

Warehouse Summarization and Pruning Agent  
6.3 Fix Pack 2

*Installation and Configuration Guide*





Warehouse Summarization and Pruning Agent  
6.3 Fix Pack 2

*Installation and Configuration Guide*



**Note**

Before using this information and the product it supports, read the information in “Notices” on page 25.

This edition applies to version 6, release 3, fix pack 2 of IBM Tivoli Monitoring (product number 5724-C04) and to all subsequent releases and modifications until otherwise indicated in new editions.

© **Copyright IBM Corporation 2010, 2013.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

---

## Contents

<b>Tables</b>	<b>v</b>
---------------	----------

<b>Chapter 1. Overview of the agent</b>	<b>1</b>
-----------------------------------------	----------

New in this release	1
Components of Warehouse Summarization and Pruning Agent	2
Agent Management Services	2
User interface options	3

<b>Chapter 2. Agent installation and configuration</b>	<b>5</b>
--------------------------------------------------------	----------

Configuration values	5
Disable data warehouse log tables	13
Remote installation and configuration	13

<b>Documentation library</b>	<b>17</b>
------------------------------	-----------

IBM Tivoli Monitoring library	17
Documentation for the base agents	18
Related publications	19
Tivoli Monitoring community on Service Management Connect	19
Other sources of documentation	20

<b>Support information</b>	<b>21</b>
----------------------------	-----------

<b>Notices</b>	<b>25</b>
----------------	-----------

<b>Index</b>	<b>29</b>
--------------	-----------



---

## Tables





---

## Chapter 1. Overview of the agent

The Warehouse Summarization and Pruning Agent is a unique agent that performs the aggregation and pruning functions for the historical detailed data on the Tivoli® Data Warehouse. The Summarization and Pruning Agent has advanced configuration options that enable customization of the historical data storage. One Summarization and Pruning Agent manages the historical data in the Tivoli Data Warehouse.

### IBM® Tivoli Monitoring overview

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 “Documentation for the base agents” on page 18 for complete information about IBM Tivoli Monitoring and the Tivoli Enterprise Portal.

---

### New in this release

For version 6.3 Fix Pack 2 of this monitoring agent, the following enhancements have been made since version 6.2.3, including the fix packs:

- New attributes, Enable Reporting Integration, Reporting User, Time Dimension Granularity (Minutes), and Time Dimension Initial Load (Months), have been added to the Summarization Config attribute group.
- New view, Reporting Integration Configuration, has been added to the Configuration workspace.
- New configuration variables, Enable Reporting Integration, Reporting User, Reporting Password, Time Dimension Granularity (Minutes), and Time Dimension Initial Amount (Months), have been added to the Reporting (TRAM) group.
- New attributes, Run Window (hour) and Window Used (percent), have been added to the Summarization Statistics attribute group.
- New product-provided situations, KSY\_Overload\_Warning and KSY\_Overload\_Critical, have been added.

- New attributes, Table Partitions Total, Table Partitions Added or Created, and Table Partitions Removed or Rotated, have been added to the Table Statistics attribute group.
- New workspace, Table Partition Statistics, available from the Statistics Navigator item.
- New attributes, Table Partitioning, Forward Partitions, Group by Threshold, Default Table Container, and Default Index Container, have been added to the Summarization Config attribute group.
- New view, Database Tables Configuration, has been added to the Configuration workspace.

---

## Components of Warehouse Summarization and Pruning Agent

After you install and set up the Warehouse Summarization and Pruning Agent, you have an environment that contains the client, server, and monitoring agent implementation for IBM Tivoli Monitoring

This IBM 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.

### **IBM Tivoli Enterprise Console®**

The Tivoli Enterprise Console is an optional component that acts as a central collection point for events from a variety of 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 IBM Tivoli Monitoring situations to the Tivoli Enterprise Console component.

### **Schema Publication tool**

This tool generates DDL scripts that can be used against a database capable of compression.

---

## Agent Management Services

You can use IBM Tivoli Monitoring Agent Management Services to manage the Warehouse Summarization and Pruning 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 Warehouse Summarization and Pruning Agent available, and to provide information about the status of the product to the Tivoli Enterprise Portal. For

more information about Agent Management Services, see the *IBM Tivoli Monitoring Administrator's Guide*, "Agent Management Services" chapter.

---

## User interface options

Installation of the base software and other integrated applications provides the following 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.

### **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 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.



---

## 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 Warehouse Summarization and Pruning Agent, use the “Installing monitoring agents” procedures in the *IBM Tivoli Monitoring Installation and Setup Guide*.

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*.

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 Warehouse Summarization and Pruning Agent.

---

### 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:

#### **Database Type (DBTYPE)**

Choose the database type

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

This group defines information that applies to the entire agent.

#### **Database (KSY\_WAREHOUSE\_TYPE)**

Database Type

The valid values include “DB2”, “ORACLE”, “MSSQL” when using addSystem and configureSystem CLIs.

This value is required.

Default value: DB2

#### **Sources (SOURCES)**

Sources Details

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

This group defines information that applies to the entire agent.

**JDBC JARs List (KSY\_WAREHOUSE\_JARS)**

Fully qualified paths to JDBC JAR files (comma separated)

The type is string.

This value is required.

Default value: None

**JDBC URL (KSY\_DB2\_JDBCURL)**

The Warehouse JDBC URL when connecting to a DB2 Linux/UNIX/Windows or DB2 z/OS database

The type is string.

This value is required. This setting is only valid for Warehouse Summarization and Pruning agents that are installed on operating systems other than Windows.

Default value: jdbc:db2://localhost:50000/WAREHOUSE.

**JDBC Driver (KSY\_DB2\_JDBCDRIVER)**

The Warehouse JDBC Driver when connecting to a DB2 Linux/UNIX/Windows or DB2 z/OS database

The type is string.

This value is required. This setting is only valid for Warehouse Summarization and Pruning agents that are installed on operating systems other than Windows.

Default value: com.ibm.db2.jcc.DB2Driver.

**JDBC URL (KSY\_ORACLE\_JDBCURL)**

The Warehouse JDBC URL when connecting to an Oracle database

The type is string.

This value is required. This setting is only valid for Warehouse Summarization and Pruning agents that are installed on operating systems other than Windows.

Default value: jdbc:oracle:thin:@server:port:database.

**JDBC Driver (KSY\_ORACLE\_JDBCDRIVER)**

The Warehouse JDBC Driver when connecting to an Oracle database

The type is string.

This value is required. This setting is only valid for Warehouse Summarization and Pruning agents that are installed on operating systems other than Windows.

Default value: oracle.jdbc.driver.OracleDriver.

**JDBC Driver (KSY\_MSSQL\_JDBCDRIVER)**

The Warehouse JDBC Driver when connecting to a Microsoft SQL Server database

The type is string.

This value is required. This setting is only valid for Warehouse Summarization and Pruning agents that are installed on operating systems other than Windows.

Default value: com.microsoft.sqlserver.jdbc.SQLServerDriver.

**JDBC URL (KSY\_MSSQL\_JDBCURL)**

The Warehouse JDBC URL when connecting to a Microsoft SQL Server database

The type is string.

This value is required. This setting is only valid for Warehouse Summarization and Pruning agents that are installed on operating systems other than Windows.

Default value: `jdbc:sqlserver://server:port;datasource=database;SelectMethod=cursor.`

**Warehouse user (KSY\_WAREHOUSE\_USER)**

The Warehouse user

The type is string.

This value is required.

Default value: None

**Warehouse Password (KSY\_WAREHOUSE\_PASSWORD)**

The Warehouse password

The type is password.

This value is required.

Default value: None

**TEPS Server Host (KSY\_CNP\_SERVER\_HOST)**

The TEPS hostname

The type is string.

This value is required.

Default value: localhost

**TEPS Server Port (KSY\_CNP\_SERVER\_PORT)**

The TEPS port (default 1920)

The type is numeric.

This value is required.

Default value: 1920

**Reporting (TRAM)**

Reporting Integration

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

This group defines information that applies to the entire agent.

**Enable Reporting Integration (KSY\_TRAM\_ENABLE)**

Flag that indicates whether reporting integration is enabled or not. If enabled the Time Dimension tables are created with the schema IBM\_TRAM. Allowed values are Y for yes, N for no.

The type is restricted.

The value is required.

Default value: N

**Reporting User (KSY\_DB2\_TRAM\_USER)**

Reporting user that will create the time dimension tables.

The type is string.

The value is not required.

**Reporting User (KSY\_ORACLE\_TRAM\_USER)**

Reporting user that will create the time dimension tables.

The type is string.

The value is not required.

Default value: IBM\_TRAM

**Reporting User (KSY\_MSSQL\_TRAM\_USER)**

Reporting user that will create the time dimension tables.

The type is string.

The value is not required.

Default value: IBM\_TRAM

**Reporting Password (KSY\_TRAM\_PASSWORD)**

The reporting password.

The type is password.

The value is not required.

**Time Dimension Granularity (Minutes)****(KSY\_TRAM\_TD\_GRANULARITY)**

Controls the granularity of TIME\_DIMENSION data load in minutes.

The type is numeric.

The value is required.

Default value: 5

Minimum value: 1

**Time Dimension Initial Amount (Months)****(KSY\_TRAM\_TD\_INITIAL\_LOAD)**

Amount of data to be initially loaded in the TIME\_DIMENSION table, in months.

The type is numeric.

The value is required.

Default value: 24

Minimum value: 1

**Scheduling (SCHEDULING)****Scheduling Details**

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

This group defines information that applies to the entire agent.

**Fixed Schedule (KSY\_FIXED\_SCHEDULE)**

If fixed scheduling is in use. Allowed values are Y for yes, N for no.



The type is restricted.

The value is required.

Default value: Y

**Every N days (KSY EVERY\_N\_DAYS)**

The number of days between runs (default is 1)

The type is numeric.

This value is required.

Default value: 1

**Hour to run (KSY\_HOUR\_TO\_RUN)**

The fixed hour to run (valid values are 0-12, default is 2)

The type is numeric.

This value is required.

Default value: 2

**Minute to run (KSY\_MINUTE\_TO\_RUN)**

The fixed minute to run (default is 0)

The type is numeric.

This value is required.

Default value: 0

**AM/PM (KSY\_HOUR\_AM\_PM)**

AM or PM

The type is restricted.

This value is required.

Default value: AM

**Every N minutes (KSY EVERY\_N\_MINS)**

Minutes between flexible runs

The type is numeric.

This value is required.

Default value: 60

**Blackout (KSY\_BLACKOUT)**

Exception times in HH:MM-HH:MM format (24 hour clock), comma separated when flexible scheduling shouldn't run

The type is string.

This value is optional.

**Work Days (WORK)**

Work Days Details

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

This group defines information that applies to the entire agent.

**Week starts on (KSY\_START\_OF\_WEEK\_DAY)**

The day the week starts (default is Sunday). Valid values are 0 and 1. 0 = Sunday, 1 = Monday.

The type is restricted.

This value is required.

Default value: 0

**Off Peak Shift Hours (KSY\_SHIFT1\_HOURS)**

Off peak shift hours, comma separated

The type is string.

This value is required.

Default value: 0,1,2,3,4,5,6,7,8,18,19,20,21,22,23

**Peak Shift Hours (KSY\_SHIFT2\_HOURS)**

Peak shift hours, comma separated

The type is string.

This value is required.

Default value: 9,10,11,12,13,14,15,16,17

**Count weekends as vacation (KSY\_WEEKENDS\_AS\_VACATIONS)**

Whether to consider weekends as vacation days (default is Yes).

Allowed values are Y for yes and N for no.

The type is restricted.

This value is required.

Default value: Y

**Vacation days (KSY\_VACATION\_DAYS)**

Vacation days (YYYYMMDD format), comma separated

The type is string.

This value is optional.

**Log Settings (LOG)**

Log Settings Details

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

This group defines information that applies to the entire agent.

**Prune WAREHOUSELOG (KSY\_WAREHOUSELOG\_PRUNE)**

Specify whether the WAREHOUSELOG table will be pruned.

Format is nnn.unit where nnn is the number of units and unit is day, month or year. Specify blank to not prune the table.

The type is string.

This value is optional.

**Prune WAREHOUSEAGGREGLOG  
(KSY\_WAREHOUSEAGGREGLOG\_PRUNE)**

Specify whether the WAREHOUSEAGGREGLOG table will be pruned. Format is nnn.unit where nnn is the number of units and unit is day, month or year. Specify blank to not prune the table.

The type is string.

This value is optional.

## **Additional Settings (ADDITIONAL)**

### **Additional Settings Details**

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

This group defines information that applies to the entire agent.

#### **Number of worker threads (KSY\_MAX\_WORKER\_THREADS)**

The number of worker threads to be used

The type is numeric.

This value is required.

Default value: 2

#### **Maximum rows per database transaction (KSY\_MAX\_ROWS\_PER\_TRANSACTION)**

The maximum number of rows per transaction (effective size is this value divided by number of worker threads)

The type is numeric.

This value is required.

Default value: 1000

#### **Use timezone offset from (KSY\_TIMEZONE\_IND)**

Which timezone to use when aggregating the data: agent or warehouse (default is agent)

The type is restricted.

This value is required.

Default value: agent

#### **Aggregate hourly data older than (KSY\_HOUR\_AGE\_UNITS)**

The minimum age for hourly data to be aggregated (default is 1)

The type is numeric.

This value is required.

Default value: 1

#### **Aggregate daily data older than (KSY\_DAY\_AGE\_UNITS)**

The minimum age for daily data to be aggregated (default is 0)

The type is numeric.

This value is required.

Default value: 0

#### **Maximum number of node errors to display (KSY\_NODE\_ERROR\_UNITS)**

The number of errors to keep in memory (default is 10)

The type is numeric.

This value is required.

Default value: 10

**Maximum number of Summarization and Pruning runs to display (KSY\_SUMMARIZATION\_UNITS)**

The number of summarization runs to keep in memory (default is 10)

The type is numeric.

This value is required.

Default value: 10

**Database Connectivity Cache Time (minutes) (KSY\_CACHE\_MINS)**

The number of minutes to cache the database status (default is 10)

The type is numeric.

This value is required.

Default value: 10

**Batch mode (KSY\_BATCH\_MODE)**

The type of batching to be used (default is single system). Allowed values are 0 for single system, 1 for multiple system.

The type is restricted.

This value is optional.

Default value: 0

**Database Compression (KSY\_DB\_COMPRESSION)**

Enable database compression, if supported (default is no)

The type is restricted.

This value is required.

Default value: N

**Database Table Partitioning (KSY\_PARTITION)**

Enable the usage of table partitioning, if supported. Allowed values are Y for yes, N for no.

The type is restricted.

This value is required.

Default value: N

**Number of future partitions to maintain (KSY\_PARTITIONS\_UPWARD)**

Define the number of partitions in the future that should be created. For detailed, hourly and daily, the value is in days. For other aggregations, it is the number of units in that aggregation granularity. Valid values are between 1 and 10.

The type is numeric.

This value is required.

Default value: 10

**Group by threshold (days) (KSY\_GROUP\_BY\_THRESHOLD)**

Define the number of days that should be used when discovering agents on a given table. Valid values are between 0 and 30 days. Weekly and above aggregated tables will always use 2 if the value defined is not 0. A value of 0 means to scan the entire table.

The type is numeric.

This value is required.

Default value: 0

**Default table container (KSY\_DEFAULT\_TABLE\_CONTAINER)**

Define the default table container which should be used when creating new tables. The value must follow the naming rules of the database system being used. A blank value causes the database to select the container in which the table will be created. Only supported for DB2 Linux/UNIX/Windows, and Oracle.

The type is string.

This value is optional.

Default value: None

**Default index container (KSY\_DEFAULT\_INDEX\_CONTAINER)**

Define the default index container which should be used when creating new tables. Use this to place indices in a separate container from tables. The value must follow the naming rules of the database system being used. For DB2, if indices are stored in a separate tablespace from the table data, both the table and index containers must be Database Managed Tablespaces. Only supported for DB2 Linux/UNIX/Windows, and Oracle.

The type is string.

This value is optional.

Default value: None

---

## Disable data warehouse log tables

With IBM Tivoli Monitoring v6.2.3 and later, there is now the ability to disable the creation of the data warehouse log tables so that fewer database resources are needed. This is now the default configuration for both the Warehouse Proxy Agent and the Summarization and Pruning Agents. If upgrading from an existing installation, you can truncate the existing tables in the database to allow their storage space to be reclaimed.

### About this task

If you want to revert to the previous behavior the configuration files need to be edited. For the Summarization and Pruning Agent, edit the Summarization and Pruning Agent configuration file (sy.ini on UNIX and Linux systems, KSYENV on Windows systems) and change the variable KSY\_WHLOG\_ENABLE to Y. The default value is N.

---

## 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 5.

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. Use the **addBundles** command to populate the 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 SY -n managed system name -p
DBTYPE.KSY_WAREHOUSE_TYPE=
SOURCES.KSY_WAREHOUSE_JARS=
SOURCES.KSY_DB2_JDBCURL=
SOURCES.KSY_DB2_JBCDRIVER=
SOURCES.KSY_ORACLE_JDBCURL=
SOURCES.KSY_ORACLE_JBCDRIVER=
SOURCES.KSY_MSSQL_JDBCURL=
SOURCES.KSY_MSSQL_JBCDRIVER=
SOURCES.KSY_WAREHOUSE_USER=
SOURCES.KSY_WAREHOUSE_PASSWORD=
SOURCES.KSY_CNP_SERVER_HOST=
SOURCES.KSY_CNP_SERVER_PORT=
TRAM.KSY_TRAM_ENABLE=
TRAM.KSY_TRAM_USER=
TRAM.KSY_TRAM_PASSWORD=
TRAM.KSY_TRAM_TD_GRANULARITY=
TRAM.KSY_TRAM_TD_INITIAL_LOAD=
SCHEDULING.KSY_FIXED_SCHEDULE=
SCHEDULING.KSY_EVERY_N_DAYS=
SCHEDULING.KSY_HOUR_TO_RUN=
SCHEDULING.KSY_MINUTE_TO_RUN=
SCHEDULING.KSY_HOUR_AM_PM=
SCHEDULING.KSY_EVERY_N_MINS=
SCHEDULING.KSY_BLACKOUT=
WORK.KSY_START_OF_WEEK_DAY=0
WORK.KSY_SHIFT1_HOURS=
WORK.KSY_SHIFT2_HOURS=
WORK.KSY_WEEKENDS_AS_VACATIONS=
WORK.KSY_VACATION_DAYS=
LOG.KSY_WAREHOUSELOG_PRUNE=
LOG.KSY_WAREHOUSEAGGREGLOG_PRUNE=
ADDITIONAL.KSY_MAX_WORKER_THREADS=
ADDITIONAL.KSY_MAX_ROWS_PER_TRANSACTION=
ADDITIONAL.KSY_TIMEZONE_IND=
ADDITIONAL.KSY_HOUR_AGE_UNITS=
ADDITIONAL.KSY_DAY_AGE_UNITS=
ADDITIONAL.KSY_NODE_ERROR_UNITS=
ADDITIONAL.KSY_SUMMARIZATION_UNITS=
ADDITIONAL.KSY_CACHE_MINS=
ADDITIONAL.KSY_BATCH_MODE=
ADDITIONAL.KSY_DB_COMPRESSION=
ADDITIONAL.KSY_PARTITION=
ADDITIONAL.KSY_PARTITIONS_UPWARD=
ADDITIONAL.KSY_GROUP_BY_THRESHOLD=
ADDITIONAL.KSY_DEFAULT_TABLE_CONTAINER=
ADDITIONAL.KSY_DEFAULT_INDEX_CONTAINER=
```

The following command is an example of using the **configureSystem** command to enable partitioning with 7 partitions forward:

```
tacmd configureSystem -m <SPA managed system name> -p  
ADDITIONAL.KSY_PARTITION=Y ADDITIONAL.KSY_PARTITIONS_UPWARD=7
```





---

## Documentation library

Various publications are relevant to the use of IBM Tivoli Monitoring and to the commonly shared components of Tivoli Management Services.

These publications are listed in the following categories:

- IBM Tivoli Monitoring library
- Related publications

Documentation is delivered in the IBM Tivoli Monitoring and OMEGAMON<sup>®</sup> XE Information Center at <http://pic.dhe.ibm.com/infocenter/tivihelp/v61r1/index.jsp> and also in the **Files** section of the Application Performance Management community.

For information about accessing and using the publications, select IBM Tivoli Monitoring → **Using the publications** in the **Contents** pane of the IBM Tivoli Monitoring and OMEGAMON XE Information Center at <http://pic.dhe.ibm.com/infocenter/tivihelp/v61r1/index.jsp>.

To find a list of new and changed publications, click the **New in this release** topic on the IBM Tivoli Monitoring welcome page. 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 Monitoring library

The IBM Tivoli Monitoring library provides information about the commonly shared components of Tivoli Management Services.

- *Quick Start Guide*  
Introduces the components of IBM Tivoli Monitoring.
- *Installation and Setup Guide, SC22-5445*  
Provides instructions for installing and configuring IBM Tivoli Monitoring components on Windows, Linux, and UNIX systems.
- *Installation Roadmap* available on Service Management Connect  
Provides a roadmap that covers the installation of IBM Tivoli Monitoring.
- *High Availability Guide for Distributed Systems, SC22-5455*  
Gives instructions for several methods of ensuring the availability of the IBM Tivoli Monitoring components.
- *Program Directory for IBM Tivoli Management Services on z/OS, GI11-4105*  
Gives instructions for the SMP/E installation of the Tivoli Management Services components on z/OS<sup>®</sup>.
- *Administrator's Guide, SC22-5446*  
Describes the support tasks and functions required for the Tivoli Enterprise Portal Server and clients, including Tivoli Enterprise Portal user administration.
- *Command Reference* available on Service Management Connect  
Provides detailed syntax and parameter information, as well as examples, for the commands you can use in IBM Tivoli Monitoring.
- *Messages* available on Service Management Connect

Lists and explains messages generated by all IBM Tivoli Monitoring components and by z/OS-based Tivoli Management Services components (such as Tivoli Enterprise Monitoring Server on z/OS and TMS:Engine).

- *Troubleshooting Guide* available on Service Management Connect  
Provides information to help you troubleshoot problems with the software.
- *Tivoli Enterprise Portal User's Guide* available on Service Management Connect  
Complements the Tivoli Enterprise Portal online help. The guide provides hands-on lessons and detailed instructions for all Tivoli Enterprise Portal features.
- Tivoli Enterprise Portal online help  
Provides context-sensitive reference information about all features and customization options of the Tivoli Enterprise Portal. Also gives instructions for using and administering the Tivoli Enterprise Portal.

## Documentation for the base agents

If you purchased IBM Tivoli Monitoring as a product, you received a set of base monitoring agents as part of the product. If you purchased a monitoring agent product (for example, an OMEGAMON XE product) that includes the commonly shared components of Tivoli Management Services, you did not receive the base agents.

The following publications provide information about using the base agents.

- Agentless operating system monitors
  - *Agentless Monitoring for Windows Operating Systems User's Guide*, SC23-9765
  - *Agentless Monitoring for AIX Operating Systems User's Guide*, SC23-9761
  - *Agentless Monitoring for HP-UX Operating Systems User's Guide*, SC23-9763
  - *Agentless Monitoring for Solaris Operating Systems User's Guide*, SC23-9764
  - *Agentless Monitoring for Linux Operating Systems User's Guide*, SC23-9762
- OS agent documentation is delivered in the following locations:

### Agent Installation and Configuration Guide

Available in the Information Center:

- *IBM i OS Agent Installation and Configuration Guide*, SC27-5653
- *Linux OS Agent Installation and Configuration Guide*, SC27-5652
- *UNIX OS Agent Installation and Configuration Guide*, SC27-5651
- *Windows OS Agent Installation and Configuration Guide*, SC27-5650

### Agent Reference

Available on Service Management Connect

### Agent Troubleshooting Guide

Available on Service Management Connect

### Infrastructure Management Dashboards for Servers Reference

Available on Service Management Connect

- Warehouse agent documentation is delivered in the following locations:

### Agent Installation and Configuration Guide

Available in the Information Center:

- *Warehouse Proxy Agent Installation and Configuration Guide*, SC27-5655
- *Warehouse Summarization and Pruning Agent Installation and Configuration Guide*, SC27-5654

### Agent Reference

Available on Service Management Connect

### Agent Troubleshooting Guide

Available on Service Management Connect

- System P agents
  - *AIX Premium Agent User's Guide*, SA23-2237
  - *CEC Base Agent User's Guide*, SC23-5239
  - *HMC Base Agent User's Guide*, SA23-2239
  - *VIOS Premium Agent User's Guide*, SA23-2238
- Other base agents
  - *Agent Builder User's Guide*, SC32-1921
  - *Performance Analyzer User's Guide*, SC27-4004
  - *Systems Director base Agent User's Guide*, SC27-2872
  - *Tivoli Log File Agent User's Guide*, SC14-7484
  - *Tivoli zEnterprise Monitoring Agent User's Guide*, SC14-7359 and the *Tivoli zEnterprise Monitoring Agent Installation and Configuration Guide*, SC14-7358

---

## Related publications

For information about related products and publications select **OMEGAMON XE shared publications** or other entries in the **Contents** pane of the IBM Tivoli Monitoring and OMEGAMON XE Information Center.

You can access the IBM Tivoli Monitoring and OMEGAMON XE Information Center at <http://pic.dhe.ibm.com/infocenter/tivihelp/v61r1/index.jsp>.

You can also access other information centers at IBM Tivoli Documentation Central (<https://www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/Tivoli%20Documentation%20Central>).

---

## Tivoli Monitoring community on Service Management Connect

Connect, learn, and share with Service Management professionals: product support technical experts who provide their perspectives and expertise.

For information about Tivoli products, see the Application Performance Management community on SMC at IBM Service Management Connect > Application Performance Management (<http://www.ibm.com/developerworks/servicemanagement/apm>).

For introductory information, see IBM Service Management Connect (<http://www.ibm.com/developerworks/servicemanagement>).

Use Service Management Connect in the following ways:

- Become involved with transparent development, an ongoing, open engagement between other users and IBM developers of Tivoli products. You can access early designs, sprint demonstrations, product roadmaps, and prerelease code.
- Connect one-on-one with the experts to collaborate and network about Tivoli and the (enter your community name here) community.
- Read blogs to benefit from the expertise and experience of others.
- Use wikis and forums to collaborate with the broader user community.

---

## Other sources of documentation

You can obtain additional technical documentation about monitoring products from other sources.

- Tivoli wikis

IBM Service Management Connect > Application Performance Management (<http://www.ibm.com/developerworks/servicemanagement/apm>) includes a list of relevant Tivoli wikis that offer best practices and scenarios for using Tivoli products, 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:

- The IBM Tivoli Monitoring Wiki (<https://www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/Tivoli%20Monitoring>) provides information about IBM Tivoli Monitoring and related distributed products, including IBM Tivoli Composite Application Management products.
- The Tivoli System z<sup>®</sup> Monitoring and Application Management Wiki provides information about the OMEGAMON XE products, NetView<sup>®</sup> for z/OS, Tivoli Monitoring Agent for z/TPF, and other System z monitoring and application management products.

- IBM Integrated Service Management Library

<http://www.ibm.com/software/brandcatalog/ismlibrary/>

IBM Integrated Service Management Library is an online catalog that contains integration documentation and other downloadable product extensions.

- Redbooks<sup>®</sup>

<http://www.redbooks.ibm.com/>

IBM Redbooks and Redpapers include information about products from platform and solution perspectives.

- Technotes

Technotes provide the latest information about known product limitations and workarounds. You can find Technotes through the IBM Software Support Web site at <http://www.ibm.com/software/support/>.

---

## Support information

If you have a problem with your IBM software, you want to resolve it quickly. IBM provides ways for you to obtain the support you need.

### Online

The following sites contain troubleshooting information:

- Go to the IBM Support Portal (<http://www.ibm.com/support/entry/portal/software>) and follow the instructions.
- Go to IBM Service Management Connect > Application Performance Management (<http://www.ibm.com/developerworks/servicemanagement/apm>) and select the appropriate 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 IBM Support Assistant (<http://www-01.ibm.com/software/support/isa>).

### Troubleshooting Guide

For more information about resolving problems, see the product's Troubleshooting Guide.

---

## Using IBM Support Assistant

The IBM Support Assistant is a free, stand-alone application that you can install on any workstation. You can then enhance the application by installing product-specific plug-in modules for the IBM products you use.

The IBM Support Assistant saves you the time it takes to search the product, support, and educational resources. The IBM Support Assistant helps you gather support information when you need to open a problem management record (PMR), which you can then use to track the problem.

The product-specific plug-in modules provide you with the following resources:

- Support links
- Education links
- Ability to submit problem management reports

For more information, and to download the IBM Support Assistant, see <http://www.ibm.com/software/support/isa>. After you download and install the IBM Support Assistant, follow these steps to install the plug-in for your Tivoli product:

1. Start the IBM Support Assistant application.
2. Select **Updater** on the Welcome page.
3. Select **New Properties and Tools** or select the **New Plug-ins** tab (depending on the version of IBM Support Assistant installed).
4. Under **Tivoli**, select your product, and then click **Install**. Be sure to read the license and description.

If your product is not included on the list under **Tivoli**, no plug-in is available yet for the product.

5. Read the license and description, and click **I agree**.
6. Restart the IBM Support Assistant.

---

## Obtaining fixes

A product fix might be available to resolve your problem. To determine which fixes are available for your Tivoli software product, follow these steps:

1. Go to the IBM Software Support website at <http://www.ibm.com/software/support>.
2. Under **Select a brand and/or product**, select **Tivoli**.  
If you click **Go**, the **Search within all of Tivoli support** section is displayed. If you don't click **Go**, you see the **Select a product** section.
3. Select your product and click **Go**.
4. Under **Download**, click the name of a fix to read its description and, optionally, to download it.

If there is no **Download** heading for your product, supply a search term, error code, or APAR number in the field provided under **Search Support (this product)**, and click **Search**.

For more information about the types of fixes that are available, see the *IBM Software Support Handbook* at <http://www14.software.ibm.com/webapp/set2/sas/f/handbook/home.html>.

---

## Receiving weekly support updates

To receive weekly e-mail notifications about fixes and other software support news, follow these steps:

1. Go to the IBM Software Support website at <http://www.ibm.com/software/support>.
2. Click **My support** in the far upper-right corner of the page under **Personalized support**.
3. If you have already registered for **My support**, sign in and skip to the next step. If you have not registered, click **register now**. Complete the registration form using your e-mail address as your IBM ID and click **Submit**.
4. The **Edit profile** tab is displayed.
5. In the first list under **Products**, select **Software**. In the second list, select a product category (for example, **Systems and Asset Management**). In the third list, select a product sub-category (for example, **Application Performance & Availability** or **Systems Performance**). A list of applicable products is displayed.
6. Select the products for which you want to receive updates.
7. Click **Add products**.
8. After selecting all products that are of interest to you, click **Subscribe to email** on the **Edit profile** tab.
9. In the **Documents** list, select **Software**.
10. Select **Please send these documents by weekly email**.
11. Update your e-mail address as needed.
12. Select the types of documents you want to receive.
13. Click **Update**.

If you experience problems with the **My support** feature, you can obtain help in one of the following ways:

**Online**

Send an e-mail message to [erchelp@ca.ibm.com](mailto:erchelp@ca.ibm.com), describing your problem.

**By phone**

Call 1-800-IBM-4You (1-800-426-4968).

---

## Contacting IBM Software Support

IBM Software Support provides assistance with product defects. The easiest way to obtain that assistance is to open a PMR or ETR directly from the IBM Support Assistant.

Before contacting IBM Software Support, your company must have an active IBM software maintenance contract, and you must be authorized to submit problems to IBM. The type of software maintenance contract that you need depends on the type of product you have:

- For IBM distributed software products (including, but not limited to, Tivoli, Lotus®, and Rational® products, as well as DB2® and WebSphere® products that run on Windows or UNIX operating systems), enroll in Passport Advantage® in one of the following ways:

**Online**

Go to the Passport Advantage website at [http://www-306.ibm.com/software/howtobuy/passportadvantage/pao\\_customers.htm](http://www-306.ibm.com/software/howtobuy/passportadvantage/pao_customers.htm).

**By telephone**

For the telephone number to call in your country, go to the IBM Software Support website at <http://techsupport.services.ibm.com/guides/contacts.html> and click the name of your geographic region.

- For customers with Subscription and Support (S & S) contracts, go to the Software Service Request website at <https://techsupport.services.ibm.com/ssr/login>.
- For customers with Linux, iSeries, pSeries, zSeries, and other support agreements, go to the IBM Support Line website at <http://www.ibm.com/services/us/index.wss/so/its/a1000030/dt006>.
- For IBM eServer™ software products (including, but not limited to, DB2 and WebSphere products that run in zSeries, pSeries, and iSeries environments), you can purchase a software maintenance agreement by working directly with an IBM sales representative or an IBM Business Partner. For more information about support for eServer software products, go to the IBM Technical Support Advantage website at <http://www.ibm.com/servers/eserver/techsupport.html>.

If you are not sure what type of software maintenance contract you need, call 1-800-IBMSERV (1-800-426-7378) in the United States. From other countries, go to the contacts page of the *IBM Software Support Handbook* on the web at <http://www14.software.ibm.com/webapp/set2/sas/f/handbook/home.html> and click the name of your geographic region for telephone numbers of people who provide support for your location.





---

## Notices

This information was developed for products and services offered in the U.S.A. IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing  
IBM Corporation  
North Castle Drive  
Armonk, NY 10504-1785 U.S.A.

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

Intellectual Property Licensing  
Legal and Intellectual Property Law  
IBM Japan, Ltd.  
19-21, Nihonbashi-Hakozakicho, Chuo-ku  
Tokyo 103-8510, Japan

**The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law :**

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement might not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation  
2Z4A/101  
11400 Burnet Road  
Austin, TX 78758 U.S.A.

Such information may be available, subject to appropriate terms and conditions, including in some cases payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurement may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

All IBM prices shown are IBM's suggested retail prices, are current and are subject to change without notice. Dealer prices may vary.

This information is for planning purposes only. The information herein is subject to change before the products described become available.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

#### COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to

IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. You may copy, modify, and distribute these sample programs in any form without payment to IBM for the purposes of developing, using, marketing, or distributing application programs conforming to IBM's application programming interfaces.

Each copy or any portion of these sample programs or any derivative work, must include a copyright notice as follows: © (your company name) (year). Portions of this code are derived from IBM Corp. Sample Programs. © Copyright IBM Corp. 2013. All rights reserved.

If you are viewing this information in softcopy form, the photographs and color illustrations might not be displayed.



---

# Index

## A

- agent
  - functions 1
- Agent Management Services 2

## C

- commands
  - tacmd addSystem 13
- components 2
- configuration
  - agent 5
  - fields 5
  - remote 13
  - values 5
- configuring the monitoring agent 5
- copyright 25
- customer support 23

## D

- developerWorks 20

## E

- enhancements 1

## F

- fixes, obtaining 22

## I

- IBM Redbooks 21
- IBM Support Assistant 21
- IBM Tivoli Monitoring
  - overview 1
- installation
  - agent 5
  - remote 13
- installing the monitoring agent 5
- Integrated Service Management Library 20
- interface, user 3
- ISA 21

## N

- new in this release 1
- notices 25

## O

- overview
  - IBM Tivoli Monitoring 1

## P

- problem resolution 21

## R

- Redbooks 20, 21
- remote
  - installation and configuration 13
- requirements 5

## S

- Service Management Connect 19, 21
- SMC 19, 21
- Software Support 21
  - contacting 23
  - receiving weekly updates 22
- support assistant 21
- Support Assistant 21

## T

- tacmd addSystem command 13
- Technotes 20

## U

- user interfaces options 3

## W

- Warehouse Summarization and Pruning Agent
  - components 2







Printed in USA

SC27-5654-00

