IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain

Version 7.1

User's Guide

SC23-9822-02

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Note
Before using this information and the product it supports, read the information in "Notices" on page 171.

This edition applies to version 7.1 of IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain (product number 5724-V09) and to all subsequent releases and modifications until otherwise indicated in new editions.

Contents

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Chapter 1. Overview of the agent

The IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain provides you with the capability to monitor PeopleSoft Enterprise (Domain). You can also use the agent to take basic actions with the PeopleSoft Enterprise (Domain).

IBM® Tivoli® Monitoring is the base software for the PeopleSoft Enterprise Application Domain agent. The PeopleSoft Enterprise Application Domain agent monitors the availability, health, and performance of key PeopleSoft Application Domain resources: application server, Tuxedo, Process Schedulers, Analytic Servers, and Domain and Tuxedo logs.

IBM Tivoli Monitoring

IBM Tivoli Monitoring provides a way to monitor the availability and performance of all the systems in your enterprise from one or several designated workstations. It also provides useful historical data that you can use to track trends and to troubleshoot system problems.

You can use IBM Tivoli Monitoring to achieve the following tasks:

- Monitor for alerts on the systems that you are managing by using predefined situations or custom situations.
- Establish your own performance thresholds.
- Trace the causes leading to an alert.
- Gather comprehensive data about system conditions.
- Use policies to take actions, schedule work, and automate manual tasks.

The Tivoli Enterprise Portal is the interface for IBM Tivoli Monitoring products. You can use the consolidated view of your environment as seen in the Tivoli Enterprise Portal to monitor and resolve performance issues throughout the enterprise.

See the IBM Tivoli Monitoring publications listed in “Prerequisite publications” on page 165 for complete information about IBM Tivoli Monitoring and the Tivoli Enterprise Portal.

Functions of the monitoring agent

Monitors the availability, health, and performance of key PeopleSoft Application Domain resources: application server, Tuxedo, Process Schedulers, Analytic Servers, and Domain and Tuxedo logs.

New in this release

For version 7.1 of the PeopleSoft Enterprise Application Domain agent, the following enhancements have been made since version 6.2, including the fix packs:

- Additional supported system requirements as listed in the Prerequisites topic (http://publib.boulder.ibm.com/infocenter/tivihelp/v24r1/topic/com.ibm.itcama.doc_7.1/prerequisites/apps71_systemreqs.html) for the PeopleSoft Enterprise Application Domain agent in the IBM Tivoli Composite Application Manager for Applications Information Center.
- Updated `kp8.baroc` file to support IBM Tivoli Enterprise Console® event mapping changes.

Components of the IBM Tivoli Monitoring environment

After you install and set up the PeopleSoft Enterprise Application Domain agent, you have an environment that contains the client, server, and monitoring agent implementation for Tivoli Monitoring.

This Tivoli Monitoring environment contains the following components:

Tivoli Enterprise Portal client
The portal has a user interface based on Java for viewing and monitoring your enterprise.

Tivoli Enterprise Portal Server
The portal server is placed between the client and the Tivoli Enterprise Monitoring Server and enables retrieval, manipulation, and analysis of data from the monitoring agents. The Tivoli Enterprise Portal Server is the central repository for all user data.

Tivoli Enterprise Monitoring Server
The monitoring server acts as a collection and control point for alerts received from the monitoring agents, and collects their performance and availability data. The Tivoli Enterprise Monitoring Server is also a repository for historical data.

Tivoli Enterprise Monitoring Agent, PeopleSoft Enterprise Application Domain agent
The instances of the monitoring agent communicate with the systems or subsystems that you want to monitor. This monitoring agent collects and distributes data to a Tivoli Enterprise Portal Server.

IBM Tivoli Netcool/OMNIbus
Tivoli Netcool/OMNIbus is an optional component and the recommended event management component. The Netcool/OMNIbus software is a service level management (SLM) system that delivers real-time, centralized monitoring of complex networks and IT domain events. Event information is tracked in a high-performance, in-memory database and presented to specific users through individually configurable filters and views. The software includes automation functions that you can use to perform intelligent processing on managed events. You can use this software to forward events for Tivoli Monitoring situations to Tivoli Netcool/OMNIbus.

IBM Tivoli Enterprise Console
The Tivoli Enterprise Console is an optional component that acts as a central collection point for events from various sources, including events from other Tivoli software applications, Tivoli partner applications, custom applications, network management platforms, and relational database systems. You can view these events through the Tivoli Enterprise Portal (by using the event viewer), and you can forward events from Tivoli Monitoring situations to the Tivoli Enterprise Console component. If you do not already use Tivoli Enterprise Console and need an event management component, you can choose to use IBM Tivoli Netcool/OMNIbus.

Agent Management Services

You can use IBM Tivoli Monitoring Agent Management Services to manage the PeopleSoft Enterprise Application Domain agent.

Agent Management Services is available for the following IBM Tivoli Monitoring OS agents: Windows, Linux, and UNIX. The services are designed to keep the PeopleSoft Enterprise Application Domain agent available, and to provide information about the status of the product to the Tivoli Enterprise Portal. For more information, see "Agent Management Services" in the IBM Tivoli Monitoring Administrator's Guide (http://publib.boulder.ibm.com/infocenter/tivihelp/v15r1/topic/com.ibm.itm.doc_6.2.3fp1/welcome.htm).

User interface options

Installation of the base IBM Tivoli Monitoring software and other integrated applications provides various interfaces that you can use to work with your resources and data.

The following interfaces are available:

Tivoli Enterprise Portal user interface
You can run the Tivoli Enterprise Portal as a desktop application or a browser application. The client interface is a graphical user interface (GUI) based on Java on a Windows or Linux workstation. The browser application is automatically installed with the Tivoli Enterprise Portal Server. The desktop application is installed by using the Tivoli Monitoring installation media or with a Java Web Start application. To start the Tivoli Enterprise Portal browser client in your Internet browser, enter the URL for a specific Tivoli Enterprise Portal browser client installed on your Web server.

Command-line interface
You can use Tivoli Monitoring commands to manage the Tivoli Monitoring components and their configuration. You can also run commands at the Tivoli Enterprise Console event server or the Tivoli Netcool/OMNIbus ObjectServer to configure event synchronization for enterprise situations.

Manage Tivoli Enterprise Monitoring Services window
You can use the window for the Manage Tivoli Enterprise Monitoring Services utility to configure the agent and start Tivoli services not designated to start automatically.

IBM Tivoli Netcool/OMNIbus event list
You can use the Netcool/OMNIbus event list to monitor and manage events. An event is created when the Netcool/OMNIbus ObjectServer receives an event, alert, message, or data item. Each event is made up of columns (or fields) of information that are displayed in a row in the ObjectServer alerts.status table. The Tivoli Netcool/OMNIbus web GUI is also a web-based application that processes network events from one or more data sources and presents the event data in various graphical formats.

IBM Tivoli Enterprise Console
You can use the Tivoli Enterprise Console to help ensure the optimal availability of an IT service for an organization. The Tivoli Enterprise Console is an event management application that integrates system, network, database, and application management. If you do not already use Tivoli Enterprise Console and need an event management component, you can choose to use Tivoli Netcool/OMNIbus.

Chapter 2. Agent installation and configuration

Agent installation and configuration requires the use of the *IBM Tivoli Monitoring Installation and Setup Guide* and agent-specific installation and configuration information.

To install and configure the PeopleSoft Enterprise Application Domain agent, use the "Installing monitoring agents" procedures in the *IBM Tivoli Monitoring Installation and Setup Guide* along with the agent-specific installation and configuration information.

If you are installing silently by using a response file, see "Performing a silent installation of IBM Tivoli Monitoring" in the *IBM Tivoli Monitoring Installation and Setup Guide*.

With the self-describing agent capability, new or updated IBM Tivoli Monitoring agents using IBM Tivoli Monitoring V6.2.3 or later can become operational after installation without having to perform additional product support installation steps. To take advantage of this capability, see "Enabling self-describing agent capability at the hub monitoring server" in the *IBM Tivoli Monitoring Installation and Setup Guide*. Also, see "Self-describing monitoring agents" in the *IBM Tivoli Monitoring Administrator's Guide*.

Requirements

Before installing and configuring the agent, make sure that your environment meets the requirements for the IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain.

For information about system requirements, see the Prerequisites topic (http://publib.boulder.ibm.com/infocenter/tivihelp/v24r1/topic/com.ibm.itcama.doc_7.1/prerequisites/apps71_systemreqs.html) in the IBM Tivoli Composite Application Manager for Applications Information Center.

Language pack installation

The steps for installing language packs depend on which operating system and mode of installation you are using.

To install a language pack for the agent support files on the Tivoli Enterprise Monitoring Server, the Tivoli Enterprise Monitoring Agent, and the Tivoli Enterprise Portal Server, make sure that you installed the product in the English language. Then use the steps for the operating system or mode of installation you are using:

- "Installing language packs on Windows systems"
- "Installing language packs on UNIX or Linux systems" on page 6
- "Silent installation of language packs for agents" on page 6

Installing language packs on Windows systems

You can install the language packs on a Windows system.

Before you begin

Make sure that you installed the product in the English language.

Procedure

1. On the language pack CD, double-click the `lpinstaller.bat` file to start the installation program.
2. Select the language of the installer and click **OK**.
3. In the Introduction panel, click **Next**

4. Click **Add/Update** and click **Next**.
5. Select the folder where the National Language Support package (`NLSPackage`) files are located. Typically, the NLSPackage files are located in the `nlspackage` folder where the installer executable file is located.
6. Select the language support for the agent of your choice and click **Next**. To make multiple selections, press Ctrl and select the language that you want.
7. Select the languages that you want to install and click **Next**.
8. Examine the installation summary page and click **Next** to begin installation.
9. After installation completes, click **Finish** to exit the installer.
10. Restart the Tivoli Enterprise Portal, Tivoli Enterprise Portal Server, and Eclipse Help Server if any of these components are installed.

Installing language packs on UNIX or Linux systems

You can install the language packs on a UNIX or Linux system.

Before you begin

First, make sure that you installed the product in the English language.

Procedure

1. Enter the following command to create a temporary directory on the computer. Make sure that the full path of the directory does not contain any spaces: `mkdir` *`dir_name`*
2. Mount the language pack CD to the temporary directory that you created.
3. Enter the following command to start the installation program: `cd` *`dir_name`* `lpinstaller.sh -c` *`install_dir`* where *install_dir* is where you installed IBM Tivoli Monitoring. Typically, the directory name is `/opt/IBM/ITM` for AIX® and Linux systems.
4. Select the language of the installer and click **OK**.
5. In the Introduction panel, click **Next**.
6. Click **Add/Update** and click **Next**.
7. Select the folder where the National Language Support package (`NLSPackage`) files are located. Typically, the `NLSPackage` files are located in the `nlspackage` folder where the installer executable file is located.
8. Select the language support for the agent of your choice and click **Next**. To make multiple selections, press Ctrl and select the language that you want.
9. Select the languages that you want to install and click **Next**.
10. Examine the installation summary page and click **Next** to begin installation.
11. After installation completes, click **Finish** to exit the installer.
12. Restart the Tivoli Enterprise Portal, Tivoli Enterprise Portal Server, and Eclipse Help Server if any of these components are installed.

Silent installation of language packs for agents

You can use the silent-mode installation method to install the language packs. In silent mode, the installation process obtains the installation settings from a predefined response file. This method does not prompt you for any information.

Before you begin

First, make sure that you installed the product in the English language.

Procedure

1. Copy and paste the `ITM_Agent_LP_silent.rsp` response file template as shown in"Response file example."
2. Change the following parameter settings:

   NLS_PACKAGE_FOLDER
   Folder where the National Language Support package (NLSPackage) files are located. Typically, the NLSPackage files are located in the `nlspackage` folder, for example: `NLS_PACKAGE_FOLDER = //tmp//LP//nlspackage`.

   PROD_SELECTION_PKG
   Name of the language pack to install. Several product components can be included in one language package. You might want to install only some of the available components in a language pack.

   BASE_AGENT_FOUND_PKG_LIST
   Agent for which you are installing language support. This value is usually the same as *PROD_SELECTION_PKG*.

   LANG_SELECTION_LIST
   Language you want to install.
3. Enter the command to install the language pack with a response file (silent installation):
   - For Windows systems:
     `lpinstaller.bat -f path_to_response_file`
   - For UNIX or Linux systems:
     `lpinstaller.sh -c candle_home -f path_to_response_file`

     where *candle_home* is the IBM Tivoli Monitoring base directory.

Response file example

```
#     IBM Tivoli Monitoring Agent Language Pack Silent Installation Operation
#
#This is a sample response file for silent installation mode for the IBM Tivoli
#Monitoring Common Language Pack Installer.
#.
#This file uses the IBM Tivoli Monitoring Common Agent Language Pack with the
#install package as an example.
#Note:
#This response file is for the INSTALLATION of language packs only.
#This file does not support UNINSTALLATION of language packs in silent mode.
#-----------------------------------------------------------------------------
#-----------------------------------------------------------------------------
#To successfully complete a silent installation of the the example of Common Agent
#localization pack, complete the following steps:
#
#1.Copy ITM_Agent_LP_silent.rsp to the directory where lpinstaller.bat or
#lpinstaller.sh is located (IBM Tivoli Monitoring Agent Language Pack build
#location).
#
#2.Modify the response file so that it is customized correctly and completely for
#your site.
#  Complete all steps listed below in the response file.
#
#3.After customizing the response file, invoke the silent installation using the
#following command:
#For Windows:
#    lpinstaller.bat -f <path_to_response_file>
#For UNIX and Linux:
#    lpinstaller.sh -c <candle_home> -f <path_to_response_file>
#Note:<candle_home> is the IBM Tivoli Monitoring base directory.
#-----------------------------------------------------------------------------
```

```
#-------------------------------------------------------------------------------
#Force silent install mode.
#-------------------------------------------------------------------------------
INSTALLER_UI=silent
#-------------------------------------------------------------------------------
#Run add and update actions.
#-------------------------------------------------------------------------------
CHOSEN_INSTALL_SET=ADDUPD_SET
#-------------------------------------------------------------------------------
#NLS Package Folder, where the NLS Packages exist.
#For Windows:
#   Use the backslash-backslash(\\) as a file separator (for example,
#C:\\zosgmv\\LCD7-3583-01\\nlspackage).
#For UNIX and Linux:
#   Use the slash-slash (//) as a file separator (for example,
#//installtivoli//lpsilenttest//nlspackage).
#-------------------------------------------------------------------------------
#NLS_PACKAGE_FOLDER=C:\\zosgmv\\LCD7-3583-01\\nlspackage
NLS_PACKAGE_FOLDER=//tmp//LP//nlspackage
#-------------------------------------------------------------------------------
#List the packages to process; both variables are required.
#Each variable requires that full paths are specified.
#Separate multiple entries with a semicolon (;).
#For Windows:
#           Use the backslash-backslash(\\) as a file separator.
#For Unix and Linux:
#           Use the slash-slash (//) as a file separator.
#-------------------------------------------------------------------------------
#PROD_SELECTION_PKG=C:\\zosgmv\\LCD7-3583-01\\nlspackage\\KIP_NLS.nlspkg
#BASE_AGENT_FOUND_PKG_LIST=C:\\zosgmv\\LCD7-3583-01\\nlspackage\\KIP_NLS.nlspkg
PROD_SELECTION_PKG=//tmp//LP//nlspackage//kex_nls.nlspkg;//tmp//LP//nlspackage//
koq_nls.nlspkg
BASE_AGENT_FOUND_PKG_LIST=//tmp//LP//nlspackage//kex_nls.nlspkg;//
tmp//LP//nlspackage//koq_nls.nlspkg
#-------------------------------------------------------------------------------
#List the languages to process.
#Separate multiple entries with semicolons.
#-------------------------------------------------------------------------------
LANG_SELECTION_LIST=pt_BR;fr;de;it;ja;ko;zh_CN;es;zh_TW
```

Installing and configuring the monitoring agent

In addition to the installation and configuration information in the *IBM Tivoli Monitoring Installation and Setup Guide*, use this agent-specific installation and configuration information to install the PeopleSoft Enterprise Application Domain agent.

The following information relates to installing and configuring the PeopleSoft Enterprise Application Domain agent:

- Steps for installing the agents
- Installation account
- Linux and UNIX setup
- Loading and unloading the data collection PeopleSoft project
- Configuring the agent with a PeopleSoft user name and password
- Configuring attribute data caching
- Configuration values
- Remote installation and configuration

Steps to install the monitoring agents

To install and configure the PeopleSoft Enterprise Application Domain agent, use the procedures in the *IBM Tivoli Monitoring Installation and Setup Guide* along with the information in this chapter.

Procedure

1. Complete one of the following steps depending on your operating system:
   - On Linux and UNIX systems, install the PeopleSoft monitoring agent to run under the same operating system account as PeopleSoft.
   - On Windows systems, install and configure the PeopleSoft monitoring agent to run under the same operating system account as PeopleSoft.

   See "Installation account" for additional information.
2. For Linux and UNIX operating systems, set up the operating system login environment:
   a. Ensure that a PeopleSoft environment is set up.

   See "Linux and UNIX setup" for additional information about setting up the login environment.
3. Use the PeopleSoft Application Designer client to load the provided ITM_Query PSAE program into the PeopleSoft environment. Choose one of the following three options to configure a PeopleSoft User ID for the monitoring agent to use to monitor the system:
   - Use an existing user.
   - Manually create the user with the necessary permissions.
   - Load the example ITM_PS user, role, and permission list.

   See "Configuring the agent with a PeopleSoft user name and password" on page 12 for information about the necessary permissions. Also, see "Loading the IBM Tivoli Monitoring data collection PeopleSoft project" on page 10 for additional information.

Installation account

The PeopleSoft application server uses the Tuxedo product to perform transaction management, messaging, and administration. Because of the strict file access and interprocess communications permissions enforced by the Tuxedo product, you must run the PeopleSoft Enterprise Application Domain agent and the PeopleSoft Enterprise Process Scheduler agent with the same login account used to install the PeopleSoft system.

On Linux and UNIX systems, the PeopleSoft processes run with credentials specifically created for use with the PeopleSoft system by a PeopleSoft administrator. The PeopleSoft Enterprise Application Domain agent must be installed and run under that same account. Running the PeopleSoft Enterprise Application Domain agent under the root user account when PeopleSoft is running under another account is not supported.

On Windows systems, the PeopleSoft Enterprise Application Domain agent must be run under the same account that PeopleSoft is running as. You can easily determine which account by using Windows Task Manager on the target system to view what user the PeopleSoft processes, such as BBL, are running as.

Linux and UNIX setup

Set up the operating system login environment for Linux and UNIX systems.

Login environment on UNIX systems

PeopleTools is the proprietary software development environment that was created by the PeopleSoft Corporation. The PeopleSoft monitoring agents require an appropriate PeopleTools environment to run in. That is, the login profile for the PeopleSoft user account is correctly established for the PeopleSoft and database environment variables. For example, for a PeopleSoft Domain running against an Oracle database, the login environment has both the Oracle database libraries and PeopleSoft libraries in PATH, LD_LIBRARY_PATH, and LIBPATH. Setting up this environment typically includes sourcing the PeopleSoft **psconfig.sh** script.

To test whether the user account you are using to install the PeopleSoft monitoring agent has the required permissions and environment setup, from the command line type the following commands:

```
cd $PS_HOME/appserv
./psadmin
```

If the environment was set up correctly, the PSADMIN tool is displayed on the screen and results in the following output:

```
PSADMIN -- Tools Release: 8.48
Copyright (c) 1988-2005 PeopleSoft, Inc.  All Rights Reserved.

---------------------------------
PeopleSoft Server Administration
---------------------------------
  1) Application Server
  2) Process Scheduler
  3) Search Server
  q) Quit

Command to execute (1-3, q):
```

UNIX shells

The PeopleSoft Enterprise Application Domain agent and PeopleSoft Enterprise Process Scheduler agent can be run with operating system user accounts using the sh, bash, and ksh shells. The csh and tcsh shells are not supported.

Loading and unloading the IBM Tivoli Monitoring data collection PeopleSoft project

The final installation step is to load the IBM Tivoli Monitoring data collection PeopleSoft project.

See "Loading the IBM Tivoli Monitoring data collection PeopleSoft project" for information about how to load this project. If you need to remove the IBM Tivoli Monitoring data collection PeopleSoft project, use the information in "Removal of PeopleSoft agent components from the PeopleSoft database" on page 11.

When you upgrade to a new version of the IBM Tivoli Monitoring or PeopleSoft Enterprise Process Scheduler agent, you must remove the old version of the IBM Tivoli Monitoring data collection PeopleSoft project and install the new version.

Loading the IBM Tivoli Monitoring data collection PeopleSoft project

The PeopleSoft Enterprise Application Domain agent and PeopleSoft Enterprise Process Scheduler agent gather dynamic data from the PeopleSoft system through a PeopleSoft application engine program.

The ITM_QUERY PeopleSoft project consists of a PeopleSoft Application Engine (PSAE) program, a record, and several SQL objects. Each object is prefixed with `ITM_`. Because of the prefix, a naming collision between the new objects and existing objects is unlikely to occur. Nevertheless, you should run a compare and report step in Application Designer before you load the ITM_QUERY project.

A PeopleSoft administrator must extract and then load the ITM_QUERY project into the PeopleSoft database. PeopleTools 8.48, 8.49, 8.50, 8.51, and 8.52 versions of the ITM_QUERY project are included in the distribution in the following locations:

- PeopleTools 8.48: `ITM Application Engine/8.48/ITM_QUERY_8.48.zip`
- PeopleTools 8.49: `ITM Application Engine/8.49/ITM_QUERY_8.49.zip`
- PeopleTools 8.50: `ITM Application Engine/8.50/ITM_QUERY_8.50.zip`
- PeopleTools 8.51: `ITM Application Engine/8.51/ITM_QUERY_8.51.zip`
- PeopleTools 8.52: `ITM Application Engine/8.52/ITM_QUERY_8.52.zip`

Removal of PeopleSoft agent components from the PeopleSoft database

When you uninstall a PeopleSoft monitoring agent, you must complete additional steps to completely remove the PeopleSoft monitoring agent components that were loaded into the database that the monitored PeopleSoft environment was installed against.

Note: These steps only need to be performed once, regardless of whether the PeopleSoft Enterprise Application Domain agent, the PeopleSoft Enterprise Process Scheduler agent, or both agents were installed.

Removing the ITM_QUERY_PROJ PeopleSoft project manually:

To delete the ITM_QUERY project from the PeopleSoft system, remove the following objects:

- Project: ITM_QUERY_PROJ
- App Engine Program: ITM_QUERY
- Record: ITM_QUERY_AET
- SQL:
  - ITM_ANALYTIC_SERVERS
  - ITM_DISTRIBUTION_STATUS_COUNTS
  - ITM_INSTALLED_LANGUAGES
  - ITM_PMN_SRVRLIST
  - ITM_PRCS_REQUEST_LOAD_RANK_24H
  - ITM_PRCS_REQUEST_LOAD_RANK_30D
  - ITM_PRCS_REQUEST_LOAD_RANK_7D
  - ITM_PROCESS_CATEGORY_ACTIVITY
  - ITM_PROCESS_REQUEST_TABLE
  - ITM_PROCESS_TYPE_ACTIVITY
  - ITM_PSSTATUS
  - ITM_PURGE_OPTIONS
  - ITM_PURGE_RUN_STATUS_OPTIONS
  - ITM_RUN_STATUS_COUNTS
  - ITM_VERSION

Removing the ITM_QUERY_PROJ PeopleSoft project by script:

The REMOVE_ITM_QUERY application designer project is used to remove the entries in the database that were added by the ITM_QUERY project.

About this task

The REMOVE_ITM_QUERY project and delete data mover scripts are located in the distribution in the following locations:

- PeopleTools 8.48: `ITM Application Engine/8.48/ITM_QUERY_8.48.zip`
- PeopleTools 8.49: `ITM Application Engine/8.49/ITM_QUERY_8.49.zip`
- PeopleTools 8.50: `ITM Application Engine/8.50/ITM_QUERY_8.50.zip`
- PeopleTools 8.51: `ITM Application Engine/8.51/ITM_QUERY_8.51.zip`
- PeopleTools 8.52: `ITM Application Engine/8.52/ITM_QUERY_8.52.zip`

Procedure

1. Start the application designer with a valid PeopleSoft ID, for example, PS.
2. From the Tools menu, select **Copy Project** > **From File**.
3. Navigate to the folder of your Peopletools version, 8.48, 8.49, 8.50, 8.51, or 8.52, and select the project in the **REMOVE_ITM_QUERY** projects.
4. Click **Copy** on the Copy from File window.
5. On the File menu, select **Delete**.
6. Click **Delete** in the Delete Definition window. All available projects are displayed.
7. Select **ITM_QUERY_PROJ** and click **Delete**, then confirm the deletion.
8. Select **REMOVE_ITM_QUERY** and click **Delete**, then confirm the deletion.

Configuring the agent with a PeopleSoft user name and password

The monitoring agent must be configured with a valid PeopleSoft user name (PSAE_USER) and password (PSAE_PASSWORD) to run the ITM_QUERY application through psae.

About this task

Check with a PeopleSoft administrator to determine the appropriate PeopleSoft account to use for the monitoring agents. The account can come from the following places:

- An existing system maintenance account. Many PeopleSoft systems already have an account for performing maintenance operations.
- A new account set up by the PeopleSoft administrator. The PeopleSoft user requires a role within a permission list with process group permissions to the TLSALL process group.
- A sample user named ITM_PS, a role named ITM_PSRL, and a permissions list named ITM_PSPL are included on the agent installation media. These objects can be loaded by using a second PeopleSoft project and data mover script. The ITM_PS user has one role, which is ITM_PSPL. The ITM_PSPL role has one permission list, which is ITM_PSRL. The ITM_PSPL role has permission to use only the TLSALL process group. With these permissions, the ITM_PS user has access to run only the application engine from the command line. The ITM_PS user has no permission to run the application engine through the web interface; use the application designer, or run the data mover.

Complete the following steps to load the ITM_PS user:

Procedure

1. Load the ITM_PS user project.
2. Load the ITM_PS user data mover script. The ITM_PS project and data mover scripts are located in the distribution in the following locations:
   - PeopleTools 8.48: ITM PeopleSoft User/8.48/ITM_PS_USER_8.48.zip
   - PeopleTools 8.49: ITM PeopleSoft User/8.49/ITM_PS_USER_8.49.zip
   - PeopleTools 8.50: ITM PeopleSoft User/8.50/ITM_PS_USER_8.50.zip
   - PeopleTools 8.51: ITM PeopleSoft User/8.51/ITM_PS_USER_8.51.zip
   - PeopleTools 8.52: ITM PeopleSoft User/8.52/ITM_PS_USER_8.52.zip

   The PeopleSoft project is in the ITM_PS subdirectory. The import_itm_ps.dms data mover script is in the DMS subdirectory. The second line of the import_itm_ps.dms script references the itm_ps.dat file. You might need to change this file reference to an absolute path to the itm_ps.dat file if the data mover is not running from the same working directory. You must import both the project and data mover scripts because each script loads only a portion of the ITM_PS, ITM_PSRL and ITM_PSPL objects and does not work independently.
3. The default ITM_PS user password is password. Change the ITM_PS user password to something more secure.

4. Change the ITM_PS user Symbolic ID. The user's Symbolic ID (in the **Logon Information** section of the user profile) must be set to the name of the PeopleSoft application being monitored. Until this ID is set appropriately, the ITM_PS user might not be able to run the ITM_QUERY application.

Removing the ITM_PS user

The purpose of the REMOVE_ITM_PS project and delete_itm_user.dms datamover script is to remove the ITM_PS user role that was installed with this, or a previous, version of the PeopleSoft monitoring agent. The following steps completely remove the ITM_PS user role from the system.

About this task

The REMOVE_ITM_PS project and delete data mover scripts are located in the distribution in the following locations:

- PeopleTools 8.48: ITM PeopleSoft User/8.48/ITM_PS _8.48.zip
- PeopleTools 8.49: ITM PeopleSoft User/8.49/ITM_PS _8.49.zip
- PeopleTools 8.50: ITM PeopleSoft User/8.50/ITM_PS _8.50.zip
- PeopleTools 8.51: ITM PeopleSoft User/8.51/ITM_PS _8.51.zip
- PeopleTools 8.52: ITM PeopleSoft User/8.52/ITM_PS _8.52.zip

Complete the following steps within the PeopleSoft Application Designer:

Procedure

1. Start the application designer with a valid Peoplesoft superuser ID, for example, PS.
2. From the Tools menu, select **Copy Project** > **From File**.
3. Select the **REMOVE_ITM_PS** project for your PeopleTools version, 8.48, 8.49, 8.50, 8.51, or 8.52.
4. Click **Copy** on the Copy from File window.
5. On the File menu, select **Delete**.
6. Click **Delete** in the Delete Definition window. All available projects are displayed.
7. Select **ITM_PS** and click **Delete**, then confirm the deletion.
8. Select **REMOVE_ITM_PS** and click **Delete**, then confirm the deletion.

To run the remove script:
About this task

Using the Peoplesoft Datamover utility, complete the following steps to run the remove script:

Procedure

1. Copy the delete_itm_ps.dms file from the installation media to a working directory; for example, C:\dmsdelete.
2. Start the Datamover utility and log in with a valid PeopleSoft superuser ID, for example, PS.
3. Open the delete_itm_ps.dms file in datamover. Select **File** > **Open** >C:\dmsdelete\delete_itm_ps.dms.
4. Append the path to your working directory following Set log and Set output.
5. Click the green light icon to run the script.

Configuring attribute data caching

The majority of attributes gathered by the PeopleSoft Enterprise Application Domain agent and PeopleSoft Enterprise Process Scheduler agent are not provided in real time. Instead, attributes are gathered and cached until another gathering cycle commences.

Use the DATA_COLLECTION_INTERVAL configuration option to adjust the frequency at which attributes are gathered. DATA_COLLECTION_INTERVAL specifies the number of minutes between attribute collection cycles. The default frequency is 10 minutes and the minimum frequency is 1 minute.

The data collected by the availability and log file monitoring components of the monitoring agents is collected in real time. All other attributes are cached.

Configuration values

For both local and remote configuration, you provide the configuration values for the agent to operate.

When you are configuring an agent, a panel is displayed so you can enter each value. When a default value exists, this value is pre-entered into the field. If a field represents a password, two entry fields are displayed. You must enter the same value in each field. The values you type are not displayed to help maintain the security of these values.

The configuration for this agent is organized into the following groups:

Basic (PEOPLESOFT_DOMAIN)

Basic configuration values

The configuration elements defined in this group are always present in the agent configuration.

This group defines information that applies to the entire agent.

Table 1. Basic configuration values

Name	Description	Type	Value Required or Not Required	Default Value
Logging Level of the agent (KP8_LOG_LEVEL)	The log level of the PeopleSoft Application Domain agent.	One of the following values: "Debug", "Info", "Warn", "Error", "Fatal".	This value is required.	WARN
Peoplesoft Application Engine (PSAE) password (KP8_PSAE_ PASSWORD)	The PeopleSoft application engine (PSAE) password for the PSAE user account used by the IBM Tivoli Monitoring agent.	Password.	This value is required.	None
PeopleSoft Application Engine (PSAE) user name (KP8_PSAE_USER)	The PeopleSoft application engine (PSAE) user name that was configured for use with the IBM Tivoli Monitoring PeopleSoft agent.	String.	This value is required.	None
Name of the Watch Server message log (KP8_PSWATCHSRV _LOG_NAME)	The name of the log file that Watch Server messages are written to.	One of the following values: "APPSRV (PeopleTools 8.48 or 8.49)", "WATCHSRV (PeopleTools 8.50 or greater)".	This value is required.	APPSRV
Fully qualified path for Application Server config file (`psappsrv.cfg`) (KP8_PS_SERVER_ CFG)	The fully qualified path for the Application Domain configuration file (`psappsrv.cfg`).	String.	This value is required.	None.

Table 1. Basic configuration values (continued)

Name	Description	Type	Value Required or Not Required	Default Value
PeopleSoft Home (PS_HOME)	The path to the PeopleSoft home directory.	String.	This value is required.	None.

Remote installation and configuration

You can install the monitoring agent remotely from the Tivoli Enterprise Portal or from the command line.

When installing the agent remotely, you must provide the configuration values for the agent to operate. See “Configuration values” on page 14.

To install from the portal, see the *IBM Tivoli Monitoring Installation and Setup Guide*.

To remotely install or configure an agent through the Tivoli Enterprise Portal, you must have installed the application support for that agent (Tivoli Enterprise Monitoring Server, Tivoli Enterprise Portal Server, and Tivoli Enterprise Portal). You must also have installed the agent bundle into the Remote Deploy Depot.

For information about displaying the configuration options that are available to use with the **configureSystem** or **addSystem** commands see "tacmd describeSystemType" in the *IBM Tivoli Monitoring Command Reference*.

If you are using the command line, the following command is an example of remote installation and configuration for Windows operating systems after performing a remote configuration:

```
tacmd addSystem -t P8 -n Primary:sample.node.name:NT
-p  PEOPLESOFT_DOMAIN.KP8_LOG_LEVEL=value
 PEOPLESOFT_DOMAIN.KP8_PSAE_PASSWORD=value
 PEOPLESOFT_DOMAIN.KP8_PSAE_USER=value
 PEOPLESOFT_DOMAIN.KP8_PSWATCHSRV_LOG_NAME=value
 PEOPLESOFT_DOMAIN.KP8_PS_SERVER_CFG=value
 PEOPLESOFT_DOMAIN.PS_HOME=value
INSTANCE="inst1"
```

Chapter 3. Workspaces reference

A workspace is the working area of the Tivoli Enterprise Portal application window. The Navigator tree contains a list of the workspaces provided by the agent.

About workspaces

Use the Navigator tree to select the workspace you want to see. As part of the application window, the status bar shows the Tivoli Enterprise Portal Server name and port number to which the displayed information applies and the ID of the current user.

When you select an item in the Navigator tree, a default workspace is displayed. When you right-click a Navigator item, a menu that includes a Workspace item is displayed. The Workspace item contains a list of workspaces for that Navigator item. Each workspace has at least one view. Some views have links to other workspaces. You can also use the Workspace Gallery tool as described in the *Tivoli Enterprise Portal User's Guide* to open workspaces.

The workspaces in the Navigator are displayed in a Physical view that shows your enterprise as a physical mapping or a dynamically populated logical view that is agent-specific. You can also create a Logical view. The Physical view is the default view.

This monitoring agent provides predefined workspaces. You cannot modify or delete the predefined workspaces, but you can create new workspaces by editing them and saving the changes with a different name.

Workspace views can be any combination of query-based views, event views, and special purpose views.

Additional information about workspaces

For more information about creating, customizing, and working with workspaces, see "Using workspaces" in the *Tivoli Enterprise Portal User's Guide*.

For a list of the predefined workspaces for this monitoring agent and a description of each workspace, see Predefined workspaces and the information about each individual workspace.

Some attribute groups for this monitoring agent might not be represented in the predefined workspaces or views for this agent. For a full list of the attribute groups, see "Attribute groups for the monitoring agent" on page 25.

Predefined workspaces

The PeopleSoft Enterprise Application Domain agent provides predefined workspaces, which are organized by Navigator item.

- PeopleSoft Domain Navigator item
  - PeopleSoft Domain workspace
- Analytic Servers Navigator item
  - Analytic Servers workspace
- Availability Navigator item
  - Agent Messages workspace
  - Availability workspace
- Clients Navigator item

  - Clients workspace
- Configuration Navigator item
  - Configuration workspace
- Logs Navigator item
  - Logs workspace
  - Tuxedo Log workspace
- Schedulers Navigator item
  - Scheduler Process Distribution Status Counts workspace
  - Scheduler Process Run Status Counts workspace
  - Scheduler Status Counts workspace
  - Schedulers workspace
  - Selected Scheduler Server Activity workspace
- Tuxedo Navigator item
  - Tuxedo workspace
  - Tuxedo Counts workspace
  - Tuxedo Queues workspace

Workspace descriptions

Each workspace description provides information about the workspace such as the purpose and a list of views in the workspace.

Workspaces are listed under Navigator items.

PeopleSoft Domain Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant.

PeopleSoft Domain workspace
PeopleSoft Domain is the top-level workspace for the PeopleSoft Application Domain agent. This predefined workspace displays the overall state of one or more PeopleSoft Application Domains.

This workspace contains the following views:

PeopleSoft Domain Process CPU Usage
A bar chart that provides CPU total utilization information for critical PeopleSoft Application Domain processes.

PeopleSoft Domain Process Memory Usage
A bar chart that provides total memory utilization information for critical PeopleSoft Application Domain processes.

Critical Process Status
Provides Availability information for critical PeopleSoft Application Domain processes.

Client Count
Displays the total number of Tuxedo clients connected to the Domain.

Analytic Servers Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant.

Analytic Servers workspace
Analytic Servers is the default workspace for the Analytic Servers navigator node. Analytic Server is a predefined workspace that provides a summary of PeopleSoft Analytic Server on PeopleSoft Peopletools installations that have the Analytic Server (PSANALYTICSRV) enabled for the monitored domain. If the Analytic Server for the monitored domain is not enabled, this

workspace does not contain any data. The Analytic Servers workspace displays cached output. The default refresh or sampling interval for this cached data is 10 minutes. By using this default sampling interval, the agent does not put a significant load on the system or the PeopleSoft server while it gathers the data. To modify the default refresh interval, use Agent Configuration to modify the Agent Data collection interval. The minimum allowable setting is 1 minute.

This workspace contains the following views:

Analytic Servers State
Displays information about the Availability (as determined by PeopleTools) of Analytic Servers enabled for the Domain.

Analytic Servers
Provides information about the Analytic Server processes enabled for the Domain.

Availability Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant.

Agent Messages workspace
The Agent Messages Workspace is a predefined workspace that provides information about the overall health and status of the PeopleSoft Application Domain agent.

This workspace contains the following views:

Performance Object Status
Displays the data collection status for each agent attribute group. The status reflects the last attempt to collect data.

Agent Data Provider.Log
A table that contains information gathered from the PeopleSoft Application Domain Agent log file.

Availability workspace
The Availability workspace displays the overall health of the application.

This workspace contains the following views:

Availability
Displays the state of each component in the application. Each process is displayed by using a descriptive name, the name of the running process, and the state of the process (UP, DOWN, or PROCESS_DATA_NOT_AVAILABLE). When the state of the component is DOWN (for a process, or service), it is highlighted with a red background.

Processor
Displays the amount of CPU used by each process that is a component of the application. This view displays the two main components of CPU usage: *privileged time*, which is time spent in the kernel on behalf of the process, and *user mode time*, which is the time spent running the process code.

Threads
Displays the number of threads used by each process that is a component of the application.

Memory
Displays the amount of memory being consumed by each process that is a component of the application. This total (virtual) size of the process and the size of the process in memory (working set) are displayed.

Clients Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant.

Clients workspace

Clients is the default workspace for the Client Navigator group. Clients is a predefined workspace that provides monitoring information for Tuxedo clients connected to the monitored PeopleSoft Domain. The Clients workspace displays cached output. The default refresh or sampling interval for this cached data is 10 minutes. By using this default sampling interval, the agent does not put a significant load on the system or the PeopleSoft server while it gathers the data. To modify the default refresh interval, use Agent Configuration to modify the Agent Data collection interval. The minimum allowable setting is 1 minute.

This workspace contains the following views:

Client Count

A table that provides the total number of Tuxedo clients connected to the Domain.

Connected Client

A graph that indicates the total number of Tuxedo clients connected to the Domain.

Application Server Clients

A table that provides detailed information for each of the Tuxedo clients connected to the Domain.

Recent Client Count Trend

A graph that provides a summary of the number of connected Tuxedo clients for the Domain for up to the past hour.

Configuration Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant.

Configuration workspace

Configuration is the default workspace for the Configuration Navigator group. Configuration is a predefined workspace that provides information about PeopleSoft Application Domain configuration settings. The Configuration workspace displays cached output. The default refresh or sampling interval for this cached data is 10 minutes. By using this default sampling interval, the agent does not put a significant load on the system or the PeopleSoft server while it gathers the data. To modify the default refresh interval, use Agent Configuration to modify the Agent Data collection interval. The minimum allowable setting is 1 minute.

This workspace contains the following views:

Domain Features

A table containing a list of PeopleTools components and features that are enabled for the Domain.

Installed Languages

A table containing the list of languages that are enabled for the Domain.

Domain Configuration

A table containing configuration settings from key Domain configuration files.

More Domain Configuration

A table containing additional configuration settings from key Domain configuration files.

Domain Configuration - Ports

A table containing TCP/IP port information for key Domain related listening processes.

Logs Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant.

Logs workspace

Logs is the default workspace for the Logs Navigator node. Logs is a predefined workspace that provides detailed information from the current Application Domain log file and Watch Server log file.

This workspace contains the following views:

Application Server Log

A table that displays informational or error-related information from the Application Domain server log file. The Application Server Log is defined as the current APPSRV_{MMDD}.LOG.

Watch Server Log

A table that displays informational or error-related information from the Watch Server log entries found in the Application Domain server log file. The Application Server Log is defined as the current APPSRV_{MMDD}.LOG.

Tuxedo Log workspace

Tuxedo Log is a predefined workspace that provides detailed information from the current Tuxedo log (TUXLOG) file of the Domain.

This workspace contains the following view:

Tuxedo Log

A table that displays informational or error-related information from the Domain's Tuxedo (TUXLOG) server log file. The Tuxedo Server Log is defined as the current TUXLOG.{MMDDYY}.

Schedulers Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant.

Scheduler Process Distribution Status Counts workspace

Scheduler Process Distribution Status Counts is a predefined workspace that provides domain-wide, batch-related distribution counts for Process Schedulers configured to use the same database as the Domain. The Scheduler Process Distribution Status Counts workspace displays cached output. The default refresh or sampling interval for this cached data is 10 minutes. By using this default sampling interval, the agent does not put a significant load on the system or the PeopleSoft server while it gathers the data. To modify the default refresh interval, use Agent Configuration to modify the Agent Data collection interval. The minimum allowable setting is 1 minute.

This workspace contains the following views:

Posted Distribution Status Counts

A bar chart that indicates the total number of batch processes that posted successfully since the last purge.

Distribution Status Counts

A bar chart that summarizes domain-wide Process Scheduler activity as defined by Distribution Status. The totals represents the counts since the last purge.

Scheduler Process Run Status Counts workspace

Scheduler Process Run Status Counts is a predefined workspace that provides domain-wide, batch-related Run Status counts for Process Schedulers configured to use the same database as the Domain. The Scheduler Process Run Status Counts workspace displays cached output. The default refresh or sampling interval for this cached data is 10 minutes. By using this default sampling interval, the agent does not put a significant load on the system or the PeopleSoft server while it gathers the data. To modify the default refresh interval, use Agent Configuration to modify the Agent Data collection interval. The minimum allowable setting is 1 minute.

This workspace contains the following views:

Successful Run Status Counts
A bar chart that indicates the total number of batch processes that have run successfully since the last Purge.

Run Status Counts
A bar chart that summarizes domain-wide Process Scheduler activity as defined by Run Status codes. The totals represent the counts since the last purge.

Scheduler Status Counts workspace
Scheduler Status Counts is a predefined workspace that provides Domain-wide status information for all of the Process Schedulers that are configured to use the same database as the Domain. The Scheduler Status Counts workspace displays cached output. The default refresh or sampling interval for this cached data is 10 minutes. By using this default sampling interval, the agent does not put a significant load on the system or the PeopleSoft server while it gathers the data. To modify the default refresh interval, use Agent Configuration to modify the Agent Data collection interval. The minimum allowable setting is 1 minute.

This workspace contains the following views:

Domain Scheduler's Server List
A table the provides a list of all of the Process Schedulers for the Domain.

Scheduler Run Status Counts
A table that displays domain-wide, batch-related Run Status counts for Process Schedulers configured to use the same database as the Domain.

Scheduler Distribution Status Counts
A table that displays domain-wide, batch-related distribution counts for Process Schedulers configured to use the same database as the Domain.

Schedulers workspace
Schedulers is the default workspace for the Schedulers navigator node. Schedulers is a predefined workspace that provides monitoring information for Process Schedulers that are connected to the same database the monitored PeopleSoft Domain is configured to use. The Schedulers workspace displays cached output. The default refresh or sampling interval for this cached data is 10 minutes. By using this default sampling interval, the agent does not put a significant load on the system or the PeopleSoft server while it gathers the data. To modify the default refresh interval, use Agent Configuration to modify the Agent Data collection interval. The minimum allowable setting is 1 minute.

This workspace contains the following views:

Domain Schedulers Server List
A table that provides a list of all of the Process Schedulers for the Domain.

Domain Wide Run Status Totals
A graph that provides a domain-wide view of current Process Scheduler activity.

Domain Wide Distribution Status Totals
A graph that provides a domain-wide view of current Process Scheduler Distribution Status.

Selected Scheduler Server Activity workspace
Selected Scheduler Server Activity is a predefined workspace that displays information related to Process Scheduler activity for a particular Process Scheduler and the relationship of that activity as compared to Max Concurrent settings. You can use this workspace to categorize the types and categories of Process Scheduler activity and plan for adjustments to improve performance. The Selected Scheduler Server Activity workspace displays cached output. The default refresh or sampling interval for this cached data is 10 minutes. By using this default sampling interval, the agent does not put a significant load on the system or the PeopleSoft server while it gathers the data. To modify the default refresh interval, use Agent Configuration to modify the Agent Data collection interval. The minimum allowable setting is 1 minute.

This workspace contains the following views:

Scheduler Server
A table that displays information about a selected Process Scheduler.

Selected Server Process Category Activity
A graph that indicates the process count by Process Category and compares it to the Process Scheduler Max Concurrent setting for each category.

Selected Server Process Type Activity
A graph that indicates the process count by Process Type and compares it to the Process Scheduler Max Concurrent setting for each type.

Tuxedo Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant.

Tuxedo workspace
Tuxedo is the default workspace for the Tuxedo Navigator group. Tuxedo is a predefined workspace that provides monitoring information for Tuxedo-related Clients, Server Requests, and Requests Queued. The Tuxedo workspace displays cached output. The default refresh or sampling interval for this cached data is 10 minutes. By using this default sampling interval, the agent does not put a significant load on the system or the PeopleSoft server while it gathers the data. To modify the default refresh interval, use Agent Configuration to modify the Agent Data collection interval. The minimum allowable setting is 1 minute.

This workspace contains the following views:

Clients
A table summarizing connected Tuxedo clients.

Server Processes
A table summarizing the status of each Tuxedo-related server process for the Domain.

Queues
A table summarizing the queue status for each Tuxedo-related server process for the Domain.

Tuxedo Counts workspace
Tuxedo Counts is a predefined workspace that provides monitoring information in table format for Tuxedo Clients, Server Processes, and Server Queues. The Tuxedo Tables workspace displays cached output. The default refresh or sampling interval for this cached data is 10 minutes. By using this default sampling interval, the agent does not put a significant load on the system or the PeopleSoft server while it gathers the data. To modify the default refresh interval, use Agent Configuration to modify the Agent Data collection interval. The minimum allowable setting is 1 minute.

This workspace contains the following views:

Client Process Counts
A graph indicating the the types of Tuxedo client connections and a count for each connection.

Server Requests Done
A graph summarizing the amount of Server Requests Done for key Domain-related Tuxedo processes.

Requests Queued
A graph summarizing the amount of Server Requests Queued for key Domain-related Tuxedo processes.

Tuxedo Queues workspace
Tuxedo Queues is a predefined workspace that provides Tuxedo queue status information for up

to the past hour. The Tuxedo Queues workspace displays cached output. The default refresh or sampling interval for this cached data is 10 minutes. By using this default sampling interval, the agent does not put a significant load on the system or the PeopleSoft server while it gathers the data. To modify the default refresh interval, use Agent Configuration to modify the Agent Data collection interval. The minimum allowable setting is 1 minute.

This workspace contains the following views:

Application Server Queue (Graph)
A graph that provides queue status for the Tuxedo Application Server (PSAPPSRV) server process for up to the past hour.

Application Server Queue (Table)
A table that provides queue status for the Tuxedo Application Server (PSAPPSRV) server process for up to the past hour.

Quick Server Queue
A graph that provides queue status for the Tuxedo Quick Server (PSQCKSRV) server process for up to the past hour.

Query Server Queue
A graph that provides queue status for the Tuxedo Query Server (PSQRYSRV) server process for up to the past hour.

Chapter 4. Attributes reference

Attributes are the application properties that are being measured and reported by the IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain.

About attributes

Attributes are organized into attribute groups. Attributes in an attribute group relate to a single object such as an application, or to a single kind of data such as status information.

Attributes in a group can be used in queries, query-based views, situations, policy workflows, take action definitions, and launch application definitions. Chart or table views and situations are two examples of how attributes in a group can be used:

- Chart or table views

  Attributes are displayed in chart and table views. The chart and table views use queries to specify which attribute values to request from a monitoring agent. You use the Properties editor to apply filters and set styles to define the content and appearance of a view based on an existing query.
- Situations

  You use attributes to create situations that monitor the state of your operating system, database, or application. A situation describes a condition you want to test. When you start a situation, the values you have assigned to the situation attributes are compared with the values collected by the PeopleSoft Enterprise Application Domain agent and registers an *event* if the condition is met. You are alerted to events by indicator icons that are displayed in the Navigator.

Additional information about attributes

For more information about using attributes and attribute groups, see the *Tivoli Enterprise Portal User's Guide*.

For a list of the attribute groups, a list of the attributes in each attribute group, and descriptions of the attributes for this monitoring agent, see "Attribute groups for the monitoring agent" and "Attributes in each attribute group" on page 27.

Attribute groups for the monitoring agent

The PeopleSoft Enterprise Application Domain agent contains the following attribute groups. The table name depends on the maximum table name limits of the target database being used for the Tivoli Data Warehouse. If the maximum name is 30 characters, any warehouse table name longer than 30 characters is shortened to 30 characters.

- Attribute group name: Agent Data Provider Log
- Attribute group name: Agent Diagnostics
  - Table name: KP8ITMPSAV
  - Warehouse table name: KP8_AGENT_DIAGNOSTICS or KP8ITMPSAV
- Attribute group name: Analytic Servers
  - Table name: KP8AS
  - Warehouse table name: KP8_ANALYTIC_SERVERS or KP8AS
- Attribute group name: Application Server Clients
  - Table name: KP8ASCS
  - Warehouse table name: KP8_APPLICATION_SERVER_CLIENTS or KP8ASCS

- Attribute group name: Application Server Log PSAPPSRV
- Attribute group name: Application Server Queues
  - Table name: KP8ASQS
  - Warehouse table name: KP8_APPLICATION_SERVER_QUEUES or KP8ASQS
- Attribute group name: Application Server Servers
  - Table name: KP8ASPS
  - Warehouse table name: KP8_APPLICATION_SERVER_SERVERS or KP8ASPS
- Attribute group name: Availability
  - Table name: KP8AVAIL
  - Warehouse table name: KP8_AVAILABILITY or KP8AVAIL
- Attribute group name: Client Count
  - Table name: KP8CCC
  - Warehouse table name: KP8_CLIENT_COUNT or KP8CCC
- Attribute group name: Domain Configuration
  - Table name: KP8DCONFIG
  - Warehouse table name: KP8_DOMAIN_CONFIGURATION or KP8DCONFIG
- Attribute group name: Domain Features
- Attribute group name: Installed Languages
  - Table name: KP8IL
  - Warehouse table name: KP8_INSTALLED_LANGUAGES or KP8IL
- Attribute group name: Performance Object Status
  - Table name: KP8POBJST
  - Warehouse table name: KP8_PERFORMANCE_OBJECT_STATUS or KP8POBJST
- Attribute group name: Scheduler Dist Status Counts
  - Table name: KP8SDSC
  - Warehouse table name: KP8_SCHEDULER_DIST_STATUS_COUNTS or KP8SDSC
- Attribute group name: Scheduler Run Status Counts
  - Table name: KP8SRSC
  - Warehouse table name: KP8_SCHEDULER_RUN_STATUS_COUNTS or KP8SRSC
- Attribute group name: Server List
  - Table name: KP8SL
  - Warehouse table name: KP8_SERVER_LIST or KP8SL
- Attribute group name: Server Process Category Activity
  - Table name: KP8SPCA
  - Warehouse table name: KP8_SERVER_PROCESS_CATEGORY_ACTIVITY or KP8SPCA
- Attribute group name: Server Process Type Activity
  - Table name: KP8SPTA
  - Warehouse table name: KP8_SERVER_PROCESS_TYPE_ACTIVITY or KP8SPTA
- Attribute group name: Thread Pool Status
  - Table name: KP8THPLST
  - Warehouse table name: KP8_THREAD_POOL_STATUS or KP8THPLST
- Attribute group name: Tuxedo Log
- Attribute group name: Watch Server In PSAPPSRV Log

Attributes in each attribute group

Attributes in each PeopleSoft Enterprise Application Domain agent attribute group collect data that the agent uses for monitoring.

The descriptions of the attribute groups contain the following information:

Historical group
Whether the attribute group is a historical type that you can roll off to a data warehouse.

Attribute descriptions
Description, type, and Warehouse name (if applicable) for each attribute in the attribute group.

Some attributes are designated as key attributes. A *key attribute* is an attribute that is used in warehouse aggregation to identify rows of data that represent the same object.

Agent Data Provider Log attribute group

This attribute group contains information gathered from the PeopleSoft Application Domain agent log file.

Historical group
This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Agent Data Provider Log attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Date attribute

Description
Date of message

Type String

Time attribute

Description
Time of message

Type String

Severity attribute

Description
Severity of message

Type String

Server Name attribute

Description
Name of the server that generated the message

Type String

Thread attribute

Description
Name of the thread that generated the message

Type String

Class attribute

Description
Name of the class that generated the message

Type String

Method attribute

Description
Name of the method that generated the message

Type String

Log Entry Text attribute

Description
Log entry text

Type String

Log File Name attribute

Description
Log file name

Type String

Agent Diagnostics attribute group

This attribute group contains diagnostic information related to the version control of various components of the PeopleSoft Application Domain agent.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Agent Diagnostics attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

ITM App Engine Version Number attribute

Description
The version of the IBM Tivoli Monitoring App Engine Project loaded into the PeopleSoft Domain

Type String

Warehouse name
ITMPSV or PSAEVER

PeopleTools Version attribute

Description
The version of PeopleTools installed on the system

Type String

Warehouse name
PSPTVER

Custom Data Provider Version attribute

Description
The version number of the PeopleSoft Application Domain agent custom data provider

Type String

Warehouse name
PSDPV

Analytic Servers attribute group

This attribute group contains a summary of the analytic servers of a Domain if any Analytic Server (PSANALYTICSRV) is enabled on the Domain.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Analytic Servers attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Machine Name attribute - This attribute is a key attribute.

Description
TCP/IP host name of the computer for the domain

Type String

Warehouse name
MACHINE_NAME or MACHINE_NA

Process Identifier attribute

Description
Operating System Process Identifier for the selected analytic server instance

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESS_IDENTIFIER or PROCESS_ID

Registration Date Time attribute

Description
For analytic servers, this attribute is the date and time when the analytic server was started. For Application Engine types, this attribute is the date and time when the application engine process loaded a selected analytic instance.

Type Timestamp

Warehouse name
REGISTRATION_DATE_AND_TIME or REGISTRATI

Engine Type attribute

Description
Engine Type of Processes status from which information is gathered. Possible types include Analytic Server, Application Engine Server, and Application Engine.

Type String

Warehouse name
ENGINE_TYPE or ENGINE_TYP

Remote Access Allowed attribute

Description
Remote Access Allowed (Yes or No)

Type String

Warehouse name
REMOTE_ACCESS_ALLOWED or REMOTE_ACC

Accepting Requests attribute

Description
Accepting Requests (Yes or No)

Type String

Warehouse name
ACCEPTING_REQUESTS or ACCEPTING_

State attribute

Description
Server states to which the analytic server limits searches. State types include Available, Registered, Loading, Idle, Executing, and Terminate.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Available (0)
- Idle (1)
- Loading (2)
- Registered (3)
- Terminate (4)
- Executing (5)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATE

Analytic Instance attribute

Description
Instance of an analytic type

Type String

Warehouse name
ANALYTIC_INSTANCE or ANALYTIC_I

Loaded by User ID attribute

Description
User ID of the user whose activity resulted in the creation of the selected analytic server instance

Type String

Warehouse name
LOADED_BY_USER_ID or LOADED_BY_

Time Loaded attribute

Description
Date and time when the selected analytic server instance loaded its analytic instance

Type Timestamp

Warehouse name
TIME_LOADED or TIME_LOADE

Latest Operation attribute

Description
Last operation that was applied to the analytic instance

Type String

Warehouse name
LATEST_OPERATION or LATEST_OPE

Latest Operation by User ID attribute

Description
User who applied the last operation to the analytic server instance

Type String

Warehouse name
LATEST_OPERATION_BY_USER_ID or LATEST_UID

Latest Operation Start Time attribute

Description
Date and time the last operation on the selected analytic instance was started

Type Timestamp

Warehouse name
LATEST_OPERATION_START_TIME or LATEST_OP0

Latest Operation End Time attribute

Description
Date and time when the last operation the selected analytic instance was completed

Type Timestamp

Warehouse name
LATEST_OPERATION_END_TIME or LATEST_END

Domain attribute - This attribute is a key attribute.

Description
Name of the Active Application Server domain

Type String

Warehouse name
DOMAIN

Port Number attribute

Description
TCP/IP port number

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PORT_NUMBER or PORT_NUMBE

Tuxedo Server ID attribute

Description
Tuxedo Server ID

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TUXEDO_SERVER_ID or TUXEDO_SER

Timeout attribute

Description
Timeout interval (in minutes) for the analytic instance. A value of 0 indicates the analytic instance has an unlimited lifespan.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TIMEOUT

Message/Name attribute

Description
Application message sent when the analytic instance cannot be unloaded successfully and is terminated

Type String

Warehouse name
MESSAGE_NAME or MESSAGE_NA

Application Server Clients attribute group

This attribute group contains detailed information about each client connected to the PeopleSoft Application Domain.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Application Server Clients attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Logical Machine Identifier (LMID) attribute - This attribute is a key attribute.

Description
Tuxedo Logical Machine Identifier (LMID)

Type String

Warehouse name
LMID

User Name attribute - This attribute is a key attribute.

Description
Tuxedo attached user name

Type String

Warehouse name
USER_NAME

Client Name attribute - This attribute is a key attribute.

Description
Tuxedo attached client name

Type String

Warehouse name
CLIENT_NAME or CLIENT_NAM

Time attribute - This attribute is a key attribute.

Description
Amount of time the client has been attached

Type String

Warehouse name
TIME

Status attribute

Description
The current status of the client

Type String

Warehouse name
STATUS

Begin attribute

Description
(Tuxedo) Client transactions begun

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BEGIN

Commit attribute

Description
(Tuxedo) Client transactions committed

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
COMMIT

Abort attribute

Description
(Tuxedo) Client transactions aborted

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ABORT

Count attribute

Description
(Tuxedo) Client count

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
COUNT

Application Server Log PSAPPSRV attribute group

This attribute group contains information gathered from the Application Server for the Domain (PSAPPSRV) log.

Historical group
This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Application Server Log PSAPPSRV attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Server Type attribute

Description
Name of the PeopleSoft process logging the message

Type String

PID attribute

Description
Process ID

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Code attribute

Description
Code

Type String

Transaction Info attribute

Description
Transaction information

Type String

Severity attribute

Description
Log severity level

Type String

Log Entry Text attribute

Description
Log entry text

Type String

Log File Name attribute

Description
Log file name

Type String

Application Server Queues attribute group

This attribute group contains information about Tuxedo related Application Server queues for the Domain.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Application Server Queues attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Prog Name attribute - This attribute is a key attribute.

Description
Tuxedo program name

Type String

Warehouse name
PROG_NAME

Queue Name attribute - This attribute is a key attribute.

Description
The queue name

Type String

Warehouse name
QUEUE_NAME

Number Servers using Queue attribute

Description
The number of servers using the queue

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)

- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_SERVE or NUMBER_SER

Work Queued attribute

Description
Amount of work queued

Type String

Warehouse name
WK_QUEUED

Number Queued attribute

Description
The number of requests queued

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_QUEUED or NUMBER_QUE

Average Length attribute

Description
The average length of the queue

Type String

Warehouse name
AVE_LEN or AVE_LENG

Machine attribute

Description
TCP/IP host name of the server where the process is running

Type String

Warehouse name
MACHINE

Requests Done attribute

Description
Number of requests done

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RQ_DONE

Client Count attribute

Description
Client count

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CLIENT_COUNT or CLIENT_CNT

Idle Percentage attribute

Description
Idle percentage

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IDLE_PERCENTAGE or IDLE_PCT

Application Server Servers attribute group

This attribute group contains information about Tuxedo-related Application Server processes for the Domain.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Application Server Servers attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Process Name attribute - This attribute is a key attribute.

Description
Application Server process name

Type String

Warehouse name
PROCESS_NAME or PROCESS_NA

Queue Name attribute - This attribute is a key attribute.

Description
Application Server queue name

Type String

Warehouse name
QUEUE_NAME

Group Name attribute - This attribute is a key attribute.

Description
Application Server group name

Type String

Warehouse name
GRP_NAME

Process ID attribute - This attribute is a key attribute.

Description
Application Server process ID

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ID

Requests Done attribute

Description
Number of requests done

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RQ_DONE

Load Done attribute

Description
Amount of load done

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOAD_DONE

Current Service attribute

Description
Current service

Type String

Warehouse name
CURRENT_SERVICE or CURRENT_SE

Availability attribute group

The Availability attribute group contains the availability data for all processes and services that make up this application.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Availability attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Application Component attribute - This attribute is a key attribute.

Description
The descriptive name of a part of the application.

Type String

Warehouse name
APPLICATION_COMPONENT or COMPONENT

Name attribute

Description
The name of the process, service, or functionality test. This name matches the executable name of the process, the service short name or the name of the process used to test the application.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- N/A (N/A)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NAME

Status attribute

Description
The status of the application component.

- For processes 'UP', 'DOWN', 'WARNING', or 'PROCESS_DATA_NOT_AVAILABLE': 'PROCESS_DATA_NOT_AVAILABLE' is displayed for a process when the matching process is running but the resource use information cannot be collected for that process.
- For services 'UP', 'DOWN', or 'UNKNOWN': 'UNKNOWN' is displayed when the service is not installed.
- For functionality tests: 'PASSED' or 'FAILED' is displayed.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- DOWN (0)
- UP (1)
- WARNING (2)
- UNKNOWN (3)
- PASSED (4)
- FAILED (5)
- PROCESS DATA NOT AVAILABLE (6)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Full Name attribute

Description
The full name of the process including the path.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise

Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- N/A (N/A)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FULL_NAME or FULLNAME

Type attribute

Description
The type of the application component. Components are processes, services, or functionality tests.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- PROCESS (0)
- SERVICE (1)
- FUNCTIONALITY TEST (2)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TYPE

Virtual Size attribute

Description
The virtual size (in MB) of the process.

Type Integer (32-bit gauge)

Warehouse name
VIRTUAL_SIZE or VIRTSIZE

Page Faults per Sec attribute

Description
The rate of page faults for the process measured in faults per second. This attribute only contains valid data for processes.

Type Integer (32-bit gauge)

Warehouse name
PAGE_FAULTS_PER_SEC or PAGEFAULTS

Working Set Size attribute

Description
The working set size of the process in MB. This attribute only contains valid data for processes.

Type Integer (32-bit gauge)

Warehouse name
WORKING_SET_SIZE or WORKSET

Thread Count attribute

Description
The number of threads currently allocated by this process. This attribute only contains valid data for processes.

Type Integer (32-bit gauge)

Warehouse name
THREAD_COUNT or THREADS

PID attribute

Description
The process ID associated with the process. This attribute only contains valid data for processes.

Type Integer (32-bit gauge)

Warehouse name
PID

Percent Privileged Time attribute

Description
The percentage of the available CPU time that is being used by this process for privileged operation.

Type Integer (32-bit gauge)

Warehouse name
PERCENT_PRIVILEGED_TIME or PERCPRIV

Percent User Mode Time attribute

Description
The percentage of the available CPU time that is being used by this process for user mode operation.

Type Integer (32-bit gauge)

Warehouse name
PERCENT_USER_MODE_TIME or PERCUSER

Percent Processor Time attribute

Description
The percentage of the elapsed time that this process used the processor to execute instructions.

Type Integer (32-bit gauge)

Warehouse name
PERCENT_PROCESSOR_TIME or PERCPROC

Command Line attribute

Description
The program name and any arguments specified on the command line when the process was started. This has the value N/A if this is a Service, or Functionality test.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- N/A (N/A)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
COMMAND_LINE or CMDLINE

Functionality Test Status attribute

Description
The return code of the functionality test. When the monitored application is running correctly, 'SUCCESS' is displayed. 'NOT_RUNNING' is displayed when it is not running correctly. 'N/A' is displayed when the row does not represent a functionality test.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- SUCCESS (0)
- N/A (1)
- GENERAL ERROR (2)
- WARNING (3)
- NOT RUNNING (4)
- DEPENDENT NOT RUNNING (5)
- ALREADY RUNNING (6)
- PREREQ NOT RUNNING (7)
- TIMED OUT (8)
- DOESNT EXIST (9)
- UNKNOWN (10)
- DEPENDENT STILL RUNNING (11)
- INSUFFICIENT USER AUTHORITY (12)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FUNCTIONALITY_TEST_STATUS or FUNCSTATUS

Functionality Test Message attribute

Description
The text message that corresponds to the Functionality Test Status. This is only valid for functionality tests.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- N/A (N/A)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FUNCTIONALITY_TEST_MESSAGE or FUNCMSG

Client Count attribute group

This attribute group contains a count of the number of Tuxedo clients connected to the Domain.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Client Count attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Service Name attribute

Description
Service name

Type String

Warehouse name
SERVICE

Client Count attribute

Description
Number of connected clients

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
COUNT

Domain Configuration attribute group

This attribute group contains configuration data gathered from the critical configuration files of the Domain.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Domain Configuration attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

PS HOME attribute

Description
Directory where PeopleSoft was installed

Type String

Warehouse name
PS_HOME

PS HOSTTYPE attribute

Description
PeopleSoft host operating system

Type String

Warehouse name
PS_HOSTTYPE or PS_HOSTTYP

PS DB attribute

Description
PeopleSoft database platform

Type String

Warehouse name
PS_DB

TUXDIR attribute

Description
BEA Tuxedo home directory

Type String

Warehouse name
TUXDIR

Owner ID attribute

Description
PSStatus owner ID

Type String

Warehouse name
OWNER_ID

Tools Release attribute

Description
PSStatus tools release

Type String

Warehouse name
TOOLS_RELEASE or TOOLS_RELE

Unicode Enabled attribute

Description
PSStatus Unicode enabled

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
UNICODE_ENABLED or UNICODE_EN

Domain ID attribute

Description
PeopleSoft domain name

Type String

Warehouse name
DOMAIN_ID

LogFence attribute

Description
Level of network tracing ranging from -100 (suppressing) to 5 (all)

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOGFENCE

DB Name attribute

Description
PeopleSoft database name

Type String

Warehouse name
DB_NAME

DB Type attribute

Description
PeopleSoft database type

Type String

Warehouse name
DB_TYPE

User ID attribute

Description
PeopleSoft user ID that is authorized to start the application server

Type String

Warehouse name
USER_ID

Connect ID attribute

Description
The database ID that PeopleSoft uses to make the initial connection to the database

Type String

Warehouse name
CONNECT_ID

Server Name attribute

Description
Server name

Type String

Warehouse name
SERVER_NAME or SERVERNAME

Debug Listener Port attribute

Description
TCP/IP port on which the PeopleSoft Debugger Server Process listens

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DEBUG_LISTENER_PORT or DEBUG_LIST

DB Monitoring attribute

Description
Enable database monitoring for use in database-level auditing (Yes or No)

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DB_MONITORING or DB_MONITOR

Trace PC attribute

Description
Level for PeopleCode tracing for activity that is generated by all clients on a domain

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TRACE_PC

Trace PC Mask attribute

Description
Trace PeopleCode mask

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TRACE_PC_MASK or TRACE_PC_M

Trace SQL attribute

Description
Logging level for SQL tracing

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TRACE_SQL

Trace SQL Mask attribute

Description
Logging level ceiling for SQL tracing for individual clients

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TRACE_SQL_MASK or TRACE_SQL_

WL Address attribute

Description
Workstation listener TCP/IP address

Type String

Warehouse name
WL_ADDRESS

WL Port attribute

Description
TCP/IP port on which the workstation listener (WSL) listens

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WL_PORT

WL Encryption attribute

Description
Workstation listener (WSL) encryption

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WL_ENCRYPTION or WL_ENCRYPT

WL Min Handlers attribute

Description
Minimum number of workstation listener (WSHs) handlers

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WL_MIN_HANDLERS or WL_MIN_HAN

WL Max Handlers attribute

Description
Maximum number of workstation listener (WSHs) handlers

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WL_MAX_HANDLERS or WL_MAX_HAN

WL Max Clients Per Handler attribute

Description
Maximum workstation clients per handler

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WL_MAX_CLIENTS_PER_HANDLER or WL_MAX_CLT

WL Client Cleanup Timeout attribute

Description
Client Cleanup Timeout

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)

- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WL_CLIENT_CLEANUP_TIMEOUT or WL_CLI_TO

JL Address attribute

Description
JOLT listener TCP/IP address

Type String

Warehouse name
JL_ADDRESS

JL Port attribute

Description
TCP/IP port on which the JOLT listener listens

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
JL_PORT

JL Encryption attribute

Description
JOLT listener encryption

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
JL_ENCRYPTION or JL_ENCRYPT

JL Min Handlers attribute

Description
Minimum number of JOLT (JSH) listener handlers

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)

- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
JL_MIN_HANDLERS or JL_MIN_HAN

JL Max Handlers attribute

Description
Maximum JOLT (JSH) listener handlers

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
JL_MAX_HANDLERS or JL_MAX_HAN

JL Max Clients attribute

Description
Maximum clients per JOLT (JSH) listener handler

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
JL_MAX_CLIENTS or JL_MAX_CLI

Jolt Relay Adapter Port attribute

Description
TCP/IP port on which the JOLT relay adapter listener listens

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
JOLT_RELAY_ADAPTER_PORT or JL_RLY_PT

Jolt Relay Adapter Address attribute

Description
JOLT relay adapter listener TCP/IP address

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
JOLT_RELAY_ADAPTER_ADDRESS or JL_RLY_ADD

APPSRV Min Instances attribute

Description
Minimum number of application server (PSAPPSRV) instances

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APPSRV_MIN_INSTANCES or APPSRV_MIN

APPSRV Max Instances attribute

Description
Maximum number of application server (PSAPPSRV) instances

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APPSRV_MAX_INSTANCES or APPSRV_MAX

APPSRV Recycle Count attribute

Description
Application server (PSAPPSRV) recycle count

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)

- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APPSRV_RECYCLE_COUNT or APPSRV_REC

Analytic Server Min Instances attribute

Description
Minimum analytic server number of (PSANALYTICSRV) instances

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ANALYTIC_SERVER_MIN_INSTANCES or ANALY_MIN

Analytic Server Max Instances attribute

Description
Maximum analytic server number of (PSANALYTICSRV) instances

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ANALYTIC_SERVER_MAX_INSTANCES or ANALY_MAX

SQL Access Manager Min Instances attribute

Description
Minimum number of SQL access manager server instances

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SQL_ACCESS_MANAGER_MIN_INSTANCES or SAM_MIN

SQL Access Manager Max Instances attribute

Description
Maximum number of SQL access manager server instances

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SQL_ACCESS_MANAGER_MAX_INSTANCES or SAM_MAX

Quick Server Min Instances attribute

Description
Minimum number of Quick server (PSQCKSRV) instances

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
QUICK_SERVER_MIN_INSTANCES or QUICK_MIN

Quick Server Max Instances attribute

Description
Maximum number of Quick server (PSQCKSRV) instances

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
QUICK_SERVER_MAX_INSTANCES or QUICK_MAX

Query Server Min Instances attribute

Description
Minimum number of Query server (PSQRYSRV) instances

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)

- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
QUERY_MIN_INSTANCES or QUERY_MIN

Query Server Max Instances attribute

Description
Maximum number of Query server (PSQRYSRV) instances

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
QUERY_MAX_INSTANCES or QUERY_MAX

Remote Event Notification HTTP Port attribute

Description
Remote Event Notification default HTTP port

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REMOTE_EVENT_NOTIFICATION_HTTP_PORT or REN_HTTP

Remote Event Notification HTTPS Port attribute

Description
TCP/IP port on which the Remote Event Notification default HTTPS listener listens

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REMOTE_EVENT_NOTIFICATION_HTTPS_PORT or REN_HTTPS

Performance Monitor Min Instances attribute

Description
Minimum number of PeopleSoft Performance Monitor server (PSPPMSRV) instances

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PERFORMANCE_MONITOR_MIN_INSTANCES or PPM_MIN

Performance Monitor Max Instances attribute

Description
Maximum number of PeopleSoft Performance Monitor server (PSPPMSRV) instances

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PERFORMANCE_MONITOR_MAX_INSTANCES or PPM_MAX

Domain Features attribute group

This attribute group contains information about the PeopleTools components and features enabled for the Domain.

Historical group
This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Domain Features attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Domain Feature attribute - This attribute is a key attribute.

Description
Server name

Type String

Enabled attribute

Description
Whether the feature is enabled (Yes or No)

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- (0)
- True (1)
- Invalid (2)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Installed Languages attribute group

This attribute group contains information about the set of installed languages enabled for the Domain.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Installed Languages attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

ISO Locale attribute - This attribute is a key attribute.

Description
ISO Locale installed for domain

Type String

Warehouse name
ISO_LOCALE

Description attribute

Description
Description of the ISO Locale

Type String

Warehouse name
DESCRIPTION or DESCRIPTIO

Character Set attribute

Description
Character set type for ISO Locale

Type String

Warehouse name
CHARSET

Performance Object Status attribute group

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all of the performance objects that make up this application all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, which allows you to see whether the agent is performing correctly. Unlike other attribute groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Performance Object Status attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Query Name attribute - This attribute is a key attribute.

Description
The name of the attribute group.

Type String

Warehouse name
QUERY_NAME or ATTRGRP

Object Name attribute

Description
The name of the performance object.

Type String

Warehouse name
OBJECT_NAME or OBJNAME

Object Type attribute

Description
The type of the performance object.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- WMI (0)
- PERFMON (1)
- WMI ASSOCIATION GROUP (2)
- JMX (3)
- SNMP (4)
- SHELL COMMAND (5)
- JOINED GROUPS (6)
- CIMOM (7)
- CUSTOM (8)
- ROLLUP DATA (9)
- WMI REMOTE DATA (10)
- LOG FILE (11)
- JDBC (12)
- CONFIG DISCOVERY (13)
- NT EVENT LOG (14)
- FILTER (15)
- SNMP EVENT (16)
- PING (17)
- DIRECTOR DATA (18)
- DIRECTOR EVENT (19)
- SSH REMOTE SHELL COMMAND (20)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OBJECT_TYPE or OBJTYPE

Object Status attribute

Description
The status of the performance object.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ACTIVE (0)
- INACTIVE (1)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OBJECT_STATUS or OBJSTTS

Error Code attribute

Description
The error code associated with the query.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO ERROR (0)
- GENERAL ERROR (1)
- OBJECT NOT FOUND (2)
- COUNTER NOT FOUND (3)
- NAMESPACE ERROR (4)
- OBJECT CURRENTLY UNAVAILABLE (5)
- COM LIBRARY INIT FAILURE (6)
- SECURITY INIT FAILURE (7)
- PROXY SECURITY FAILURE (9)
- NO INSTANCES RETURNED (10)
- ASSOCIATOR QUERY FAILED (11)
- REFERENCE QUERY FAILED (12)
- NO RESPONSE RECEIVED (13)
- CANNOT FIND JOINED QUERY (14)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 1 RESULTS (15)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 2 RESULTS (16)
- QUERY 1 NOT A SINGLETON (17)
- QUERY 2 NOT A SINGLETON (18)
- NO INSTANCES RETURNED IN QUERY 1 (19)
- NO INSTANCES RETURNED IN QUERY 2 (20)
- CANNOT FIND ROLLUP QUERY (21)
- CANNOT FIND ROLLUP ATTRIBUTE (22)
- FILE OFFLINE (23)
- NO HOSTNAME (24)
- MISSING LIBRARY (25)
- ATTRIBUTE COUNT MISMATCH (26)
- ATTRIBUTE NAME MISMATCH (27)
- COMMON DATA PROVIDER NOT STARTED (28)
- CALLBACK REGISTRATION ERROR (29)
- MDL LOAD ERROR (30)
- AUTHENTICATION FAILED (31)
- CANNOT RESOLVE HOST NAME (32)
- SUBNODE UNAVAILABLE (33)
- SUBNODE NOT FOUND IN CONFIG (34)
- ATTRIBUTE ERROR (35)
- CLASSPATH ERROR (36)
- CONNECTION FAILURE (37)

- FILTER SYNTAX ERROR (38)
- FILE NAME MISSING (39)
- SQL QUERY ERROR (40)
- SQL FILTER QUERY ERROR (41)
- SQL DB QUERY ERROR (42)
- SQL DB FILTER QUERY ERROR (43)
- PORT OPEN FAILED (44)
- ACCESS DENIED (45)
- TIMEOUT (46)
- NOT IMPLEMENTED (47)
- REQUESTED A BAD VALUE (48)
- RESPONSE TOO BIG (49)
- GENERAL RESPONSE ERROR (50)
- SCRIPT NONZERO RETURN (51)
- SCRIPT NOT FOUND (52)
- SCRIPT LAUNCH ERROR (53)
- CONF FILE DOES NOT EXIST (54)
- CONF FILE ACCESS DENIED (55)
- INVALID CONF FILE (56)
- EIF INITIALIZATION FAILED (57)
- CANNOT OPEN FORMAT FILE (58)
- FORMAT FILE SYNTAX ERROR (59)
- REMOTE HOST UNAVAILABLE (60)
- EVENT LOG DOES NOT EXIST (61)
- PING FILE DOES NOT EXIST (62)
- NO PING DEVICE FILES (63)
- PING DEVICE LIST FILE MISSING (64)
- SNMP MISSING PASSWORD (65)
- DISABLED (66)
- URLS FILE NOT FOUND (67)
- XML PARSE ERROR (68)
- PSAE BAD EXIT STATUS (1000)
- PS SERVER CONFIG NOT FOUND (1001)
- UBB FILE NOT FOUND (1002)
- QUERY FILE NOT FOUND (1003)
- PSAE AUTHENTICATION FAILURE (1004)
- QUERY FILE WRITE ERROR (1005)
- TEMP FILE CREATION ERROR (1006)
- ITM DATE TRANSLATION ERROR (1007)
- PSAE EXECUTION FAILURE (1008)
- PSADMIN EXECUTION FAILURE (1009)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ERROR_CODE or ERRCODE

Last Collection Start attribute

Description
The most recent time a data collection of this group started.

Type Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NOT COLLECTED (0691231190000000)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LAST_COLLECTION_START or COLSTRT

Last Collection Finished attribute

Description
The most recent time a data collection of this group finished.

Type Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NOT COLLECTED (0691231190000000)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LAST_COLLECTION_FINISHED or COLFINI

Last Collection Duration attribute

Description
The duration of the most recently completed data collection of this group in seconds.

Type Real number (32-bit counter) with 2 decimal places of precision

Warehouse name
LAST_COLLECTION_DURATION or COLDURA

Average Collection Duration attribute

Description
The average duration of all data collections of this group in seconds.

Type Real number (32-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-100)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_COLLECTION_DURATION or COLAVGD

Refresh Interval attribute

Description
The interval at which this group is refreshed in seconds.

Type Integer (32-bit counter)

Warehouse name
REFRESH_INTERVAL or REFRINT

Number of Collections attribute

Description
The number of times this group has been collected since agent start.

Type Integer (32-bit counter)

Warehouse name
NUMBER_OF_COLLECTIONS or NUMCOLL

Cache Hits attribute

Description
The number of times an external data request for this group was satisfied from the cache.

Type Integer (32-bit counter)

Warehouse name
CACHE_HITS or CACHEHT

Cache Misses attribute

Description
The number of times an external data request for this group was not available in the cache.

Type Integer (32-bit counter)

Warehouse name
CACHE_MISSES or CACHEMS

Cache Hit Percent attribute

Description
The percentage of external data requests for this group that were satisfied from the cache.

Type Real number (32-bit counter) with 2 decimal places of precision

Warehouse name
CACHE_HIT_PERCENT or CACHPCT

Intervals Skipped attribute

Description
The number of times a background data collection for this group was skipped because the previous collection was still running when the next one was due to start.

Type Integer (32-bit counter)

Warehouse name
INTERVALS_SKIPPED or INTSKIP

Scheduler Dist Status Counts attribute group

This attribute group provides information about the batch process distribution status for all Process Schedulers attached to the same database to which the domain is connected.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Scheduler Dist Status Counts attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Process Scheduler Name attribute - This attribute is a key attribute.

Description
Server name

Type String

Warehouse name
PROCESS_SCHEDULER_NAME or SERVERNAME

None attribute

Description
A process has just been added to the report request but has not started, there is nothing to post, or an error occurred and there is nothing to post.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NONE

NA attribute

Description
A process has just been added to the report request but has not started, there is nothing to post, or an error occurred and there is nothing to post.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NA

Processing attribute

Description
Legacy PeopleSoft Report Repository status code

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESSING

Generated attribute

Description
Reports finished processing and ready to be transferred.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GENERATED

Not Posted attribute

Description
Distribution agent was unable to transfer files from Process Scheduler to Report Repository.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NOT_POSTED or NOTPOSTED

Posted attribute

Description
Reports were successfully transferred to Report Repository.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
POSTED

Delete attribute

Description
Legacy PeopleSoft Report Repository status code

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DELETE

Posting attribute

Description
Reports are in the process of being transferred from Process Scheduler to Report Repository.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
POSTING

Scheduler Run Status Counts attribute group

This attribute group provides information about the batch process Run Status for all Process Schedulers attached to the same database to which the domain is connected.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Scheduler Run Status Counts attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Process Scheduler Name attribute - This attribute is a key attribute.

Description
Process Scheduler name. This name might not be the TCP/IP host name.

Type String

Warehouse name
SERVER_NAME or SERVERNAME

Cancel attribute

Description
(RUNSTATUS = 1) User requested to cancel a request after it started.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CANCEL

Delete attribute

Description
(RUNSTATUS = 2) Legacy PeopleSoft process scheduler Runstatus code

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DELETE

Error attribute

Description
(RUNSTATUS = 3) Program associated with process request has had an error occur while processing.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ERROR

Hold attribute

Description
(RUNSTATUS = 4) Process request was put on hold by user.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
HOLD

Queued attribute

Description
(RUNSTATUS = 5) Process request was queued by Process Scheduler.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
QUEUED

Initiated attribute

Description
(RUNSTATUS = 6) Process request was acknowledged by Process Scheduler and was submitted to the command line to be started.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIATED

Processing attribute

Description
(RUNSTATUS = 7) Process requested was initiated and is currently running.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESSING

Cancelled attribute

Description
(RUNSTATUS = 8) Request that was successfully canceled after it started.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CANCELLED

Success attribute

Description
(RUNSTATUS = 9) Process request has completed successfully.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SUCCESS

No Success attribute

Description
(RUNSTATUS = 10) Process request encountered an error and was marked as restartable.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NO_SUCCESS or NOSUCCESS

Pending attribute

Description
(RUNSTATUS = 16) New Process request is waiting to be queued.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PENDING

Warning attribute

Description
(RUNSTATUS = 17) Depending on the configuration value of AE_APPSTATUS, Process requests with this run status might continue or stop.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WARNING

Blocked attribute

Description
(RUNSTATUS = 18) Process request is waiting for number of active instances of this process to drop below the Max Concurrent value.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKED

Restart attribute

Description
(RUNSTATUS = 19) Process has encountered an error while attempting to restart.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESTART

Server List attribute group

This attribute group provides information about the health and status of all of the PeopleSoft Process Schedulers attached to the same database to which the monitored PeopleSoft Domain is connected.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Server List attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Scheduler Name attribute - This attribute is a key attribute.

Description
Process Scheduler name. This name might not be the TCP/IP host name.

Type String

Warehouse name
SERVER_NAME or SERVERNAME

Boot Date - Time attribute

Description
Date - Time when the Process Scheduler was started

Type Timestamp

Warehouse name
BEGIN_DATE_TIME or BEGINDTTM

Last Update Date Time attribute

Description
Last Date - Time when the Process Scheduler registered

Type Timestamp

Warehouse name
LAST_UPDATE_DATE_TIME or LASTUPDTTM

Server Status attribute

Description
Server status as determined by PeopleSoft. This attribute might not reflect Availability of Process Scheduler as determined by IBM Tivoli Monitoring.

Type String

Warehouse name
SERVER_STATUS or SRVRSTATUS

Server Hostname attribute - This attribute is a key attribute.

Description
Server TCP/IP host name

Type String

Warehouse name
SERVER_HOSTNAME or SRVRHOSTNM

Server Status Description attribute

Description
Server status as determined by PeopleSoft PeopleTools. This might not reflect Availability of Process Scheduler as determined by IBM Tivoli Monitoring. Possible values include Running, Down, and Suspended.

Type String

Warehouse name
SERVER_STATUS_DESCRIPTION or SRVRSTDESC

Agent Type attribute

Description
PeopleSoft Process Scheduler Agent type for Process Scheduler

Type String

Warehouse name
DESCRIPTION or DESCRIPT

Operating System attribute

Description
Operating system on which the Process Scheduler is running

Type String

Warehouse name
DESCRIPTION_2 or DESCRIPT2

Distribution Node Name attribute

Description
Name of distribution node assigned to Process Scheduler

Type String

Warehouse name
DISTRIBUTION_NODE_NAME or DISTNODENM

Max API Aware Tasks attribute

Description
Maximum number of concurrent processes that can be run on a selected Process Scheduler

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_API_AWARE_TASKS or MAXAPIAWAR

Sleep Time attribute

Description
Polling interval before Process Scheduler wakes up and reads the Process Request table in the database.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SLEEP_TIME or SLEEPTIME

Heartbeat attribute

Description
Heartbeat used by the Process Scheduler server agent to track server status.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
HEARTBEAT

Daemon Enabled attribute

Description
Daemon enabled

Type String

Warehouse name
DAEMON_ENABLED or DAEMONEN

Daemon Procedure Group attribute

Description
Daemon procedure group

Type String

Warehouse name
DAEMON_PROCEDURE_GROUP or DAEMONGRP

Daemon Sleep Time attribute

Description
Daemon sleep time

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DAEMON_SLEEP_TIME or DAEMONSLP

Disk Space Threshold attribute

Description
If disk space usage is greater than this value, the Process Scheduler does not schedule new requests until disk space usage drops below the threshold.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_SPACE_THRESHOLD or DSTHRSHOLD

Disk Space Available(MB) attribute

Description
Amount of disk space available on the process scheduler (as determined by PeopleTools).

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_SPACE_AVAILABLE or DSSPCEAVAL

Server Load Balance attribute

Description
Server Load Balancing option for the selected Process Scheduler

Type String

Warehouse name
SERVER_LOAD_BALANCE or SRVRLOADBA

Max CPU Usage Required attribute

Description
If CPU usage is greater than this value, the Process Scheduler does not schedule new requests until CPU usage drops below the threshold.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_CPU_USAGE_REQUIRED or MAXCPUREQ

Minimum Memory Required attribute

Description
If available memory drops below this value, the Process Scheduler does not process new requests until available memory rises back above the threshold.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MIN_MEMORY_REQUIRED or MINMEMREQ

Operating System Code attribute

Description
Code for operating system on which the Process Scheduler is running

Type String

Warehouse name
OPERATING_SYSTEM or OPERSYSTEM

Server Process Category Activity attribute group

This attribute group provides information about Process Scheduler batch activity from the perspective of process categories.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Process Category Activity attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Process Scheduler Name attribute - This attribute is a key attribute.

Description
Process Scheduler name. This name might not be the TCP/IP host name.

Type String

Warehouse name
SERVER_NAME or SERVERNAME

Process Category attribute - This attribute is a key attribute.

Description
Batch process category

Type String

Warehouse name
PROCESS_CATEGORY or CATEGORY

Process Priority attribute

Description
Process priority of batch category

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESS_PRIORITY or PRIORITY

Item Count attribute

Description
Item count of processes for batch category

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ITEM_COUNT

Max Concurrent attribute

Description
Maximum number of concurrent processes allowed for batch category

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_CONCURRENT or MAX_CONCUR

Server Process Type Activity attribute group

This attribute group provides information about Process Scheduler batch activity from the perspective of process types.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Server Process Type Activity attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Process Scheduler Name attribute - This attribute is a key attribute.

Description
PeopleSoft Process Scheduler name. This name might not be the TCP/IP host name.

Type String

Warehouse name
SERVER_NAME or SERVERNAME

Process Type attribute - This attribute is a key attribute.

Description
Batch Process type

Type String

Warehouse name
PROCESS_TYPE or TYPE

Process Priority attribute

Description
Process Priority of process type

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESS_PRIORITY or PRIORITY

Item Count attribute

Description
Item count of process for process type

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ITEM_COUNT

Max Concurrent attribute

Description
Maximum number of concurrent processes allowed for process type

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_CONCURRENT or MAX_CONCUR

Thread Pool Status attribute group

The Thread Pool Status attribute group contains information that reflects the status of the internal thread pool used to collect data asynchronously.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Thread Pool Status attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Thread Pool Size attribute

Description
The number of threads currently existing in the thread pool.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_SIZE or THPSIZE

Thread Pool Max Size attribute

Description
The maximum number of threads allowed to exist in the thread pool.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_MAX_SIZE or TPMAXSZ

Thread Pool Active Threads attribute

Description
The number of threads in the thread pool currently active doing work.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_ACTIVE_THREADS or TPACTTH

Thread Pool Avg Active Threads attribute

Description
The average number of threads in the thread pool simultaneously active doing work.

Type Real number (32-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_AVG_ACTIVE_THREADS or TPAVGAT

Thread Pool Min Active Threads attribute

Description
The smallest number of threads in the thread pool that have simultaneously been active doing work.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)

- NO DATA (-100)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_MIN_ACTIVE_THREADS or TPMINAT

Thread Pool Max Active Threads attribute

Description
The peak number of threads in the thread pool that have simultaneously been active doing work.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_MAX_ACTIVE_THREADS or TPMAXAT

Thread Pool Queue Length attribute

Description
The number of jobs currently waiting in the thread pool queue.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_QUEUE_LENGTH or TPQLGTH

Thread Pool Avg Queue Length attribute

Description
The average length of the thread pool queue during this run.

Type Real number (32-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_AVG_QUEUE_LENGTH or TPAVGQL

Thread Pool Min Queue Length attribute

Description
The minimum length the thread pool queue has reached.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_MIN_QUEUE_LENGTH or TPMINQL

Thread Pool Max Queue Length attribute

Description
The peak length the thread pool queue has reached.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_MAX_QUEUE_LENGTH or TPMAXQL

Thread Pool Avg Job Wait attribute

Description
The average time a job spends waiting on the thread pool queue in seconds.

Type Real number (32-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_AVG_JOB_WAIT or TPAVJBW

Thread Pool Total Jobs attribute

Description
The number of jobs completed by all threads in the pool since agent start.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_TOTAL_JOBS or TPTJOBS

Tuxedo Log attribute group

This attribute group contains information gathered from the Tuxedo log for the Domain.

Historical group
This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Tuxedo Log attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Time attribute

Description
Time (hhmmss) representing time of day (in terms of hour, minute, and second)

Type String

Machine attribute

Description
Node name, which is usually the TCP/IP host name

Type String

Process Name attribute

Description
Name of Tuxedo process logging the message

Type String

Process Info attribute

Description
The name and process identifier of the Tuxedo process logging the message. This process ID can optionally also include a transaction ID. A thread ID and a context ID are also included.

Type String

Log Entry Text attribute

Description
Text consisting of the following information: Name of Tuxedo message catalog, Message Number, Tuxedo system message.

Type String

Log File Name attribute

Description
Log file name

Type String

Watch Server In PSAPPSRV Log attribute group

This attribute group contains information gathered for the Watch Server (PSWATCHSRV) from either the PSAPPSRV.log or the WATCHSRV.log depending on the PeopleTools version.

Historical group
This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Watch Server In PSAPPSRV Log attribute group:

Node attribute - This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Server Type attribute

Description
Name of PeopleSoft process logging the message

Type String

PID attribute

Description
Process ID

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal when one is defined for the value. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values display the actual value returned by the agent in the Tivoli Enterprise Portal.

Code attribute

Description
Code

Type String

Transaction Info attribute

Description
Transaction information

Type String

Log Entry Text attribute

Description
Log entry text

Type String

Log File Name attribute

Description
Log file name

Type String

Disk capacity planning for historical data

Disk capacity planning for a monitoring agent is a prediction of the amount of disk space to be consumed for each attribute group with historical data that is being collected. Required disk storage is an important factor when you are defining data collection rules and your strategy for historical data collection.

The Capacity planning for historical data table provides the following information required to calculate disk space for this monitoring agent:

Table Table name as it is displayed in the warehouse database, if the attribute group is configured to be written to the warehouse. The table name listed here corresponds to the table name in "Attribute groups for the monitoring agent" on page 25.

Attribute group
Name of the attribute group used to create the table in the warehouse database if it is short enough to fit in the table naming constraints of the database being used for the warehouse. The attribute group name listed here corresponds to the Warehouse table name in "Attribute groups for the monitoring agent" on page 25.

Bytes per row (agent)
Estimate of the record length for each row or instance written to the agent disk for historical data collection. This estimate can be used for agent disk space planning purposes.

Database bytes per row (warehouse)
Estimate of the record length for detailed records written to the warehouse database, if the attribute group is configured to be written to the warehouse. Detailed records are records that have been uploaded from the agent for long-term historical data collection. This estimate can be used for warehouse disk-space planning purposes.

Aggregate bytes per row (warehouse)
Estimate of the record length for aggregate records written to the warehouse database, if the attribute group is configured to be written to the warehouse. Aggregate records are created by the Summarization agent for attribute groups that have been configured for summarization. This estimate can be used for warehouse disk-space planning purposes.

In addition to the information in the tables, you must know the number of rows of data that you plan to collect. An attribute group can have single or multiple rows of data depending on the application environment that is being monitored. For example, if your attribute group is monitoring each processor in your computer and you have a dual processor computer, the number of rows is two.

Table 2. Capacity planning for historical data logged by the PeopleSoft Enterprise Application Domain agent

Table	Attribute group	Bytes per row (agent)	Database bytes per row (warehouse)	Aggregate bytes per row (warehouse)
KP8KP8DATA	KP8_AGENT_DATA_PROVIDER_LOG	1646	1655	1692
KP8ITMPSAV	KP8_AGENT_DIAGNOSTICS	166	165	202
KP8AS	KP8_ANALYTIC_SERVERS	388	403	440
KP8ASCS	KP8_APPLICATION_SERVER_CLIENTS	1367	1372	1469
KP8APPSRV0	KP8_APPLICATION_SERVER_LOG_ PSAPPSRV	1634	1645	1682
KP8ASQS	KP8_APPLICATION_SERVER_QUEUES	1371	1377	1585
KP8ASPS	KP8_APPLICATION_SERVER_SERVERS	1108	1111	1178
KP8AVAIL	KP8_AVAILABILITY	3272	3296	3606
KP8CCC	KP8_CLIENT_COUNT	335	333	409
KP8DCONFIG	KP8_DOMAIN_CONFIGURATION	1412	1462	1499
KP8DF	KP8_DOMAIN_FEATURES	335	333	370
KP8IL	KP8_INSTALLED_LANGUAGES	151	150	187
KP8POBJST	KP8_PERFORMANCE_OBJECT_STATUS	352	399	664
KP8SDSC	KP8_SCHEDULER_DIST_STATUS_COUNTS	363	368	717
KP8SRSC	KP8_SCHEDULER_RUN_STATUS_COUNTS	387	398	981
KP8SL	KP8_SERVER_LIST	347	364	440
KP8SPCA	KP8_SERVER_PROCESS_CATEGORY_ ACTIVITY	598	599	675
KP8SPTA	KP8_SERVER_PROCESS_TYPE_ACTIVITY	598	599	675
KP8THPLST	KP8_THREAD_POOL_STATUS	124	168	550
KP8TMADMIN	KP8_TUXEDO_LOG	1426	1432	1469
KP8WATCHSR	KP8_WATCH_SERVER_IN_PSAPPSRV_LOG	1570	1580	1617

For more information about historical data collection, see "Managing historical data" in the *IBM Tivoli Monitoring Administrator's Guide*.

Chapter 5. Situations reference

A situation is a logical expression involving one or more system conditions. Situations are used to monitor the condition of systems in your network. You can manage situations from the Tivoli Enterprise Portal by using the Situation Editor or from the command-line interface using the tacmd commands for situations. You can manage private situations in the private configuration XML file.

About situations

The monitoring agents that you use to monitor your system environment include a set of predefined situations that you can use as-is. You can also create new situations to meet your requirements.

Predefined situations contain attributes that check for system conditions common to many enterprises. Using predefined situations can improve the speed with which you can begin using the IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain. You can change the conditions or values being monitored by a predefined situation to the conditions or values best suited to your enterprise.

You can display predefined situations and create your own situations using the Situation editor. The left panel of the Situation editor initially lists the situations associated with the Navigator item that you selected. When you click a situation name or create a situation, the right panel opens with the following tabs:

Formula
Formula describing the condition being tested.

Distribution
List of managed systems (operating systems, subsystems, or applications) to which the situation can be distributed. All the PeopleSoft Enterprise Application Domain agent managed systems are assigned by default.

Expert advice
Comments and instructions to be read in the event workspace.

Action
Command to be sent to the system.

EIF Customize forwarding of the event to an Event Integration Facility receiver. (Available when the Tivoli Enterprise Monitoring Server has been configured to forward events.)

Until Options to close the event after a period of time, or when another situation becomes true.

Additional information about situations

The *Tivoli Enterprise Portal User's Guide* contains more information about predefined and custom situations and how to use them to respond to alerts.

For a list of the predefined situations and information about each individual situation for this monitoring agent, see "Predefined situations" on page 92.

Predefined situations

The monitoring agent contains predefined situations, which are organized by Navigator item.

- PeopleSoft Domain
  - Not applicable
- Analytic Servers
  - Not applicable
- Availability
  - KP8_Process_Down_PSAPPSRV
  - KP8_Process_Down_PSSAMSRV
  - KP8_Process_Down_PSANALYTICSRV
  - KP8_Process_Down_PSBRKDSP
  - KP8_Process_Down_PSBRKHND
  - KP8_Process_Down_PSDBGSRV
  - KP8_Process_Down_PSMCFLOG
  - KP8_Process_Down_PSMONITORSRV
  - KP8_Process_Down_PSOPTENG
  - KP8_Process_Down_PSPPMSRV
  - KP8_Process_Down_PSPUBDSP
  - KP8_Process_Down_PSPUBHND
  - KP8_Process_Down_PSQCKSRV
  - KP8_Process_Down_PSQRYSRV
  - KP8_Process_Down_PSRENSRV
  - KP8_Process_Down_PSSUBDSP
  - KP8_Process_Down_PSSUBHND
  - KP8_Process_Down_PSUQRV
  - KP8_Process_Down_PSWATCHSRV
  - KP8_Service_CPU_Busy_Crit
  - KP8_Service_CPU_Busy_Warn
- Clients
  - KP8_Client_Count_Crit
- Configuration
  - Not applicable
- Logs
  - KP8_Agent_Log_Crit
  - KP8_Agent_Log_Warn
  - KP8_APPSRV_Log_Crit
  - KP8_APPSRV_Log_Minor
  - KP8_APPSRV_Log_Warn
  - KP8_TUXLOG_Crit
  - KP8_TUXLOG_Warn
- Schedulers
  - Not applicable
- Tuxedo
  - KP8_Queue_Count_Crit

- KP8_Queue_Count_Warn
- KP8_Service_Busy_Crit
- KP8_Service_Busy_Warn
- KP8_Service_Idle_Info

Situation descriptions

Each situation description provides information about the situation that you can use to monitor the condition of systems in your network.

The situation descriptions provide the following information:

Description
Information about the conditions that the situation tests.

Formula
Syntax that contains one or more logical expressions describing the conditions for the situation to monitor.

Distribution
Whether the situation is automatically distributed to instances of the agent or is available for manual distribution.

Run at startup
Whether the situation starts monitoring when the agent starts.

Sampling interval
Number of seconds that elapse between one sample of data that the monitoring agent collects for the server and the next sample.

Situation persistence
Whether the conditions specified in the situation evaluate to "true" for the defined number of occurrences in a row before the situation is raised. The default of one means that no persistence-checking takes place.

Severity
Severity of the predefined events: Warning, Informational, or Critical.

Clearing conditions
Controls when a true situation closes: after a period of time, when another situation is true, or whichever occurs first if both are selected.

PeopleSoft Domain Navigator item

No predefined situations are included for this Navigator item.

Analytic Servers Navigator item

No predefined situations are included for this Navigator item.

Availability Navigator item

The situation descriptions are organized by the Navigator item to which the situations are relevant.

KP8_Process_Down_PSAPPSRV situation

Description

PeopleSoft Application Server process down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSAPPSRV', 'PSAPPSRV.exe' ) *AND *VALUE
KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is automatically distributed to instances of this agent.

Run at startup
Yes

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSSAMSRV situation

Description
PeopleSoft SQL Access Manager process down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSSAMSRV', 'PSSAMSRV.exe' ) *AND *VALUE
KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is automatically distributed to instances of this agent.

Run at startup
Yes

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSANALYTICSRV situation

Description
PeopleSoft Analytic Server process down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSANALYTICSRV', 'PSANALYTICSRV.exe' )
*AND *VALUE KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSBRKDSP situation

Description
Publication Broker Dispatcher process down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSBRKDSP', 'PSBRKDSP.exe' ) *AND *VALUE
KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSBRKHND situation

Description
Publication Broker Handler process down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSBRKHND', 'PSBRKHND.exe' ) *AND *VALUE
KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSDBGSRV situation

Description
PeopleSoft Debugger Server process down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSDBGSRV', 'PSDBGSRV.exe' ) *AND *VALUE
KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSMCFLOG situation

Description
PeopleSoft Multichannel Framework Log Server process is down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSMCFLOG', 'PSMCFLOG.exe' ) *AND *VALUE
KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSMONITORSRV situation

Description
PeopleSoft Domain Monitor process down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSMONITORSRV', 'PSMONITORSRV.exe' ) *AND
*VALUE KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSOPTENG situation

Description
PeopleSoft Optimization Engine process is down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSOPTENG', 'PSOPTENG.exe' ) *AND *VALUE
KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSPPMSRV situation

Description
PeopleSoft Performance Monitor Server process is down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSPPMSRV', 'PSPPMSRV.exe' ) *AND *VALUE
KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSPUBDSP situation

Description
Publication Contractor Dispatcher process is down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSPUBDSP', 'PSPUBDSP.exe' ) *AND *VALUE
KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSPUBHND situation

Description
Publication Contractor Handler process down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSPUBHND', 'PSPUBHND.exe' ) *AND *VALUE
KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSQCKSRV situation

Description
PeopleSoft Quick Server process is down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSQCKSRV', 'PSQCKSRV.exe' ) *AND *VALUE
KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSQRYSRV situation

Description
PeopleSoft Query Server process is down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSQRYSRV', 'PSQRYSRV.exe' ) *AND *VALUE
KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSRENSRV situation

Description
PeopleSoft Real-time Event Notification Server process is down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSRENSRV', 'PSRENSRV.exe' ) *AND *VALUE
KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSSUBDSP situation

Description
PeopleSoft Subscription Contractor Dispatcher process is down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSSUBDSP', 'PSSUBDSP.exe' ) *AND *VALUE
KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSSUBHND situation

Description
PeopleSoft Subscription Contractor Handler process is down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSSUBHND', 'PSSUBHND.exe' ) *AND *VALUE
KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSUQRV situation

Description
PeopleSoft Universal Queue Server process is down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSUQSRV', 'PSUQSRV.exe' ) *AND *VALUE
KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Process_Down_PSWATCHSRV situation

Description
PeopleSoft Watch Server process is down.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Name *IN ( 'PSWATCHSRV', 'PSWATCHSRV.exe' ) *AND
*VALUE KP8_AVAILABILITY.Status *EQ DOWN
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KP8_Service_CPU_Busy_Crit situation

Description
Server process CPU is busy and critical.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Percent_Processor_Time *GT 90
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
10 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 2.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KP8_Service_CPU_Busy_Warn situation

Description
Server process CPU is busy warning.

The situation is evaluated for each distinct value of the COMPONENT attribute.

Formula

```
*IF *VALUE KP8_AVAILABILITY.Percent_Processor_Time *GT 75 *AND *VALUE
KP8_AVAILABILITY.Percent_Processor_Time *LE 90
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
10 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 2.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

Clients Navigator item

The situation descriptions are organized by the Navigator item to which the situations are relevant.

KP8_Client_Count_Crit situation

Description
Domain client count is at a critically high level.

The situation is evaluated for each distinct value of the SERVICE attribute.

Formula

```
*IF *VALUE KP8_CLIENT_COUNT.Count *GT 200
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 2.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

Configuration Navigator item

No predefined situations are included for this Navigator item.

Logs Navigator item

The situation descriptions are organized by the Navigator item to which the situations are relevant.

KP8_Agent_Log_Crit situation

Description
A critical error was detected in the agent log file.

The situation is evaluated for each distinct value of the DATE attribute.

Formula

```
*IF *SCAN KP8_AGENT_DATA_PROVIDER_LOG.Severity *EQ 'ERROR'
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
None. Data is analyzed when it becomes available.

Situation persistence
Not Applicable

Error conditions
Warning

Clearing conditions
The situation does not clear automatically.

KP8_Agent_Log_Warn situation

Description
Warning message was detected in the agent log file.

The situation is evaluated for each distinct value of the DATE attribute.

Formula

```
*IF *SCAN KP8_AGENT_DATA_PROVIDER_LOG.Severity *EQ 'WARN'
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
None. Data is analyzed when it becomes available.

Situation persistence
Not Applicable

Error conditions
Warning

Clearing conditions
The situation does not clear automatically.

KP8_APPSRV_Log_Crit situation

Description
Critical message is in the APPSRV log file.

The situation is evaluated for each distinct value of the SERVER_TYP attribute.

Formula
```
*IF *VALUE KP8_APPLICATION_SERVER_LOG_PSAPPSRV.Severity *EQ 3
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
None. Data is analyzed when it becomes available.

Situation persistence
Not Applicable

Error conditions
Warning

Clearing conditions
The situation does not clear automatically.

KP8_APPSRV_Log_Minor situation

Description
Minor error message is in the APPSRV log file.

The situation is evaluated for each distinct value of the SERVER_TYP attribute.

Formula
```
*IF *VALUE KP8_APPLICATION_SERVER_LOG_PSAPPSRV.Severity *EQ 1
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
None. Data is analyzed when it becomes available.

Situation persistence
Not Applicable

Error conditions
Warning

Clearing conditions
The situation does not clear automatically.

KP8_APPSRV_Log_Warn situation

Description
Warning Message is in the APPSRV log file.

The situation is evaluated for each distinct value of the SERVER_TYP attribute.

Formula

```
*IF *VALUE KP8_APPLICATION_SERVER_LOG_PSAPPSRV.Severity *EQ 2
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
None. Data is analyzed when it becomes available.

Situation persistence
Not Applicable

Error conditions
Warning

Clearing conditions
The situation does not clear automatically.

KP8_TUXLOG_Crit situation

Description
Critical message is in the TUXLOG log file.

The situation is evaluated for each distinct value of the TIME_STAMP attribute.

Formula

```
*IF *SCAN KP8_TUXEDO_LOG.Text *EQ 'ERROR:'
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
None. Data is analyzed when it becomes available.

Situation persistence
Not Applicable

Error conditions
Warning

Clearing conditions
The situation does not clear automatically.

KP8_TUXLOG_Warn situation

Description
Warning message is in the TUXLOG log file.

The situation is evaluated for each distinct value of the TIME_STAMP attribute.

Formula

```
*IF *SCAN KP8_TUXEDO_LOG.Text *EQ 'WARN:'
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
None. Data is analyzed when it becomes available.

Situation persistence
Not Applicable

Error conditions
Warning

Clearing conditions
The situation does not clear automatically.

Schedulers Navigator item

No predefined situations are included for this Navigator item.

Tuxedo Navigator item

The situation descriptions are organized by the Navigator item to which the situations are relevant.

KP8_Queue_Count_Crit situation

Description
PSAPPSRV Queue count is at a critically high level.

The situation is evaluated for each distinct value of the PROG_NAME attribute.

Formula
```
*IF *VALUE KP8_APPLICATION_SERVER_QUEUES.Number_Queued *GE 10
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
10 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 3.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KP8_Queue_Count_Warn situation

Description
PSAPPSRV Queue count is at warning level.

The situation is evaluated for each distinct value of the PROG_NAME attribute.

Formula

```
*IF *VALUE KP8_APPLICATION_SERVER_QUEUES.Number_Queued *GT 4 *AND *VALUE
KP8_APPLICATION_SERVER_QUEUES.Number_Queued *LT 10
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
10 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 3.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KP8_Service_Busy_Crit situation

Description
Server process is critically busy.

The situation is evaluated for each distinct value of the PROG_NAME attribute.

Formula

```
*IF *VALUE KP8_APPLICATION_SERVER_QUEUES.Idle_Percentage *LT 10
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
10 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 2.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KP8_Service_Busy_Warn situation

Description
Server process is busy warning.

The situation is evaluated for each distinct value of the PROG_NAME attribute.

Formula

```
*IF *VALUE KP8_APPLICATION_SERVER_QUEUES.Idle_Percentage *LT 20 *AND *VALUE
KP8_APPLICATION_SERVER_QUEUES.Idle_Percentage *GE 10
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
10 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 2.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KP8_Service_Idle_Info situation

Description
Server process is idle over several samples.

The situation is evaluated for each distinct value of the PROG_NAME attribute.

Formula

```
*IF *VALUE KP8_APPLICATION_SERVER_QUEUES.Idle_Percentage *EQ 100
```

See "Attributes in each attribute group" on page 27 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
10 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 3.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

Chapter 6. Take Action commands reference

Take Action commands can be run from the portal client or included in a situation or a policy.

About Take Action commands

When included in a situation, the command runs when the situation becomes true. A Take Action command in a situation is also referred to as *reflex automation*. When you enable a Take Action command in a situation, you automate a response to system conditions. For example, you can use a Take Action command to send a command to restart a process on the managed system or to send a text message to a cell phone.

In advanced automation, policies are used to take actions, schedule work, and automate manual tasks. A policy comprises a series of automated steps called activities that are connected to create a workflow. After an activity is completed, the Tivoli Enterprise Portal receives return-code feedback, and advanced automation logic responds with subsequent activities that are prescribed by the feedback.

A basic Take Action command shows the return code of the operation in a message box that is displayed after the action is completed or in a log file. After you close this window, no further information is available for this action.

Additional information about Take Action commands

For more information about working with Take Action commands, see "Take Action commands" in the *Tivoli Enterprise Portal User's Guide*.

For a list of the Take Action commands for this monitoring agent and a description of each command, see "Predefined Take Action commands" and the information for each individual command.

Predefined Take Action commands

Not all agents have predefined Take Action commands. But you can create Take Action commands for any agent.

This monitoring agent contains the following Take Action commands:

- Force_Shutdown_PeopleSoft_Domain
- Restart_PeopleSoft_Domain_(Parallel)
- Restart_PeopleSoft_Domain_(Serial)
- Shutdown_PeopleSoft_Domain
- Start_PeopleSoft_Domain_(Parallel)
- Start_PeopleSoft_Domain_(Serial)

Take Action command descriptions

Each Take Action command description provides information you can use to decide whether to run the Take Action command or whether to include the Take Action command in a situation or a policy.

The descriptions of the Take Action commands provide the following information:

Description
: Actions the command performs on the system to which it is sent, and the permissions required for the Take Action command to function.

Return codes

Information that the Take Action command returns.

Force_Shutdown_PeopleSoft_Domain action

Forcefully shuts down the PeopleSoft Domain processes.

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81002
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP85003I
  - Message: The request to stop the domain succeeded.
- Return Code: 1
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP85004I
  - Message: The request to stop the domain failed.

Restart_PeopleSoft_Domain_(Parallel) action

Restarts the PeopleSoft Domain processes in parallel.

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 2
  - Return Code Type: GENERAL_ERROR

  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81002
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP85005I
  - Message: The request to restart the domain succeeded.
- Return Code: 1
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP85006I
  - Message: The request to restart the domain failed.

Restart_PeopleSoft_Domain_(Serial) action

Restarts the PeopleSoft Domain processes in serial.

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81002
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP85005I
  - Message: The request to restart the domain succeeded.
- Return Code: 1
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP85006I
  - Message: The request to restart the domain failed.

Shutdown_PeopleSoft_Domain action

Shuts down the PeopleSoft Domain processes.

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81002
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)

- Message ID: KP85003I
- Message: The request to stop the domain succeeded.

- Return Code: 1
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP85004I
  - Message: The request to stop the domain failed.

Start_PeopleSoft_Domain_(Parallel) action

Starts the PeopleSoft Domain processes in parallel.

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81002
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP85001I
  - Message: The request to boot the domain succeeded.
- Return Code: 1
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP85002I
  - Message: The request to boot the domain failed.

Start_PeopleSoft_Domain_(Serial) action

Starts the PeopleSoft Domain processes in serial.

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81002
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP81004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP85001I
  - Message: The request to boot the domain succeeded.
- Return Code: 1
  - Return Code Type: GENERAL_ERROR
  - Operating systems: Windows, AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (64-bit x86), Solaris (64-bit SPARC)
  - Message ID: KP85002I
  - Message: The request to boot the domain failed.

Chapter 7. Policies reference

Policies are used as an advanced automation technique for implementing more complex workflow strategies than you can create through simple automation. All agents do not provide predefined policies, but you can create policies for any agent.

A *policy* is a set of automated system processes that can take actions, schedule work for users, or automate manual tasks. You use the Workflow Editor to design policies. You control the order in which the policy executes a series of automated steps, which are also called *activities*. Policies are connected to create a workflow. After an activity is completed, the Tivoli Enterprise Portal receives return-code feedback, and advanced automation logic responds with subsequent activities prescribed by the feedback.

For more information about working with policies, see "Automation with policies" in the *Tivoli Enterprise Portal User's Guide*.

For information about using the Workflow Editor, see the *IBM Tivoli Monitoring Administrator's Guide* or the Tivoli Enterprise Portal online help.

Predefined policies

Not all agents have predefined policies. But you can create policies for any agent.

The IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain does not provide predefined policies.

Chapter 8. Troubleshooting

Problems can be related to IBM Tivoli Monitoring or the specific agent that you are using.

For general troubleshooting information, see the *IBM Tivoli Monitoring Troubleshooting Guide*. For other problem-solving options, see "Support information" on page 149.

You can resolve some problems by ensuring that your system matches the system requirements listed in the Prerequisites topic for the agent in the information center.

The following activities can help you find a solution to the problem you are having:

- "Gathering product information for IBM Software Support"
- "Using logging" on page 120
- "Consulting the lists of identified problems and workarounds" on page 120

Gathering product information for IBM Software Support

Before contacting IBM Software Support about a problem you are experiencing with this product, gather the information shown in Table 3.

Table 3. Information to gather before contacting IBM Software Support

Information type	Description
Log files	Collect trace log files from failing systems. Most logs are located in a logs subdirectory on the host computer. See "Principal trace log files" on page 121 for lists of all trace log files and their locations. For general information about the IBM Tivoli Monitoring environment, see the *Tivoli Enterprise Portal User's Guide*.
PeopleSoft Enterprise (Domain) information	Version number and patch level
Operating system	Operating system version number and patch level PeopleTools version number and patch level
Messages	Messages and other information displayed on the screen
Version numbers for IBM Tivoli Monitoring	Version number of the following members of the monitoring environment: • IBM Tivoli Monitoring. Also provide the patch level, if available. • IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain
Screen captures	Screen captures of incorrect output, if any
(UNIX systems only) Core dump files	If the system stops on UNIX systems, collect the core dump file from the *install_dir*/bin directory, where *install_dir* is the directory where you installed the monitoring agent.
(UNIX systems only) Agent login environment	While logged in as the user account running the PeopleSoft agent, save the output of the 'set' shell command to a file.

Table 3. Information to gather before contacting IBM Software Support (continued)

Information type	Description
PeopleSoft information	• PeopleTools version and patch number For example: PeopleTools 8.48.16 • PeopleSoft Application name and version with maintenance level For example: HRMS9 ML5 • PeopleSoft database server type, version, patch level, and OS type For example: DB2® 8.2 FP15 running on RHEL 4 (Intel 32-bit) • On UNIX systems, a copy of the .profile or .bash_profile of the user account the PeopleSoft monitoring agent is running as

You can use the pdcollect tool to collect the most commonly used information from a system. This tool gathers log files, configuration information, version information, and other data. For more information about using this tool, see the "pdcollect tool" in the *IBM Tivoli Monitoring Troubleshooting Guide*.

For information about working with IBM Software Support, see IBM Support Portal Service Requests and PMRs (http://www.ibm.com/support/entry/portal/Open_service_request/Software/Software_support_(general)).

Using logging

Logging is the primary troubleshooting feature in the PeopleSoft Enterprise Application Domain agent. *Logging* refers to the text messages and trace data that is generated by the PeopleSoft Enterprise Application Domain agent. Messages and trace data are sent to a file.

Trace data captures transient information about the current operating environment when a component or application fails to operate as designed. IBM Software Support personnel use the captured trace information to determine the source of an error or unexpected condition. See “Trace logging” for more information.

Consulting the lists of identified problems and workarounds

Known problems are organized into types such as those in the following list to make them easier to locate:

- Installation and configuration
- General usage and operation
- Display of monitoring data
- Take Action commands

Information about symptoms and detailed workarounds for these types of problems is located in “Problems and workarounds” on page 133.

For general troubleshooting information, see the *IBM Tivoli Monitoring Troubleshooting Guide*.

Trace logging

Trace logs are used to capture information about the operating environment when component software fails to operate as designed.

The principal log type is the RAS (Reliability, Availability, and Serviceability) trace log. These logs are in the English language only. The RAS trace log mechanism is available for all components of IBM Tivoli Monitoring. Most logs are located in a logs subdirectory on the host computer. See the following information to learn how to configure and use trace logging:

- "Principal trace log files"
- "Examples: Using trace logs" on page 126
- "Setting RAS trace parameters by using the GUI" on page 128

Note: The documentation refers to the RAS facility in IBM Tivoli Monitoring as "RAS1."

IBM Software Support personnel use the information captured by trace logging to trace a problem to its source or to determine why an error occurred. All components in the IBM Tivoli Monitoring environment have a default tracing level. The tracing level can be changed on a per-component level to adjust the type of trace information collected, the degree of trace detail, the number of trace logs to be kept, and the amount of disk space used for tracing.

Overview of log file management

Log files have naming conventions.

Log file naming conventions

Table 4 on page 122 provides the names, locations, and descriptions of RAS1 log files. The log file names adhere to the following naming convention:

Windows systems

hostname_productcode_program_HEXtimestamp-nn.log

Linux and UNIX systems

hostname_productcode_HEXtimestamp-nn.log

where:

hostname
Host name of the computer where the monitoring component is running.

productcode
Two-character product code. For IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain, the product code is p8.

program
Name of the program being run.

HEXtimestamp
Hexadecimal time stamp representing the time at which the program started.

nn Rolling log suffix.

Principal trace log files

Trace log files are located on various systems.

Table 4 on page 122 contains locations, file names, and descriptions of trace logs that can help determine the source of problems with agents.

Table 4. Trace log files for troubleshooting agents. This table contains three columns, one for the name of the system where the log is located, one for the file name and path, and one for a description of the log. The last row of the table spans all columns and contains definitions of variables used in the table.

System where log is located	File name and path	Description
On the Tivoli Enterprise Monitoring Server	• **Windows:** The file in the *install_dir*\InstallITM path • **UNIX:** The candle_installation.log file in the *install_dir*/logs path • **Linux:** The candle_installation.log file in the *install_dir*/logs path	Provides details about products that are installed. **Note:** Trace logging is enabled by default. A configuration step is not required to enable this tracing.
On the Tivoli Enterprise Monitoring Server	The Warehouse_Configuration .log file is in the following location on Windows systems: *install_dir*\InstallITM	Provides details about the configuration of data warehousing for historical reporting.
On the Tivoli Enterprise Monitoring Server	The name of the RAS log file is as follows: • **Windows:** *install_dir*\logs\ *hostname*_ms_*timestamp-nn*.log • **UNIX:** *install_dir*/logs/ *hostname*_ms_*timestamp-nn*.log • **Linux:** *install_dir*/logs/ *hostname*_ms_*timestamp-nn*.log **Note:** File names for RAS1 logs include a hexadecimal time stamp. Also on UNIX systems, a log with a decimal time stamp is provided: *hostname_productcode_ timestamp*.log and *hostname_productcode_ timestamp*.pid nnnnn in the *install_dir*/logs path, where *nnnnn* is the process ID number.	Traces activity on the monitoring server.

Table 4. Trace log files for troubleshooting agents (continued). This table contains three columns, one for the name of the system where the log is located, one for the file name and path, and one for a description of the log. The last row of the table spans all columns and contains definitions of variables used in the table.

System where log is located	File name and path	Description
On the Tivoli Enterprise Portal Server	The name of the RAS log file is as follows: • **Windows:** *install_dir*\logs\ *hostname* _cq_HEXtimestamp-nn.log • **UNIX:** *install_dir* /logs/*hostname*_cq_HEXtimestamp -nn.log • **Linux:** *install_dir* /logs/*hostname*_cq_HEXtimestamp -nn.log **Note:** File names for RAS1 logs include a hexadecimal time stamp. Also on UNIX systems, a log with a decimal time stamp is provided: *hostname_productcode_ timestamp* .logand *hostname_productcode_ timestamp*.pid*nnnnn* in the *install_dir*/logs path, where *nnnnn* is the process ID number.	Traces activity on the portal server.
On the Tivoli Enterprise Portal Server	The teps_odbc.log file is located in the following path: • **Windows:** *install_dir*\InstallITM • **UNIX:** *install_dir*/logs • **Linux:** *install_dir*/logs	When you enable historical reporting, this log file traces the status of the warehouse proxy agent.

Table 4. Trace log files for troubleshooting agents (continued). This table contains three columns, one for the name of the system where the log is located, one for the file name and path, and one for a description of the log. The last row of the table spans all columns and contains definitions of variables used in the table.

System where log is located	File name and path	Description
On the computer that hosts the monitoring agent	The RAS1 log files are as follows: • **Windows:** *hostname* _p8_*instance_name*_ kp8agent_ HEXtimestamp-nn.log in the *install_dir*\tmaitm6\logs directory • **UNIX:** *hostname*_p8_*instance_name*_ kp8agent_ HEXtimestamp-nn.log in the *install_dir*/logs directory • **Linux:** *hostname*_p8_*instance_name*_kp8agent_ HEXtimestamp-nn.log in the *install_dir*/logs directory These logs are in the following directories: • **Windows:** *install_dir*\tmaitm6\ logs • **UNIX:** *install_dir*/logs • **Linux:** *install_dir*/logs On Linux systems, the following additional logs are provided: – *hostname*_p8_timestamp .log – *hostname*_p8_timestamp .pid*nnnnn* in the *install_dir*/logs path, where *nnnnn* is the process ID number	Traces activity of the monitoring agent.
On the computer that hosts the monitoring agent	The agent operations log files are as follows: *instance_hostname*P8.LG0 is the current log created when the agent was started. *instance_hostname*_P8.LG1 is the backup of the previous log. These logs are in the following directory depending on the operating system that you are using: • **Windows:** *install_dir*\tmaitm6\ logs • **Linux:** *install_dir*/logs • **UNIX:** *install_dir*/logs	Shows whether the agent could connect to the monitoring server. Shows which situations are started and stopped, and shows other events while the agent is running. A new version of this file is generated every time the agent is restarted. IBM Tivoli Monitoring generates one backup copy of the *.LG0 file with the tag .LG1. View the .LG1 tag to learn the following details regarding the *previous* monitoring session: • Status of connectivity with the monitoring server • Situations that were running • The success or failure status of Take Action commands

Table 4. Trace log files for troubleshooting agents (continued). This table contains three columns, one for the name of the system where the log is located, one for the file name and path, and one for a description of the log. The last row of the table spans all columns and contains definitions of variables used in the table.

System where log is located	File name and path	Description
On the computer that hosts the monitoring agent	The PeopleSoft data collection logs are as follows: • **Windows:** kp8_*instance_name*_trace .log in the *install_dir*\tmaitm6\logs directory kp8_*instance_name*_output .log in the *install_dir*\tmaitm6\logs directory • **UNIX:** kp8_ *instance_name*_trace.log in the *install_dir* /logs directory kp8_*instance_name*_output .log in the *install_dir*/logs directory	Logs that contain information about the PeopleSoft monitoring agent data collectors used to collect information from within the PeopleSoft system, primarily using the psae and psadmin command-line interfaces. Data about information collected from PeopleSoft configuration files, Tuxedo (through psadmin), and the PeopleSoft database is found in the kp8_*instance_name*_trace .log. The kp8_*instance_name*_output .log contains data only if a critical error occurred when the PeopleSoft monitoring agent attempted to start the PeopleSoft specific data collectors. Most commonly, the errors found in the kp8_*instance_name*_output .log file are related to Java not existing or Java not being at the correct requirement level (IBM JRE 1.5).
On the computer that hosts the monitoring agent	The Take Action command log files are as follows: • *host*_p8_*instance_takeactioncommand* .log The logs are in the following directories: • **Windows:** *install_dir*\tmaitm6\logs • **UNIX:** *install_dir* /logs • **Linux:** *install_dir* /logs	Traces activity each time a Take Action command runs. For example, when a hypothetical **start_command** Take Action command runs, IBM Tivoli Monitoring generates a start_command.log file.

Table 4. Trace log files for troubleshooting agents (continued). This table contains three columns, one for the name of the system where the log is located, one for the file name and path, and one for a description of the log. The last row of the table spans all columns and contains definitions of variables used in the table.

System where log is located	File name and path	Description
On the computer that hosts the monitoring agent	The Take Action log files are as follows: • kp8_*instance*_*takeactioncommand*.log • kp8_*instance*_ control_*domain*.log	Traces activity each time a Take Action command runs. For example, when a **stop_scheduler** Take Action command runs, IBM Tivoli Monitoring generates the following log messages: • kp9_*instance*_stop_log This log contains some basic information about how the Take Action command subsequently invoked a process called Control Scheduler. • kp9_*instance*_control_scheduler.log This log contains the log output of all of the PeopleSoft psadmin CLI output collected when executing specific Take Actions commands.
Definitions of variables: • *timestamp* is a time stamp with a format that includes year (y), month (m), day (d), hour (h), and minute (m), as follows: **yyyymmdd hhmm** • *HEXtimestamp* is a hexadecimal representation of the time at which the process was started. • *install_dir* represents the directory path where you installed the IBM Tivoli Monitoring component. *install_dir* can represent a path on the computer that hosts the monitoring system, the monitoring agent, or the portal. • *instance* refers to the name of the database instance that you are monitoring. • *instance_name* refers to the name of the agent instance. • *hostname* refers to the name of the computer on which the IBM Tivoli Monitoringcomponent runs. • *nn* represents the circular sequence in which logs are rotated. this value includes a range from 1 - 5, by default. The first is always retained because it includes configuration parameters. • *productcode* specifies the product code, for example, um for Universal Agent or nt for Windows systems.		

For more information about the complete set of trace logs that are maintained on the monitoring server, see the *IBM Tivoli Monitoring Installation and Setup Guide*.

Examples: Using trace logs

You can open trace logs in a text editor to learn some basic facts about your IBM Tivoli Monitoring environment.

IBM Software Support applies specialized knowledge to analyze trace logs to determine the source of problems. The following examples are from the Tivoli Enterprise Monitoring Server log.

Example one

This excerpt shows the typical log for a failed connection between a monitoring agent and a monitoring server with the host name **server1a**:

```
(Thursday, August 11, 2005, 08:21:30-{94C}kdcl0cl.c,105,
"KDCL0_ClientLookup") status=1c020006,"location server unavailable",
ncs/KDC1_STC_SERVER_UNAVAILABLE
(Thursday, August 11, 2005, 08:21:35-{94C}kraarreg.cpp,1157,"LookupProxy")
Unable to connect to broker at ip.pipe:: status=0, "success",
```

```
ncs/KDC1_STC_OK
(Thursday, August 11, 2005, 08:21:35-{94C}kraarreg.cpp,1402,
"FindProxyUsingLocalLookup") Unable to find running CMS on CT_CMSLIST
<IP.PIPE:#server1a>
```

Example two

The following excerpts from the trace log *for the monitoring server* show the status of an agent, identified here as "Remote node." The name of the computer where the agent is running is **SERVER5B**:

```
(42C039F9.0000-6A4:kpxreqhb.cpp,649,"HeartbeatInserter")
Remote node SERVER5B:P8 is ON-LINE. . . .
(42C3079B.0000-6A4:kpxreqhb.cpp,644,"HeartbeatInserter")
Remote node SERVER5B:P8 is OFF-LINE.
```

See the following key points about the preceding excerpts:

- The monitoring server appends the **P8** product code to the server name to form a unique name (SERVER5B:P8) for this instance of the IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain. By using this unique name, you can distinguish multiple monitoring products that might be running on **SERVER5B**.
- The log shows when the agent started (ON-LINE) and later stopped (OFF-LINE) in the environment.
- For the sake of brevity, an ellipsis (...) represents the series of trace log entries that were generated while the agent was running.
- Between the ON-LINE and OFF-LINE log entries, the agent was communicating with the monitoring server.
- The ON-LINE and OFF-LINE log entries are always available in the trace log. All trace levels that are described in “Setting RAS trace parameters by using the GUI” on page 128 provide these entries.

On Windows systems, you can use the following alternate method to view trace logs:

1. In the Windows **Start** menu, click **Program Files** > **IBM Tivoli Monitoring** > **Manage Tivoli Enterprise Monitoring Services**. The Manage Tivoli Enterprise Monitoring Services window is displayed.
2. Right-click a component and click **Advanced** > **View Trace Log** in the menu. For example, if you want to view the trace log of the IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain, right-click the name of that agent in the window. You can also use the viewer to access remote logs.

   Note: The viewer converts time stamps in the logs to a format that is easier to read.

RAS trace parameters

Pinpoint a problem by setting detailed tracing of individual components of the monitoring agent and modules

See “Overview of log file management” on page 121 to ensure that you understand log rolling and can reference the correct log files when you manage log file generation.

In the log monitoring component of the PeopleSoft Application Domain agent and PeopleSoft Process Scheduler agent, a file name-based scheme is used to determine the newest PeopleSoft log file to monitor. For example, the `APPSRV_1016 log` file from October 16 appears to be newer than the `APPSRV_0218` file from February 18; thus, the `APPSRV_1016` file is monitored. Using this scheme becomes a problem when the date rolls over from December to January in a new year. The log monitoring incorrectly identifies `APPSRV_1231` as a newer log file than `APPSRV_0101`. The suggested solution is to archive log files from the previous year into a different location. Keep only files from the current year in the directories containing the PeopleSoft domain and scheduler log files.

Setting RAS trace parameters by using the GUI

On Windows systems, you can use the graphical user interface to set trace options.

About this task

The IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain uses RAS1 tracing and generates the logs described in Table 4 on page 122. The default RAS1 trace level is ERROR. The default RAS1 trace level is ERROR.

Procedure

1. Open the Manage Tivoli Enterprise Monitoring Services window.
2. Select **Advanced** > **Edit Trace Parms**. The Tivoli Enterprise Monitoring Server Trace Parameters window is displayed.
3. Select a new trace setting in the pull-down menu in the **Enter RAS1 Filters** field or type a valid string.
   - General error tracing. KBB_RAS1=ERROR
   - Intensive error tracing. KBB_RAS1=ERROR (UNIT:kqz ALL)
   - Maximum error tracing. KBB_RAS1=ERROR (UNIT:kqz ALL) (UNIT:kra ALL)

   Note: As this example shows, you can set multiple RAS tracing options in a single statement.
4. Modify the value for Maximum Log Size Per File (MB) to change the log file size (changes LIMIT value).
5. Modify the value for Maximum Number of Log Files Per Session to change the number of log files per startup of a program (changes COUNT value).
6. Modify the value for Maximum Number of Log Files Total to change the number of log files for all startups of a program (changes MAXFILES value).
7. Optional: Click Y (Yes) in the **KDC_DEBUGd Setting** menu to log information that can help you diagnose communications and connectivity problems between the monitoring agent and the monitoring server. The **KDC_DEBUG** setting and the **Maximum error tracing** setting can generate a large amount of trace logging. Use these settings only temporarily, while you are troubleshooting problems. Otherwise, the logs can occupy excessive amounts of hard disk space.
8. Click **OK**. You see a message reporting a restart of the monitoring agent so that your changes take effect.

What to do next

Monitor the size of the `logs` directory. Default behavior can generate a total of 45 - 60 MB for each agent that is running on a computer. For example, each database instance that you monitor can generate 45 - 60 MB of log data. See the "Procedure" section to learn how to adjust file size and numbers of log files to prevent logging activity from occupying too much disk space.

Regularly prune log files other than the RAS1 log files in the `logs` directory. Unlike the RAS1 log files that are pruned automatically, other log types can grow indefinitely, for example, the logs in Table 4 on page 122 that include a process ID number (PID).

Use collector trace logs as an additional source of troubleshooting information.

Note: The **KDC_DEBUG** setting and the **Maximum error tracing** setting can generate a large amount of trace logging. Use these settings only temporarily while you are troubleshooting problems. Otherwise, the logs can occupy excessive amounts of hard disk space.

Manually setting RAS trace parameters

You can manually edit the RAS1 trace logging parameters.

About this task

The PeopleSoft Enterprise Application Domain agent uses RAS1 tracing and generates the logs described in Table 4 on page 122. The default RAS1 trace level is ERROR. The default RAS1 trace level is ERROR.

Procedure

1. Open the trace options file:
   - **Windows systems:**
     install_dir\tmaitm6\KP8ENV
   - **UNIX systems:**
     install_dir /config/p8.ini
2. Edit the line that begins with **KBB_RAS1=** to set trace logging preferences. For example, if you want detailed trace logging, set the **Maximum Tracing** option: KBB_RAS1=ERROR (UNIT:kqz ALL) (UNIT:kra ALL)
3. Edit the line that begins with **KBB_RAS1_LOG=** to manage the generation of log files:
   - **MAXFILES**: The total number of files that are to be kept for all startups of a specific program. When this value is exceeded, the oldest log files are discarded. The default value is 9.
   - **LIMIT**: The maximum size, in megabytes (MB) of a RAS1 log file. The default value is 5.
   - IBM Software Support might guide you to modify the following parameters:
     – **COUNT**: The number of log files to keep in the rolling cycle of one program startup. The default is 3.
     – **PRESERVE**: The number of files that are not to be reused in the rolling cycle of one program startup. The default value is 1.

     Note: The **KBB_RAS1_LOG** parameter also provides for the specification of the log file directory, log file name, and the inventory control file directory and name. Do not modify these values or log information can be lost.
4. Restart the monitoring agent so that your changes take effect.

What to do next

Monitor the size of the logs directory. Default behavior can generate a total of 45 - 60 MB for each agent that is running on a computer. For example, each database instance that you monitor can generate 45 - 60 MB of log data. See the "Procedure" section to learn how to adjust file size and numbers of log files to prevent logging activity from occupying too much disk space.

Regularly prune log files other than the RAS1 log files in the logs directory. Unlike the RAS1 log files that are pruned automatically, other log types can grow indefinitely, for example, the logs in Table 4 on page 122 that include a process ID number (PID).

Use collector trace logs as an additional source of troubleshooting information.

Note: The **KDC_DEBUG** setting and the **Maximum error tracing** setting can generate a large amount of trace logging. Use these settings only temporarily while you are troubleshooting problems. Otherwise, the logs can occupy excessive amounts of hard disk space.

Dynamic modification of trace settings

You can dynamically modify the trace settings for an IBM Tivoli Monitoring component, such as, Tivoli Enterprise Monitoring Server, Tivoli Enterprise Portal Server, most monitoring agents, and other components. You can access these components, except for of a few monitoring agents, from the tracing utility.

Dynamic modification of the trace settings is the most efficient method, because you can do it without restarting the component. Settings take effect immediately. Modifications by this method are not persistent.

Note: When the component is restarted, the trace settings are read again from the `.env` file. Dynamically modifying these settings does not change the settings in the `.env` files. To modify these trace settings permanently, modify them in the `.env` files.

ras1

Run this command to modify the trace settings for a Tivoli Monitoring component.

The syntax is as follows:

```
ras1 set|list (UNIT|COMP: class_name ANY|ALL|Detail|ERROR|Flow|INPUT|Metrics|OUTPUT|STATE)
{(UNIT|COMP: class_name ANY|ALL|Detail|ERROR|Flow|INPUT|Metrics|OUTPUT|STATE)}
```

You can specify more than one component class to which to apply the trace settings.

Command options

set
Turns on or off tracing depending on the value of its parameters. If the parameter is **ANY**, it turns it off. All other parameters turn on tracing based on the specified type or level.

list
Displays the default level and type of tracing that is set by default.

Parameters

The parameters that determine the component classes to which to apply the trace settings are as follows:

COMP: *class_name*
Modifies the trace setting for the name of the component class, as specified by *class_name* , for example, `COMP:KDH`. The output contains trace for the specified class.

UNIT: *class_name*
Modifies the trace setting for any unit that starts with the specified *class_name* value, for example, `UNIT: kra`. The output contains trace for any unit that begins with the specified filter pattern.

The parameters that determine the trace level and type are as follows:

ALL
Displays all trace levels, including every trace point defined for the component. This setting might result in a large amount of trace, so specify other parameters to exclude unwanted trace. You might require the **ALL** parameter to isolate a problem, which is the equivalent to setting `"Error Detail Flow State Input Output Metrics"`.

ANY
Turns off tracing.

Detail
Displays detailed information about each function.

When entered with the `list` option, the trace is tagged with `Det`.

ERROR
Logs internal error conditions.

When entered with the `list` option, the trace is tagged with `ER`. The output can also be tagged with `EVERYE+EVERYU+ER`.

Flow
Displays control flow data for each function entry and exit.

When entered with the `list` option, the trace is tagged with `Fl`.

INPUT
Displays input data for each function.

When entered with the `list` option, the trace is tagged with `IN`.

Metrics
Displays metrics on each function.

When entered with the `list` option, the trace is tagged with `ME`.

OUTPUT
Displays output data for each function.

When entered with the `list` option, the trace is tagged with `OUT`.

State
Displays the status for each function.

When entered with the `list` option, the trace is tagged with `St`.

Example

If you enter `ras1 set (COMP:KDH ALL) (COMP:ACF1 ALL) (COMP:KDE ALL)`, the trace utility turns on all levels of tracing for all the files and functions for which `KDH`, `ACF1`, and `KDE` are the classes.

```
kbbcre1.c, 400, May 29 2007, 12:54:43, 1.1, *
kbbcrn1.c, 400, May 29 2007, 12:54:42, 1.1, *
kdhb1de.c, 400, May 29 2007, 12:59:34, 1.1, KDH
kdh0med.c, 400, May 29 2007, 12:59:24, 1.1, KDH
kdhsrej.c, 400, May 29 2007, 13:00:06, 1.5, KDH
kdhb1fh.c, 400, May 29 2007, 12:59:33, 1.1, KDH
kdhb1oe.c, 400, May 29 2007, 12:59:38, 1.2, KDH
kdhs1ns.c, 400, May 29 2007, 13:00:08, 1.3, KDH
kbbacdl.c, 400, May 29 2007, 12:54:27, 1.2, ACF1
kbbaclc.c, 400, May 29 2007, 12:54:27, 1.4, ACF1
kbbac1i.c, 400, May 29 2007, 12:54:28, 1.11, ACF1
vkdhsfcn.c, 400, May 29 2007, 13:00:11, 1.1, KDH
kdhserq.c, 400, May 29 2007, 12:59:53, 1.1, KDH
kdhb1pr.c, 400, May 29 2007, 12:59:39, 1.1, KDH
kdhsgnh.c, 400, May 29 2007, 12:59:49, 1.1, KDH
kdh0uts.c, 400, May 29 2007, 12:59:23, 1.1, KDH
kdhsrsp.c, 400, May 29 2007, 13:00:13, 1.2, KDH
kdhs1rp.c, 400, May 29 2007, 13:00:12, 1.1, KDH
kdhscsv.c, 400, May 29 2007, 12:59:58, 1.9, KDH
kdebbac.c, 400, May 29 2007, 12:56:50, 1.10, KDE
...
```

Turning on tracing

To use the tracing utility, you must use a local logon credential for the computer. This tracing method uses the IBM Tivoli Monitoring Service Console. Access the Service Console by using a web browser.

About this task

When you start the Service Console, information is displayed about the components that are currently running on that computer. For example, these components are listed as follows:

- Tivoli Enterprise Portal Server: `cnp`
- Monitoring Agent for Windows OS: `nt`
- Tivoli Enterprise Monitoring Server: `ms`

After you log on, you can type a question mark (?) to display a list of the supported commands. Use the **ras1** command to modify trace settings. If you type this command in the field at the bottom of the window, the help for this command is displayed.

Procedure

1. Open a web browser and enter the URL to access the Service Console.

   ```
   http://hostname:1920
   ```

   where *hostname* is the IP address or host name of the computer on which the IBM Tivoli Monitoring component is running.
2. Click the hyperlink associated with the component for which you want to modify its trace settings.

   Note: In the previous view, if you want to modify tracing for the Tivoli Enterprise Monitoring Server, select **IBM Tivoli Monitoring Service Console** under **Service Point: system.*your host name*_ms**.
3. Enter a user ID and password to access the system. This ID is any valid user that has access to the system.
4. Enter the command to turn on the required level of trace for the specified component classes or units.

   ```
   ras1 set
   (UNIT|COMP: class_name ALL|Flow|ERROR|Detail|INPUT|Metrics|OUTPUT|STATE)
   {(UNIT|COMP: class_name ALL|Flow|ERROR|Detail|INPUT|Metrics|OUTPUT|STATE)}
   ```

   For example, to turn on the control flow trace for the KDE, the command is:

   ```
   ras1 (COMP:KDE Flow)
   ```

Turning off tracing

You can use the IBM Tivoli Monitoring Service Console to run the **ras1** command and dynamically turn off tracing.

Procedure

1. Open a web browser and enter the URL to access the Service Console.

   ```
   http://hostname:1920
   ```

   where *hostname* is the IP address or host name of the computer on which the IBM Tivoli Monitoring component is running.
2. Click the hyperlink associated with the component for which you want to modify its trace settings.
3. Enter a user ID and password to access the system. This ID is any valid user that has access to the system.
4. Enter the command to turn off the required level of trace for the specified component classes or units.

   ```
   ras1 set (UNIT|COMP: class_name ANY)
   {(UNIT|COMP: class_name ANY)}
   ```

   For example, to turn off tracing for the kbbcrcd class of the Windows OS agent, the command is:

   ```
   ras1 set (UNIT:kbbcrcd ANY)
   ```

Setting trace parameters for the Tivoli Enterprise Console server

In addition to the trace information captured by IBM Tivoli Monitoring, you can also collect additional trace information for the Tivoli Enterprise Console components that gather event server metrics.

About this task

To collect this information, modify the .tec_diag_config file on the Tivoli Enterprise Console event server. Use the steps in the following procedure to modify the event server trace parameters.

Procedure

1. Open the `$BINDIR/TME/TEC/.tec_diag_config` file in an ASCII editor.
2. Locate the entries that configure trace logging for the agent components on the event server. Two entries are included, one for `tec_reception` and one for `tec_rule`:

```
# to debug Agent Utils
tec_reception Agent_Utils  error   /tmp/tec_reception
SP
# to debug Agent Utils
tec_rule Agent_Utils   error   /tmp/tec_rule
```

3. To gather additional trace information, modify these entries to specify a trace level of `trace2`:

```
# to debug Agent Utils
tec_reception Agent_Utils   trace2  /tmp/tec_reception
SP
# to debug Agent Utils
tec_rule Agent_Utils       trace2  /tmp/tec_rule
```

4. In addition, modify the `Highest_level` entries for `tec_rule` and `tec_reception`:

```
tec_reception Highest_level  trace2
SP
tec_rule Highest_level trace2
```

Problems and workarounds

The known problems and workarounds are organized into types of problems that might occur with the PeopleSoft Enterprise Application Domain agent, for example installation and configuration problems and workspace problems.

You can resolve some problems by ensuring that your system matches the system requirements listed in the Prerequisites topic (http://publib.boulder.ibm.com/infocenter/tivihelp/v24r1/topic/com.ibm.itcama.doc_7.1/prerequisites/apps71_systemreqs.html) for the agent in the IBM Tivoli Composite Application Manager for Applications Information Center.

For general troubleshooting information, see the *IBM Tivoli Monitoring Troubleshooting Guide*.

Installation and configuration troubleshooting

Problems can occur during installation, configuration, and uninstallation of the agent.

The problems and solutions in Table 5 can occur during installation, configuration, and uninstallation of the agent.

Table 5. Problems and solutions for installation and configuration

Problem	Solution
(*UNIX only*) During a command-line installation, you choose to install a component that is currently installed, and you see the following warning: `WARNING - you are about to install the SAME version of "component_name"` where *component_name* is the name of the component that you are attempting to install. **Note:** This problem affects UNIX command-line installations. If you monitor only Windows environments, you see this problem if you choose to install a product component (for example, a monitoring server) on a UNIX system.	You must exit and restart the installation process. You cannot return to the list where you selected components to install. When you run the installer again, do not attempt to install any component that is currently installed.

Table 5. Problems and solutions for installation and configuration (continued)

Problem	Solution
Diagnosing problems with product browse settings (Windows systems only).	When you have problems with browse settings, complete the following steps: 1. Click **Start** > **Programs** > **IBM Tivoli Monitoring** > **Manage Tivoli Enterprise Monitoring Services**. The Manage Tivoli Enterprise Monitoring Services window is displayed. 2. Right-click the Windows agent and select **Browse Settings**. A text window is displayed. 3. Click **Save As** and save the information in the text file. If requested, you can forward this file to IBM Software Support for analysis.
A message similar to "`Unable to find running CMS on CT_CMSLIST`" in the log file is displayed.	If a message similar to "`Unable to find running CMS on CT_CMSLIST`" is displayed in the log file, the agent cannot connect to the monitoring server. Confirm the following points: • Do multiple network interface cards (NICs) exist on the system? • If multiple NICs exist on the system, find out which one is configured for the monitoring server. Ensure that you specify the correct host name and port settings for communication in the IBM Tivoli Monitoring environment.
The system is experiencing high CPU usage.	**Agent process:** View the memory usage of the KBegiN_SHORT_PRODUCT_CODE_EnDCMA process. If CPU usage seems to be excessive, restart the monitoring agent. **Network cards:** The network card configurations can decrease the performance of a system. Each stream of packets that a network card receives (assuming that it is a broadcast or destined for the under-performing system) must generate a CPU interrupt and transfer the data through the I/O bus. If the network card in question is a bus-mastering card, work can be offloaded and a data transfer between memory and the network card can continue without using CPU processing power. Bus-mastering cards are 32-bit and are based on PCI or EISA bus architectures.
Errors about Tuxedo permissions are displayed in the agent log file.	If the PeopleSoft agent is not running as the PeopleSoft user, some attribute groups do not return data. The PeopleSoft Application Domain agent and PeopleSoft Process Scheduler agent must be installed and run as the same operating system account that runs PeopleSoft.
On Windows systems, when you upgrade from the PeopleSoft agent 6.2.1, the agent returns no PeopleSoft data because no entry exists for `KP8_PSAE_PASSWORD` in the `cfg` file.	Reinstall the agent to cause a Java security patch to be applied to the correct Java home location. Then reconfigure the agent instance.

Table 6. General problems and solutions for uninstallation. This table contains two columns, one for the problem and one for the solution for each problem.

Problem	Solution
On Windows systems, uninstallation of IBM Tivoli Monitoring fails to uninstall the entire environment.	Be sure that you follow the general uninstallation process described in the *IBM Tivoli Monitoring Installation and Setup Guide*: 1. Remove Tivoli Enterprise Monitoring Server Application support by completing the following steps: a. Use Manage Tivoli Enterprise Monitoring Services. b. Select **Tivoli Enterprise Monitoring Server**. c. Right-click and select **Advanced**. d. Select **Remove TEMS application support**. e. Select the agent to remove its application support. 2. Uninstall the monitoring agents first, as in the following examples: • Uninstall a single monitoring agent for a specific database. -OR- • Uninstall all instances of a monitoring product, such as IBM Tivoli Monitoring for Databases. 3. Uninstall IBM Tivoli Monitoring.
The way to remove inactive managed systems (systems whose status is OFFLINE) from the Navigator tree in the portal is not obvious.	Use the following steps to remove, but not uninstall, an offline managed system from the Navigator tree: 1. Click the **Enterprise** icon in the Navigator tree. 2. Right-click, and then click **Workspace** > **Managed System Status**. 3. Right-click the offline managed system, and select **Clear offline entry**. To uninstall the monitoring agent, use the procedure described in the *IBM Tivoli Monitoring Installation and Setup Guide*.

Table 6. General problems and solutions for uninstallation (continued). This table contains two columns, one for the problem and one for the solution for each problem.

Problem	Solution
IBM Tivoli Monitoring might not be able to generate a unique name for monitoring components because of the truncation of names that the product automatically generates.	If the agent supports multiple instances, IBM Tivoli Monitoring automatically creates a name for each monitoring component by concatenating the subsystem name, host name, and product code separated by colons (*subsystem_name*:*hostname*:KP8). **Note:** When you monitor a multinode system, such as a database, IBM Tivoli Monitoring adds a subsystem name to the concatenated name, typically a database instance name. The length of the name that IBM Tivoli Monitoring generates is limited to 32 characters. Truncation can result in multiple components having the same 32-character name. If this problem happens, shorten the *hostname* portion of the name as follows: 1. Open the configuration file for the monitoring agent, which is located in the following path: • **On Windows:** *install_dir*\tmaitm6\K*product_code*CMA.INI. For example, the product code for the Monitoring Agent for Windows OS is NT. The file name is `KNTCMA.INI`. • **On UNIX and Linux:** `itm_home/config/`*`product_code`*`.ini` and *`product_code`*`.config`. For example, the file names for the Monitoring Agent for UNIX OS is `ux.ini` and `ux.config`. 2. Find the line that begins with `CTIRA_HOSTNAME=`. 3. Type a new name for host name that is a unique, shorter name for the host computer. The final concatenated name including the subsystem name, new host name, and KP8, cannot be longer than 32 characters. **Note:** You must ensure that the resulting name is unique with respect to any existing monitoring component that was previously registered with the Tivoli Enterprise Monitoring Server. 4. Save the file. 5. Restart the agent.
The software inventory tag for the agent on UNIX and Linux systems is not removed during uninstallation of the agent.	After uninstalling the agent, manually remove the file named *`full name of agent`*`.cmptag` from the `$CANDLEHOME/properties/version/` directory.

Table 6. General problems and solutions for uninstallation (continued). This table contains two columns, one for the problem and one for the solution for each problem.

Problem	Solution
When the agent is installed using group deployment, deploygroup was run multiple times. The group deployment starts and completes successfully, but there were multiple entries in the Deploy Status Summary workspace on the Tivoli Enterprise Portal. When the command tried to install multiple times, the additional installations were queued and then were in failed state though the agent was deployed successfully. **Note:** • When the bundle group contains a single bundle and the deployment group contains more than one member (managed system of the same type as AIX or Linux), the deployment is successful on both systems. • When the bundle group contains more than one bundle and the deploy group contains single or multiple members, the deployment will be executed on each group member (managed system) depending on the members present in the bundle group and deploy group. • The command creates a transaction for each XX bundle for each target system; the bundle matching the operating system for the deployment member is processed successfully; and remaining transactions were in a queued or failed state.	There is no solution at this time.

Remote deployment troubleshooting

Problems can occur with remote deployment and removal of agent software using the Agent Remote Deploy process.

Table 7 contains problems and solutions related to remote deployment.

Table 7. Remote deployment problems and solutions

Problem	Solution
While you are using the remote deployment feature to install the IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain, an empty command window is displayed on the target computer. This problem occurs when the target of remote deployment is a Windows computer. (For more information about the remote deployment feature, see the *IBM Tivoli Monitoring Installation and Setup Guide*.)	Do not close or modify this window. It is part of the installation process and is dismissed automatically.
The removal of a monitoring agent fails when you use the remote removal process in the Tivoli Enterprise Portal desktop or browser.	This problem might occur when you attempt the remote removal process immediately after you restart the Tivoli Enterprise Monitoring Server. You must allow time for the monitoring agent to refresh its connection with the Tivoli Enterprise Monitoring Server before you begin the remote removal process.

Table 7. Remote deployment problems and solutions (continued)

Problem	Solution
When you are using the remote deployment feature to install a PeopleSoft monitoring agent, the agent fails to start or is providing only partial data to the Tivoli Enterprise Portal.	On Windows systems: 1. Examine the p8_*instance*_output.log in the *install_dir*/logs directory. If Java was not in the PATH or the Java in the PATH was not IBM JRE 1.5, portions of the monitoring agent do not function correctly. See Chapter 2, "Agent installation and configuration," on page 5 for instructions on how to configure Java in this scenario. 2. The monitoring agent might have been started using an incorrect user ID. Modify the agent "Start As" configuration to reflect the same user account that PeopleSoft is running under. On UNIX systems: This problem occurs when remote deployment is first attempted to UNIX systems. Remote deployment typically reports success; however, when viewing the data in the Tivoli Enterprise Portal, data is not returned for any of the non-availability, logs, or Tuxedo attribute groups. Use the following steps to resolve the issue: 1. The monitoring agent might have been started using an incorrect user ID. Modify the agent "Start As" configuration to reflect the same user account that PeopleSoft is running under and restart the agent. 2. The PeopleSoft environment might not be correctly configured for the user ID that the monitoring agent is running under. Modify the login environment to contain the required variables (see Chapter 2, "Agent installation and configuration," on page 5 for detailed instructions) then restart the agent.

Agent troubleshooting

A problem can occur with the agent after it has been installed.

Table 8 contains problems and solutions that can occur with the agent after it is installed.

Table 8. Agent problems and solutions

Problem	Solution
Log data accumulates too rapidly.	Check the RAS trace option settings, which are described in "Setting RAS trace parameters by using the GUI" on page 128. The trace option settings that you can set on the KBB_RAS1= and KDC_DEBUG= lines potentially generate large amounts of data.
When using the **itmcmd agent** commands to start or stop this monitoring agent, you receive the following error message: MKCIIN0201E Specified product is not configured.	Include the command option **-o** to specify the instance to start or stop. The instance name must match the name used for configuring the agent. For example: ./itmcmd agent -o Test1 start p8 For more information about using the itmcmd commands, see the *IBM Tivoli Monitoring Command Reference*.

Table 8. Agent problems and solutions (continued)

Problem	Solution
The log monitoring component of the PeopleSoft Application Domain agent and PeopleSoft Process Scheduler agent produces several `.rst` file artifacts while it is running. These files are prefixed by the product code P8 or P9, have an extension of .rst, and appear in the directory from which the monitoring agent was started.	These files are harmless and can be removed when the monitoring agent is removed.
The agent does not return all attribute groups and the log file shows that key configuration variables are missing, even when configuration is complete.	When the host name of a Windows system is too long, a known IBM Tivoli Monitoring defect prevents a monitoring agent from reading its own configuration file. For example, for a Windows system named `pt848c-ora-win2k3`, the configuration tool for an agent with product code `p` and instance name `hrde` generates a configuration file named `pt848c-ora-win2k3_p8_hrdev.cfg`. In this example, the host name is 17 characters long. The defect causes the agent to look for a configuration file where the host name is a maximum of 15 characters long. Even though the generated configuration file is named `pt848c-ora-win2k3_p8_hrdev.cfg`, the agent looks for the file `pt848c-ora-win2_p8_hrdev.cfg`. Because the file does not exist, the agent fails to run. The solution is to rename the configuration file after it is created. Truncate the host name to 15 characters. For the above example, change the file name `pt848c-ora-win2k3_p8_hrdev.cfg` to `pt848c-ora-win2_p8_hrdev.cfg`.

Table 8. Agent problems and solutions (continued)

Problem	Solution
A configured and running instance of the monitoring agent is not displayed in the Tivoli Enterprise Portal, but other instances of the monitoring agent on the same system are displayed in the portal.	IBM Tivoli Monitoringproducts use Remote Procedure Call (RPC) to define and control product behavior. RPC is the mechanism that a client process uses to make a subroutine call (such as GetTimeOfDay or ShutdownServer) to a server process somewhere in the network. Tivoli processes can be configured to use TCP/UDP, TCP/IP, SNA, and SSL as the protocol (or delivery mechanism) for RPCs that you want. IP.PIPE is the name given to Tivoli TCP/IP protocol for RPCs. The RPCs are socket-based operations that use TCP/IP ports to form socket addresses. IP.PIPE implements virtual sockets and multiplexes all virtual socket traffic across a single physical TCP/IP port (visible from the **netstat** command). A Tivoli process derives the physical port for IP.PIPE communications based on the configured, well-known port for the hub Tivoli Enterprise Monitoring Server. (This well-known port or BASE_PORT is configured by using the 'PORT:' keyword on the **KDC_FAMILIES / KDE_TRANSPORT** environment variable and defaults to '1918'.) The physical port allocation method is defined as (BASE_PORT + 4096*N), where N=0 for a Tivoli Enterprise Monitoring Server process and N={1, 2, ..., 15} for another type of monitoring server process. Two architectural limits result as a consequence of the physical port allocation method: • No more than one Tivoli Enterprise Monitoring Server reporting to a specific Tivoli Enterprise Monitoring Server hub can be active on a system image. • No more than 15 IP.PIPE processes can be active on a single system image. A single system image can support any number of Tivoli Enterprise Monitoring Server processes (address spaces) if each Tivoli Enterprise Monitoring Server on that image reports to a different hub. By definition, one Tivoli Enterprise Monitoring Server hub is available per monitoring enterprise, so this architecture limit has been simplified to one Tivoli Enterprise Monitoring Server per system image. Continued on next row.

Table 8. Agent problems and solutions (continued)

Problem	Solution
Continued from previous row.	No more than 15 IP.PIPE processes or address spaces can be active on a single system image. With the first limit expressed above, this second limitation refers specifically to Tivoli Enterprise Monitoring Agent processes: no more than 15 agents per system image. This limitation can be circumvented (at current maintenance levels, IBM Tivoli Monitoring V6.1, Fix Pack 4 and later) if the Tivoli Enterprise Monitoring Agent process is configured to use the EPHEMERAL IP.PIPE process. (This process is IP.PIPE configured with the 'EPHEMERAL:Y' keyword in the **KDC_FAMILIES / KDE_TRANSPORT** environment variable). The number of ephemeral IP.PIPE connections per system image has no limitation. If ephemeral endpoints are used, the Warehouse Proxy agent is accessible from the Tivoli Enterprise Monitoring Server associated with the agents using ephemeral connections either by running the Warehouse Proxy agent on the same computer or by using the Firewall Gateway feature. (The Firewall Gateway feature relays the Warehouse Proxy agent connection from the Tivoli Enterprise Monitoring Server computer to the Warehouse Proxy agent computer if the Warehouse Proxy agent cannot coexist on the same computer.)
When configuring an instance node using NLV characters, after clicking OK, the window is not displayed.	This problem is a current limitation. Check future releases or service levels of IBM Tivoli Monitoring for this fix.
No "space" between words is displayed for the strings in the drop-down list of Advanced Filters panel.	This problem is a current limitation. Check future releases or service levels of IBM Tivoli Monitoring for this fix.
Names are truncated on the Properties panel.	Reopening the Properties panel might display the names correctly. If this solution does not work, this problem is a current limitation with no solution. Check future releases or service levels of IBM Tivoli Monitoring for this fix.
Simplified Chinese uses Traditional Chinese font on the GUI.	This problem is a current limitation. Check future releases or service levels of IBM Tivoli Monitoring for this fix. All text strings use the Traditional Chinese font on the GUI; however, help accessed through F1 might appear in Simplified Chinese.

Workspace troubleshooting

Problems can occur with general workspaces and agent-specific workspaces.

Table 9 on page 142 contains problems and solutions related to workspaces.

Table 9. Workspace problems and solutions

Problem	Solution
The process application components are available, but the Availability status shows PROCESS_DATA_NOT_ AVAILABLE.	This problem occurs because the PerfProc performance object is disabled. When this condition exists, IBM Tivoli Monitoring cannot collect performance data for this process. Use the following steps to confirm that this problem exists and to resolve it: 1. In the Windows **Start** menu, click **Run**. 2. Type `perfmon.exe` in the **Open** field of the Run window. The Performance window is displayed. 3. Click the plus sign (+) in the toolbar. The Add Counters window is displayed. 4. Look for **Process** in the **Performance object** menu. 5. Complete one of the following actions: • If you see **Process** in the menu, the PerfProc performance object is enabled and the problem is coming from a different source. You might need to contact IBM Software Support. • If you do not see **Process** in the menu, use the Microsoft utility from the Microsoft.com Operations website to enable the PerfProc performance object. The **Process** performance object becomes visible in the **Performance object** menu of the Add Counters windows, and IBM Tivoli Monitoring is able to detect Availability data. 6. Restart the monitoring agent.
The name of the attribute does not display in a bar chart or graph view.	When a chart or graph view that includes the attribute is scaled to a small size, a blank space is displayed instead of a truncated name. To see the name of the attribute, expand the view of the chart until sufficient space is available to display all characters of the attribute name.
At the bottom of each view, you see the following Historical workspace KFWITM220E error: `Request failed during execution`.	Ensure that you configure all groups that supply data to the view. In the Historical Configuration view, ensure that data collection is started for all groups that supply data to the view.

Table 9. Workspace problems and solutions (continued)

Problem	Solution
You start collection of historical data but the data cannot be seen.	Use the following managing options for historical data collection: • Basic historical data collection populates the Warehouse with raw data. This type of data collection is turned off by default. For information about managing this feature including how to set the interval at which data is collected, see "Managing historical data" in the *IBM Tivoli Monitoring Administrator's Guide*. By setting a more frequent interval for data collection, you reduce the load on the system incurred every time data is uploaded. • Use the Summarization and Pruning agent to collect specific amounts and types of historical data. Historical data is not displayed until the Summarization and Pruning monitoring agent begins collecting the data. By default, this agent begins collection at 2 a.m. daily. At that point, data is visible in the workspace view. For information about how to modify the default collection settings, see "Managing historical data" in the *IBM Tivoli Monitoring Administrator's Guide*.
Historical data collection is unavailable because of incorrect queries in the Tivoli Enterprise Portal.	The Sort By, Group By, and First/Last functions column are not compatible with the historical data collection feature. Use of these advanced functions makes a query ineligible for historical data collection. Even if data collection has started, you cannot use the time span feature if the query for the chart or table includes column functions or advanced query options (Sort By, Group By, First / Last). To ensure support of historical data collection, do not use the Sort By, Group By, or First/Last functions in your queries. For information about the historical data collection function, See "Managing historical data" in the *IBM Tivoli Monitoring Administrator's Guide* or the Tivoli Enterprise Portal online help .
When you use a long process name in the situation, the process name is truncated.	Truncation of process or service names for situations in the Availability table in the portal display is the expected behavior. The maximum name length is 100 bytes.
Regular (non-historical) monitoring data fails to be displayed.	Check the formation of the queries you use to gather data. For example, look for invalid SQL statements.
Navigator items and workspace titles are labeled with internal names such as `Kxx:KXX0000` instead of the correct names (such as Disk), where XX and xx represent the two-character agent code.	Ensure that application support has been added on the monitoring server, portal server, and portal client. For more information about installing application support, see "Installing and enabling application support" in the *IBM Tivoli Monitoring Installation and Setup Guide*.

Table 9. Workspace problems and solutions (continued)

Problem	Solution
Workspaces and views in the Tivoli Enterprise Portal contain no data.	Use the following troubleshooting information to resolve the problem: 1. The monitoring agent might have been started using an incorrect user ID. Modify the agent "Start As" configuration to reflect the same user account that PeopleSoft is running under and restart the agent. 2. The PeopleSoft environment might not be configured correctly for the user ID the monitoring agent is running under. Modify the login environment to contain the required variables and restart the agent. 3. Examine the `kp8_`*`instance`*`_trace.log` in the *`install_dir`*`/logs` directory. Look for psadmin and psae related errors. If either of those processes is failing, the agent might have been configured incorrectly, or the correct environment variables have not been set for the user the agent is running. See "Installing and configuring the monitoring agent" on page 8 for additional help.
In a PeopleSoft monitoring agent, when viewing the Performance Object Status view in an Agent Messages workspace, `PSAE_BAD_EXIT_STATUS` is displayed for an attribute group.	Examine the `kp8_`*`instance`*`_trace.log` file in the *`install_dir`*`/logs` directory. Look for psae related errors. The monitoring agent might have been configured incorrectly, or the correct environment variables have not been set for the user the agent is running as (see "Installing and configuring the monitoring agent" on page 8 for detailed instructions on confirming the environment). The user environment must include the PeopleSoft environment variables required to execute the PeopleSoft **psae** command from the command line.
In a PeopleSoft monitoring agent, when viewing the Performance Object Status view in an Agent Messages workspace, `PS_SERVER_CONFIG_NOT_FOUND` is displayed for an attribute group.	The monitoring agent was unable to access the PeopleSoft server configuration file (`psappsrv.cfg` for the PeopleSoft Enterprise Application Domain agent or `psprcs.cfg` for PeopleSoft Enterprise Process Scheduler agent) that was set for the agent instance. Either the fully qualified path of the configuration file was entered incorrectly, or there might be a permissions issue with reading that file. Enter or correct the fully qualified path.
In a PeopleSoft monitoring agent, when viewing the Performance Object Status view in an Agent Messages workspace, `UBB_FILE_NOT_FOUND` is displayed for an attribute group.	The monitoring agent was unable to access the PeopleSoft server configuration file (`psappsrv.ubb` for the PeopleSoft Enterprise Application Domain agent or `psprcs.ubb` for the PeopleSoft Enterprise Process Scheduler agent) that was set for the agent instance. Either the fully qualified path of the configuration file was entered incorrectly, or there might be a permissions issue with reading that file. Enter or correct the fully qualified path.
In a PeopleSoft monitoring agent, when viewing the Performance Object Status view in an Agent Messages workspace, `QUERY_FILE_NOT_FOUND` is displayed for an attribute group.	This error indicates that the ITM_QUERY Project might not have been loaded into the PeopleSoft database. See "Installing and configuring the monitoring agent" on page 8 for detailed instructions on loading the ITM_Query PeopleSoft Project.

Table 9. Workspace problems and solutions (continued)

Problem	Solution
In a PeopleSoft monitoring agent, when viewing the Performance Object Status view in an Agent Messages workspace, `PSAE_AUTHENTICATION_FAILURE` is displayed for an attribute group.	This error indicates that the PeopleSoft monitoring agent possibly received an authentication error when running the PeopleSoft `psae` CLI. Use the following steps to resolve the issue: 1. Confirm that the `PSAE` user credentials entered during the agent configuration are correct. 2. If you implemented the default ITM_PS user account, review "Installing and configuring the monitoring agent" on page 8 and confirm that the ITM_PS user ID PeopleSoft Project and Datamover script (DMS) have been loaded into the PeopleSoft database. 3. This error might indicate that a more general error is occurring where the PeopleSoft environment might not be correctly configured for the user ID the agent is running under. Modify the login environment to contain the required variables (see "Installing and configuring the monitoring agent" on page 8 for detailed instructions) and restart the agent.
In a PeopleSoft monitoring agent, when viewing the Performance Object Status view in an Agent Messages workspace, `QUERY_FILE_WRITE_ERROR` is displayed for an attribute group. –OR– In a PeopleSoft monitoring agent, when viewing the Performance Object Status view in an Agent Messages workspace, `TEMP_FILE_CREATION_ERROR` is displayed for an attribute group.	This problem indicates that the `temp` location that the PeopleSoft agent is attempting to use for temporary files might not be accessible by the operating system account the agent is running as. Examine the `kp8_`*`instance`*`_trace.log` file in the *`install_dir`*`/logs` directory. Search for the string `for PS_SERVDIR` in the log file. For example: `Using [C:\Documents and Settings\Administrator\ Local Settings\Temp] for PS_SERVDIR.` Examine the permissions on the folder indicated in the log entry and confirm that the operating system user account that the agent is running as has permission to write to that folder.

Table 9. Workspace problems and solutions (continued)

Problem	Solution
In a PeopleSoft monitoring agent, when viewing the Performance Object Status view in an Agent Messages workspace, `PSAE_EXECUTION_FAILURE` is displayed for an attribute group –OR– In a PeopleSoft monitoring agent, when viewing the Performance Object Status view in an Agent Messages workspace, `PSADMIN_EXECUTION_FAILURE` is displayed for an attribute group	This problem typically indicates that the `PeopleSoft PS_HOME` directory has been entered incorrectly during the configuration of the agent. Review the configuration and restart the agent. The error also might indicate that the operating system user account that the agent is running as is not correctly configured. Use the following information to resolve the problem: 1. The monitoring agent might have been started using an incorrect user ID. Modify the agent "Start As" configuration to reflect the same user account that PeopleSoft is running under, and restart the agent. 2. The PeopleSoft environment might not be configured correctly for the user ID that the monitoring agent is running under. Modify the login environment to contain the required variables and restart the agent. 3. Examine the `kp8_`*`instance`*`_trace.log` directory. Look for `psadmin` and `psae` related errors. If either of those processes are failing, the agent might have been configured incorrectly, or the correct environment variables have not been set for the user the agent is running. See "Installing and configuring the monitoring agent" on page 8 for additional help.
Hover help displays ID name instead of strings. For example, moving the pointer over a value in the Status attribute column on the Availability view in the Availability workspace displays `KP81118 == UP` instead of displaying `Status == UP`.	This problem is a current limitation.
Predefined situations might display an empty list in the **Select Value** dialog for attributes in the Situation Editor.	This problem is a current limitation.
Words are truncated in some hover help in Japanese, Traditional Chinese, and Simplified Chinese.	This problem is a current limitation for IBM Tivoli Monitoring V6.2.1. This problem is resolved in IBM Tivoli Monitoring V6.2.2.

Situation troubleshooting

Problems can occur with situations and situation configuration.

Table 10 contains problems and solutions for situations.

Table 10. Situation problems and solutions

Problem	Solution
Monitoring activity requires too much disk space.	Check the RAS trace logging settings that are described in "Setting RAS trace parameters by using the GUI" on page 128. For example, trace logs grow rapidly when you apply the `ALL` logging option.
Monitoring activity requires too many system resources.	"Disk capacity planning for historical data" on page 88 describes the performance impact of specific attribute groups. If possible, decrease your use of the attribute groups that require greater system resources.

Table 10. Situation problems and solutions (continued)

Problem	Solution
A formula that uses mathematical operators appears to be incorrect. For example, if you were monitoring a Linux system, the formula that calculates when **Free Memory** falls under 10 percent of **Total Memory** does not work: `LT #'Linux_VM_Stats.Total_Memory' / 10`	This formula is incorrect because situation predicates support only logical operators. Your formulas cannot have mathematical operators. **Note:** The Situation Editor provides alternatives to math operators. In the example, you can select the **% Memory Free** attribute and avoid the need for math operators.
You want to change the appearance of situations when they are displayed in the navigation tree.	1. Right-click an item in the navigation tree. 2. Click **Situations** in the menu. The Situation Editor window is displayed. 3. Select the situation that you want to modify. 4. Use the **State** menu to set the status and appearance of the Situation when it triggers. **Note:** The **State** setting is not related to severity settings in the Tivoli Enterprise Console.
When a situation is triggered in the Event Log attribute group, it remains in the Situation Event Console as long as the event ID entry is present in the Event Log workspace. When this event ID entry is removed from the Event Log workspace on the Tivoli Enterprise Portal, the situation is also cleared even if the actual problem that caused the event is not resolved, and the event ID entry is also present in the Windows Event Viewer.	A timeout occurs on the cache of events for the NT Event Log group. Increase the cache time of Event Log collection to meet your requirements by adding the following variable and timeout value to the `Kpc`ENV file for the agent (where *pc* is the two-letter product code): `CDP_NT_EVENT_LOG_CACHE_TIMEOUT=3600` This variable determines how long events from the NT Event Log are kept.
When editing some predefined situations, extra attribute groups might be found and the selected attribute group name might be incorrect.	Manually recreate the situation.
In the Situation Formula Editor, text strings overlap or are not displayed correctly.	This problem is a current limitation. Check future releases or service levels of IBM Tivoli Monitoring for this fix.
The situation for a specific agent is not visible in the Tivoli Enterprise Portal.	Open the Situation Editor. Access the All managed servers view. If the situation is not displayed, confirm that the monitoring server has been seeded for the agent. If not, seed the server, as described in the *IBM Tivoli Monitoring Installation and Setup Guide*.
The monitoring interval is too long.	Access the Situation Editor view for the situation that you want to modify. Check the **Sampling interval** area in the **Formula** tab. Adjust the time interval as required.
The situation did not activate at startup.	Manually recycle the situation as follows: 1. Right-click the situation and select **Stop Situation**. 2. Right-click the situation and select **Start Situation**. **Note:** You can permanently avoid this problem by selecting the **Run at Startup** check box of the Situation Editor view for a specific situation.
The situation is not displayed.	Click the **Action** tab and check whether the situation has an automated corrective action. This action can occur directly or through a policy. The situation might be resolving so quickly that you do not see the event or the update in the graphical user interface.
An Alert event did not occur even though the predicate was correctly specified.	Check the logs, reports, and workspaces.

Table 10. Situation problems and solutions (continued)

Problem	Solution
A situation fires on an unexpected managed object.	Confirm that you distributed and started the situation on the correct managed system.
The product did not distribute the situation to a managed system.	Click the **Distribution** tab and check the distribution settings for the situation.
The situation does not fire.	This problem can be caused when incorrect predicates are present in the formula that defines the situation. For example, the managed object shows a state that normally triggers a monitoring event, but the situation is not true because the wrong attribute is specified in the formula. In the **Formula** tab, analyze predicates as follows: 1. Click the **fx** icon in the **Formula** area. The Show formula window is displayed. a. Confirm the following details in the **Formula** area at the top of the window: • The attributes that you intend to monitor are specified in the formula. • The situations that you intend to monitor are specified in the formula. • The logical operators in the formula match your monitoring goal. • The numeric values in the formula match your monitoring goal. b. (Optional) Select the **Show detailed formula** check box to see the original names of attributes in the application or operating system that you are monitoring. c. Click **OK** to dismiss the Show formula window. 2. (Optional) In the **Formula** area of the **Formula** tab, temporarily assign numeric values that immediately trigger a monitoring event. The triggering of the event confirms that other predicates in the formula are valid. **Note:** After you complete this test, you must restore the numeric values to valid levels so that you do not generate excessive monitoring data based on your temporary settings. For additional information about situations that do not fire, see "Situations are not firing" in the *IBM Tivoli Monitoring Troubleshooting Guide*.
Situation events are not displayed in the Events Console view of the workspace.	Associate the situation with a Navigator item. **Note:** The situation does not need to be displayed in the workspace. It is sufficient that the situation is associated with any Navigator item.

Table 10. Situation problems and solutions (continued)

Problem	Solution
You do not have access to a situation.	**Note:** You must have administrator privileges to complete these steps. 1. Click **Edit** > **Administer Users** to access the Administer Users window. 2. In the **Users** area, select the user whose privileges you want to modify. 3. In the **Permissions** tab, **Applications** tab, and **Navigator Views** tab, select the permissions or privileges that correspond to the user role. 4. Click **OK**.
A managed system seems to be offline.	1. Select **Physical View** and click the Enterprise Level of the navigator tree. 2. Click **View** > **Workspace** > **Managed System Status** to see a list of managed systems and their status. 3. If a system is offline, check network connectivity and the status of the specific system or application.

Take Action commands troubleshooting

Problems can occur with Take Action commands.

Table 11 contains problems and solutions that can occur with Take Action commands.

When each Take Action command runs, it generates a log file listed in Table 4 on page 122.

Table 11. Take Action commands problems and solutions

Problem	Solution
Take Action commands often require several minutes to complete.	Allow several minutes. If you do not see a message advising you of completion, try to run the command manually.
Situations fail to trigger Take Action commands.	Attempt to manually run the Take Action command in the Tivoli Enterprise Portal. If the Take Action command works, look for configuration problems in the situation. See "Situation troubleshooting" on page 146. If the Take Action command fails, for general information about troubleshooting Take Action commands, see the *IBM Tivoli Monitoring Troubleshooting Guide*.

Support information

If you have a problem with your IBM software, you want to resolve it quickly.

IBM provides the following ways for you to obtain the support you need:

Online

The following websites contain troubleshooting information:

- Go to the IBM Software Support website (http://www.ibm.com/support/entry/portal/software) and follow the instructions.
- Go to the IBM Tivoli Distributed Monitoring and Application Management Wiki (http://www.lotus.com/ldd/tivmonitorwiki.nsf). Feel free to contribute to this wiki.

IBM Support Assistant

The IBM Support Assistant (ISA) is a free local software serviceability workbench that helps you resolve questions and problems with IBM software products. The ISA provides quick access to support-related information and serviceability tools for problem determination. To install the ISA software, go to the IBM Support Assistant website (http://www.ibm.com/software/support/isa).

Informational, warning, and error messages overview

Messages relay information about how the system or application is performing and can alert you to exceptional conditions when they occur.

Messages are sent to an output destination, such as a file, database, or console screen.

If you receive a warning or error message, you can do one of the following actions:

- Follow the instructions listed in the Detail window of the message if this information is included there.
- Consult the message details listed in this topic to see what action you can take to correct the problem.
- Consult the message log for message ID, text, time, and date of the message, as well as other data you can use to diagnose the problem.

Message format

The message format contains a message ID and text, an explanation, and an operator response.

IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain messages have the following format:

Message ID and text
Explanation
Operator Response

The message ID has the following format:

`CCC####severity`

where:

CCC Prefix that indicates the component to which the message applies. The following components are used:

KP8 General PeopleSoft Enterprise Application Domain agent messages

Number of the message

severity

Severity of the message. Three levels of severity are used:

I Informational messages provide feedback about something that happened in the product or system that might be important. These messages can provide guidance when you are requesting a specific action from the product.

W Warning messages call your attention to an exception condition. The condition might not be an error but can cause problems if not resolved.

E Error messages indicate that an action cannot be completed because of a user or system error. These messages require user response.

The *Text* of the message provides a general statement regarding the problem or condition that occurred. The *Explanation* provides additional information about the message and the possible cause for the condition. The *Operator Response* provides actions to take in response to the condition, particularly for error messages (messages with the "E" suffix).

Note: Many message texts and explanations contain variables, such as the specific name of a server or application. Those variables are represented in this topic as symbols, such as "&1." Actual messages contain values for these variables.

Agent messages

The following messages apply to IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain.

KP85001I

`The request to boot the domain succeeded.`

Explanation:

The domain booted or is booting. Check the Availability node to confirm the request succeeded.

Operator response:

None.

KP85002I

`The request to boot the domain failed.`

Explanation:

The request to boot the domain failed.

Operator response:

None.

KP85003I

`The request to stop the domain succeeded.`

Explanation:

The domain shut down or is shutting down. Check the Availability node to confirm the request succeeded.

Operator response:

None.

KP85004I

`The request to stop the domain failed.`

Explanation:

The request to stop the domain failed.

Operator response:

None.

KP85005I

`The request to restart the domain succeeded.`

Explanation:

The domain restarted or is restarting. Check the Availability node to confirm the request succeeded.

Operator response:

None.

KP85006I

`The request to restart the domain failed.`

Explanation:

The request to restart the domain failed.

Operator response:

None.

KP85100I

`Java was not found in the PATH.`

Explanation:

Java was not found in the PATH. Java 1.5 is required for starting the ITM PeopleSoft custom data provider.

Operator response:

Add Java 1.5 to the PATH.

KP85101I

`Wrong Java version found.`

Explanation:

Wrong Java version found. Java 1.5 is required for the ITM PeopleSoft custom data provider.

Operator response:

Add Java 1.5 to the beginning of the PATH.

Appendix A. Event mapping

The Tivoli Event Integration Facility (EIF) interface is used to forward situation events to Tivoli Netcool/OMNIbus or Tivoli Enterprise Console.

EIF events specify an event class and the event data is specified as name value pairs that identify the name of an event slot and the value for the slot. An event class can have subclasses. IBM Tivoli Monitoring provides the base event class definitions and a set of base slots that are included in all monitoring events. Agents extend the base event classes to define subclasses that include agent-specific slots. For PeopleSoft Enterprise Application Domain agent events, the event classes correspond to the agent attribute groups, and the agent-specific slots correspond to the attributes in the attribute group.

A description of the event slots for each event class is provided in this topic. The situation editor in the Tivoli Enterprise Portal can be used to perform custom mapping of data to EIF slots instead of using the default mapping described in this topic. For more information about EIF slot customization, see the *Tivoli Enterprise Portal User's Guide*.

Tivoli Enterprise Console requires that event classes and their slots are defined in BAROC (Basic Recorder of Objects in C) files. Each agent provides a BAROC file that contains event class definitions for the agent and is installed on the Tivoli Enterprise Monitoring Server in the `TECLIB` directory (`install_dir/cms/TECLIB` for Windows systems and `install_dir/tables/TEMS_hostname/TECLIB` for UNIX systems) when application support for the agent is installed. The BAROC file for the agent and the base BAROC files provided with Tivoli Monitoring must also be installed onto the Tivoli Enterprise Console. For details, see "Setting up event forwarding to Tivoli Enterprise Console" in the *IBM Tivoli Monitoring Installation and Setup Guide*.

Each of the event classes is a child of KP8_Base and is defined in the `kp8.baroc` (version 07.10.00) file. The KP8_Base event class can be used for generic rules processing for any event from the IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain.

For events generated by situations in the Agent Data Provider Log attribute group, events are sent using the ITM_KP8_AGENT_DATA_PROVIDER_LOG event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- kp8_date: STRING
- time: STRING
- kp8_severity: STRING
- server_name: STRING
- thread: STRING
- kp8_class: STRING
- method: STRING
- text: STRING
- log_file_name: STRING

For events generated by situations in the Agent Diagnostics attribute group, events are sent using the ITM_KP8_AGENT_DIAGNOSTICS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- itmpsv: STRING

- psptver: STRING
- psdpv: STRING

For events generated by situations in the Analytic Servers attribute group, events are sent using the ITM_KP8_ANALYTIC_SERVERS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- machine_name: STRING
- process_identifier: INTEGER
- process_identifier_enum: STRING
- registration_date_and_time: STRING
- engine_type: STRING
- remote_access_allowed: STRING
- accepting_requests: STRING
- state: INTEGER
- state_enum: STRING
- analytic_instance: STRING
- loaded_by_user_id: STRING
- time_loaded: STRING
- latest_operation: STRING
- latest_operation_by_user_id: STRING
- latest_operation_start_time: STRING
- latest_operation_end_time: STRING
- domain: STRING
- port_number: INTEGER
- port_number_enum: STRING
- tuxedo_server_id: INTEGER
- tuxedo_server_id_enum: STRING
- timeout: INTEGER
- timeout_enum: STRING
- message_name: STRING

For events generated by situations in the Application Server Clients attribute group, events are sent using the ITM_KP8_APPLICATION_SERVER_CLIENTS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- lmid: STRING
- user_name: STRING
- client_name: STRING
- time: STRING
- kp8_status: STRING
- begin: INTEGER
- begin_enum: STRING
- commit: INTEGER
- commit_enum: STRING

- abort: INTEGER
- abort_enum: STRING
- count: INTEGER
- count_enum: STRING

For events generated by situations in the Application Server Log PSAPPSRV attribute group, events are sent using the ITM_KP8_APPLICATION_SERVER_LOG_PSAPPSRV event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server_type: STRING
- pid: INTEGER
- pid_enum: STRING
- code: STRING
- transaction_info: STRING
- kp8_severity: STRING
- text: STRING
- log_file_name: STRING

For events generated by situations in the Application Server Queues attribute group, events are sent using the ITM_KP8_APPLICATION_SERVER_QUEUES event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- prog_name: STRING
- queue_name: STRING
- number_serve: INTEGER
- number_serve_enum: STRING
- wk_queued: STRING
- number_queued: INTEGER
- number_queued_enum: STRING
- ave_len: STRING
- machine: STRING
- rq_done: INTEGER
- rq_done_enum: STRING
- client_count: INTEGER
- client_count_enum: STRING
- idle_percentage: INTEGER
- idle_percentage_enum: STRING

For events generated by situations in the Application Server Servers attribute group, events are sent using the ITM_KP8_APPLICATION_SERVER_SERVERS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- process_name: STRING
- queue_name: STRING

- grp_name: STRING
- id: INTEGER
- id_enum: STRING
- rq_done: INTEGER
- rq_done_enum: STRING
- load_done: INTEGER
- load_done_enum: STRING
- current_service: STRING

For events generated by situations in the Availability attribute group, events are sent using the ITM_KP8_AVAILABILITY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- application_component: STRING
- name: STRING
- name_enum: STRING
- kp8_status: INTEGER
- kp8_status_enum: STRING
- full_name: STRING
- full_name_enum: STRING
- type: INTEGER
- type_enum: STRING
- virtual_size: INTEGER
- page_faults_per_sec: INTEGER
- working_set_size: INTEGER
- thread_count: INTEGER
- pid: INTEGER
- percent_privileged_time: INTEGER
- percent_user_mode_time: INTEGER
- percent_processor_time: INTEGER
- command_line: STRING
- command_line_enum: STRING
- functionality_test_status: INTEGER
- functionality_test_status_enum: STRING
- functionality_test_message: STRING
- functionality_test_message_enum: STRING

For events generated by situations in the Client Count attribute group, events are sent using the ITM_KP8_CLIENT_COUNT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- service: STRING
- count: INTEGER
- count_enum: STRING

For events generated by situations in the Domain Configuration attribute group, events are sent using the ITM_KP8_DOMAIN_CONFIGURATION event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- ps_home: STRING
- ps_hosttype: STRING
- ps_db: STRING
- tuxdir: STRING
- owner_id: STRING
- tools_release: STRING
- unicode_enabled: INTEGER
- unicode_enabled_enum: STRING
- domain_id: STRING
- logfence: INTEGER
- logfence_enum: STRING
- db_name: STRING
- db_type: STRING
- user_id: STRING
- connect_id: STRING
- server_name: STRING
- debug_listener_port: INTEGER
- debug_listener_port_enum: STRING
- db_monitoring: INTEGER
- db_monitoring_enum: STRING
- trace_pc: INTEGER
- trace_pc_enum: STRING
- trace_pc_mask: INTEGER
- trace_pc_mask_enum: STRING
- trace_sql: INTEGER
- trace_sql_enum: STRING
- trace_sql_mask: INTEGER
- trace_sql_mask_enum: STRING
- wl_address: STRING
- wl_port: INTEGER
- wl_port_enum: STRING
- wl_encryption: INTEGER
- wl_encryption_enum: STRING
- wl_min_handlers: INTEGER
- wl_min_handlers_enum: STRING
- wl_max_handlers: INTEGER
- wl_max_handlers_enum: STRING
- wl_max_clients_per_handler: INTEGER
- wl_max_clients_per_handler_enum: STRING
- wl_client_cleanup_timeout: INTEGER
- wl_client_cleanup_timeout_enum: STRING
- jl_address: STRING
- jl_port: INTEGER

- jl_port_enum: STRING
- jl_encryption: INTEGER
- jl_encryption_enum: STRING
- jl_min_handlers: INTEGER
- jl_min_handlers_enum: STRING
- jl_max_handlers: INTEGER
- jl_max_handlers_enum: STRING
- jl_max_clients: INTEGER
- jl_max_clients_enum: STRING
- jolt_relay_adapter_port: INTEGER
- jolt_relay_adapter_port_enum: STRING
- jolt_relay_adapter_address: INTEGER
- jolt_relay_adapter_address_enum: STRING
- appsrv_min_instances: INTEGER
- appsrv_min_instances_enum: STRING
- appsrv_max_instances: INTEGER
- appsrv_max_instances_enum: STRING
- appsrv_recycle_count: INTEGER
- appsrv_recycle_count_enum: STRING
- analytic_server_min_instances: INTEGER
- analytic_server_min_instances_enum: STRING
- analytic_server_max_instances: INTEGER
- analytic_server_max_instances_enum: STRING
- sql_access_manager_min_instances: INTEGER
- sql_access_manager_min_instances_enum: STRING
- sql_access_manager_max_instances: INTEGER
- sql_access_manager_max_instances_enum: STRING
- quick_server_min_instances: INTEGER
- quick_server_min_instances_enum: STRING
- quick_server_max_instances: INTEGER
- quick_server_max_instances_enum: STRING
- query_min_instances: INTEGER
- query_min_instances_enum: STRING
- query_max_instances: INTEGER
- query_max_instances_enum: STRING
- remote_event_notification_http_port: INTEGER
- remote_event_notification_http_port_enum: STRING
- remote_event_notification_https_port: INTEGER
- remote_event_notification_https_port_enum: STRING
- performance_monitor_min_instances: INTEGER
- performance_monitor_min_instances_enum: STRING
- performance_monitor_max_instances: INTEGER
- performance_monitor_max_instances_enum: STRING

For events generated by situations in the Domain Features attribute group, events are sent using the ITM_KP8_DOMAIN_FEATURES event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server_name: STRING
- enabled: INTEGER
- enabled_enum: STRING

For events generated by situations in the Installed Languages attribute group, events are sent using the ITM_KP8_INSTALLED_LANGUAGES event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- iso_locale: STRING
- description: STRING
- charset: STRING

For events generated by situations in the Performance Object Status attribute group, events are sent using the ITM_KP8_PERFORMANCE_OBJECT_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- query_name: STRING
- object_name: STRING
- object_type: INTEGER
- object_type_enum: STRING
- object_status: INTEGER
- object_status_enum: STRING
- error_code: INTEGER
- error_code_enum: STRING
- last_collection_start: STRING
- last_collection_start_enum: STRING
- last_collection_finished: STRING
- last_collection_finished_enum: STRING
- last_collection_duration: REAL
- average_collection_duration: REAL
- average_collection_duration_enum: STRING
- refresh_interval: INTEGER
- number_of_collections: INTEGER
- cache_hits: INTEGER
- cache_misses: INTEGER
- cache_hit_percent: REAL
- intervals_skipped: INTEGER

For events generated by situations in the Scheduler Dist Status Counts attribute group, Tivoli Enterprise Console events are sent using the ITM_KP8_SCHEDULER_DIST_STATUS_COUNTS class. This class contains the following slots:

- node: STRING

- timestamp: STRING
- process_scheduler_name: STRING
- none: INTEGER
- none_enum: STRING
- na: INTEGER
- na_enum: STRING
- processing: INTEGER
- processing_enum: STRING
- generated: INTEGER
- generated_enum: STRING
- not_posted: INTEGER
- not_posted_enum: STRING
- posted: INTEGER
- posted_enum: STRING
- delete: INTEGER
- delete_enum: STRING
- posting: INTEGER
- posting_enum: STRING

For events generated by situations in the Scheduler Run Status Counts attribute group, events are sent using the ITM_KP8_SCHEDULER_RUN_STATUS_COUNTS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server_name: STRING
- cancel: INTEGER
- cancel_enum: STRING
- delete: INTEGER
- delete_enum: STRING
- error: INTEGER
- error_enum: STRING
- hold: INTEGER
- hold_enum: STRING
- queued: INTEGER
- queued_enum: STRING
- initiated: INTEGER
- initiated_enum: STRING
- processing: INTEGER
- processing_enum: STRING
- cancelled: INTEGER
- cancelled_enum: STRING
- success: INTEGER
- success_enum: STRING
- no_success: INTEGER
- no_success_enum: STRING
- pending: INTEGER

- pending_enum: STRING
- warning: INTEGER
- warning_enum: STRING
- blocked: INTEGER
- blocked_enum: STRING
- restart: INTEGER
- restart_enum: STRING

For events generated by situations in the Server List attribute group, events are sent using the ITM_KP8_SERVER_LIST event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server_name: STRING
- begin_date_time: STRING
- last_update_date_time: STRING
- server_status: STRING
- server_hostname: STRING
- server_status_description: STRING
- description: STRING
- description_2: STRING
- distribution_node_name: STRING
- max_api_aware_tasks: INTEGER
- max_api_aware_tasks_enum: STRING
- sleep_time: INTEGER
- sleep_time_enum: STRING
- heartbeat: INTEGER
- heartbeat_enum: STRING
- daemon_enabled: STRING
- daemon_procedure_group: STRING
- daemon_sleep_time: INTEGER
- daemon_sleep_time_enum: STRING
- disk_space_threshold: INTEGER
- disk_space_threshold_enum: STRING
- disk_space_available: INTEGER
- disk_space_available_enum: STRING
- server_load_balance: STRING
- max_cpu_usage_required: INTEGER
- max_cpu_usage_required_enum: STRING
- min_memory_required: INTEGER
- min_memory_required_enum: STRING
- operating_system: STRING

For events generated by situations in the Server Process Category Activity attribute group, events are sent using the ITM_KP8_SERVER_PROCESS_CATEGORY_ACTIVITY event class. This event class contains the following slots:

- node: STRING

- timestamp: STRING
- server_name: STRING
- process_category: STRING
- process_priority: INTEGER
- process_priority_enum: STRING
- item_count: INTEGER
- item_count_enum: STRING
- max_concurrent: INTEGER
- max_concurrent_enum: STRING

For events generated by situations in the Server Process Type Activity attribute group, events are sent using the ITM_KP8_SERVER_PROCESS_TYPE_ACTIVITY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server_name: STRING
- process_type: STRING
- process_priority: INTEGER
- process_priority_enum: STRING
- item_count: INTEGER
- item_count_enum: STRING
- max_concurrent: INTEGER
- max_concurrent_enum: STRING

For events generated by situations in the Thread Pool Status attribute group, events are sent using the ITM_KP8_THREAD_POOL_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- thread_pool_size: INTEGER
- thread_pool_size_enum: STRING
- thread_pool_max_size: INTEGER
- thread_pool_max_size_enum: STRING
- thread_pool_active_threads: INTEGER
- thread_pool_active_threads_enum: STRING
- thread_pool_avg_active_threads: REAL
- thread_pool_avg_active_threads_enum: STRING
- thread_pool_min_active_threads: INTEGER
- thread_pool_min_active_threads_enum: STRING
- thread_pool_max_active_threads: INTEGER
- thread_pool_max_active_threads_enum: STRING
- thread_pool_queue_length: INTEGER
- thread_pool_queue_length_enum: STRING
- thread_pool_avg_queue_length: REAL
- thread_pool_avg_queue_length_enum: STRING
- thread_pool_min_queue_length: INTEGER
- thread_pool_min_queue_length_enum: STRING

- thread_pool_max_queue_length: INTEGER
- thread_pool_max_queue_length_enum: STRING
- thread_pool_avg_job_wait: REAL
- thread_pool_avg_job_wait_enum: STRING
- thread_pool_total_jobs: INTEGER
- thread_pool_total_jobs_enum: STRING

For events generated by situations in the Tuxedo Log attribute group, events are sent using the ITM_KP8_TUXEDO_LOG event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- time: STRING
- machine: STRING
- process_name: STRING
- process_info: STRING
- text: STRING
- log_file_name: STRING

For events generated by situations in the Watch Server In PSAPPSRV Log attribute group, events are sent using the ITM_KP8_WATCH_SERVER_IN_PSAPPSRV_LOG event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server_type: STRING
- pid: INTEGER
- pid_enum: STRING
- code: STRING
- transaction_info: STRING
- text: STRING
- log_file_name: STRING

Appendix B. Documentation library

A variety of publications are relevant to the use of the IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain.

The *IBM Tivoli Monitoring, OMEGAMON XE, and Composite Application Manager products: Documentation Guide*, SC23-8816, contains information about accessing and using publications. You can find the Documentation Guide in the following information centers:

- IBM Tivoli Monitoring and OMEGAMON® XE (http://publib.boulder.ibm.com/infocenter/tivihelp/v15r1/index.jsp)
- IBM Tivoli Composite Application Manager (http://publib.boulder.ibm.com/infocenter/tivihelp/v24r1/index.jsp)

To open the Documentation Guide in the information center, select **Using the publications** in the **Contents** pane.

To find publications from the previous version of a product, click **Previous versions** under the name of the product in the **Contents** pane.

IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain library

The documentation for this agent and other product components is located in the IBM Tivoli Composite Application Manager for Applications Information Center (http://publib.boulder.ibm.com/infocenter/tivihelp/v24r1/topic/com.ibm.itcama.doc_7.1/welcome_itcamfapps71.html).

One document is specific to the IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain: IBM Tivoli Composite Application Manager Agent for PeopleSoft Enterprise Application Domain User's Guide. This publication provides agent-specific information for configuring, using, and troubleshooting the PeopleSoft Enterprise Application Domain agent.

The *Offering Guide* also provides information about installing and configuring the component products in the offering.

Use the information in the user's guide for the agent with the *Tivoli Enterprise Portal User's Guide* to monitor PeopleSoft Enterprise (Domain) resources.

Prerequisite publications

To use the information in this publication effectively, you must have some prerequisite knowledge.

See the following publications to gain the required prerequisite knowledge:

- *IBM Tivoli Monitoring Readme First*
- *Exploring IBM Tivoli Monitoring*
- *IBM Tivoli Monitoring Administrator's Guide*
- *IBM Tivoli Monitoring Agent Builder User's Guide*
- *IBM Tivoli Monitoring Command Reference*
- *Configuring IBM Tivoli Enterprise Monitoring Server on z/OS*
- *IBM Tivoli Monitoring Installation and Setup Guide*
- *IBM Tivoli Monitoring High Availability Guide for Distributed Systems*

- *IBM Tivoli Monitoring: Messages*
- *IBM Tivoli Monitoring, OMEGAMON XE, and Composite Application Manager products: Documentation Guide*
- *IBM Tivoli Monitoring Troubleshooting Guide*
- *IBM Tivoli Monitoring Universal Agent User's Guide*
- *IBM Tivoli Universal Agent API and Command Programming Reference Guide*
- *IBM Tivoli Monitoring: Upgrading from Tivoli Distributed Monitoring*
- *IBM Tivoli Monitoring: Upgrading from V5.1.2*
- *IBM Tivoli Monitoring: i5/OS® Agent User's Guide*
- *IBM Tivoli Monitoring: Linux OS Agent User's Guide*
- *IBM Tivoli Monitoring: UNIX OS Agent User's Guide*
- *IBM Tivoli Monitoring: UNIX Logs OS Agent User's*
- *IBM Tivoli Monitoring: Windows OS Agent User's Guide*
- *Tivoli Enterprise Portal User's Guide*
- *Tivoli Performance Analyzer User's Guide*

Related publications

The publications in related information centers provide useful information.

See the following information centers, which you can find by accessing Tivoli Documentation Central (http://www.ibm.com/developerworks/wikis/display/tivolidoccentral/Home):

- IBM Tivoli Monitoring
- IBM Tivoli Netcool/OMNIbus
- IBM Tivoli Application Dependency Discovery Manager
- IBM Tivoli Enterprise Console

Other sources of documentation

You can obtain additional technical documentation about monitoring products from other sources.

See the following sources of technical documentation about monitoring products:

- IBM Integrated Service Management Library (http://www.ibm.com/software/brandcatalog/ismlibrary/) is an online catalog that contains integration documentation as well as other downloadable product extensions.
- IBM Redbook publications (http://www.redbooks.ibm.com/) include Redbooks® publications, Redpapers, and Redbooks technotes that provide information about products from platform and solution perspectives.
- Technotes (http://www.ibm.com/support/entry/portal/software), which are found through the IBM Software Support website, provide the latest information about known product limitations and workarounds.
- Tivoli wikis

  Tivoli Wiki Central (http://www.ibm.com/developerworks/wikis/display/tivoli/Home) is the home for interactive wikis that offer best practices and scenarios for using Tivoli products. The wikis contain white papers contributed by IBM employees, and content created by customers and business partners.

  Two of these wikis are of particular relevance to IBM Tivoli Monitoring:

  – Tivoli Distributed Monitoring and Application Management Wiki (http://www-10.lotus.com/ldd/tivmonitorwiki.nsf) provides information about IBM Tivoli Monitoring and related distributed products, including IBM Tivoli Composite Application Manager products.

– Tivoli System z® Monitoring and Application Management Wiki (http://www.ibm.com/developerworks/wikis/display/tivoliomegamon/Home) provides information about the OMEGAMON XE products, Tivoli NetView® for z/OS®, Tivoli Monitoring Agent for z/TPF, and other System z monitoring and application management products.

Accessibility

Accessibility features help users with physical disabilities, such as restricted mobility or limited vision, to use software products successfully.

The major accessibility features in this product enable users in the following ways:

- Use assistive technologies, such as screen-reader software and digital speech synthesizer, to hear what is displayed on the screen. Consult the product documentation of the assistive technology for details on using those technologies with this product.
- Operate specific or equivalent features using only the keyboard.
- Magnify what is displayed on the screen.

In addition, the product documentation was modified to include the following features to aid accessibility:

- All documentation is available in both HTML and convertible PDF formats to give the maximum opportunity for users to apply screen-reader software.
- All images in the documentation are provided with alternative text so that users with vision impairments can understand the contents of the images.

Navigating the interface using the keyboard

Standard shortcut and accelerator keys are used by the product and are documented by the operating system. See the documentation provided by your operating system for more information.

Magnifying what is displayed on the screen

You can enlarge information in the product windows using facilities provided by the operating systems on which the product is run. For example, in a Microsoft Windows environment, you can lower the resolution of the screen to enlarge the font sizes of the text on the screen. See the documentation provided by your operating system for more information.

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