:baseClasses:baseException is for the catch-all exception, defining the shape of the generic SOA exception.

Providing Trace/Debug Information

The Registered Handlers page of the Event Registry component provides a Trace check box to indicate whether to write trace/debug information to the execution log of the event handler. This functionality is available only when you set the Logging field for the event handler to the *All* value.

When you select the Trace check box, the event handler produces trace/debug in the handler execution log. The amount of trace/debug information that the system writes to the log is determined by the developer of the event handler. Generally, you must provide enough information so that anyone examining the event handler log can trace the path of the execution that the event handler has taken.

The system makes the selected value of this check box available to the event handler using the HandlerTraceEnabled Boolean property of the event. When this property is True, the event handler creates trace/debug entries in the exceptions structure. PeopleSoft software provides the following method to make the creation of these entries easier:

```
&myEvent.HandlerStatus.AddTraceEntry(&Heading, &Detail);
```

In the preceding code, &Heading is the string that appears as the first line of the entry, and &Detail is a long string containing whatever detailed trace/debug information you want to create.

The system displays the trace/debug information in the Event Monitor component.

No fixed rules are associated with the trace/debug entries that the event handler generates. This is a judgement call. You should provide whatever entries you think are useful to debug or troubleshoot the event handler code.

Create trace/debug entries only when the `.HandlerTraceEnabled` property is `True`. Thus, the code looks similar to:

```
If &myEvent.HandlerTraceEnabled Then
    &myEvent.HandlerStatus.AddTraceEntry("Method ABC() ",
"No data returned for: " | &Emplid);
End-If;
```

Testing Event Handlers and Events

This section provides an overview of event testing.

Pages Used to Test Event Handlers and Events

Page Name	Definition Name	Usage
Event Manager - Test an Event Handler Page	EOEN_HNDLR_TEST	Execute a single event handler as a standalone process without raising an event. Use this feature for testing and debugging event handlers.
Event Manager - Raise an Ad-Hoc Test Event Page	EOEN_EVENT_TEST	<p>Raise a selected business event that you have defined on an ad hoc basis without invoking the business process that normally raises the event. This enables you to test events without having to perform the business operation that normally raises the event.</p> <p>Execute a single event handler as a standalone process without raising an event. Use this feature for testing and debugging event handlers.</p>

Understanding Event Testing

Generally in a production environment, you raise events by making a change to application data through a component or by running a PeopleTools Application Engine process. When the event is raised, the Event Manager framework executes the event handlers registered with the event as defined in the Event Registry component. When testing events, you should begin at the lowest level, which is the event handler, and then work your way up to the highest level, which is the business process that raises the event. Thus, to test events:

1. Test the event handler in standalone mode through the Handler Tester component.
2. Test the event independent of the business process that raises the event through the Event Tester component.
3. Test the event in the context of the business process by executing the business process that raises the event through the component or PeopleTools Application Engine process.

Event Manager - Test an Event Handler Page

Use the Event Manager - Test an Event Handler page (EOEN_HNDLR_TEST) to execute a single event handler as a standalone process without raising an event.

Use this feature for testing and debugging event handlers.

Navigation

Enterprise Components > Events & Notifications > Event Framework > Handler Tester

Image: Event Manager - Test an Event Handler page

This example illustrates the fields and controls on the Event Manager - Test an Event Handler page. You can find definitions for the fields and controls later on this page.

Name	Value	Type	Length
EP_APPRAISAL_ID	1	"123"	8
EP_ROLE	a	"ABC"	8
EP_REVIEWER_ID	b	"ABC"	11

Event

Select the event to which the event handler that you want to execute is registered. Event handlers must always execute within the context of an event.

Record

When you select an event, the system also allows you to select a record to provide data for the event. Typically, this is the record in the database from which a data change normally raises the event. However you can select a different record. The record must have the same keys as the record that normally raises the event. After you select a record the fields from the record are populated on the page with fields to enter values, expected types and lengths. Enter your sample data for your Event Test in the value fields and click the Execute button.

The system displays in the Registered Handlers group box the event handlers that are registered with the selected event in the local database through the Event Registry component.

Registered Handlers

This group box displays the event handlers that you have registered with the selected event in the Event Registry component.

Execute

Click to execute the selected event handler. Before you can execute an event handler, you must select the event, record, and event handler and enter the event data that you want to pass to the event handler. You can execute only one event handler at a time.

The system executes the event handler immediately regardless of any settings in the Event Registry component. When testing an event handler through this page, the system does not raise an event, publish the generic PeopleTools Integration Broker message, or generate log entries.

The system displays the status of the event handler execution to the left of this button and displays any exceptions that the event handler creates in the Handler Exceptions group box directly on this page.



Indicates that you have not yet executed the event handler.



Indicates successful execution of the event handler.



Indicates that the system executed the event handler with a fatal error.

Handler Exceptions

Use this group box to view results of the event handler execution. The system displays event keys, exceptions, and trace information that is associated with the execution of the event handler.



The system displays the event data that the system used during the execution of the event handler. At a minimum, the system displays the event data in the Handler Exceptions group box after execution of the event handler.



The system displays the exception information that the system generated during execution of the event handler.



The warnings that the system generated during execution of the event handler.



The errors that the system generated during execution of the event handler.



The trace information that the system generated during execution of the event handler.

Event Fields

Use this group box to enter values for each of the fields that are part of the selected event and record. These are the values that the system passes into the event handler during the test. The system does not perform any validation on the data that you enter in the Value fields. Be sure to enter the correct format for data values and use uppercase or lowercase values for character data as appropriate. The system makes this data available to the event handlers as the Context Record for the Event.

Event Manager - Raise an Ad-Hoc Test Event Page

Use the Event Manager - Raise an Ad-Hoc Test Event page (EOEN_EVENT_TEST) to raise a selected business event that you have defined on an ad hoc basis without invoking the business process that normally raises the event.

This enables you to test events without having to perform the business operation that normally raises the event. Execute a single event handler as a standalone process without raising an event. Use this feature for testing and debugging event handlers.

Navigation

Enterprise Components > Events & Notifications > Event Framework > Event Tester

Image: Event Manager - Raise an Ad-Hoc Test Event page

This example illustrates the fields and controls on the Event Manager - Raise an Ad-Hoc Test Event page. You can find definitions for the fields and controls later on this page.

Event Manager - Raise an Ad-Hoc Test Event

Event
Record

PerformanceDocCompleted
EP_APPR_ROLE

Raise Event
Launch Event Monitor

Registry Info

Event Status
Active

☒ Logging Enabled

Event Handler	Mode	Logging	Status
EP_EVENTS:Handlers:PerformanceDocCompleted	Async	None	Active

Event Fields

Name	Value	Type	Length
EP_APPRAISAL_ID		"123"	8
EP_ROLE		"ABC"	8
EP_REVIEWER_ID		"ABC"	11

Event

Select the event that you want to raise. You can only raise events that are active in the local event registry. If you are unsure of the

status of an event, select the event in the Event field and click the Event Info button.

Record

When you select an event, the system allows you to select a record to provide data for this event. Typically, this is the record in the database from which a data change normally raises the event.

The system displays the Event Fields grid so that you can enter data to pass to the event.



Click the Event Info button to view select information from the Event Registry component about the selected event and its registered event handlers. The system displays the Registry Info group box, which contains the event details.

Raise Event

Click this button to have the Event Manager framework raise the event with the specified event data.

The system processes the event and executes all active event handlers that you have registered to the event exactly as if you have raised it from the normal business process such as through a component or PeopleTools Application Engine process.

The system displays a message below the Record field indicating whether you have successfully raised the event. This message also includes the event ID on the local node and, for multichannel events, the event channel.

Launch Event Monitor

After you raise the event, click this link to view the execution status of the raised event. The system launches the Event Monitor component in a new browser window and automatically displays information for this particular event instance.

Registry Info

Use this group box to view select information from the Event Registry component about the selected event and its registered handlers. The system displays this group box only if you select an event and click the Event Info button. To change any of this data, you must access the Event Registry component for the selected event.

Event Fields

Use this group box to enter values for each of the event fields that are part of the event that you are raising. The system does not perform any validation on the data that you enter in the Value fields. Be sure to enter the correct format for data values and use uppercase or lowercase values for character data as appropriate. The system makes these field values available to the event handlers as the context record for the event.

Raising Events

After you determine that an occurrence of the business event exists that the event in the Event Manager framework represents, you can raise the event in the Event Manager framework.

The Event Manager framework provides an API that creates and raises events. The API code is:

```
import EOEN_MVC:EOEN_MODEL:EOENInterface;
Local EOEN_MVC:EOEN_MODEL:EOENInterface &myEvent;
    Local Record &recContext;

    &myEvent = create EOEN_MVC:EOEN_MODEL:EOENInterface("", 0);

    &recContext = &rsContextRec(1).GetRecord(Record.CONTEXT_REC);
    &myEvent.AddContextRecord(&recContext);
    &myEvent.RaiseEvent("EventName");
```

Pass the name of the event to the Event Interface, which returns an instance of the event object. Add the context record and then execute the RaiseEvent method on the event object.

Important! Instantiating an event object does not automatically raise the event. You must invoke the event's RaiseEvent method to raise the event and initiate subsequent Event Manager framework processing.

In the following example, assume that we have created an event called AssignmentMilitaryRankChanged. This event represents the business event of assigning or updating the military rank of a person's assignment (Job record) instance. Whenever the rank attribute of the assignment (Job record row) changes, we want to raise the event. Here is the pseudocode to add to the JOB_MIL.MIL_WORN_RANK:SavePostChange PeopleCode event for the Job component:

```
import EOEN_MVC:EOEN_MODEL:EOENInterface;

/*****
/* FUNCTION:      GetPriorRank
/* Inputs:        &rsJOB As Rowset, &CurrentRow as number
/* Returns:       none
/*
/* Get Prior Worn Rank
*****/
Function GetPriorRank(&rsJOB As Rowset, &CurrentRow As integer, &PRIOR_ROW As integer, &PRIOR_RANK As string);

    Local date &PRIORDT = Date3(1900, 1, 1);
    Local integer &PRIORSEQ = 0;
    Local date &JOB_Effdt = &rsJOB(&CurrentRow).JOB.EFFDT.Value;
    Local integer &JOB_Effseq = &rsJOB(&CurrentRow).JOB.EFFSEQ.Value;
    Local integer &i;

    &PRIOR_ROW = 0;
    &PRIOR_RANK = " ";
    For &i = 1 To &rsJOB.RowCount;
        Local date &FETCH_EFFDT = &rsJOB(&i).JOB.EFFDT.Value;
        Local integer &FETCH_EFFSEQ = &rsJOB(&i).JOB.EFFSEQ.Value;
        If (&FETCH_EFFDT < &JOB_Effdt Or
            (&FETCH_EFFDT = &JOB_Effdt And
             &FETCH_EFFSEQ < &JOB_Effseq)) And
            (&FETCH_EFFDT > &PRIORDT Or
             (&FETCH_EFFDT = &PRIORDT And
              &FETCH_EFFSEQ > &PRIORSEQ)) Then
            &PRIORDT = &FETCH_EFFDT;
            &PRIORSEQ = &FETCH_EFFSEQ;
            &PRIOR_ROW = &i;
```

```

        End-If;
    End-For;
    If &PRIOR_ROW > 0 Then
        &PRIOR_RANK = &rsJOB(&PRIOR_ROW).GetRowset(Scroll.JOB_MIL)(1).JOB_MIL.MIL_WOR→
N_RANK.Value;
    End-If;
End-Function;

/*****
/* FUNCTION:      RaiseMilitaryRankEvent
/* Inputs:        JOB_MIL rowset, Current row
/* Returns:       none
/*
/* Check if MilitaryRankEvent event should be raised
/* if a change has been done:
/*   - Worn rank changed
/*   - Row deleted and the worn rank is different from the previous one
/*   - Row inserted and the worn rank is different from the previous one
/* the event will be raised
*****/
Function RaiseMilitaryRankEvent(&rsJOB As Rowset)
    If INSTALLATION.MILITARY = "Y" Then
        Local integer &PRIOR_ROW;
        Local string &PRIOR_RANK;
        Local boolean &RaiseEvent = False;
        Local integer &i;

        For &i = 1 To &rsJOB.RowCount
            /* Get current Job row and Worn Rank value */
            Local Row &rowJOB = &rsJOB.GetRow(&i);
            Local Rowset &rsJOB_MIL = &rowJOB.GetRowset(Scroll.JOB_MIL);
            /*****
            /* Rank has been updated */
            *****/
            If &rsJOB_MIL(1).JOB_MIL.MIL_WORN_RANK.IsChanged Or
                (&rowJOB.JOB.EFFDT.IsChanged And
                 Not &rowJOB.IsNew) Then
                If All(&rsJOB_MIL(1).JOB_MIL.MIL_WORN_RANK.Value) Then
                    &RaiseEvent = True;
                    Break;
                End-If;
            Else
                /*****
                /* New JOB row */
                *****/
                If &rowJOB.IsNew Then
                    /* Get previous Rank */
                    GetPriorRank(&rsJOB, &i, &PRIOR_ROW, &PRIOR_RANK);
                    If &PRIOR_ROW > 0 Then
                        If &rsJOB_MIL(1).JOB_MIL.MIL_WORN_RANK.Value <> &PRIOR_RANK And
                            All(&rsJOB_MIL(1).JOB_MIL.MIL_WORN_RANK.Value) Then
                            &RaiseEvent = True;
                            Break;
                        End-If;
                    Else
                        /* No previous Rank */
                        If All(&rsJOB_MIL(1).JOB_MIL.MIL_WORN_RANK.Value) Then
                            &RaiseEvent = True;
                            Break;
                        End-If;
                    End-If;
                Else
                    /*****
                    /* JOB row has been deleted */
                    *****/
                    If &rowJOB.IsDeleted Then
                        /* Get previous Rank */
                        GetPriorRank(&rsJOB, &i, &PRIOR_ROW, &PRIOR_RANK);
                        If &PRIOR_ROW > 0 Then
                            If &rsJOB_MIL(1).JOB_MIL.MIL_WORN_RANK.Value <> &PRIOR_RANK An→

```



```

d
    All (&rsJOB_MIL(1).JOB_MIL.MIL_WORN_RANK.Value) Then
        &RaiseEvent = True;
        Break;
    End-If;
Else
    /* No previous Rank */
    If All (&rsJOB_MIL(1).JOB_MIL.MIL_WORN_RANK.Value) Then
        &RaiseEvent = True;
        Break;
    End-If;
End-If;
End-If;
End-If;
End-If;
End-For;
If &RaiseEvent Then

    Local EOEN_MVC:EOEN_MODEL:EOENInterface &myEvent;
    Local Record &recContext;

    &myEvent = create EOEN_MVC:EOEN_MODEL:EOENInterface("", 0);

    &recContext = &rsJOB_MIL(1).GetRecord(Record.JOB_MIL);
    &myEvent.AddContextRecord(&recContext);
    &myEvent.RaiseEvent("AssignmentMilitaryRankChanged");
End-If;
End-If;
End-Function;

If GetLevel0() (1).GetRowset(Scroll.JOB).GetRow(CurrentRowNumber(1)).RowNumber = 1 Then
    RaiseMilitaryRankEvent(GetLevel0() (1).GetRowset(Scroll.JOB));
End-If;

```

The lines in the preceding code that deal with the action of raising the event are:

```

Local EOEN_MVC:EOEN_MODEL:EOENInterface &myEvent;
Local Record &recContext;

&myEvent = create EOEN_MVC:EOEN_MODEL:EOENInterface("", 0);

&recContext = &rsJOB_MIL(1).GetRecord(Record.JOB_MIL);
&myEvent.AddContextRecord(&recContext);
&myEvent.RaiseEvent("AssignmentMilitaryRankChanged");

```

Important! During the course of raising an event, the framework causes certain tracking and logging information to be stored in the database. Because of this, events can be raised only from PeopleCode events that normally allow database updates. More specifically, events can be raised only from SavePreChange, SavePostChange, and Workflow PeopleCode events.

Monitoring Events

This section discusses how to monitor events.

Pages Used to Monitor Events

Page Name	Definition Name	Usage
Event Manager - Monitor Page	EOEN_EVENT_MON	Review the status of raised or processed business events and their associated event handler executions.
Event Monitor - Handlers Page	EOEN_EVENT_MON2	Review the details of registered event-handler executions on the local node for a selected event instance.
Event Monitor - Handler Exceptions Page	EOEN_EVENT_MON3	View the data, exceptions, and trace information that the selected event handler logged during execution and passed back to the Event Manager framework.

Event Manager - Monitor Page

Use the Event Manager - Monitor page (EOEN_EVENT_MON) to review the status of raised or processed business events and their associated event handler executions.

Navigation

Enterprise Components > Events & Notifications > Event Framework > Event Monitor

Image: Event Manager - Monitor page

This example illustrates the fields and controls on the Event Manager - Monitor page. You can find definitions for the fields and controls later on this page.

Event Manager - Monitor

Find Event Node

Last

☒ Display Event Data

Event Instances							Customize Find View 100	First 1-8 of 831 Last
Node	Event ID	Event Name	Event Created	User ID	Event Data	Handlers		
PSFT_HR	8826	JPMProfileUpdated	01/20/2009 3:46PM PST	SAMPLE	<div> <div>RECORD_NAME</div> <div>JPM_PROFILE</div> </div> <div> <div>JPM_PROFILE_ID</div> <div>210007</div> </div> <div> <div>DESCR</div> <div>Terry Anne Donaldson</div> </div> <div> <div>JPM_JP_PRFL_STATUS</div> <div>A</div> </div> <div> <div>JPM_PROFILE_USAGE</div> <div>P</div> </div> <div> <div>EMPLID</div> <div>HOWS003</div> </div> <div> <div>JPM_LGCY_PRFL_ID</div> <div></div> </div> <div> <div>JPM_JP_TYPE</div> <div>PERSON</div> </div> <div> <div>JPM_OWNER_EMPLID</div> <div></div> </div> <div> <div>STATUS_DT</div> <div>2000-01-02</div> </div>	Handlers		

Search Criteria

Enter the search criteria for retrieving event instances. At a minimum, you must select at least one criterion to retrieve results. Use the remaining fields to narrow your search results.

Find Event	Select the event from the local Event Registry component for which you want to review event instances.
Last	Specify the time period in which the event was raised. For remote events, this is the time period in which the event appeared in the local node. In the first box, specify a numeric quantity. Then select a time qualifier: <i>Days</i> , <i>Hours</i> , or <i>Minutes</i> .
Node	Select a node name to limit the search results to event instances of raised events within a specific node.
Refresh	Click to refresh the list of event instances after changing any of the search criteria.
Display Event Data	Select to display the event data for each event instance. The system displays the Event Data column in the Event Instances grid.

Event Instances

Review the logged event instances that meet your search criteria. The system displays instances for only the events and event handlers that you have configured in the local Event Registry component to be logged. You set the logging option for an event by selecting the Logging Enabled check box for an event on the Define Events page. Note that the process that raises the event waits for all registered synchronous event handlers to execute.

Node	The system displays the node from which the event instance was raised.
Event ID	The identification code of the event. The combination of this value and the node value uniquely identify the event instance on the originating node.
Event Name	The event name.
Event Created	The date and time that the event was raised in the source database (node). The system displays the time zone for this field because events could be raised in a node that operates in a time zone that differs from the local node.
User ID	The ID of the user that raised the event. This field is applicable only to event instances that are raised in the local database.
Event Data	The data for the event instance. To view the data, you must select the Display Event Data check box.
Handlers	Click this link for a specific event instance to access the Event Monitor - Handlers page, where you can view information about

the registered event handlers that were executed on the local node for the selected event instance.

Event Monitor - Handlers Page

Use the Event Monitor - Handlers page (EOEN_EVENT_MON2) to review the details of registered event-handler executions on the local node for a selected event instance.

Navigation

Enterprise Components > Events & Notifications > Event Framework > Event Monitor

Click the Handlers link for an event instance on the Event Manager - Monitor page.

Image: Event Monitor - Handlers page

This example illustrates the fields and controls on the Event Monitor - Handlers page. You can find definitions for the fields and controls later on this page.

Event Monitor - Handlers			
Event	JPMProfileUpdated	Created	01/20/2009 3:46PM PST
Msg Node	PSFT_HR	Processed	01/20/2009 3:46PM PST
Event ID	8826		
Handler Executions			
Customize Find 		First	1 of 1
Event Handler	Handler Executed	Status	Exceptions
HJPM_EM_EVENTS:Handlers:UpdateVerityIndex	01/20/2009 3:46PM	✓	
Navigation			
Return to Event Instances			

The system displays information for only the event handlers that you have configured to log executions. To log event handler executions, you must set the Logging option for a specific event handler and event combination on the Registered Handlers page.

The upper portion of the page displays information about the selected event instance that caused the event handler execution as well as the date and time that the local node began processing the event. For local events, the Processed date and time is generally the same as the date and time that the event was created. For remote events, the Processed date and time indicates when the local node received notification of the remote event from PeopleTools Integration Broker.

Handler Execution

This grid lists the event handlers that the system executed on the local database in response to the selected event instance.

If no event handler execution information is available, the system displays an informative message that indicates the possible reasons why no information is available. Possible reasons are that no event handlers are registered for the selected event, no event handlers are configured to log execution for the selected event, no synchronous event handlers are registered for the selected event and PeopleTools Integration Broker has not yet executed any asynchronous event handlers, or no event handlers executed for the event.

Event Handler

The system displays the full path of the application class that implements the event handler.

Handler Executed

The system displays the date and time that the system executed the event handler.



The system displays the event instance data.



The system displays information about the event handler exceptions.



The system displays the event handler exception warnings.



The system displays the event handler exception errors.



The system displays event-handler trace information. To view trace information, you must select the Trace check box on the Registered Handlers page for this event handler and event combination.

Event Monitor - Handler Exceptions Page

Use the Event Monitor - Handler Exceptions page (EOEN_EVENT_MON3) to view the data, exceptions, and trace information that the selected event handler logged during execution and passed back to the Event Manager framework.

Navigation

Enterprise Components > Events & Notifications > Event Framework > Event Monitor

Click the Handlers link for an event instance on the Event Manager - Monitor page.

Click the Display Exceptions button on the Event Monitor - Handlers page.

Image: Event Monitor - Handler Exceptions page

This example illustrates the fields and controls on the Event Monitor - Handler Exceptions page. You can find definitions for the fields and controls later on this page.

Event Monitor - Handler Exceptions

Event	JPMProfileUpdated	Created	01/20/2009 3:46PM PST
Msg Node	PSFT_HR	Processed	01/20/2009 3:46PM PST
Event ID	8826		

Handler	HJPM_EM_EVENTS:Handlers:UpdateVerityIndex
Display	<input type="text" value="All Entries"/>

Event Data

RECORD_NAME: JPM_PROFILE
 JPM_PROFILE_ID: 210007
 DESCR: Terry Anne Donaldson
 JPM_JP_PRFL_STATUS: A
 JPM_PROFILE_USAGE: P
 EMPLID: HOWS003
 JPM_LGCY_PRFL_ID:
 JPM_JP_TYPE: PERSON
 JPM_OWNER_EMPLID:
 STATUS_DT: 2000-01-02
 LASTUPDDTTM: 2009-01-20-15.46.28.000000
 LASTUPDOPRID: SAMPLE
 JPM_SUBSCRIBE: N
 DESCRSHORT: Terry Anne
 DESCRLONG:

The upper portion of the page displays information about the selected event instance that caused the event handler execution as well as the date and time that the local node began processing the event.

Events raised in a remote database are visible in the Event Monitor component only after the local node receives and processes the asynchronous event message, and only if you have enabled logging for the event when registering the event in the local database through the Event Registry component.

Note: If you inactivate the PeopleTools Integration Broker Service Operation for the generic event message, then the local Event Manager framework does not process any remote events and thus no remote events will be visible in the Event Monitor component.

Handler

The system displays the full path of the application class that implements the event handler.

Display

Select a value to filter the type of information that displays on the page.

Possible values are *All Entries*, *Exceptions*, *Event Data*, and *Trace Entries*. The system displays the information that is produced by the event handler in the order in which the event handler produced the information.



The system displays the event instance data.



The system displays information about the event handler exceptions.



The system displays the event handler exception warnings.



The system displays the event handler exception errors.



The system displays event-handler trace information. To view trace information, you must select the Trace check box on the Registered Handlers page for this event handler and event combination.

Viewing Event Summaries

This section discusses how to view the summary of event instances and failed event handlers.

Pages Used View Event Summaries

<i>Page Name</i>	<i>Definition Name</i>	<i>Usage</i>
Event Manager - Event Summary Page	EOEN_EVENT_SUM	View a summary of all the logged event instances in the local database. This is useful for quickly identifying problems, such as researching the cause of failed event-handler executions to determine a resolution.
Event Manager - Failed Handlers Page	EOEN_EVENT_SUM2	View a list failed event handlers across all instances of a selected event and node combination.
Event Manager - Handler Exceptions Page	EOEN_EVENT_MON3	View the exceptions that failed event handlers produced.

Event Manager - Event Summary Page

Use the Event Manager - Event Summary page (EOEN_EVENT_SUM) to view a summary of all the logged event instances in the local database.

This is useful for quickly identifying problems, such as researching the cause of failed event-handler executions to determine a resolution.

Navigation

Enterprise Components > Events & Notifications > Event Framework > Event Summary

Image: Event Manager - Event Summary page

This example illustrates the fields and controls on the Event Manager - Event Summary page. You can find definitions for the fields and controls later on this page.

Event Manager - Event Summary				
The information displayed on these pages reflects the contents of the Event Manager logs. Only those Event instances and Event Handler executions that have been logged appear on these pages.				Refresh
Customize Find View All First 1-12 of 12 Last				
Event Name	Node Name	Event Instances	Handler Executions	Failed Handlers
JPMNonPersonProfileUpdated	PSFT_HR	4	0	0
JPMProfileAdded	HC910TST	77	0	0
JPMProfileAdded	PSFT_HR	479	155	0
JPMProfileItemUpdated	HC910TST	79	0	0

Refresh

Click to refresh the statistics that the system displays on this page. The option to refresh is useful in production environments in which the raising and processing of events occurs frequently.

Summary Grid

Use this group box to review statistics for every event that has logged instances in the local database. The system displays event instances for only the events that are configured for logging through the Event Registry component in the local database. The system groups the logged event instances by event and node combination.

Event Name

The system displays the name of the event for which the system logged event instances for the event and node combination.

Node Name

The name of the originating node from which the system raised the event instances for the event and node combination.

Event Instances

The number of event instances that the system logged for the event and node combination. This equates to the number of times that the system raised the event.

Handler Executions

The total number of event handlers that the system has executed for the corresponding event and node combination.

Failed Handlers

The total number of event handlers that the system executed for the corresponding event and node combination that returned a failed status. The system displays this number as a link. Click the link to access the Event Manager - Failed Handlers page, where you can view a list of failed event handlers across all instances of the event and node combination. From that page you can view the exceptions that the failed event handlers produced.

Event Manager - Failed Handlers Page

Use the Event Manager - Failed Handlers page (EOEN_EVENT_SUM2) to view a list failed event handlers across all instances of a selected event and node combination.

Navigation


Click the Failed Handlers link for an event handler on the Event Manager - Event Summary page.

Image: Event Manager - Failed Handlers page


This example illustrates the fields and controls on the Event Manager - Failed Handlers page. You can find definitions for the fields and controls later on this page.

Event Manager - Failed Handlers

Event RetroPayJobChange

Customize | Find | View All |  

First 1-12 of 14 Last

Event ID	Node Name	Event Created	Event Handler	Handler Executed	
4513	PSFT_HR	08/15/2008 10:28AM	PY_RETROPAY_EVENT:Handlers:UpdateRetroPay	08/15/2008 10:28AM	
4533	PSFT_HR	08/15/2008 10:28AM	PY_RETROPAY_EVENT:Handlers:UpdateRetroPay	08/15/2008 10:28AM	
5344	PSFT_HR	10/20/2008 2:51PM	PY_RETROPAY_EVENT:Handlers:UpdateRetroPay	10/20/2008 2:51PM	

The system lists information about each failed event handler. Click the Details button to access the Event Monitor - Handler Exceptions page, where you can view the exceptions that the failed event handlers produced.

Event Manager - Handler Exceptions Page

Use the Event Monitor - Handler Exceptions page (EOEN_EVENT_MON3) to view the exceptions that failed event handlers produced.

Navigation

Click the Details button for a failed event handler on the Event Manager - Failed Handlers page.


Image: Event Monitor-Handler Exceptions page


This example illustrates the fields and controls on the Event Monitor-Handler Exceptions page. You can find definitions for the fields and controls later on this page.

Event Monitor - Handler Exceptions

Event	RetroPayJobChange	Created	08/15/2008 10:28AM PDT
Msg Node	PSFT_HR	Processed	
Event ID	4513		

Handler	PY_RETROPAY_EVENT:Handlers:UpdateRetroPay
Display	<input type="text" value="All Entries"/>

 Event Data

 Exception Thrown

Function GetPrevEffRow does not return a result. (180,69)
PY_RETROPAY_EVENT.Handlers.UpdateRetroPay.OnExecute Name:GetPrevEffRow PCPC:8020
Statement:100
Called from:PY_RETROPAY_EVENT.Handlers.UpdateRetroPay.OnExecute Name:ProcessEvent
Statement:51

Details for the exception are displayed.

Creating Alerts

Understanding PeopleSoft Queries Within the Alert Framework

PeopleSoft Query can be used in combination with the Events and Notifications Framework feature to generate alert messages based on data within one or more PeopleSoft tables.

Using PeopleSoft Query, you can scan one or more PeopleSoft tables and then generate an alert message for any problems or stalled transactions. The steps to set up alert notifications based on a PeopleSoft Query are:

1. Write the PeopleSoft Query.
2. Use the Notification Registry page to add the new notification. Add the Process Name and Process Category that identifies this specific query/notification. Add a description of the new notification.
3. Use the Alert Setup component to define the values to be included in the alert message. The message object data is defined by the PeopleSoft Query name, the Process Name, and the Process Category. The Alert Setup component contains the values used to build the notifications to the Notification Dashboard and email.
4. Enter the Notification Registry page again to enable overrides. You must select the override check boxes. The values used to build the notifications to the PeopleSoft Worklist and XML messages are defined at the System-Level Notifications page or the BU-Level Notifications page.
5. Use the System-Level Notifications page to define values used to build the notifications to the PeopleSoft Worklist and XML messages. These values determine who should be notified (user role and node) and how they should be notified (worklist and XML notification). These values are applied for the process name and process category combination to the entire PeopleSoft system. If you enter values for email notification, the entries on the Alert Setup component override these values.
6. Use the BU-Level Notifications page to define values used to build the notifications to the PeopleSoft Worklist and XML messages. These values determine who should be notified (user role and node) and how they should be notified (worklist and XML notification). These overrides are applied for the process name, process category, and business unit combination. Values at the business unit level override any system-level overrides. If you enter values for email notification, the entries on the Alert Setup component override these values.
7. For XML notifications, setup and activate the EOEN Notify Message to enable the PeopleSoft Integration Broker to send a message to a third-party system using a XML-formatted messages.
8. Setup the Alerts process run control to query the PeopleSoft tables on a regular schedule.

For more details, refer the product documentation

Defining Alert Queries in PeopleSoft

This section discusses how to define Alerts in PeopleSoft .

The Alerts feature in PeopleSoft uses the Alert Summary and Alert Definition component to setup alerts. The values defined on the Alert Definition component are used to build the notifications sent to the Notification Dashboard, Worklist and to email. The values are defined by the PeopleSoft Query name, the Process Name, and the Process Category. The values include the message set and message number, user IDs and email addresses needed to route the alert message to the correct location, links to the PeopleSoft page where the problem can be viewed or the necessary action can be taken, consolidation of email notifications and the frequency and content of notifications.

Pages Used to Define PeopleSoft Queries for Alerts

<i>Page Name</i>	<i>Definition Name</i>	<i>Usage</i>
<u>Alert Summary Page</u>	EOEN_ALERT_SUMMARY	Provides a single page to view all the alerts, Activate, deactivate or Delete selected alerts, and find the number of transactions for each Alert.
<u>Alert Definition Page</u>	EOEN_ALERT_DEFN	Define the attributes of an alert.
<u>User List Definition</u>	EOEC_UL_DEFN	Create the list of recipients of the alert message.

Alert Summary Page

Use the Alert Summary page (EOEN_ALERT_SUMMARY) to review all the alerts at one place and perform basic actions on the alert such as to activate/deactivate it or to delete it.

Navigation

Enterprise Components >Events & Notifications >Alerts >Alert Summary

Image: Alert Summary Page

Alert Summary page displays all alerts in one page

Alert Summary

Product ID INV

Event Status

Query Name

☒ Retrieve Query Count

Search

Alert Summary								Personalize	Find	View All	First	1-10 of 18	Last
Product ID	Active	Query Name	Process Name	Process Category	Alert Definition	Query Count	Last Date Time						
1 INV	<input checked="" type="checkbox"/>	CM_ACCTG_LN_ERROR	IN_ALERT	CM_ACCTG_LINE_ERROR	Alert Definition	2							Delete
2 INV	<input checked="" type="checkbox"/>	CM_ACCTG_LN_UNPOST	IN_ALERT	CM_ACCTG_LINE_UNPOST	Alert Definition	4							Delete
3 INV	<input checked="" type="checkbox"/>	CM_PENDING_TRANS	IN_ALERT	CM_PENDING_TRANSACTIONS	Alert Definition	37							Delete
4 INV	<input checked="" type="checkbox"/>	INV_BCT_ERRORS	IN_ALERT	IN_BCT_ERROR	Alert Definition	1							Delete
5 INV	<input checked="" type="checkbox"/>	INV_BCT_UNPROCESS	IN_ALERT	IN_BCT_UNPROCESS	Alert Definition	12							Delete
6 INV	<input checked="" type="checkbox"/>	INV_FAILED_PUTAWAY	IN_ALERT	IN_FAILED_PUTAWAY	Alert Definition	288							Delete
7 INV	<input checked="" type="checkbox"/>	INV_TRNSFR_ORD_NOT_REC'D	IN_ALERT	IN_TRANSFER_ORDER_NOT_REC'D	Alert Definition	234							Delete
8 INV	<input checked="" type="checkbox"/>	IN_SDWC_BACKLOG_DUE	IN_SDWC_BACKLOG_DUE	SUP_DMD_ALERTS	Alert Definition	0	02/15/2012 9:32AM						Delete
9 INV	<input checked="" type="checkbox"/>	IN_SDWC_DMD_PASTSHIP	IN_SDWC_DMD_PASTSHIP	SUP_DMD_ALERTS	Alert Definition	315	02/15/2012 9:51AM						Delete
10 INV	<input checked="" type="checkbox"/>	IN_SDWC_INTRANSIT	IN_SDWC_INTRANSIT	SUP_DMD_ALERTS	Alert Definition	0	02/15/2012 10:56AM						Delete

Save

Notify

Product ID	Filter the search with a given product ID.
Query Name	Filter the search with a given query name.
Event Status	Filter the search based on Active/Inactive Alerts.
Retrieve Query Count	This option returns the Query count values with the search results. It can take more time for the search results to be processed and displayed if this option is enabled.
Alert Definition	Takes the user to the Alert Definition page.
Query Count	Displays the current outstanding number of transactions for each alert query.
Last Date Time	Displays the timestamp for the last run Alert

Alert Definition Page

Use the Alert Definition page (EOEN_ALERT_DEFN) to define the attributes of an alert in the PeopleSoft alert framework feature

Navigation

Enterprise Components >Events & Notifications >Alerts >Alert Definition

Image: Alert Definition Page

Alert Definition page allows users to be able to view as well as add and edit all settings related to an alert in one place

Active

Select this check box to activate this PeopleSoft query within the notification feature.

Query Name

Specify a query that is defined in the PeopleSoft Query Manager. Insert additional rows to this component to define additional queries to be used for the notification.

Query Manager

Select this link to go the PeopleSoft Query Manager where you can view a PeopleSoft Query.

Process Name	Enter or view the process for the notifications. The notification is sent to the user based on the setup for the Process Name and Process Category combination.
Process Category	Enter or view the category for the notifications. The category is a logical partition of the Process Name. The notification is sent to the user based on the setup for the Process Name and Process Category combination.
Notification Framework	Select this link to access the Notification framework setup pages.
Product ID	This field enables the Alerts process page to run a group of queries for a particular PeopleSoft product.
Notification Interval (hours)	<p>This field specifies the number of hours between notifications. The Alerts process checks the time interval and the last run date/time stamp to determine whether the notification should be sent.</p> <p>For example without the notification interval feature if the Alert process is run every hour using a query to check for unpaid invoices and the user cannot resolve the issue within one hour, then a repeat notification is issued for the same unpaid invoices. These repeat notifications on the same problems can crowd up a user's email account. If we add a notification interval of 4 hours and the Alert process is run every hour, then the Alert process checks the last run date/time stamp and only sends the notification if 4 hours have past since the last notification.</p> <hr/> <p>Note: Interval does not limit dashboard, worklist and XML notifications. These will always be created regardless of the interval setting.</p> <hr/>
Consolidate Email	Select this check box to consolidate the email notifications from this PeopleSoft query. When this check box is selected, each email address receive one consolidated email notification per query. If this check box is not selected, then each email address receives one email per transaction or problem found.
Default Context Record	Select this check box to use the default context record in the notifications. A context record holds transaction-related information. This information can be accessed in the Notification Dashboard page. You can choose to use the default context record or add a user-defined context record.
Email Subject	The default Email Subject is Alerts - %1, where %1 is the related Alert's Query Name. Users can create new Message Catalog for email subjects as required.
Business Unit Field	Specify which field from the query should be used to map the business unit level setup of the notifications.

Recipients Source

The user can choose to create an alert for a User ID or for a set of users. While choosing User ID for email notifications, specify which field from the PeopleSoft query has the user ID.

Note: If a user ID is entered in this field and you have enabled email notifications, then the email address is derived from the user's profile.

For details on User List, see [User List Definition](#).

Category Type

The push notification category type controls whether the notification should be displayed in Alerts or Actions tab in the Push Notification window in the Fluid page top banner.

URL Type

Allows user to configure the push message URL. There are three options to select from:

- None: The push message will not have any URL attached to it.
- Notification: URL will link the push message to the Notification Dashboard. Notification URL is the default value.
- Transaction: URL will link the push message to the user defined Transaction URL.

Event Name

This is the Push Event server name. Users can select their own predefined server event name.

Message Set Number and Message Number

For email notifications, specify which message defined in the PeopleSoft Message Catalog is used in the notification message.

Message Binds

Parameters setup for the sequence numbers and field names (parameters) for the message.

Portal Object Name

Enter a portal object name to define the URL linking the notification message to the transaction page where the user can review the issue discovered by the query. This URL is placed on the notification message on the Notification Dashboard page as well as in the Worklist and email to the user.

Search Record Fields

Alert search keys or parameters for the transaction page.

When fields from EOEN Query is non-uniqueness, a new field "Source Field" is displayed on the Recipients Source section of Alert Definition page, which can be used to identify the real field.

User List Definition

Use the User List Definition page (EOEC_UL_DEFN) to create the list of recipients of the alert message when using one or more PeopleSoft Queries within the alert framework feature

Navigation

Enterprise Components >Events & Notifications >Alerts >User List Definition

The page is used to set up the user list definition

User List The User List name, also the unique key for the User List definition

Description Description of the User List

User List Source Role, SQL Definition, Query and Application Classes are four types of User List sources being supported.

Image: User List Definition based on Role

User List Definition based on Role

The screenshot shows a web form titled "User List Definition". At the top, it displays "User List TEST_OM_Role". Below this is a text field for "*Description" containing the text "test om role". A section titled "User List Source" contains four radio button options: "Role" (which is selected), "SQL Definition", "Query", and "Application Class". To the right of these options is a text field labeled "Role Name" containing the text "ADMINISTRATOR". At the bottom of the form is a row of six buttons: "Save", "Return to Search", "Previous in List", "Next in List", "Add", and "Update/Display".

If the user list is based on a role, then select the type of role from the Role Name field. A role is a list of users who perform the same type of work.

Image: User List Definition based on SQL Definition

User List Definition based on SQL Definition

User List Definition

User List Test_UL_SQL_OM

*Description Test_UL_SQL_OM

User List Source

☐ Role
☒ SQL Definition
☐ Query
☐ Application Class

SQL Object Identifier EOEN_UL_OM_EDISTUCK

SQL Bind Record OM_EDISTUCK_CTX

Bind Values Personalize | Find | View All | First 1-2 of 2 Last

Bind Sequence	*Bind Value
1	BUSINESS_UNIT
2	MSGNAME

Save Return to Search Previous in List Next in List Add Update/Display

The SQL Definition option allows the user to use an SQL definition as the source for the user list

Note: The SQL must return the OPRID field

SQL Object Identifier

The name of the SQL Object

SQL Bind Record

This is used for setting up the SQL bind field mapping. If the SQL does not have any condition variables, leave this as empty.

Bind Values

These define the Bind value name and sequence for the SQL where clause.

Image: User List Definition based on Query

User List Definition based on Query

The screenshot shows the 'User List Definition' dialog box. At the top, the title is 'User List Definition'. Below it, 'User List' is set to 'Test_UL_Query' and '*Description' is 'test query'. The 'User List Source' section has four radio buttons: 'Role', 'SQL Definition', 'Query' (which is selected), and 'Application Class'. To the right of the 'Query' radio button, the 'Query Name' is 'EOEN_UL_OM_EDISTUCK'. At the bottom, there are several buttons: 'Save', 'Return to Search', 'Previous in List', 'Next in List', 'Add', and 'Update/Display'.

Select this option to use a query as the source for this user list. When a source is defined as a query, the system determines who should receive the Alert Notification based on the field values

Image: User List Definition based on Application Class

User List Definition based on Application Class

The screenshot shows the 'User List Definition' dialog box. At the top, the title is 'User List Definition'. Below it, 'User List' is set to 'Test_AppClass' and '*Description' is 'test app class'. The 'User List Source' section has four radio buttons: 'Role', 'SQL Definition', 'Query', and 'Application Class' (which is selected). To the right of the 'Application Class' radio button, there are two text fields: 'Root Package ID' set to 'EOEC_UL' and 'Application Class Path' set to 'UserListTestAppClass'. Below this, there is a 'User List Attributes' section with a table. The table has three columns: 'Attribute Name', 'Attribute 1', and 'Attribute 2'. There is one row with 'SAMPLE' in the 'Attribute Name' column. To the right of the table, there are buttons for 'Personalize', 'Find', and 'First', '1 of 1', 'Last'. At the bottom, there are several buttons: 'Save', 'Return to Search', 'Previous in List', 'Next in List', 'Add', and 'Update/Display'.

Attribute Name	Attribute 1	Attribute 2
1 SAMPLE		

Use this option to use an application class as the source for this user list

Root Package ID

The root package name for the application class.

Application Class Path

The application class path.

User List Attributes

Additional attributes values can be saved into the record EOEC_UL_ATTRIB. This allows the user to retrieve these values during runtime.

Running the Alerts Process

This section discusses how to set up the Alerts process page to query the PeopleSoft tables on a regular schedule and generate any necessary alert messages.

Page Used to Run the Alerts Process

<i>Page Name</i>	<i>Definition Name</i>	<i>Usage</i>
<u>Alerts Page</u>	RUN_EOEN_ALERT	Enter the run control parameters for the EOEN_ALERT process. This process generates the alert messages from the PeopleSoft queries.

Alerts Page

Use the Alerts page (RUN_EOEN_ALERT) to enter the run control parameters for the EOEN_ALERT process.

This process generates the alert messages from the PeopleSoft queries.

Navigation

Enterprise Components > Events & notifications > Alerts > Run Alerts

Image: Alerts page

This example illustrates the fields and controls on the Alerts page. You can find definitions for the fields and controls later on this page.

Use the EOEN_ALERT process to run the PeopleSoft queries and generate the alert messages based on these queries.

Query Option

Select the PeopleSoft queries to be run. The options are:

- *Run All Queries*: Select to run all PeopleSoft queries defined for the alert notification. When you select this button, the PeopleSoft Product ID field and the Selected Queries group box are disabled.
- *Run Queries for One Product*: Select to run the PeopleSoft queries defined for one PeopleSoft application. Selecting this button, enables a PeopleSoft Product ID field to the right where you can select the PeopleSoft applications defined on the Alert Setup component on the Frequency & Product tab.
- *Run Selected Queries*: Select to run the PeopleSoft queries defined in the Selected Queries group box at the bottom of this page.

Query Name

Identifies one or more PeopleSoft queries linked to the alert notification. This column is used by the Alerts process if the Run Selected Queries button is selected.

Process Name

Enter the process defined for the PeopleSoft query on the Alert Setup component.

Process Category

Enter the category defined for the PeopleSoft query on the Alert Setup component. The category is a logical partition of the Process Name.

Note: The system default process EOEN_ALERT and the Process Category CUSTOMEMAIL should not be edited.

You can view alerts on the Notification Dashboard page (select Enterprise Components > Events & Notifications > Notification Framework > Notification Dashboard).

Image: Notification Dashboard showing Alerts

This example illustrates the fields and controls on the Notification Dashboard showing Alerts. You can find definitions for the fields and controls later on this page.

Notification Dashboard

Search

Process Name:

Date From:

08/21/2009

To:

08/21/2009

Process Category:

Status:

Open

Business Unit:

Worklist User ID:

Search Key Name:

Process Instance:

Search Key Value:

Search

Search Results

Customize | Find | View All | First | 1-2 of 2 | Last

Status	Date Time Added	Process Name	Process Category	Process Sequence	Log Message
Open	08/21/09 10:47:29.000000AM	EOEN_ALERT	CUSTOMEMAIL	4	Alerts - Email Notification
Open	08/21/09 10:46:28.000000AM	USER_LOCKED_ALERT	USER	3	UserID CTAYLOR for Cathy Taylor is locked out (25000.1)

Chapter 6

Using the Notification Dashboard

Searching and Viewing the Notification Dashboard

This section discusses how to search for a message and view message details.

The Notification Dashboard is a central location to view and resolve errors, warnings, and notifications generated by the Events & Notification framework.

Pages Used to Search and View the Notification Dashboard

<i>Page Name</i>	<i>Definition Name</i>	<i>Usage</i>
<u>Notification Dashboard Page</u>	EOEN_NTF_DSH_SRCH	Search for notification messages that were created from a PeopleSoft process or a PeopleSoft Query.
<u>Notification Detail Page</u>	EOEN_NTF_DASH_DTL	View the details of a notification message that was displayed on the Notification Dashboard page.

Notification Dashboard Page

Use the Notification Dashboard page (EOEN_NTF_DSH_SRCH) to search for notification messages that were created from a PeopleSoft process or a PeopleSoft Query.

Navigation

Enterprise Components > Events and Notifications > Notifications Framework > Notifications Dashboard

Image: Notification Dashboard search page

This example illustrates the fields and controls on the Notification Dashboard search page. You can find definitions for the fields and controls later on this page.

Notification Dashboard

Search

Process Name: Date From: To:

Process Category: Status:

Business Unit:

Worklist User ID: Search Key Name:

Process Instance: Search Key Value:

Search Results Customize | Find | View All | First | 1-8 of 8 | Last

Status	Date Time Added	Process Name	Process Category	Process Sequence	Log Message
<input type="button" value="Open"/>	08/14/09 4:41:05.000000PM	USER_ALERT	USER	14	Account for User AMA4 employee # KU0032 is locked (21000,1)
<input type="button" value="Open"/>	08/14/09 4:41:05.000000PM	USER_ALERT	USER	13	Account for User AMARTIN employee # KU0312 is locked (21000,1)

The Notification Dashboard page is used to search for notification messages based on selected search criteria. Select the link in the Log Message column to access the Message Detail page where you can see further details and access the specific PeopleSoft page for correction of the issue.

Selection Criteria group box

The Selection Criteria group box displays the search criteria that you can enter to narrow the display of notification messages.

Process Name

Enter the process that generated the notification messages that you wish to view. The process name can be a PeopleSoft process or a user-defined name for a PeopleSoft query.

From Date and To

Enter the date range for the notification messages that you wish to view. The date of the notification message is the date that the PeopleSoft process was run.

Process Category

Enter the process category that generated the notification messages that you wish to view. The category is a logical partition of the Process Name. The notification messages are sent to the Notification Dashboard based on the Process Name and Process Category combination.

Status

Enter the status of the notification messages that you wish to view. The options are:

- *Open*: Indicates that the notification message is still unresolved and has not been set to the closed status.

- *Closed*: Indicates that the notification message has been resolved and set to the closed status using the Status field in the Search Results group box of this page or the Message Detail page.

Business Unit	Enter a PeopleSoft business unit to narrow your search results to notification messages related to one business unit.
Worklist User ID	Enter a PeopleSoft User ID to limit the search results to the notification messages that would appear on a specific PeopleSoft Worklist.
Process Instance	Enter the process instance number of a single PeopleSoft process. This enables you to view just one specific process run. You can locate the instance number in the Process Monitor component.
Search Key Name	Enter search keys or parameters for the transaction or problem in the notification message.
Search Key Value	Enter the value within the Search Key Name field.
Search	Click this button to initiate the search based on your search criteria. The results display in the Search Results group box.

Search Results group box

The Search Results group box displays all notification messages that meet the search criteria after you click the Search button.

Status	Displays the current status of the notification message. Change to <i>Closed</i> when the issue is resolved.
Log Message	Displays the message of the notification message. Click this link to access the Message Details page where you can view additional information about this specific notification message.

Notification Detail Page

Use the Notification Detail page (EOEN_NTF_DASH_DTL) to view the details of a notification message that was displayed on the Notification Dashboard page.

Navigation

Enterprise Components > Events and Notifications > Notifications Framework > Notifications Dashboard

Image: Notification Detail page

This example illustrates the fields and controls on the Notification Detail page. You can find definitions for the fields and controls later on this page.

Notification Detail			
Process Name:	USER_ALERT	Process Category:	USER
Process Sequence:	14	Date Time Added:	08/14/09 4:41:05.000000PM
Log Message			
Account for User AMA4 employee # KU0032 is locked (21000,1)			Explain Text View Transaction Detail
Log Message			
Status:	Open	View Email Addresses View Context	
User ID:	VP1		
Node Name:	PSFT_EP		
Process Instance:	9493		

The Message Detail page provides the user with valuable information for responding to the message. The message includes valuable links.

View Transaction Detail

Select this link to access the specific PeopleSoft page for correction of the message. For PeopleSoft processes, this link is dependent on the employee servlet setup on the URL Maintenance page. For PeopleSoft queries, this link is dependent on the Alert Setup - URL page.

Status

Displays the current status of the message. Change to *Closed* when the issue is resolved.

View Email Address

Select this link to view the email addresses where the alert was sent.

View Context

Select this link to view key data from the message; including, process name, process category, process instance number, and the record name.

Using PeopleSoft Worklists to View Notification Messages

Using the PeopleSoft Worklist to View Notification Messages

Worklists are prioritized lists of the work items that a person (or group of people) has to do. A worklist is a standard PeopleTools grid. Therefore, the user can use grid personalization features to order and sort columns. When work is routed to a PeopleSoft user, it is put in the user’s worklist. To work on an item, the user selects it from the worklist and is presented with the appropriate page to begin work. Users accessing worklists through a browser see worklist entries prioritized in a predefined order (set on a properties page). For example, worklists for accounts receivable clerks can be sorted by days overdue, amount overdue, or credit class.

Page Used to View Notification Messages on a PeopleSoft Worklist

<i>Page Name</i>	<i>Definition Name</i>	<i>Usage</i>
<u>Worklist Page</u>	WORKLIST	View, assign priority to, reassign, and process worklist items.

For more information, refer the product documentation .

Worklist Page

Use the Worklist page (WORKLIST) to view, assign priority to, reassign, and process worklist items.

Navigation

Worklist > Worklist

Image: Worklist

This example illustrates the fields and controls on the Worklist. You can find definitions for the fields and controls later on this page.

Worklist for VP1: Vice President of Finance

[Detail View](#) [Publish as Feed](#)

Work List Filters:

Error and Warning Notificatio

Feed

Worklist

Customize | Find | View All | First | 1-3 of 8 | Last

From	Date From	Work Item	Worked By Activity	Priority	Link		
Vice President of Finance	08/21/2009	Error and Warning Notification	EOEN Message	<div></div>	USER_LOCKED_ALERT.USER_1	Mark Worked	Reassign
Vice President of Finance	08/21/2009	Error and Warning Notification	EOEN Message	<div></div>	USER_LOCKED_ALERT.USER_1	Mark Worked	Reassign
Vice President of Finance	08/21/2009	Error and Warning Notification	EOEN Message	<div></div>	USER_LOCKED_ALERT.USER_3	Mark Worked	Reassign

Work List Filters	Select <i>Error and Warning Notification</i> in this field to view just your notification messages.
From	Displays the individual who triggered the work item.
Date From	Displays the date when the work item was triggered.
Link	Click to access the Message Detail page of the Notification Dashboard.
Mark Worked	Click this button to mark an item as worked if you have performed the necessary actions.