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PeopleSoft

PeopleTools 8.62: Usage Monitor

April 2025

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Contents

Preface

Understanding the PeopleSoft Online Help and PeopleBooks

The PeopleSoft Online Help is a website that enables you to view all help content for PeopleSoft applications and PeopleTools. The help provides standard navigation and full-text searching, as well as context-sensitive online help for PeopleSoft users.

Hosted PeopleSoft Online Help

You can access the hosted PeopleSoft Online Help on the Oracle Help Center. The hosted PeopleSoft Online Help is updated on a regular schedule, ensuring that you have access to the most current documentation. This reduces the need to view separate documentation posts for application maintenance on My Oracle Support. The hosted PeopleSoft Online Help is available in English only.

To configure the context-sensitive help for your PeopleSoft applications to use the Oracle Help Center, see Configuring Context-Sensitive Help Using the Hosted Online Help Website.

Locally Installed PeopleSoft Online Help

If you're setting up an on-premises PeopleSoft environment, and your organization has firewall restrictions that prevent you from using the hosted PeopleSoft Online Help, you can install the online help locally. Installable PeopleSoft Online Help is made available with selected PeopleSoft Update Images and with PeopleTools releases for on-premises installations, through the Oracle Software Delivery Cloud.

Your installation documentation includes a chapter with instructions for how to install the online help for your business environment, and the documentation zip file may contain a README.txt file with additional installation instructions. See *PeopleSoft 9.2 Application Installation* for your database platform, "Installing PeopleSoft Online Help."

To configure the context-sensitive help for your PeopleSoft applications to use a locally installed online help website, see Configuring Context-Sensitive Help Using a Locally Installed Online Help Website.

Downloadable PeopleBook PDF Files

You can access downloadable PDF versions of the help content in the traditional PeopleBook format on the Oracle Help Center. The content in the PeopleBook PDFs is the same as the content in the PeopleSoft Online Help, but it has a different structure and it does not include the interactive navigation features that are available in the online help.

Common Help Documentation

Common help documentation contains information that applies to multiple applications. The two main types of common help are:

- Application Fundamentals

- Using PeopleSoft Applications

Most product families provide a set of application fundamentals help topics that discuss essential information about the setup and design of your system. This information applies to many or all applications in the PeopleSoft product family. Whether you are implementing a single application, some combination of applications within the product family, or the entire product family, you should be familiar with the contents of the appropriate application fundamentals help. They provide the starting points for fundamental implementation tasks.

In addition, the *PeopleTools: Applications User's Guide* introduces you to the various elements of the PeopleSoft Pure Internet Architecture. It also explains how to use the navigational hierarchy, components, and pages to perform basic functions as you navigate through the system. While your application or implementation may differ, the topics in this user’s guide provide general information about using PeopleSoft applications.

Field and Control Definitions

PeopleSoft documentation includes definitions for most fields and controls that appear on application pages. These definitions describe how to use a field or control, where populated values come from, the effects of selecting certain values, and so on. If a field or control is not defined, then it either requires no additional explanation or is documented in a common elements section earlier in the documentation. For example, the Date field rarely requires additional explanation and may not be defined in the documentation for some pages.

Typographical Conventions

The following table describes the typographical conventions that are used in the online help.

Typographical Convention	***Description***
Key+Key	Indicates a key combination action. For example, a plus sign (+) between keys means that you must hold down the first key while you press the second key. For **Alt+W,** hold down the **Alt** key while you press the **W** key.
. . . (ellipses)	Indicate that the preceding item or series can be repeated any number of times in PeopleCode syntax.
{ } (curly braces)	Indicate a choice between two options in PeopleCode syntax. Options are separated by a pipe (|).
[ ] (square brackets)	Indicate optional items in PeopleCode syntax.
& (ampersand)	When placed before a parameter in PeopleCode syntax, an ampersand indicates that the parameter is an already instantiated object. Ampersands also precede all PeopleCode variables.

Typographical Convention	Description
⇒	This continuation character has been inserted at the end of a line of code that has been wrapped at the page margin. The code should be viewed or entered as a single, continuous line of code without the continuation character.

ISO Country and Currency Codes

PeopleSoft Online Help topics use International Organization for Standardization (ISO) country and currency codes to identify country-specific information and monetary amounts.

ISO country codes may appear as country identifiers, and ISO currency codes may appear as currency identifiers in your PeopleSoft documentation. Reference to an ISO country code in your documentation does not imply that your application includes every ISO country code. The following example is a country-specific heading: "(FRA) Hiring an Employee."

The PeopleSoft Currency Code table (CURRENCY_CD_TBL) contains sample currency code data. The Currency Code table is based on ISO Standard 4217, "Codes for the representation of currencies," and also relies on ISO country codes in the Country table (COUNTRY_TBL). The navigation to the pages where you maintain currency code and country information depends on which PeopleSoft applications you are using. To access the pages for maintaining the Currency Code and Country tables, consult the online help for your applications for more information.

Region and Industry Identifiers

Information that applies only to a specific region or industry is preceded by a standard identifier in parentheses. This identifier typically appears at the beginning of a section heading, but it may also appear at the beginning of a note or other text.

Example of a region-specific heading: "(Latin America) Setting Up Depreciation"

Region Identifiers

Regions are identified by the region name. The following region identifiers may appear in the PeopleSoft Online Help:

- Asia Pacific
- Europe
- Latin America
- North America

Industry Identifiers

Industries are identified by the industry name or by an abbreviation for that industry. The following industry identifiers may appear in the PeopleSoft Online Help:

- USF (U.S. Federal)

- E&G (Education and Government)

Translations and Embedded Help

PeopleSoft 9.2 software applications include translated embedded help. With the 9.2 release, PeopleSoft aligns with the other Oracle applications by focusing our translation efforts on embedded help. We are not planning to translate our traditional online help and PeopleBooks documentation. Instead we offer very direct translated help at crucial spots within our application through our embedded help widgets. Additionally, we have a one-to-one mapping of application and help translations, meaning that the software and embedded help translation footprint is identical—something we were never able to accomplish in the past.

Using and Managing the PeopleSoft Online Help

Select About This Help in the left navigation panel on any page in the PeopleSoft Online Help to see information on the following topics:

- Using the PeopleSoft Online Help.
- Managing hosted Online Help.
- Managing locally installed PeopleSoft Online Help.

PeopleTools Related Links

PeopleTools 8.62 Home Page

PeopleSoft Search and Insights Home Page

"PeopleTools Product/Feature PeopleBook Index" (Getting Started with PeopleTools)

PeopleSoft Online Help

PeopleSoft Information Portal

PeopleSoft Spotlight Series

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Send your suggestions to psoft-infodev_us@oracle.com.

Please include the applications update image or PeopleTools release that you're using.

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Chapter 1

Getting Started with Usage Monitor

Usage Monitor Overview

The Usage Monitor monitors Managed Object (MO) data and Application Data Set (ADS) instance data accessed by users through the PeopleSoft Internet Architecture (PIA).

From PeopleTools 8.62, the usage monitoring of data is extended to the Process Scheduler and Application Engine servers.

The data collected by the Usage Monitor for managed objects such as pages, components, and PeopleCode enables administrators to more accurately understand what definitions in the database are used in their environment. This information can assist with impact analysis when applying updates or change packages. Usage Monitor information for managed objects can also be used in conjunction with the PeopleSoft Test Framework and (or) the LCM Insights feature.

The data collected by the Usage Monitor for ADS objects enables users to understand what ADS instances are most used in their environment and can assist in impact analysis of how the change package may modify any used ADS instance in their environment.

See “Application Data Set Overview” (Lifecycle Management Guide) and Enabling Usage Monitor

You can enable usage data collection on the Usage Monitoring Options page. See Enabling Usage Monitor.

Enabling Usage Monitor

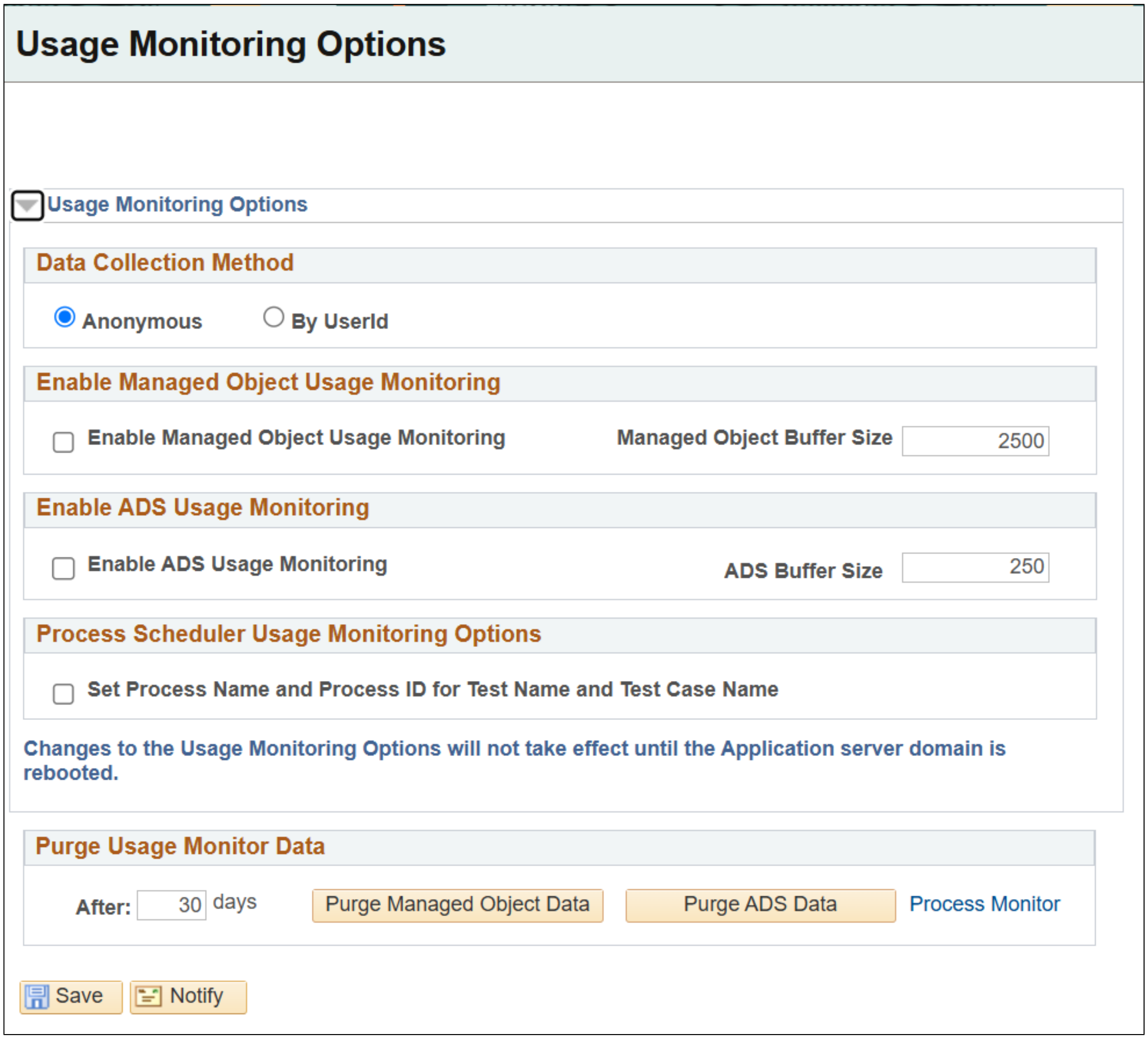
To enable Usage Monitor, select the Enable Usage Monitoring option on the Usage Monitoring Options page.

Navigation:

PeopleTools > **Lifecycle Tools** > **Usage Monitoring** > **Usage Monitoring Options**.

By default, this option is not selected. After selecting this option, ensure to restart the application server.

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



Field or Control	***Description***

Data Collection Method	Set the data collection method with:
	• Anonymous- All usage by all users is collected and stored with the User ID value of ANONYMOUS.
	• By UserId- All usage by all users is collected and stored with the UserID value of the user who accessed the object.
	
	Selecting By UserId option significantly increases the amount of data collected.
	
	For example, if you have ten users who use the same ten objects, then:
	• The Anonymous option collects 1 anonymous user * 10 objects = 10 rows of data.
	• The By UserId option collects 10 users * 10 objects = 100 rows of data.
	
	You can select an option based on your environment:
	• Production environment: The Anonymous option should be used in all cases when collecting usage data in this environment.
	• Test and Development environments- The Anonymous option should be used when collecting usage data in these environments for the following use cases:
	    • Collecting usage data for use with the LCM Insights feature.
	    • General usage data collection for custom applications.
	    • Using Usage Monitor for the first time or initial rollout to estimate the potential data volumes to be collected.
	
	The By UserId option should be used only when collecting usage data in the Test and Development environments for use cases that require this level of detail including the following:
	• Collecting usage data in conjunction with the PeopleSoft Test Framework (PTF) tool.
	• Usage data collection for custom applications that requires user level data.

Enable Managed Object Usage Monitoring	

Field or Control	Description
Enable Managed Object Usage Monitoring	Select to enable the Usage Monitor for managed objects accessed through application server, Process Scheduler server, and Application Engine server. The use cases for Managed Object usage collection include collecting usage data for use with the LCM Insights feature, collecting usage data in conjunction with the PeopleSoft Test Framework (PTF) tool, and general usage data collection for custom applications.
Managed Object Buffer Size	Set the buffer limit which determines how much data should be collected in the buffer before storing the data in the database. Depending on the pages that are accessed and your testing needs, you can arrive at an optimum buffer size for your usage pattern. The Buffer Size value affects the performance of the system. Each buffer row requires 1000 bytes of memory, such that a Buffer size value of 200,000 will require 190 MB of available memory. While the buffer maintains a unique set of objects, the writes to the buffer flush events to the database can result in duplicate data that must subsequently be aggregated. In order to minimize the number of database writes and data aggregation actions, the Buffer value should be set to a relatively large value that is ideally in line with the number of expected number of unique rows. Determining the optimal value for the buffer size will likely take some adjustment once usage collection is up and running and the volume of data being collected is better known. Factors that impacts the expected number of unique rows include: • Data collection method (Anonymous or By UserID options). • Number of users when collecting data with the By UserID option. • Number of objects used in the system. For example, HCM92 has nearly 700,000 unique Managed Objects. However, it is likely that not all of these are in use. The buffer writes to the database when: • the buffer is full. • the Application server or Process Scheduler is shutdown. If the Buffer Size value is set too high, the buffer may never fill, causing the process to write collected data to the database only during the server shutdown event.

Field or Control	***Description***
Enable ADS Usage Monitoring	
Enable ADS Usage Monitoring	Select to enable the Usage Monitor for ADS instances accessed through application server, Process Scheduler server, and Application Engine server. The use cases for ADS usage collection include General usage data collection for custom applications. The list of ADS instances that are monitored and recorded will be those identified in the PSADSTRACKITEM PeopleTools table.
ADS Buffer Size	Set the buffer limit which determines how much data should be collected in the buffer before storing the data in the database. Depending on the ADS instances that are accessed, you can arrive at an optimum buffer size for usage pattern. The Buffer Size value affects the performance of the system. Each buffer row requires 1000 bytes of memory, such that a Buffer Size value of 200,000 will require 190 MB of available memory. While the buffer maintains a unique set of objects, the writes to the buffer flush events to the Database can result in duplicate data that must subsequently be aggregated. In order to minimize the number of database writes and data aggregation actions the Buffer value should be set to a relatively large value that is ideally in line with the number of expected number of unique rows. Determining the optimal value for the buffer size will likely take some adjustment once usage collection is up and running and the volume of data being collected is better known. Factors that impacts the expected number of unique rows include: • Collection mode. • Number of users when collecting in By UserID option. • Number of objects used in the system. The buffer will write to the database: • When the buffer is full. • the Application server or Process Scheduler is shutdown. If the Buffer Size value is set too high, the buffer may never fill, causing the process to write collected data to the database only during the server shutdown event.
Process Scheduler Usage Monitoring Options	

Field or Control	***Description***
Set Process Names and Process ID for Test Name and Test Case Name	When you select this option, the process name and process ID details get recorded for the usage data monitored by Application Engine server and Process Scheduler server. **Note:** This is not applicable for application server.
Purge Usage Monitor Data	
After <N> days	N specifies the retention period or the number of days during which the Usage Monitor data remains in the PSPTUMPMTAGR table.
Purge Managed Object Data	Usage Monitor managed object data older than the retention period gets deleted when you click the Purge Managed Object Data button.
Purge ADS Data	ADS instance data older than the retention period gets deleted when you click the Purge ADS Data button.

To verify the Usage Monitor configuration:

1. On the Usage Monitoring Options page, set the Managed Object (MO) buffer size to *50*.

   Note: Until the Buffer Size value is reached, no Usage Monitor data will be written to the database.

   Important! This buffer value of *50* is only for verifying the Usage Monitor configuration, ensuring that data will be quickly written to the Usage Monitor tables. When you are using the Usage Monitor, you need to increase the Buffer Size value to a more appropriate "production" value. The default is 2500. Refer to the documentation of Managed Object Buffer Size given in the preceding table.

2. Shutdown and restart the application server domain and the PeopleSoft Internet Architecture.

3. Login to that application with your browser and navigate through a few pages and menus in the application.

4. With your SQL query tool, submit the following query on the monitoring database for managed objects:

   ```
   SELECT * FROM PSPTUMPMTAGR
   ```

   Note: The Usage Monitor managed object data is collected and stored in the PSPTUMPMTAGR table.

   With your SQL query tool, submit the following query on the monitoring database for ADS instances:

   ```
   SELECT * FROM PS_PTUMADSAGR
   ```

   Note: The Usage Monitor ADS instance data is collected and stored in the PS_PTUMADSAGR table.

5. Verify that data is present in the table and that the timestamps correspond to the time you verified the Usage Monitor configuration.

6. Repeat the previous steps when setting the Buffer Size value to your production value.

Associating Test Names and Test Cases

When the Usage Monitor is enabled and collecting usage data, the information is stored associated with a user ID or anonymously, depending on the options selected for the Usage Monitoring State parameter in the application server domain configuration.

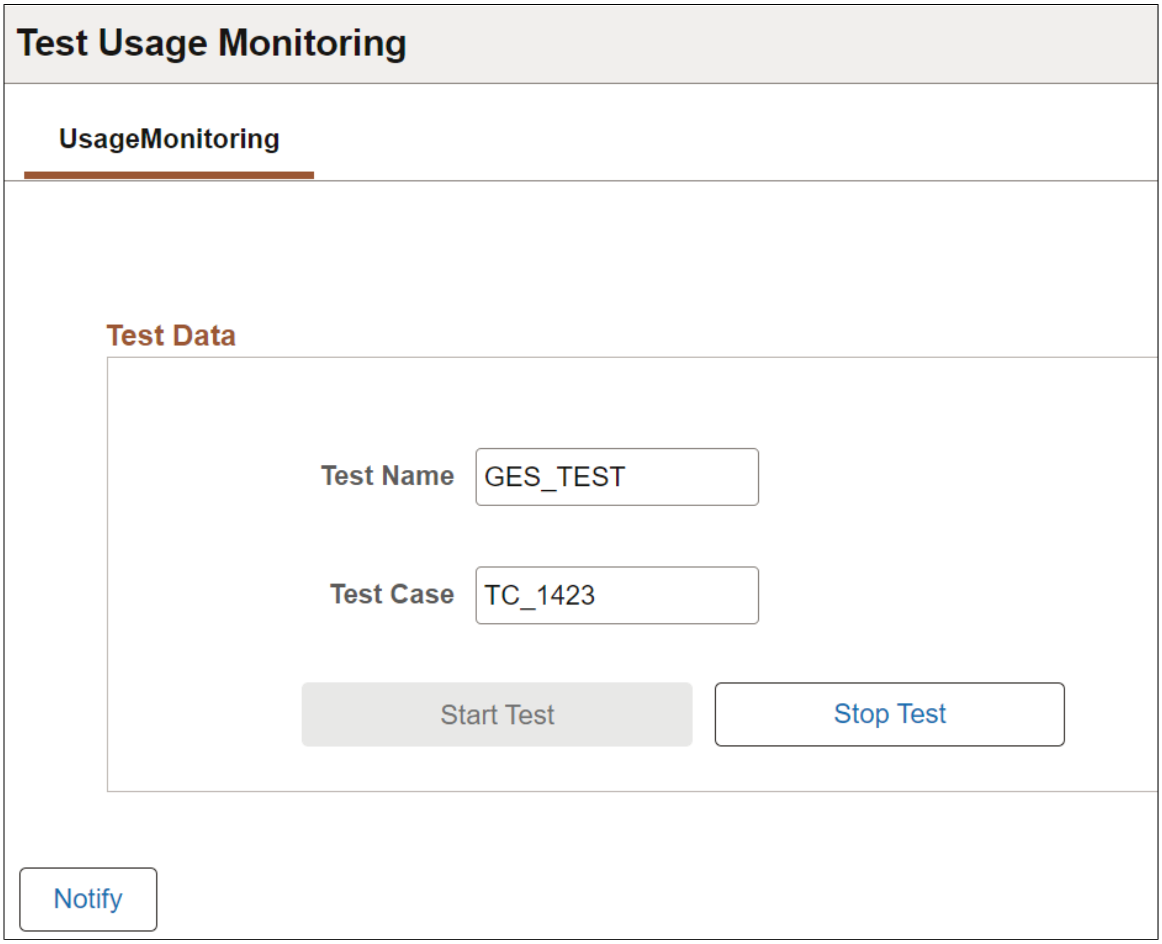
To associate a test name and test case with usage monitoring managed object data and ADS instance data, use the Test Usage Monitoring page. This can help to sort the generated usage data, especially for usage data for PeopleSoft Test Framework tests. As of now, this is only an option when data is collected using the By UserID option.

Associating Test Names and Test Cases

Access the Test Usage Monitoring page by selecting

PeopleTools > **LifeCycle Tools** > **Usage Monitoring** > **Test Usage Monitoring**.

This example illustrates the fields and controls on the Test Usage Monitoring page to test usage monitoring for managed objects and ADS instances.



Enter a Test Name and Test Case value to associate specific usage data with individual tests and test cases.

To begin a test, click Start Test.

To end a test, click Stop Test.

To view the data collected during the test, you can use the Test Name and Test Case value to retrieve information specific to a particular test case.

To retrieve information about a managed object test case, for example:

```
SELECT * FROM PSPTUMPMTAGR
 WHERE PTTST_NAME = 'GES_TEST'
 AND PTTST_CASE_NAME = 'TC_1423';
```

To retrieve information about a ADS instance test case, for example:

```
SELECT * FROM PS_PTUMADSAGR
 WHERE PTTST_NAME = 'GES_TEST'
 AND PTTST_CASE_NAME = 'TC_1423';
```

Where PTTST_NAME is the Test Name value, and PTTST_CASE_NAME is the Test Case value.

Integrating Usage Monitor Data with PeopleSoft Test Framework

The Usage Monitor provides additional information for analysis when determining test coverage for Managed Objects with the PeopleSoft Test Framework.

For this integration, we need to enable Managed Object usage monitoring and use the By UserID data collection option.

In the PeopleSoft Test Framework (PTF), a test coverage report for managed objects correlates PeopleTools project data with PTF test metadata to identify components, menus, pages, records and fields that are referenced in PTF tests. When used in conjunction with Usage Monitor, test coverage correlations can be extended to include information on all definitions (including PeopleCode, Application Engine programs, and so on) from a usage perspective. A test coverage report identifies which managed objects included in the change project are referenced by which PTF test. Definitions included in the change project that are not referenced in the PTF test metadata or Usage Monitor data appears in the report identified as a coverage gap.

Integrating Usage Monitor Data with LCM Insights

Use the usage data of managed objects to set up LCM Insights.

For this integration, we need to enable Managed Object usage monitoring and use the Anonymous data collection option.

In LCM Insights, the usage data combines with the customization data to provide information such as the percentage of customizations in the environment, details of which customizations are used and which are not.

This information helps to identify the customized objects that are regularly impacted by application maintenance.