Tivoli® IBM Tivoli OMEGAMON XE for Messaging

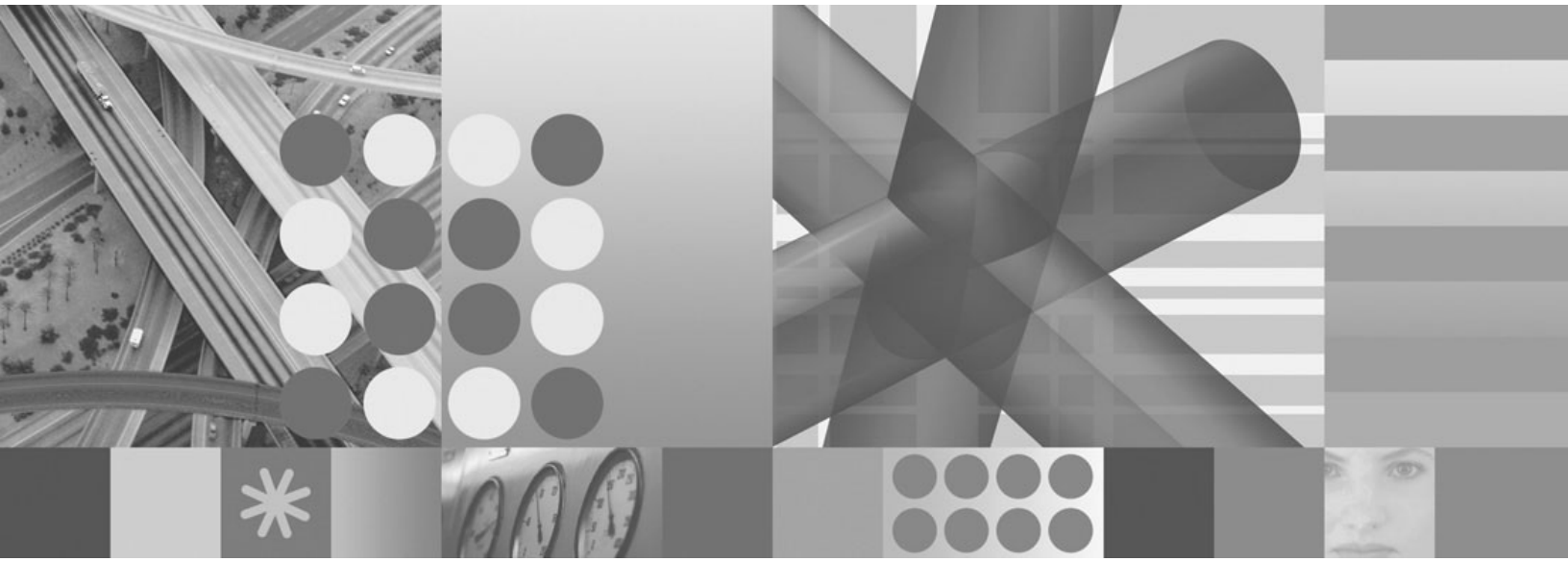
Version 6.0

Fix Pack 01 Readme and Documentation Addendum

GI11-8112-00

Tivoli® IBM Tivoli OMEGAMON XE for Messaging

Version 6.0



Fix Pack 01 Readme and Documentation Addendum

GI11-8112-00

Note!

Before using this information and the product it supports, read the information in Appendix D, "Notices and trademarks," on page 51.

First edition

This edition applies to the version 6, release 0, modification 0 of IBM Tivoli OMEGAMON XE for Messaging (product number 5724-N13) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Chapter 1. About this fix pack

The readme and documentation addendum file provides details about installing the fix pack and describes new product features, enhancements and changes in the IBM® Tivoli® OMEGAMON® XE for Messaging V6.0 fix pack 01.

New in this fix pack

This fix pack includes the following new features and enhancements:

- Support for two new platforms: Solaris on AMD Opteron and HP Itanium®.
- Application support for Power Linux® platform has been added to Tivoli Enterprise™ Portal (TEP), Tivoli Enterprise Browser (TEB), Tivoli Enterprise Portal Server (TEPS) and Tivoli Enterprise Monitoring Server (TEMS)
- Improved queue configuration dialog displaying speed.
- Name-matching function is added: when you type a queue name in the combo box, the name will be matched to the closed queue names in the list. This name will then be highlighted in a drop-down list.
- **F5** shortcut is added to refresh the resources window.
- Updating of actual from defined operations can be performed on multiple objects from the same resource group simultaneously.
- Replicate operations can be performed on multiple objects from the same resource group simultaneously.
- Validate operations can be performed on multiple objects from the same resource group simultaneously.

Product fix history

The following defects and APARs are addressed in Fix Pack 01:

Table 1. APARs addressed in this fix pack

APAR/defect number	Symptom
APAR IY96522	Warehousing and pruning agent does not show up for configuration. In the TEP warehouse configuration screen, all options are grayed out for the WICS agent.
APAR IY98386	Unable to start WICS datasource agent on AIX® 5.3.
APAR IY98016	Add KMC regressed function to export and print MQ configuration audit log.
APAR IY90526	Configuration_Background situation 1203 error. The Configuration_Background situation is no longer needed in MC V370 and above.
APAR IY92422	The message KMQMI221E of the KMQ V600 agent on AS400 should be renamed to KMQMI221I
APAR IY93153	Message KMQMI102E is thrown out when KMQ agent is trying to open the queue named KMQ.IRA.AGENT.QUEUE.
APAR IY89117	The WebSphere® MQ Monitoring agent cannot recognize the default queue manager definition if it appears after the default queue manager specification in the mqs.ini file.

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Table 1. APARs addressed in this fix pack (continued)

APAR/defect number	Symptom
APAR IY89441	When the WebSphere MQ Monitoring agent is running, it locks the historical data file for queue events and prevents the krarloff tool from converting it to a readable format.
APAR IY89562	If a string with spaces is provided as the value of the ACHIVEOPTS parameter in the configuration file of WebSphere MQ Monitoring agent, an error will be generated.
APAR IY91667	A core file is generated on UNIX® if a WebSphere MQ Monitoring agent with the error log cycle function enabled is stopped.
APAR IY92210	The Historical Application Statistics workspace contains data from many different applications, not just from one application.
APAR IY85528	In certain situations where two newly created queues with identical names are saved, no error message is displayed, although changes are not actually saved.
APAR IY85741	When an object is selected in the defined view, a detailed information panel is displayed in the top right of the window. This panel is not automatically refreshed after user saves changes made to the object.
APAR IY87094	After deleting an object from the defined view, if a second copy of the object is created from the same prototype in the same location, it functions incorrectly.
APAR IY87912	If all Configured System Groups in the defined view are deleted, a workspace error occurs.
APAR IY87909	When importing objects in XML format, if the values of variables are assigned with a variable argument (for example, A = B) instead of a numerical value (for example, A = 10), the values will be lost.
APAR OA17985	Discovery operations fail to complete when a queue manager object has a namelist. Note that if the namelist is very large, this problem may still occur.
APAR OA18336	Hub TEMS stops responding for an unacceptably long period of time after discovering a queue manager with a large number of queues.
APAR IY90090	When copying objects with names containing symbolic variables, incorrect suffixes are appended to the object names.
APAR IY88590	Display resources window is not refreshed when resources are updated.
APAR IY89172	When changes are made to a resource's attributes, the information in the resources window is not updated automatically.
APAR IY82906	Agents consume a large amount of CPU processing time.
APAR IY96777	Failure to add situations which have ″Queue Name″ as part of the condition expression.
APAR IY94938	No content for error message KMC0002E Reason 715.
APAR IY94382	When the KQI agent is running on 64 bit HP-UX, the broker status column in the QI workspace is displayed as stopped when the broker is actually started.
APAR IY96032	The ″Include object's Children″ option on the ″MQ Configuration Discrepancy Display″ screen is grayed out.
APAR IY92150	Multiple items with the same name in the ″Based on prototype″ drop-down list.

Table 1. APARs addressed in this fix pack (continued)

APAR/defect number	Symptom
APAR IY93868	When the KMQ agent is running on i5/OS®, sometimes, the data collection for QMCH_LH is stopped with an MCH1212 message in the job log.
APAR IY95746	When the MC version 6.0 agents and previous versions of KMC agents connect to the same TEMS, sometimes MQ objects show ″unnamed″ after a discovery. This is caused by issuing wrong SQL queries from TEMS.
Defect 175858	Configuration of WICS Monitoring Agent is not correctly saved. After invoking ″Configure WICS Monitoring Agent″ GUI from the ″Manage Tivoli Enterprise Monitoring Services″, the Poll Interval will become ″0″ and the version of all entries will become ″4.2″.
Defect 168660	The internal function LookUpRegistration() returns a wrong value.
Defect 168908	When creating or updating Server-connection type channels for V5.3.1 queue managers, the DISCINT keyword is not recognized, as a result the creation or update fails.
Defect 169037	Excessive KCFCM092I messages are issued in the RKLVLOG, as a result, the log is too long and it is difficult to find other useful information.
Defect 169652	kcjras1.log (TEP log file) which shows the kmc resource bundle is not loaded as expected.
Defect 169440	Historical Queue Statistics workspace will be set as default workspace for the Queue Statistics navigator tree item after you open it for the first time. The following navigator tree items also have the same problem: • Channel Performance • Application Statistics • Log Manager Performance • Historical Message Manager Performance • Page Set Statistics
Defect 169011	The Current Situation Values workspace of the situation event gets noting to display, when the following situations are triggered: • MQSeries_Bufpool_Buffer_Shrt_Crt • MQSeries_Bufpool_Buffer_Shrt_Wrn • MQSeries_Bufpool_High_GetPage_IO • MQSeries_LogMgr_High_Archiv_Read
Defect 169595	The MQSeries_Bufpool_Buffer_Shrt_C situation is not automatically started after the fix for Defect 169011 is applied.
Defect 169435	KMQ workspace is not correct when using the TEP Browser.
Defect 169434	KMQ agent cannot parse SET EVENTLOG ARCHIVEOPTS(-O LULU.TXT -S QMEVENTH) correctly in mq.cfg. The configuration will be messed up.
Defect 171280	Error log file name has wrong path like: */QIBM/UserData/mqm//qmgrs/qmgrs/QMI5OS/errors/AMQERR01.LOG/errors/AMQERR02.LOG* in the agent trace log file on AS400. And all table view of Queue Message cannot be monitored.
Defect 169437	When validating the 6.0 queue manager, error messages occur: • KMC0577E Invalid DSN WLM value • KMC0549E Invalid Accounting Queue value
Defect 172085	When there are many objects (for example, 4000 queues) in one resource group, and you click the ″+″ sign, it takes a long time to expand that resource group.

Table 1. APARs addressed in this fix pack (continued)

APAR/defect number	Symptom
Defect 158488	The value of attribute ACCTCONO of a QMGR in the defined view is not correct.
Defect 172894	Attribute STATQ of a local queue or a model queue cannot be updated via "Update actual from define".
Defect 170466	When the TEMS is running on z/OS®, the description cannot be updated from a V370 KMC agent, and from a V6.0 KMC agent. The listener's description cannot be updated.
Defect 170937	When the audit logging records a change of description, the description in the audit log workspace is incorrect.
Defect 171219	When the TEMS is running on z/OS, if there is a letter "p" in the description, the letter "p" will not be shown on TEP because the EBCDIC "p" is treated as an ASCII "&".
Defect 171025	When "}" is in the description, saving this value on the GUI will cause the TEP to show a "communication error" error message, and the value cannot be saved.
Defect 172046	When the TEMS is running on z/OS, a symbolic variable in the description field cannot be parsed correctly.
Defect 171249	After running the conversion tool, the description in the prototype resource group is lost.
Defect 177080	The kmq agent can be started even if no queue manager specified in mq.cfg configuration file and no default queue manager defined in the system.
Defect 177081	The kmq agent process cannot be shutdown normally occasionally. "kill-9" is invoked to terminate the agent process forcefully. Besides, even normal agent shutdown does not get noticed by the framework or TEMS in a timely manner. The agent does not change to offline when it is no longer running.

Product compatibility

For distributed environment

- IBM Tivoli Monitoring (ITM) V6.1.0 with fix pack 4 Interim Fix 9 at the minimum; ITM V6.1.0 Fix pack 5 recommended.
- IBM WebSphere MQ 5.3, 6.0
- Any of the following IBM broker products:
  - IBM WebSphere MQ Integrator V2.1
  - IBM WebSphere MQ Integrator Broker V2.1
  - IBM WebSphere MQ Event Broker V2.1
  - IBM WebSphere Business Integration Event Broker V5
  - IBM WebSphere Business Integration Message Broker V5
  - IBM WebSphere Business Integration Message Broker with Rules and Formatter Extension V5
  - IBM WebSphere Event Broker V6
  - IBM WebSphere Message Broker V6
  - IBM WebSphere Message Broker V6 with Rules and Formatter Extension V6v
- IBM WebSphere InterChange Server V4.2.2, V4.3

For the host z/OS environment

- IBM Tivoli Monitoring (ITM) V6.1.0 with fix pack 4 Interim Fix 9 at the minimum; ITM V6.1.0 Fix pack 5 recommended.
- IBM WebSphere MQ V5.3.1 or V6.0
- Any of the following IBM Broker products:
  - IBM WebSphere MQ Integrator V2.1
  - IBM WebSphere MQ Integrator Broker V2.1
  - IBM WebSphere Business Integration Event Broker V5
  - IBM WebSphere Business Integration Message Broker V5
  - IBM WebSphere Business Integration Message Broker with Rules And Formatter Extension V5
  - IBM WebSphere Event Broker V6
  - IBM WebSphere Message Broker V6
  - IBM WebSphere Message Broker V6 with Rules and Formatter Extension

Chapter 2. Installation information

This section provides information about system requirements, product installation, migration, and configuration for IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01.

System requirements

Hardware requirements

- Disk space: minimum 210 MB, recommended 250 MB
- Memory: minimum 512 MB, recommended 1 GB
- CPU: minimum 1 GHz, recommended 1 GHz for RISC architecture and 2 GHz for Intel® architecture

Before installing this fix pack, ensure that the system on which you are installing meets the following disk space requirements:

Note:

- 60 MB disk space for IBM Tivoli OMEGAMON XE for Messaging agents
- 40 MB disk space for Tivoli Enterprise Monitoring Server (TEMS) support
- 10 MB disk space for Tivoli Enterprise Portal Server (TEPS) support
- 50 to 100 MB disk space for Java™ Virtual Machine (JVM) and Uninstaller (the size varies with the platform types, for example, AIX 37 MB, HP 82 MB)
- Another 400 MB disk space is required if installing all remote deployment support - 125 MB for each of the following agents:
  - WebSphere Message Broker Monitoring
  - WebSphere MQ Configuration
  - WebSphere MQ Monitoring

Software requirements

Software requirements for distributed environment

- Windows® 2000 Professional server or advanced server, with service pack 3, or later
- Windows XP Professional Edition with service pack 1, or later
- Windows 2003 server
- AIX 5.2 or 5.3 (32 bit or 64 bit)
- Solaris 9 or 10 (32 bit or 64 bit)
- HP-UX 11i (32 bit or 64 bit) with the following Goldpacks released in June 2003:
  - GOLDBASE11i,r=B.11.11.0306.4
  - GOLDAPPS11i,r=B.11.11.0306.4
- OS/400® 5.2; i5/OS 5.3
- Linux on zSeries
  - SuSE Enterprise Server 8 (2.4.x kernel level) or 9 (2.6.x kernel level)
  - Red Hat Enterprise Linux 3 (2.4.x kernel level) or 4 (2.6.x kernel level)
- Linux on Intel

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- SuSE Enterprise Server 8 (2.4.x kernel level) or 9 (2.6.x kernel level)
- Red Hat Enterprise Linux 3 (2.4.x kernel level) or 4 (2.6.x kernel level)

- The minimum level of maintenance required for the agent on Intel Linux is CSD05 for IBM WebSphere MQ 5.3, or later

Software requirements for z/OS environment

- IBM z/OS V1.5, or later

For more information about Hardware and Software requirements, see Chapter 2, "Preparing for Installation" of the *IBM Tivoli OMEGAMON XE for Messaging: Installation Guide*.

Prerequisites

You need to upgrade you IBM Tivoli Monitoring (ITM) to Version 6.1 fix pack 5. For information about the ITM V6.1 fix pack 5 installation, see the latest refreshed version of the *IBM Tivoli Monitoring Installation and Setup Guide*.

Note: When you are upgrading from Candle® 350 to ITM V6.1 fix pack 5, the TEMS cannot be started. You need to perform the following steps to ensure that TEMS can be started automatically:

1. Stop all the CMS services and change the startup from **Automatic** to **Manual**.
2. Remove KCFFEPRB.KCFCCTII from KBBENV.
3. Rename KCFFEPRB.dll to KCFFEPRB.dll.bak.
4. Restart the machine.
5. Install the ITM V6.1 fix pack 5 image.

Installation instructions

IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01 can help you with the following tasks:

- **Fresh Install**:

  If you do not have IBM Tivoli OMEGAMON XE for Messaging V6.0 installed, this fix pack can help you install and upgrade the IBM Tivoli OMEGAMON XE for Messaging to V6.0.0.1 all at once.

- **Upgrade**:

  If you already have WebSphere Business Integration V1.0 or WebSphere Business Integration V1.1 or IBM Tivoli OMEGAMON XE for Messaging V6.0 installed, this fix pack can help you upgrade to IBM Tivoli OMEGAMON XE for Messaging V6.0.0.1. The installer will backup the configuration files for you before the installation; and reconfigure the components with the previous configuration values after the installation.

Perform the following tasks to complete the fresh installation or upgrade:

1. Installing or upgrading Tivoli Enterprise Monitoring Agents (TEMA) on machines with queue managers or brokers to be monitored
2. Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging support on machines with TEPS
3. Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging support on machines with TEP Desktop

4. Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging support on machines with Hub and remote TEMS
5. Adding TEMS Application Support to the Hub TEMS

Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging TEMA agents

Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging TEMA agents on Windows

Notes:

1. If you do not have IBM Tivoli OMEGAMON XE for Messaging V6.0 installed on you machine, you need to perform the pre-installation tasks as described in the ″Step1. Pre-Installation Tasks″ section of Chapter 4, ″Installing the Products on Windows″ in the *IBM Tivoli OMEGAMON XE for Messaging: Installation guide*.
2. If you want to install IBM Tivoli OMEGAMON XE for Messaging on a machine without TEMS, you need to install the Tivoli Enterprise Monitoring Agent Framework first. Without this framework, the installation cannot be proceeded.

To install or upgrade the IBM Tivoli OMEGAMON XE for Messaging TEMA agents on Windows, perform the following steps:

1. Log onto Windows under a user ID with Administrator authority.
2. Stop all ITM services that are running.

   From the **Manage Tivoli Enterprise Monitoring Services** panel, select all the ITM processes that are running, right-click them and click **Stop**. Wait for all processes to stop, and close Manage Tivoli Enterprise Monitoring Services.
3. Insert the IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01 CD-ROM into your CD-ROM drive. The installation begins automatically.

   If InstallShield Wizard does not start, go to CD directory WINDOWS and double-click **setupwin32.exe**. If **setupwin32.exe** initialization fails, you do not have enough space to decompress the setup files.

   Note: If you are running Windows 2003 or Windows XP and have security set to check the software publisher of applications, you might receive an error stating that the setupwin32.exe file is from an unknown publisher. Click **Run** to disregard this error message.
4. Read the welcome text and click **Next** to continue.
5. Read the software license agreement, select **I accept the terms of the license agreement**, and click **Next**.
6. You are prompted to choose the destination directory for the installation files. If you want to choose a location other than the one shown (C:\IBM\ITM), click **Browse**, and select that folder.
7. Click **Next** to continue.
8. Choose the installation type that suits your need. Select **Custom**.
9. Click **Next** to continue. And select the features you want to install.

   Agents and Adapters

   - To install all the IBM Tivoli OMEGAMON XE for Messaging agents on this machine, select all the agents under **Agents and Adapters**.
   - To install particular agents on this machine, select only the checkboxes for those agents.

Note: To install WebSphere InterChange Server Monitoring, you will need to install WebSphere InterChange Server data sources as well as a WebSphere InterChange Server monitoring agent. However, the data sources must be installed on the host of each monitored WebSphere InterChange Server, and the monitoring agent should be installed, if possible, on the same machine as the TEMS. For more information about the WebSphere InterChange Server monitoring agent and data sources, see *IBM Tivoli OMEGAMON XE for Messaging: WebSphere InterChange Server Monitoring User's Guide*.

Click **Next** and read the summary information. If you want to go back and change your settings, click **Back**. When you are ready to copy the files with the settings displayed, click **Install**.

10. After the installation completes, you can see the following configuration tasks:
    - **Configure IBM Tivoli Enterprise Monitoring Server**
    - **Configure Tivoli Enterprise Portal Server**
    - **Add Application Support to IBM Tivoli Enterprise Monitoring Server**
    - **Configure Agent default connections to Tivoli Enterprise Monitoring Server**
    - **Launch Manager ITM Services for additional configuration options**
11. Click **Next** to continue.
12. Configure defaults for connecting to a TEMS:
    a. In the **Configuration Defaults for Connecting to a TEMS** dialog box that pops up:
       1) If the agent must cross a firewall to access the TEMS, select **Connection must pass through firewall**.
       2) Identify the type of protocol that the agent uses to communicate with the TEMS. You have four choices: IP.UDP, IP.PIPE, IP.SPIPE, and SNA. You can specify more than one methods. If Protocol 1 fails, Protocol 2 will be used as a backup method. Click **OK**.
    b. Complete the fields as explained in table 2, and click **OK**.

Table 2. Communications protocol settings

Field	Description
IP.UDP Settings	
Hostname or IP Address	The host name or IP address for the hub monitoring server.
Port number and/or Port Pools	The listening port for the hub monitoring server.
IP.PIPE Settings	
Hostname or IP Address	The host name or IP address for the hub monitoring server.
Port Number	The listening port for the monitoring server. The default number is 1918.
IP.SPIPE Settings	
Hostname or IP Address	Hostname or IP Address The host name or IP address for the hub monitoring server.
Port number	The listening port for the hub monitoring server. The default value is 3660.
SNA Settings	

Table 2. Communications protocol settings (continued)

Network Name	The SNA network identifier for your location.
LU Name	The LU name for the monitoring server. This LU name corresponds to the Local LU Alias in your SNA communications software.
LU 6.2 LOGMODE	The name of the LU6.2 LOGMODE. The default value is CANCTDCS.
TP Name	The transaction program name for the monitoring server.
Local LU Alias	The LU alias.

13. In the **Add application support to the TEMS** dialog box that pops up, select the location of the TEMS. Click **OK** to continue.
14. Click **Finish** to exit the wizard. The installation completes.

Performing a silent install on Windows:
Silent installation is useful for advanced users who prefer to input installation information once through a response file instead of repeatedly through an installation program.

Creating a response file:
A sample silent installation response file is provided on the product CD. Perform the following steps to edit that response file as appropriate for your environment:

1. Locate the *silent_install_sample.txt* file on the product installation CD. Copy this file to a temporary directory on your system.
2. Edit the *silent_install_sample.txt* file.
   - Open your copy of the *silent_install_sample.txt* file in a text editor.
   - Before editing the response file, note the following syntax rule:
     - Comment lines begin with a pound sign (#).
     - Blank lines are ignored.
     - Parameter lines are PARAMETER=value. Do not use a space before the parameter; you can use a space before or after an equal sign (=).
     - Do not use any of the following characters in any parameter value:
       - Dollar sign ($)
       - Equal sign (=)
       - Pipe sign (|)
     - Set the following parameters as appropriate for your environment:

Table 3. User-defined parameter of the response file

Parameter	**Definition**
INSTALL_LOCATION	Specify the location where you intend to install the product. The default location for installation is : *C:\IBM\ITM*
INSTALL_FOR_PLATFORM	The operating system for which to install the product. You can specify an architecture code. If you do not specify an architecture code, the operating system for the current computer is used.

Table 3. User-defined parameter of the response file (continued)

Parameter	Definition
TEMS_NAME=	If you are installing a Tivoli Enterprise Monitoring Server (TEMS), provide a name for the server. This serves as a label to identify the server. It should not be an IP address or hostname. On windows, the name is usually TEMS1.

- Uncomment the **LICENCE_AGREEMENT** line.
- Uncomment the product components and product supports you intend to install on this machine.
- Uncomment the product components you intend for remote deployment.
- Save and close the file.

Running the silent installation from the command line:
Perform the following steps to run the installation from the command line:

1. Open a command prompt.
2. Change to the directory containing this installation (where setupwin32.exe resides).
3. Run setup as follows. You must specify the parameters in the same order as listed below:

   ```
   setupwin32 -silent -V RESPONSEFILE_PATH=<response_file>
   ```

   where:

   -silent specifies that this is a silent install. Nothing will be displayed during the installation.

   -V RESPONSEFILE_PATH= specifies the name and the absolute path of the response file, for example: **RESPONSEFILE_PATH="C:\temp\ silent_install_sample.txt"**. This is a required parameter. This file must exist.
4. During the installation process, if a dialog box pops up indicating that there exists a file newer than the file to be installed, choose **Yes to All** to replace it.
5. When silent installation completes, you still need to perform the following two configuration tasks:
   a. **Adding application support to the TEMS**

      If the TEMS to which the agents report is on the same machine as the agents and if you have installed the TEMS application support, select this task now and add application support to the TEMS with data from all agents installed on the machine. Otherwise, add application support to the TEMS from the machine that hosts the TEMS. See "Adding application support to the TEMS on Windows" on page 31 for more information.

   b. **Configure the agents' default connection to the TEMS**

      The agents' default connection to the TEMS might already have been set during the IBM Tivoli Monitoring installation. If not, perform the tasks in "Configuring the Agents' Default Connection to TEMS" on page 13.

   c. **Setting up the Configuration Database**

      If you installed WebSphere MQ Configuration on the same machine as the TEMS, you need to set up the Configuration Database. Open the WebSphere MQ Configuration Data Source Parameters dialog by executing file **KCFDatasource.exe** from the *install_dir**CMS* directory (where *install_dir* is the home directory of the IBM Tivoli Monitoring and IBM Tivoli OMEGAMON XE for Messaging). For more information, see the *IBM Tivoli OMEGAMON XE for Messaging: Installation Guide*.

Configuring the Agents' Default Connection to TEMS:

1. Open **Manage Tivoli Enterprise Monitoring Services** panel by selecting **Start->All Programs->IBM Tivoli Monitoring->Manage Tivoli Monitoring Services**.
2. Click **Actions** from the menu bar, and then select **Set Defaults for All Agents** from the Actions menu.
3. In the dialog box that pops up:
   a. If the agent must cross a firewall to access the TEMS, select **Connection must pass through firewall**.
   b. Identify the type of protocol that the agent uses to communicate with the TEP server. You have four choices: **IP.UDP**, **IP.PIPE**, **IP.SPIPE**, and **SNA**. You can specify more than one methods. If Protocol 1 fails, Protocol 2 will be used as a backup method. Click **OK**.
   c. Complete the fields as explained in Table 2 on page 10, and click **OK**.

Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging TEMA agents on UNIX and Linux

Notes:

1. If you do not have IBM Tivoli OMEGAMON XE for Messaging V6.0 installed on you machine, you need to perform the pre-installation tasks as described in the "Pre-Installation Tasks" section of Chapter 5, "Installing the Products on UNIX/Linux" in the *IBM Tivoli OMEGAMON XE for Messaging: Installation guide*.
2. If you want to install IBM Tivoli OMEGAMON XE for Messaging on a machine without TEMS, you need to install the Tivoli Enterprise Monitoring Agent Framework first. Without this framework, the installation cannot be proceeded.

You can choose one of the following ways to install IBM Tivoli OMEGAMON XE for Messaging TEMA agents on UNIX and Linux:

- "Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging TEMA agents with command line"
- "Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging TEMA agents with InstallShield Wizard" on page 15

Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging TEMA agents with command line:
This section contains the step-by-step instructions for installing or upgrading IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01, using command-line scripts.

Step 1. Installation:
In this step you run the installer through a shell script to install the IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01.

Warning: DO NOT press Ctrl+C to stop the installation!

The installation tool updates an installation database while running. If values requested are not currently available, complete the process by skipping the entry or entering a dummy value, and noting the location. When the values or resources needed to change the dummy entries become available later (and before you try to run the product), revisit the configuration process and fill in the missing values. **If you abort the installation by pressing Ctrl+C, you will have to reinstall from**

scratch (for example, using a new $*install_dir* directory), or the integrity of the configuration database is no longer assured.

To install the product with command line, perform the following steps:

1. Mount the IBM Tivoli OMEGAMON XE for Messaging fix pack 01 CD-ROM at the location you have chosen on the host:

   ```
   mount device mount_point
   cd mount_point
   ```

   where:

   - *device* is the device driver for the CD-ROM.
   - *mount_point* is the directory where the device will be mounted.

   Note: The *IBM Tivoli OMEGAMON XE for Messaging CD* conforms to ISO 9660 standards. The mount command may require additional options based on the OS platform that you are running. IBM does not document basic operating systems commands that are the responsibility of your system administrator to oversee. Consult the main pages of your operating system documentation if necessary.
2. From the directory of the CD-ROM, where the platform-dependent product image is located (see Appendix B, "Product image location," on page 43), execute **setup<platform>.bin** by entering:

   ```
   ./setup<platform>.bin -console [-is: tempdir temp_path]
   ```

   where <platform> is the platform name on which you are installing the product. For example, if you are installing on a Solaris machine, then the executable should be **setupSolaris.bin**; *temp_path* is the temporary directory to store the temporary files used during the installation. By default, the installation uses the */tmp* directory. Use *-is:tempdir temp_path* option if your */tmp* directory does not have enough space to accommodate the temporary files needed for production installation.
3. Enter **1** in response to the prompt.
4. Read the license agreement and enter **1** to accept it. Press **Enter**.

   Note: If you receive **unarchive failed** or **could not unzip** error messages, change to a root user ID and run the **/usr/sbin/slibclean** command. This will remove any unused modules from system memory and allow you to install the products.
5. Enter **1** to continue, and then specify the directory for the **IBM Tivoli OMEGAMON XE for Messaging** product, or accept the default directory (*/opt/IBM/ITM*). Enter **1** to continue.
6. Choose the installation type that best suits your needs. Enter **2** to select **Custom**. The program will be installed with the features that you choose. Press **Enter**.
7. Enter **1** to continue. Make sure that **IBM Tivoli OMEGAMON XE for Messaging** is selected.
   - To install all the IBM Tivoli OMEGAMON XE for Messaging agents on this machine, enter **0** to continue the installation.
   - To install particular agents on this machine:
     a. Enter **1** and then enter **2** to view the subfeatures of IBM Tivoli OMEGAMON XE for Messaging.
     b. Enter **1** to select **Agent and Adapters**.
     c. Enter **2** to select **View Agents and Adapter**.

d. Type the number of the agent that you intend to deselect, then the agent will not be installed.
e. You can deselect other agents by entering the corresponding number.
f. Enter **0** to continue the installation.

8. Enter **1** to continue. Read the summary information and enter **1** to start the installation.
9. During the installation, if a dialog box pops up indicating that there exists a file newer than the file to be installed, choose **Yes to All** to replace it.
10. After the components are installed, enter the root password when prompted. (This is required for later configuration steps.)
11. Enter **3** to finish the installation.

Step 2. Adding application support to TEMS:
Before you can use a monitoring agent, the TEMS to which it reports must be added with application support; that is, initialized with application data. Application support adds product-provided situations, templates, and other sample data to the TEMS's Enterprise Information Base (EIB) tables.

To add application support to the TEMS, see "Adding application support to TEMS" on page 31.

Step 3. Configuring the agents' default connection to the TEMS:
The agents' default connection to TEMS might already have been set during the IBM Tivoli Monitoring installation. If not, you need to use the **itmcmd config** script to perform this task:

- Enter the command from the *install_dir/bin* directory:

  `./itmcmd config -A pc`

  where *pc* is a two-character product code. See Appendix A, "Product codes," on page 41. If you are configuring the WebSphere MQ Monitoring agent, the command should be:

  `./itmcmd config -A mq`
- Enter the required parameter values for the default connection. See *IBM Monitoring Installation and Setup guide* for more information.
- Start the agent by entering this command:

  `./itmcmd agent start pc`

Step 4. Setting up the configuration database:
If you are installing the WebSphere MQ Configuration agent, you need to perform this step. For more information, see *IBM Tivoli OMEGAMON XE for Messaging: Installation Guide*.

Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging TEMA agents with InstallShield Wizard:
This section describes how to install or upgrade the IBM Tivoli OMEGAMON XE for Messaging TMA agents with InstallShield-based GUI installer.

Step 1. Installation:
Warning: DO NOT press Ctrl+C to stop the installation!

The installation tool updates an installation database while running. If values requested are not currently available, complete the process by skipping the entry or entering a dummy value, and noting the location. When the values or resources needed to change the dummy entries become available later (and before you try to

run the product), revisit the configuration process and fill in the missing values. **If you abort the installation by pressing Ctrl+C, you will have to reinstall from scratch (for example, using a new *install_dir* directory), or the integrity of the configuration database is no longer assured.**

To install the product with InstallShield Wizard, perform the following steps:

1. Mount the IBM Tivoli OMEGAMON XE for Messaging fix pack 01 CD-ROM at the location you have chosen on the host:

   ```
   mount device mount_point
   cd mount_point
   ```

   where:

   - *device* is the device driver for the CD-ROM.
   - *mount_point* is the directory where the device will be mounted.

   Note: The *IBM Tivoli OMEGAMON XE for Messaging CD* conforms to ISO 9660 standards. The mount command may require additional options based on the OS platform that you are running. IBM does not document basic operating systems commands that are the responsibility of your system administrator to oversee. Consult the main pages of your operating system documentation if necessary.
2. From the directory of the CD-ROM, where the platform-dependent product image is located (see Appendix B, "Product image location," on page 43), execute **setup<platform>.bin** by entering:

   ```
   ./setup<platform>.bin
   ```

   where <platform> is the platform name on which you are installing the product. For example, if you are installing on a Solaris machine, then the executable should be **setupSolaris.bin**.
3. Read the welcome text and click **Next** to continue.
4. Read the software license agreement and select **I accept the terms of the license agreement.** and click **Next**.

   Note: If you receive **unarchive failed** or **could not unzip** error messages, change to a root user ID and run the **/usr/sbin/slibclean** command. This will remove any unused modules from system memory and allow you to install the products.
5. You are prompted to choose the destination directory for the installation files. Select the target drive and directory for the IBM Tivoli OMEGAMON XE for Messaging software. The default drive is */opt/IBM/ITM*. Click **Next** to continue.
6. Choose the installation type that suits your need. Select **Custom**.
7. Click **Next** to continue. Select the features you want to install:

   Agents and Adapters

   - To install all the IBM Tivoli OMEGAMON XE for Messaging agents on this machine, select all the agents under **Agents and Adapters**.
   - To install particular agents on this machine, select only the check boxes for those agents.

     Note: To install WebSphere InterChange Server Monitoring, you will need to install WebSphere InterChange Server data sources as well as a WebSphere InterChange Server monitoring agent. However, the data sources must be installed on the host of each monitored WebSphere InterChange Server, and the monitoring agent should be installed, if possible, on the same machine as the TEMS. For more information

about the WebSphere InterChange Server monitoring agent and data sources, see *IBM Tivoli OMEGAMON XE for Messaging: WebSphere InterChange Server Monitoring User's Guide*.

Click **Next**. Read the summary information. If you want to go back and change your settings, click **Back**. When you are ready to copy the files with the settings displayed, click **Install**.

8. The InstallShield Wizard copies the files needed to complete the installation. During the copying process, if a dialog box pops up indicating that there exists a file newer than the file to be installed, choose **Yes to All** to replace it. Click **Finish**.

   Note: Do not attempt to start any of the monitoring agents at this point. Before you start a monitoring agent, you need to complete the configuration tasks.

9. Configure the agents' default connection to TEMS.

   The agents' default connection to TEMS might already have been set during IBM Tivoli Monitoring installation. Otherwise, you need to perform this task from **Manage Tivoli Enterprise Monitoring Services**. For more information, see *IBM Tivoli Monitoring Installation and Setup Guide*.

Step 2. Adding application support to the TEMS:
Before you can use a monitoring agent, the TEMS to which it reports must be added with application support; that is, initialized with application data. Application support adds product-provided situations, templates, and other sample data to the TEMS's Enterprise Information Base (EIB) tables.

To add application support to the TEMS, see "Adding application support to TEMS" on page 31.

Step 3. Setting up the configuration database:
If you are installing the WebSphere MQ Configuration agent, you need to perform this step. For more information, see *IBM Tivoli OMEGAMON XE for Messaging: Installation Guide*.

Performing a silent install on a UNIX and Linux:
Besides the command line and InstallShield Wizard, you can also install IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01 in a silent mode.

Step 1: Installing the IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01 with a response file:
Silent installation uses a response file to define the installation parameters. The silent_install_sample.txt sample response file is shipped with the product CD.

Before editing the response file, note the following syntax rules:

- Comment lines begin with a pound sign (#).
- Blank lines are ignored.
- Parameter lines are PARAMETER=value. Do not use a space before the parameter; you can use a space before or after an equal sign (=).
- Do not use any of the following characters in any parameter value:
  - Dollar sign ($)
  - Equal sign (=)
  - Pipe sign (|)

Use the following procedures to perform the silent installation:

1. Locate the silent_install_sample.txt file on the product installation CD. Copy this file to a temporary directory on your system.
2. Edit the silent_install_sample.txt file:
   - Set the following parameters as appropriate for your environment:

Table 4. User-defined parameter of the response file

Parameter	Definition
INSTALL_LOCATION	Specify the location where you intend to install the product. Default installation on UNIX is : */opt/IBM/ITM*
INSTALL_FOR_PLATFORM	The operating system for which to install the product. You can specify an architecture code. If you do not specify an architecture code, the operating system for the current computer is used.
TEMS_NAME=	If you are installing a Tivoli Enterprise Monitoring Server (TEMS), provide a name for the server. This serves as a label to identify the server. It should not be an IP address or hostname. On windows, the name is usually TEMS1.

   - Uncomment the **LICENCE_AGREEMENT** line.
   - Uncomment the product components and product supports that you intend to install on this machine.
   - Uncomment the product components that you intend for remote deployment.
   - Save and close the file.
3. Run the following command line to install the product:

   ```
   ./setup<platform>.bin -silent -V RESPONSEFILE_PATH=<response_file>
   ```

   where <*platform*> is the platform name on which you are installing the product. For example, if you are installing on a Solaris machine, then the executable should be **setupSolaris.bin**; *-silent* indicates the installation method as silent; *-V RESPONSEFILE_PATH* specifies the response file name and the absolute path of this file, for example, **RESPONSEFILE_PATH="/root/silent_install_sample.txt"**.
4. During the installation processing, if a dialog box pops up indicating there exists a file newer than the file to be installed, choose **Yes to All** to replace it.

Step 2. Configure the product's default connection to TEMS:
You can use *itmcmd config* command with the *-p* <response_file> parameter to configure the product components silently. The *silent_config_sample.txt* sample response file is shipped with the product CD. Perform the following steps to configure the product using the silent method:

1. Edit the response file for the product components that you want to configure.
2. Complete the parameters identified in the file. The file contains comments that define the available parameters and the values to specify.
3. Save the file and exit.
4. Run the following command to configure the product component's default connection to the TEMS:

   ```
   ./itmcmd config -A -p <response_file> pc
   ```

   where:

   - <*response_file*> is the name of the configuration response file. Use an absolute path to this file, for example: *./tmp/silent_config_sample.txt*

- *pc* is the code for the product components that you want to configure. See Appendix A, "Product codes," on page 41 for the list of product codes.

Step 3. Add application support to the TEMS:
If the TEMS to which the agents report is on the same machine as the agents and if you have installed the TEMS application support, adding the application support to the TEMS for silent installation is the same as that of the command line installation.

If the TEMS is installed on a different machine from the agents, install the application support to the TEMS from the machine that hosts the TEMS. See "Adding application support to the TEMS on UNIX and Linux" on page 32 for more information.

Set up configuration database:
Setting up configuration database for silent installation is the same as that of the command line installation.

Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging TEMA agents on OS/400

Of the IBM Tivoli OMEGAMON XE for Messaging components, only WebSphere MQ Monitoring and WebSphere MQ Configuration are currently supported on OS/400 platform. This chapter contains instructions for installing or upgrading these two agents.

Before you begin, verify that your site is in compliance with the agents' hardware and software prerequisites listed in OS/400 Prerequisites.

Note: Make sure that QMQMADM authority is given to the KMQ User Profile as the default setting.

If you do not have IBM Tivoli OMEGAMON XE for Messaging V6.0 installed on you computer, you need to perform the pre-installation tasks before you start installing this fix pack. For more information, see the "Pre-Installation Tasks" section of Chapter 6, "Installing the products on OS/400" in the *IBM Tivoli OMEGAMON XE for Messaging: Installation guide*.

Use one of the two procedures, whichever is more convenient for you or your site.

Installing from a PC CD-ROM:

1. Access an OS/400 command line.
2. Check that the system value QALWOBJRST is set to "*ALL".
   a. Enter this command:
      ```
      WRKSYSVAL QALWOBJRST
      ```
   b. Select "5" (Display), and verify that the value is set to "*ALL". If it is set to any other value(s), record those value(s) below:
      QALWOBJRST _____
3. Press "Enter" to continue.
4. If QALWOBJRST was set to "*ALL", continue with the next step below; otherwise, do the following:
   a. On the Work with System Values dialog, enter
      ```
      2
      ```
      to change the values.

b. On the Change System Value dialog, change the existing values to `*ALL`.
c. Press "Enter" to save your change.
d. Press "F3" to return.

5. At the OS/400 command line, create an AS/400® library for installation:
   ```
   CRTLIB KMQ_TMPLIB TEXT('MQ INSTALL LIBRARY')
   ```
6. Create two save file in the KMQ_TMPLIB library:
   ```
   CRTSAVF KMQ_TMPLIB/MQ600CMA TEXT('KMQ INSTALL PRODUCT')
   CRTSAVF KMQ_TMPLIB/MC600CMA TEXT('KMC INSTALL PRODUCT')
   ```
7. Insert the *IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01 CD* into the CD-ROM drive.
8. From a DOS prompt, start an FTP session:
   ```
   FTP machinename
   ```
   where *machinename* is the name of the target OS/400 machine.
9. When prompted, enter your OS/400 user ID and password.
10. Change the FTP type to binary:
    ```
    BINARY
    ```
11. Transfer the software for WebSphere MQ Monitoring and Configuration agents from the CD-ROM to the OS/400 machine:
    ```
    PUT E:\OS400\MQ600CMA KMQ_TMPLIB/MQ600CMA
    PUT E:\OS400\MC600CMA KMQ_TMPLIB/MC600CMA
    ```
    where *e* is your PC CD-ROM drive.
12. End your ftp session:
    ```
    QUIT
    ```
13. Install the software for WebSphere MQ Monitoring and Configuration agents (do one of the following):
    - If you are installing IBM Tivoli OMEGAMON XE for Messaging on a system that is English upper and lower case (language ID 2924), do one of the following:
      a. If you want to install WebSphere MQ Monitoring, enter the following command:
         ```
         RSTLICPGM LICPGM(0KMQ450) DEV(*SAVF) SAVF(KMQ_TMPLIB/MQ600CMA)
         ```
         and proceed to step 14 on page 21 below.
      b. If you want to install WebSphere MQ Configuration, enter the following command:
         ```
         RSTLICPGM LICPGM(0KMC450) DEV(*SAVF) SAVF(KMQ_TMPLIB/MC600CMA)
         ```
         and proceed to step 14 on page 21 below.
    - If you are installing on a non-language ID 2924 system, do one of the following:
      a. If you want to install WebSphere MQ Monitoring, check for the existence of the KMQLNG work library.
         1) If the library exists, clear it:
            ```
            CLRLIB KMQLNG
            ```
         2) If the library does not exist, create it:
            ```
            CRTLIB KMQLNG
            ```
         3) Enter the following commands:

```
RSTLICPGM LICPGM(0KMQ450) DEV(*SAVF) RSTOBJ(*PGM) LNG(2924)
   - SAVF(KMQ_TMPLIB/MQ600CMA)

RSTLICPGM LICPGM(0KMQ450) DEV(*SAVF) RSTOBJ(*LNG) LNG(2924)
   - SAVF(KMQ_TMPLIB/MQ600CMA) LNGLIB(QKMQLNG)
```

This creates or recreates a library named KMQLIB containing all the file transfer utilities components and definitions required to run the software for WebSphere MQ Monitoring.

b. If you want to install WebSphere MQ Configuration, check for the existence of the KMCLNG work libraries.

   1) If the library exists, clear it:

      ```
      CLRLIB KMCLNG
      ```

   2) If the library does not exist, create it:

      ```
      CRTLIB KMCLNG
      ```

   3) Enter the following commands:

      ```
      RSTLICPGM LICPGM(0KMC450) DEV(*SAVF) RSTOBJ(*PGM) LNG(2924)
         - SAVF(KMQ_TMPLIB/MC600CMA)

      RSTLICPGM LICPGM(0KMC450) DEV(*SAVF) RSTOBJ(*LNG) LNG(2924)
         - SAVF(KMQ_TMPLIB/MC600CMA) LNGLIB(QKMCLNG)
      ```

      This creates or recreates a library named KMCLIB containing all the file transfer utilities components and definitions required to run the software for WebSphere MQ Configuration.

14. If you intend to install another agent, leave the QALWOBJRST value set to "*ALL" until you are finished; otherwise, change it back to the value(s) you recorded earlier.
15. If you will install the agent on another AS/400 machine, use ftp or another file transfer program to copy the save file to it.
16. Delete the installation library, which is no longer needed:

    ```
    DLTLIB KMQ_TMPLIB
    ```

    Installation of the software for WebSphere MQ Monitoring and Configuration Agents is complete.
17. Proceed to configure WebSphere MQ Configuration or configure WebSphere MQ Monitoring.

Installing from an AS/400 CD-ROM (Command Line):

1. Access an OS/400 command line.
2. Make sure that the system value QALWOBJRST is set to "*ALL."
3. Enter this command:

   ```
   WRKSYSVAL QALWOBJRST
   ```
4. Select "5" (Display), and verify that the value is set to "*ALL". If it is set to any other value(s), record those value(s) below:

   QALWOBJRST _____
5. Press **Enter** to continue.
6. If QALWOBJRST was set to "*ALL", continue with the next step; otherwise, do the following:

   a. On the Work with System Values dialog, enter

      ```
      2
      ```

      to change the values.

   b. On the Change System Value dialog, change the existing values to

      ```
      *ALL.
      ```

c. Press “Enter” to save your change.
d. Press “F3” to return.

7. Create an AS/400 library for installation:
   ```
   CRTLIB KMQ_TMPLIB TEXT('MQ INSTALL LIBRARY')
   ```
8. Create a save file in the KMQ_TMPLIB library:
   ```
   CRTSAVF KMQ_TMPLIB/MQ600CMA TEXT('KMQ INSTALL PRODUCT')
   CRTSAVF KMQ_TMPLIB/MC600CMA TEXT('KMC INSTALL PRODUCT')
   ```
9. Create a work folder.
   a. Enter this command:
      ```
      WRKFLR
      ```
   b. Select “1” (Create Folder), then specify
      ```
      MQFLR
      ```
      for the folder name.
10. Insert the *IBM Tivoli OMEGAMON XE for Messaging Version 6.0 fix pack 01 CD* into the CD-ROM drive and enter:
    ```
    WRKLNK QOPT
    ```
    The Work with Object Links screen displays the qopt object link.
11. Select “5” (Next Level) at the qopt object link to select the next object link, the volume ID (*volid*) of the CD-ROM.
    Record this value for use during installation:
    VOL ID _____
12. Continue to select “5” for each link level until the following path is displayed:
    ```
    /QOPT/volid/OS400
    ```
    where *volid* is the volume ID.
13. Look for file MC600CMA.SAVF and MQ600CMA.SAVF.
14. Copy this .SAV file to QDLS:
    ```
    CPY OBJ('/QOPT/volid/OS400/MQ600CMA.SAVF') TODIR('/QDLS/MQFLR')
    CPY OBJ('/QOPT/volid/OS400/MC600CMA.SAVF') TODIR('/QDLS/MQFLR')
    ```
    where *volid* is the volume ID of the .
15. From an OS/400 command line, start an ftp session:
    ```
    FTP machinename
    ```
    where *machinename* is the name of the target OS/400 machine.
16. Enter your user ID and password.
17. Change the file type to binary:
    ```
    BINARY
    ```
18. Enter
    ```
    NAMEFMT 1
    ```
19. On the command line, enter
    ```
    PUT /QDLS/MQFLR/MQ600CMA.SAVF /QSYS.LIB/KMQ_TMPLIB.LIB/MQ600CMA
    PUT /QDLS/MQFLR/MC600CMA.SAVF /QSYS.LIB/KMQ_TMPLIB.LIB/MC600CMA
    ```
20. End your ftp session:
    ```
    QUIT
    ```
21. Install the software for WebSphere MQ Monitoring and WebSphere MQ Configuration (do one of the following):
    - If you are installing IBM Tivoli OMEGAMON XE for Messaging on a system that is English upper and lower case (language ID 2924), do one of the following:

a. If you want to install WebSphere MQ Monitoring, enter the following command:

```
RSTLICPGM LICPGM(0KMQ450) DEV(*SAVF) SAVF(KMQ_TMPLIB/MQ600CMA)
```

and proceed to step 14 on page 21 below.

b. If you want to install WebSphere MQ Configuration, enter the following command:

```
RSTLICPGM LICPGM(0KMC450) DEV(*SAVF) SAVF(KMQ_TMPLIB/MC600CMA)
```

and proceed to step 14 on page 21 below.

- If you are installing on a non-language ID 2924 system, do one of the following:

a. If you want to install WebSphere MQ Monitoring, check for the existence of the KMQLNG work library.

1) If the library exists, clear it:

```
CLRLIB KMQLNG
```

2) If the library does not exist, create it:

```
CRTLIB KMQLNG
```

3) Enter the following commands:

```
RSTLICPGM LICPGM(0KMQ450) DEV(*SAVF) RSTOBJ(*PGM)
  - SAVF(KMQ_TMPLIB/MQ600CMA)

RSTLICPGM LICPGM(0KMQ450) DEV(*SAVF) RSTOBJ(*LNG) LNG(2924)
  - SAVF(KMQ_TMPLIB/MQ600CMA) LNGLIB(QKMQLNG)
```

This creates or recreates a library named KMQLIB containing all the file transfer utilities components and definitions required to run the software for WebSphere MQ Monitoring.

b. If you want to install WebSphere MQ Configuration, check for the existence of the KMCLNG work library.

1) If the library exists, clear it:

```
CLRLIB KMCLNG
```

2) If the library does not exist, create it:

```
CRTLIB KMCLNG
```

3) Enter the following commands:

```
RSTLICPGM LICPGM(0KMC450) DEV(*SAVF) RSTOBJ(*PGM)
   - SAVF(KMQ_TMPLIB/MC600CMA)

RSTLICPGM LICPGM(0KMC450) DEV(*SAVF) RSTOBJ(*LNG) LNG(2924)
   - SAVF(KMQ_TMPLIB/MC600CMA) LNGLIB(QKMQLNG)
```

This creates or recreates a library named KMCLIB containing all the file transfer utilities components and definitions required to run the software for WebSphere MQ Configuration.

22. If you intend to install another agent, leave the QALWOBJRST value set to "*ALL" until you are finished; otherwise, change it back to the values you recorded earlier.
23. Delete the installation objects that are no longer needed:

a. Enter this command:

```
DLTLIB KMQ_TMPLIB
```

b. Delete MC600CMA.SAVF and MQ600CMA.SAVF from your folder:

- Enter this command:

```
WRKDOC FLR(MQFLR)
```

- Select **4** for MC600CMA.SAVF and MQ600CMA.SAVF.
- Press **Enter** to delete.

c. Press **F3** to return to the command line.
d. Delete the installation folder:
   1) Enter this command:
      ```
      WRKFLR
      ```
   2) Select **4** for MQFLR.
   3) Press **Enter** to delete.
e. Press **F3** to return to the command line.

Installation of the software for WebSphere MQ Monitoring and Configuration agents is complete.

24. Proceed to configure WebSphere MQ Configuration or configure WebSphere MQ Monitoring.

Additional step for WebSphere MQ Monitoring installation: If you are installing the WebSphere MQ Monitoring agent, an additional step is required after normal installation. From an OS/400 command line, enter:

```
QSH
```

In QSHELL environment, run:

```
mkdir /home/kmq
```

Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging support on machines with TEPS

Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging support on Windows machine(s) with TEPS

To install or upgrade IBM Tivoli OMEGAMON XE for Messaging support to TEPS on Windows machine, complete the following tasks:

1. Log onto Windows machine with TEPS under a user ID with Administrator authority.
2. Stop all ITM services that are running.

   From the Manage Tivoli Enterprise Monitoring Services screen, select all the ITM processes that are running, right-click them and click **Stop**. Wait for all processes to stop, and close Manage Tivoli Enterprise Monitoring Services.
3. Insert the IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01 CD-ROM into your CD-ROM drive. The installation begins automatically.

   If InstallShield Wizard does not start, go to CD directory WINDOWS and double-click **setupwin32.exe**. If **setupwin32.exe** initialization fails, you do not have enough space to decompress the setup files.

   Note: If you are running Windows 2003 or Windows XP and have security set to check the software publisher of applications, you might receive an error stating that the setupwin32.exe file is from an unknown publisher. Click **Run** to disregard this error message.
4. Read the welcome text and click **Next** to continue.
5. Read the software license agreement, select **I accept the terms of the license agreement**, and click **Next**.
6. You are prompted to choose the destination directory for the installation files. If you want to choose a location other than the one shown (C:\IBM\ITM), click **Browse**, and select that folder.
7. Click **Next** to continue.
8. Choose the installation type that suits your need. Select **Custom**.

9. Click **Next** to continue. Check the **Tivoli Enterprise Portal Server Application Support** checkbox, and click **Next**. Read the summary information and click **Install**.
10. After the installation completes, you can see the following configuration tasks:
    - **Configure IBM Tivoli Enterprise Monitoring Server**
    - **Configure Tivoli Enterprise Portal Server**
    - **Add Application Support to IBM Tivoli Enterprise Monitoring Server**
    - **Configure Agent default connections to Tivoli Enterprise Monitoring Server**
    - **Launch Manager ITM Services for additional configuration options**

    Click **Next** to continue.
11. Configure TEPS:
    a. In the **TEP Server Configuration** dialog box that pops up:
        1) Select **Connection must pass through firewall**, if the agent must cross a firewall to access the TEP server.
        2) Identify the type of protocol that the agent uses to communicate with the TEP server. You have four choices: **IP.UDP**, **IP.PIPE**, **IP.SPIPE**, and **SNA**. You can specify more than one methods. If Protocol 1 fails, Protocol 2 will be used as a backup method.

    b. Click **OK**, and specify the fields as explained in Table 2 on page 10, and click **OK**.
12. Configure defaults for connecting to a TEMS:
    a. In the **Configuration Defaults for Connecting to a TEMS** dialog box that pops up:
        1) If the agent must cross a firewall to access the TEMS, select **Connection must pass through firewall**.
        2) Identify the type of protocol that the agent uses to communicate with the TEMS. You have four choices: IP.UDP, IP.PIPE, IP.SPIPE, and SNA. You can specify more than one methods. If Protocol 1 fails, Protocol 2 will be used as a backup method. Click **OK**.

    b. Complete the fields as explained in Table 2 on page 10, and click **OK**.
13. In the **Add application support to the TEMS** dialog box that pops up, select the location of TEMS. Click **OK** to continue.
14. In the dialog box that pops up, enter the name of the TEMS in the **TEMS Name** field and specify the protocol used to connect to the TEMS. Click **OK**.
15. In the **Non-Resident TEMS Connection** dialog box, complete the fields as explained in Table 2 on page 10, and click **OK**.
16. The next window prompts you to identify the agents whose applications supports are to be applied. Select the application supports to be added to the TEMS, and click **OK**.
17. **Application support addition complete** dialog box pops up to display the results of this operation. Click **Next** to continue.
18. Click **Finish** to exit the wizard. The installation completes.

Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging support on Linux and UNIX machines with TEPS

To install or upgrade the IBM Tivoli OMEGAMON XE for Messaging support to TEPS on Linux and UNIX machine, perform the following steps:

1. Mount the IBM Tivoli OMEGAMON XE for Messaging fix pack 01 CD-ROM at the location you have chosen on the host:

mount *device mount_point*

cd *mount_point*

where:

- *device* is the device driver for the CD-ROM.
- *mount_point* is the directory where the device will be mounted.

Note: The *IBM Tivoli OMEGAMON XE for Messaging CD* conforms to ISO 9660 standards. The mount command may require additional options based on the OS platform you are running. IBM does not document basic operating systems commands that are the responsibility of your system administrator to oversee. Consult the main pages of your operating system documentation if necessary.

2. From the directory of the CD-ROM, where the platform-dependent product image is located (see Appendix B, "Product image location," on page 43), execute **setup<platform>.bin** by entering:

   ./setup<platform>.bin

   where <platform> is the platform name on which you are installing the product. For example, if you are installing on a Solaris machine, then the executable should be **setupSolaris.bin**.
3. Read the welcome text and click **Next** to continue.
4. Read the software license agreement and select **I accept the terms of the license agreement.** and click **Next**.

   Note: If you receive **unarchive failed** or **could not unzip** error messages, change to a root user ID and run the **/usr/sbin/slibclean** command. This will remove any unused modules from system memory and allow you to install the products.
5. You are prompted to choose the destination directory for the installation files. Select the target drive and directory for the IBM Tivoli OMEGAMON XE for Messaging software. The default drive is */opt/IBM/ITM*. Click **Next** to continue.
6. Choose the installation type that suits your need. Select **Custom**.
7. Click **Next** to continue. Clear the **Agents and Adapters** checkbox. Make sure that **Tivoli Enterprise Portal Server Application Support** is selected. Click **Next**. Read the summary information. If you want to go back and change your settings, click **Back**. When you are ready to copy the files with the settings displayed, click **Install**.
8. The InstallShield Wizard copies the files needed to complete the installation. Click **Finish**. The application support is installed on the TEPS machine.

Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging support on machines with TEP Desktop

Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging support on Windows machines with TEP Desktop

To install or upgrade IBM Tivoli OMEGAMON XE for Messaging support to the TEP Desktop on Windows machine, complete the following tasks:

1. Log onto the Windows machine with TEP Desktop under a user ID with Administrator authority.
2. Stop all ITM services that are running.

From the Manage Tivoli Enterprise Monitoring Services screen, select all the ITM processes that are running, right-click them and click **Stop**. Wait for all processes to stop, and close Manage Tivoli Enterprise Monitoring Services.

3. Insert the IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01 CD-ROM into your CD-ROM drive. The installation begins automatically.

   If InstallShield Wizard does not start, go to CD directory WINDOWS and double-click **setupwin32.exe**. If **setupwin32.exe** initialization fails, you do not have enough space to decompress the setup files.

   Note: If you are running Windows 2003 or Windows XP and have security set to check the software publisher of applications, you might receive an error stating that the setupwin32.exe file is from an unknown publisher. Click **Run** to disregard this error message.
4. Read the welcome text and click **Next** to continue.
5. Read the software license agreement, select **I accept the terms of the license agreement**, and click **Next**.
6. You are prompted to choose the destination directory for the installation files. If you want to choose a location other than the one shown (C:\IBM\ITM), click **Browse**, and select that folder.
7. Click **Next** to continue.
8. Choose the installation type that suits your need. Select **Custom**.
9. Click **Next** to continue. Clear the **Agents and Adapters** checkbox, and make sure that the **Tivoli Enterprise Portal Desktop Client Application Support** checkbox is selected, and then click **Next**. Read the summary information and click **Install**.
10. After the installation completes, you can see the following configuration tasks:
    - **Configure IBM Tivoli Enterprise Monitoring Server**
    - **Configure Tivoli Enterprise Portal Server**
    - **Add Application Support to IBM Tivoli Enterprise Monitoring Server**
    - **Configure Agent default connections to Tivoli Enterprise Monitoring Server**
    - **Launch Manager ITM Services for additional configuration options**

    Click **Next** to continue.
11. Configure defaults for connecting to a TEMS:
    a. In the **Configuration Defaults for Connecting to a TEMS** dialog box that pops up:
       1) If the agent must cross a firewall to access the TEMS, select **Connection must pass through firewall**.
       2) Identify the type of protocol that the agent uses to communicate with the TEMS. You have four choices: IP.UDP, IP.PIPE, IP.SPIPE, and SNA. You can specify more than one methods. If Protocol 1 fails, Protocol 2 will be used as a backup method. Click **OK**.

    b. Complete the fields as explained in Table 2 on page 10, and click **OK**.
12. In the **Add application support to the TEMS** dialog box that pops up, select the location of the TEMS. Click **OK** to continue.
13. Click **Finish** to exit the wizard. The installation completes.

Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging support on Linux and UNIX machines with TEP Desktop

To install or upgrade the IBM Tivoli OMEGAMON XE for Messaging support to TEP Desktop on Linux and UNIX machine, perform the following steps:

1. Mount the IBM Tivoli OMEGAMON XE for Messaging fix pack 01 CD-ROM at the location you have chosen on the host:

   `mount device mount_point`

   `cd mount_point`

   where:

   - *device* is the device driver for the CD-ROM.
   - *mount_point* is the directory where the device will be mounted.

   Note: The *IBM Tivoli OMEGAMON XE for Messaging CD* conforms to ISO 9660 standards. The mount command may require additional options based on the OS platform you are running. IBM does not document basic operating systems commands that are the responsibility of your system administrator to oversee. Consult the main pages of your operating system documentation if necessary.
2. From the directory of the CD-ROM, where the platform-dependent product image is located (see Appendix B, "Product image location," on page 43), execute **setup<platform>.bin** by entering:

   `./setup<platform>.bin`

   where <platform> is the platform name on which you are installing the product. For example, if you are installing on a Solaris machine, then the executable should be **setupSolaris.bin**.
3. Read the welcome text and click **Next** to continue.
4. Read the software license agreement and select **I accept the terms of the license agreement.** and click **Next**.

   Note: If you receive **unarchive failed** or **could not unzip** error messages, change to a root user ID and run the **/usr/sbin/slibclean** command. This will remove any unused modules from system memory and allow you to install the products.
5. You are prompted to choose the destination directory for the installation files. Select the target drive and directory for the IBM Tivoli OMEGAMON XE for Messaging software. The default drive is */opt/IBM/ITM*. Click **Next** to continue.
6. Choose the installation type that suits your need. Select **Custom**.
7. Click **Next** to continue. Clear the **Agents and Adapters** checkbox. Make sure that **Tivoli Enterprise Portal Desktop Client Application Support** is selected. Click **Next**. Read the summary information. If you want to go back and change your settings, click **Back**. When you are ready to copy the files with the settings displayed, click **Install**.
8. The InstallShield Wizard copies the files needed to complete the installation. Click **Finish**. The application support is installed on the TEP Desktop machine.

Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging support on machines with Hub and remote TEMS

Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging support on Windows machine with Hub and remote TEMS

To install or upgrade IBM Tivoli OMEGAMON XE for Messaging support to Hub or remote TEMS on Windows machine, complete the following tasks:

1. Log onto Windows machine with Hub or remote TEMS under a user ID with Administrator authority.
2. Stop all ITM services that are running.

From the Manage Tivoli Enterprise Monitoring Services screen, select all the ITM processes that are running, right-click them and click **Stop**. Wait for all processes to stop, and close Manage Tivoli Enterprise Monitoring Services.

3. Insert the IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01 CD-ROM into your CD-ROM drive. The installation begins automatically.

   If InstallShield Wizard does not start, go to CD directory WINDOWS and double-click **setupwin32.exe**. If **setupwin32.exe** initialization fails, you do not have enough space to decompress the setup files.

   Note: If you are running Windows 2003 or Windows XP and have security set to check the software publisher of applications, you might receive an error stating that the setupwin32.exe file is from an unknown publisher. Click **Run** to disregard this error message.
4. Read the welcome text and click **Next** to continue.
5. Read the software license agreement, select **I accept the terms of the license agreement**, and click **Next**.
6. You are prompted to choose the destination directory for the installation files. If you want to choose a location other than the one shown (C:\IBM\ITM), click **Browse**, and select that folder.
7. Click **Next** to continue.
8. Choose the installation type that suits your need. Select **Custom**.
9. Click **Next** to continue. Clear the **Agents and Adapters** checkbox and make sure that the **Tivoli Enterprise Monitoring Server Application Support** checkbox is selected. Click **Next**.
10. Select the **Agent Remote Deployment Support (<*platform*>)**, where <platform> is the platform name on which you are installing the product, and click **Next**.
11. Read the summary information and click **Install**.
12. After the installation completes, you can see the following configuration tasks:
    - **Configure IBM Tivoli Enterprise Monitoring Server**
    - **Configure Tivoli Enterprise Portal Server**
    - **Add Application Support to IBM Tivoli Enterprise Monitoring Server**
    - **Configure Agent default connections to Tivoli Enterprise Monitoring Server**
    - **Launch Manager ITM Services for additional configuration options**

    Click **Next** to continue.
13. Configure the TEMS so that it can communicate with TEMA:
    a. The **Tivoli Enterprise Monitoring Server Configuration** dialog box pops up.
       1) Specify the TEMS Type, Hub or remote.
       2) Be sure that you specify the correct TEMS name; this name must be used across your ITM network. Usually this takes the form of HUB followed by an underscore and the machine name.
       3) Specify up to three communication protocols for communication with this TEMS and, if you want, a hot-standby TEMS: IP.UDP, IP.PIPE, IP.SPIPE, or SNA. You can specify three methods for communication; this enables you to set up backup communication methods so that, if protocol 1 fails, protocol 2 is used and then protocol 3.

          TMS transfers control to a hot-standby hub TEMS if the primary TEMS becomes unavailable.

b. Click **OK** and specify the communication parameters necessary to communicate with TEMS using the protocol you previously selected as explained in Table 2 on page 10.

14. Configure defaults for connecting to a TEMS:
    a. In the **Configuration Defaults for Connecting to a TEMS** dialog box:
        1) If the agent must cross a firewall to access the TEMS, select **Connection must pass through firewall**.
        2) Identify the type of protocol that the agent uses to communicate with the TEMS. You have four choices: IP.UDP, IP.PIPE, IP.SPIPE, and SNA. You can specify more than one methods. If Protocol 1 fails, Protocol 2 will be used as a backup method. Click **OK**.
    b. Complete the fields as explained in Table 2 on page 10, and click **OK**.
15. In the **Add application support to the TEMS** dialog box that pops up, select the location of TEMS. Click **OK** to continue.
16. The next window prompts you to identify the agents whose application supports are to be applied. Select the application supports to be added to the TEMS, and click **OK**.
17. **Application support addition complete** dialog box pops up to display the results of this operation. Click **Next** to continue.
18. Click **Finish** to exit the wizard. The installation completes.

Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging support on Linux and UNIX machines with Hub and remote TEMS

To install or upgrade the IBM Tivoli OMEGAMON XE for Messaging support to Hub and remote TEMS on Linux and UNIX machine, perform the following steps:

1. Mount the IBM Tivoli OMEGAMON XE for Messaging fix pack 01 CD-ROM at the location you have chosen on the host:

   ```
   mount device mount_point
   cd mount_point
   ```

   where:

   - *device* is the device driver for the CD-ROM.
   - *mount_point* is the directory where the device will be mounted.

   Note: The *IBM Tivoli OMEGAMON XE for Messaging CD* conforms to ISO 9660 standards. The mount command might require additional options based on the OS platform you are running. IBM does not document basic operating systems commands that are the responsibility of your system administrator to oversee. Consult the main pages of your operating system documentation if necessary.
2. From the directory of the CD-ROM, where the platform-dependent product image is located (see Appendix B, “Product image location,” on page 43), execute **setup<platform>.bin** by entering:

   ```
   ./setup<platform>.bin
   ```

   where <platform> is the platform name on which you are installing the product. For example, if you are installing on a Solaris machine, then the executable should be **setupSolaris.bin**.
3. Read the welcome text and click **Next** to continue.
4. Read the software license agreement and select **I accept the terms of the license agreement.** and click **Next**.

Note: If you receive **unarchive failed** or **could not unzip** error messages, change to a root user ID and run the **/usr/sbin/slibclean** command. This will remove any unused modules from system memory and allow you to install the products.

5. You are prompted to choose the destination directory for the installation files. Select the target drive and directory for the IBM Tivoli OMEGAMON XE for Messaging software. The default drive is */opt/IBM/ITM*. Click **Next** to continue.
6. Choose the installation type that suits your need. Select **Custom**.
7. Click **Next** to continue. Clear the **Agents and Adapters** checkbox. Make sure that **Tivoli Enterprise Monitoring Server Application Support** is selected. Click **Next**.
8. Select the **Agent Remote Deployment Support (<*platform*>)**, where <platform> is the platform name on which you are installing the product, and click **Next**.
9. Read the summary information. If you want to go back and change your settings, click **Back**. When you are ready to copy the files with the settings displayed, click **Install**.
10. The InstallShield Wizard copies the files needed to complete the installation. Click **Finish**. The application support is installed on the TEMS machine.

Adding application support to TEMS

After you installed the IBM Tivoli OMEGAMON XE for Messaging, you need to install application support on the machine that hosts the TEMS. The operating system of the machine that hosts TEMS can be Windows, Linux, UNIX, and z/OS.

Note: If the TEMS is installed on Windows or Linux, it must be added with application support locally. If the TEMS is installed on z/OS, add application support to the TEMS from a remote machine.

Adding application support to the TEMS on Windows

If the operating system of the machine that hosts the TEMS is Windows, perform the following steps to add the application support:

1. Log onto the machine where the TEMS is installed.
2. Open **Manage Tivoli Enterprise Monitoring Services** panel by clicking **Start->All Programs->IBM Tivoli Monitoring->Manage Tivoli Monitoring Services**.
3. In the **Manage Tivoli Enterprise Monitoring Services** panel, right-click **Tivoli Enterprise Monitoring Server** and select **Advanced->Add TEMS application support** from the pop-up menu.
4. When you are prompted to select the location of the TEMS, select **On this computer** and click **OK**.

   Note: Data for WebSphere MQ Configuration must be added locally.

   The Manage Tivoli Enterprise Monitoring Services program checks to see whether the TEMS on the computer is started. If not, a message tells you that the TEMS will be started automatically. Click **OK**.
5. On the **Select the application support to add to the TEMS** dialog, a list of agents and supports appears. Click **Select All**, and then click **OK**.

   Note: If you want to use the WebSphere MQ Configuration agent, the TEMS must be added with data for **Configuration Management Support**,

which is listed in the **Select the application support to add to the TEMS dialog** as **Generic Configuration**. The application support file name is *kcf.sql*.

6. When adding application support is complete, the information about application support status and location will be displayed. Click **Save As** to save the message in a text file or click **Close** to close the message box.
7. Click **Yes** when you are prompted to recycle the Tivoli Enterprise Monitoring Server.

Note: Do **not** attempt to start any of the monitoring agents at this point. Before you start a monitoring agent, you need to complete the configuration tasks in Chapter 9, " Configuring the Products on Windows" in the *IBM Tivoli OMEGAMON XE for Messaging: Installation Guide*.

Adding application support to the TEMS on UNIX and Linux

If the operating system of the machine that hosts the TEMS is Linux or UNIX, you have two options to add the application support:

- To add application support to TEMS with command line, perform the following steps:
  1. Log on to the machine where the TEMS is installed.
  2. Start the TEMS by entering this command from the *install_dir/bin* directory:

     ```
     ./itmcmd server start tems_name
     ```

     Where *tems_name* is the name of the TEMS (for example, HUB_itmdev17).
  3. To add the TEMS with the application support data you installed, execute the *itmcmd support* command:

     ```
     ./itmcmd support -t tems_name pc pc pc pc pc ...
     ```

     Where *pc* is a two-character product code. See Appendix A, “Product codes,” on page 41.

     Note: If you want to use the WebSphere MQ Monitoring agent as well as the WebSphere MQ Configuration agent, you need to specify product codes **cf**, **mc**, and **mq**.
  4. Stop the TEMS by entering this command:

     ```
     ./itmcmd server stop tems_name
     ```
  5. Restart the TEMS by entering this command:

     ```
     ./itmcmd server start tems_name
     ```

     For more information about the *itmcmd server* and *itmcmd support* commands and other TEMS-related commands on Linux and UNIX, see *IBM Tivoli Monitoring Installation and Setup Guide*.

     Note: Do **not** attempt to start any of the monitoring agents at this point. Before you start a monitoring agent, you need to complete the configuration tasks in Chapter 10, "Configuring the Products on UNIX/Linux" in the *IBM Tivoli OMEGAMON XE for Messaging: Installation Guide*.
- To add application support to TEMS with InstallShield Wizard (GUI), perform the following steps:
  1. Log on to the machine where the TEMS is installed.
  2. Change to the */opt/IBM/ITM/bin* directory or the directory where you installed the IBM Tivoli Monitoring. Run the following command to launch the **Manage Tivoli Enterprise Monitoring Services:**

```
./itmcmd manage
```

3. In the **Manage Tivoli Enterprise Monitoring Services**, right-click **Tivoli Enterprise Monitoring Server** and select **Install Product Support->Advanced... (Select support to install)**.
4. Select the products whose application support you want to add to the TEMS. Click **OK**.

   The Tivoli Enterprise Monitoring Server is started, if it is not already running. You can see the following messages:

   ```
   Copying CAT and ATTR files.
   Starting TEMS, plese wait...
   Executing Tivoli Enterprise Monitoring Server startup script.
   TEMS started.
   Installing support for <agent>.
   Installation of product support complete.
   Stoping TEMS.
   ```

   Note: Do **not** attempt to start any of the monitoring agents at this point. Before you start a monitoring agent, you need to complete the configuration tasks in Chapter 10, "Configuring the Products on UNIX/Linux" in the *IBM Tivoli OMEGAMON XE for Messaging: Installation Guide*.

Adding application support to the TEMS on z/OS

If the operating system of the machine that hosts the TEMS is z/OS, perform the following steps to add the application support:

1. Log on to the Windows machine where the Tivoli Enterprise Portal Server (TEPS) is installed.
2. If you have not already done so, install the TEPS application support from the *IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01 CD*.
3. Open **Manage Tivoli Enterprise Monitoring Services** panel by selecting **Start->All Programs->IBM Tivoli Monitoring->Manage Tivoli Monitoring Services**.
4. Examine the entry for TEPS in the Status Column of the **Manage Tivoli Enterprise Monitoring Services** window. If the TEPS is stopped, start it.
   a. Right-click **Tivoli Enterprise Portal Server** in the list of services.
   b. Select **Start** from the pop-up menu.
   c. Wait until the entry for TEPS in the Status Column shows **Started**.
5. Right-click **Tivoli Enterprise Portal Server** and select **Advanced->Utilities->FTP Catalog and Attribute files**.
6. Select the products for which you want to transfer data files to the TEMS on z/OS, and click **OK**.
7. On the **FTP TEMS data to z/OS** dialog box, enter the host name or address, user ID, password, and data set name (DSN) for the TEMS, and click **OK**. The attribute and catalog data files are transferred to the TEMS on z/OS.
8. Right-click **Tivoli Enterprise Portal Server** and select **Advanced->Add TEMS application support** from the pop-up menu.
9. When you are prompted for **TEMS Location**, select **On a different computer** and click **OK**.
10. If you have not configured and started the TEMS on z/OS, you need to start and configure the TEMS now. For more information, see *Configuring Tivoli*

Enterprise Monitoring Server on z/OS, which can be found in the Tivoli software library at http://www.ibm.com/software/tivoli/library/.

11. When you are prompted to ensure that the TEMS is configured and running, click **OK**.
12. On the first Non-Resident TEMS Connection dialog, provide the TEMS Node ID, which can be found as the value of the **TEMS_NODEID** variable in this location:

    ```
    &RHILEV..&SYS..RKANPAR(KDSENV)
    ```

13. On the second Non-Resident TEMS Connection dialog, enter the TCP/IP host name and port number of the TEMS to be added with application data.
14. A list of agents appears. Click **Select All**, then click **OK**.

    Note: If you want to use the WebSphere MQ configuration agent as well as the monitoring agent, the TEMS must be added with data for **Configuration Management Support** as well as for **WebSphere MQ Monitoring**.
15. When the adding application support is complete (this might take several minutes), a message gives you the information about adding application support status and application support data location. If desired, click **Save As** to save the message in a text file. Click **Close** to close the message box.

    Note: Do **not** attempt to start any of the monitoring agents at this point. Before you start a monitoring agent, you need to complete the configuration tasks in Chapter 10, "Configuring the Products on UNIX/Linux" in the *IBM Tivoli OMEGAMON XE for Messaging: Installation Guide*.

Installing the Language Packs

By default, IBM Tivoli OMEGAMON XE for Messaging is enabled for the English language. If you want to use it in another supported language, you must install the translated language pack on the machines where the TEP and TEPS of IBM Tivoli Monitoring are installed. The language packs are available on the language support image. You can find the language pack image under *LanguagePack* directory in the following product installation CD:

- The Windows product installation CD, which includes the language pack image for Windows.
- The Linux product installation CD, which includes the language pack image for Linux.
- The z/OS product installation CD, which includes the language pack images for Windows and Linux.

To install a language pack, first make sure you have already installed the product in English, then perform the follow steps:

1. In the directory where you extracted the language pack image, launch the installation program as follows:

   On Windows, double-click:

   ```
   setupwin32.exe
   ```

   On Linux, run the following command:

   ```
   ./setupLinux.bin
   ```

If you want to perform a console installation on Linux (instead of a GUI installation), add the **-console** parameter to the above command.

2. Click **Next** on the Welcome window
3. Select **I accept the terms in the license agreement** and click **Next**.
4. Type the directory where you installed the English version IBM Tivoli OMEGAMON XE for Messaging V6.0.0.1 in the Directory Name field. This directory must match the installation where you installed the English version IBM Tivoli OMEGAMON XE for Messaging V6.0.0.1. Otherwise, the installation of the language pack will fail. Click **Next**.
5. Review the preinstallation summary.
6. Click **Next** to start the installation of the language pack.
7. When installation finished, review the installation summary information.
8. Click **Finish**.

Note: ITM will disable the language pack after applying ITM FP5 or even after reconfiguring any of its components. This affects the language pack of IBM Tivoli OMEGAMON XE for Messaging Version 6.0 fix pack 01. After you applied the IBM Tivoli OMEGAMON XE for Messaging Version 6.0 fix pack 01, you will need to uninstall the language pack manually from the installation path and then reinstall the language pack. For more information, see the *IBM Tivoli Monitoring Version 6.1: Fix Pack 005 Readme and Documentation Addendum*.

Migration notes

1. Premigration task:

   This release supports IBM Tivoli OMEGAMON XE for WebSphere Business Integration V1.0.0 and V1.1.0 upgrade. However, you need to check platform support in Appendix C, “Product Platform Support,” on page 45 to make sure that the platform for product upgrade supports IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01.

2. Migration tasks:

   See Chapter 3, "Upgrading from a Previous Installation" of the *IBM Tivoli OMEGAMON XE for Messaging: Installation Guide* for more information about the migration tasks.

3. Post migration tasks:

   - After migration of IBM Tivoli OMEGAMON XE for WebSphere Business Integration V1.0.0 or V1.1.0 to IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01, you need to perform **Recycle** for the TEPS and the TEMS.
   - If a previous version of WebSphere MQ Configuration is still in use, you may have problem with viewing queue managers in the **Defined View**. If that happens, recycle the WebSphere MQ Configuration agent and perform **Update Defined From Actual** for the queue managers.

   For both distributed and z/OS systems, if you have backed up the Configuration Database and installed the WebSphere MQ Configuration V6.0 agent, you need to restore the Configuration Database to make the migrated data work. See the **Restoring the Configuration Database** section of the *IBM Tivoli OMEGAMON XE for Messaging: WebSphere MQ Configuration User's Guide* book for instructions.

   For more information, see Chapter 8, "Post-Migration Tasks" of the *IBM Tivoli OMEGAMON XE for Messaging: Installation Guide* book.

Configuration notes

- On UNIX or Linux platform, if you changed the advanced settings of the TEMS, you need to redo the adding TEMS Configurator application support procedure to ensure the Configuration Manager working properly. Following are the steps to add TEMS Configurator application support:
  1. Launch **./itmcmd manage** from *install_dir*/bin.
  2. Right click **TEMS**.
  3. Select **Advanced** from **Install Product Support**.
  4. Highlight **TEMS Configurator** on the product list.
  5. Click the **Install** button.
- When performing WebSphere MQ Monitoring configuration on AS/400 for monitoring WebSphere MQ V6, the account used to login to the TEP should be created on AS/400. Appropriate authority such as BROWSE should also be assigned to the dead letter queue object. For example, you need to assign SYSADMIN with BROWSE authority if you want SYSADMIN to have right to browse DLQ messages. To check whether you have authority to access the DLQ object, enter following command from an AS/400 command line:

  ```
  QSYS/DSPMQMAUT OBJ(DLQ_Name) OBJTYPE(*Q) USER(SYSADMIN) MQMNAME(QM_Name)
  ```

  where *DLQ_Name* is the DLQ name; *SYSADMIN* is your account used to login to the TEP; *QM_Name* is the Queue Manager name.

For more information, see Chapter 9, "Configuring the Products on Windows", Chapter 10, "Configuring the Products on UNIX/Linux" and Chapter 11, "Configuring the Products on OS/400" in the *IBM Tivoli OMEGAMON XE for Messaging: Installation Guide*

Uninstallation information

The uninstaller of fix pack 01 can help you to uninstall all the IBM Tivoli OMEGAMON XE for Messaging Version 6.0.0 and 6.0.0.1 files.

Uninstalling on Windows

If you want to uninstall IBM OMEGAMON XE for Message Version 6.0.0.1 from a Windows machine, follow these steps.

1. Stop all OMEGAMON for Messaging agents running on the Windows machine and delete all the agent instances.
2. Select **Start > Settings > Control Panel > Add or Remove Programs**.
3. Select **IBM Tivoli OMEGAMON XE for Messaging**.
4. Click **Change/Remove**.
5. On the Add or Remove Features dialog, click the **+** sign next to each main feature to expand the tree.
6. Clear any component or type of support that you do not intend to uninstall, and click **Next**.
7. On the Start Copying Files dialog, review the list of features or types of support that will be uninstalled. Click **Back** if you want to go back and change any of the selections. When you are ready, click **Next** to begin uninstalling.
8. On the Setup Type dialog, select the configuration tasks (if any) that you want to redo for the remaining products.
9. When you have made all desired configuration changes, click **Finish**.

When the uninstallation is complete, the results are written into the *_uninstall_omxelog* file. This log file is created in the *install_dir* directory.

Note: If you want to reinstall IBM OMEGAMON XE for Message Version 6.0 fix pack 1, you need to restart your computer.

Uninstalling on UNIX and Linux

If you want to uninstall IBM OMEGAMON XE for Message Version 6.0.0.1 on UNIX and Linux, follow these steps.

1. Stop all OMEGAMON XE for Messaging agents running on the machine and delete all agent instances.
2. From a command prompt, enter this command:

   ```
   cd install_dir/bin
   ```

   where *install_dir* is the path for the home directory for the IBM Tivoli Monitoring and the IBM Tivoli OMEGAMON XE for Messaging.
3. Enter this command:

   ```
   cd install_dir/uninst_omxe
   ./uninstaller.bin
   ```

   A numbered list of product codes, architecture codes, version and release numbers, and product titles appears.
4. Enter the number for the product you want to uninstall.

When uninstallation is complete, the results are written to the *_uninstall_omxe.log* file. This log file is created in the *install_dir* directory.

Uninstalling on OS/400

If you want to uninstall IBM OMEGAMON XE for Message Version 6.0.0.1 on OS/400, follow these steps.

Procedure:
Complete the steps below for each instance of the agent that you want to uninstall.

1. Stop both the TEMS and the OMEGAMON for Messaging agents running on the machine, and delete all the agent instances.
2. Press **F3** to exit from the menu to release the object lock.
3. From an OS/400 command line, enter

   ```
   DSPSFWRSC
   ```
4. Scroll down until you see the name of WebSphere MQ Monitoring/ Configuration in the Description column.
5. Record the licensed program ID for the component, which is on the left under the column for Resource ID.

   ```
   Licensed program ID _____________________________________
   ```
6. Press “Enter“ to continue.
7. From an OS/400 command line, enter:

   ```
   DLTLICPGM LICPGM(licpgm)
   ```

   where *licpgm* is the licensed program ID that you recorded in step 5.
8. If you are uninstalling the WebSphere MQ Monitoring agent, you need to perform an additional step. From an OS/400 command line, enter:

   ```
   QSH
   ```

   In QSHELL environment, run:

```
rm -fr /home/kmq
```

Additional uninstallation information

If you received error messages during the installation process and need to reinstall the product, you are suggested to perform a clean startup.

- If you are uninstalling the product on Windows, perform the following steps:
  1. Remove the *install_dir*_uninst_omxe directory
  2. Remove the <common>\InstallShield\Universal\Common Files\OMXE directory if it exists;
     else, remove the <user.home>\InstallShield\Universal\Common Files\OMXE directory.
  3. Redo the product installation as described in "Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging TEMA agents on Windows" on page 9.

  where

  install_dir is the installation directory of IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack1;
  common is the directory where the common files shared by multiple applications, for example, *C:\Program Files\Common Files*;
  user.home is the home directory of the current user, for example,*C:\Documents and Settings\<username>*
- If you are uninstalling the product on UNIX and Linux, perform the following steps:
  1. Remove the *install_dir*/_uninst_omxe directory.
  2. Remove the $user.home/InstallShield/Universal/OMXE directory if it exists, else remove the /usr/lib/objrepos/InstallShield/Universal/common/OMXE directory.
  3. Redo the product installation as described in "Installing or upgrading IBM Tivoli OMEGAMON XE for Messaging TEMA agents on UNIX and Linux" on page 13.

  where

  install_dir is the installation directory for IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01;
  user.home is the home directory of the current user, for example /root.

Chapter 3. Known limitations, problems, and workarounds

This section describes limitations associated with IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01.

Limitations

Below are the known limitations of IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01:

- Candle monitor node and plug in node are not supported on HP-UX Itanium,
- WebSphere Interchange Server Monitoring Agent is supported on HP-UX Itanium only if WebSphere InterChange Server and WebSphere Interchange Server Data Store are installed remotely on WebSphere InterChange Server supported platforms.
- You need to backup your configuration files before you use remote-deployment for upgrading, and then restore the files after the remote deployment.

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Appendix A. Product codes

The following table lists product codes that identify the IBM Tivoli OMEGAMON XE for Messaging components and indicates whether each component need to add its application support to the TEMS. Use these codes when running commands.

Table 5. Product codes

Product	Code	Adding application support to the TEMS
Tivoli Enterprise Monitoring Server Configurator (Must add application support data for Websphere MQ Configuration)	cf	Yes
WebSphere Message Broker Monitoring	qi	Yes
WebSphere Interchange Server Monitoring	ic	Yes
WebSphere InterChange Server data source	ie	No
WebSphere MQ Configuration (See product code **cf**)	mc	No
WebSphere MQ Monitoring	mq	Yes

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Appendix B. Product image location

The following table indicates the location of the IBM Tivoli OMEGAMON XE for Messaging V6.0 fix pack 01 product image for the target platform.

Table 6. Product image location

Platform	Image Location
AIX 5.2 (32/64 bit)	UNIX_ISO_Device/AIX
AIX 5.3 (32/64 bit)	UNIX_ISO_Device/AIX
Solaris V9 (SPARC)	UNIX_ISO_Device/Solaris
Solaris V10 (SPARC)	UNIX_ISO_Device/Solaris
Solaris V10 (x86-64) on AMD Opteron	UNIX_ISO_Device/Sol603
HP-UX 11i (32/64 bit) with Patch PHSS_30970	UNIX_ISO_Device/HPUnix
HP on Itanium 64-bit	UNIX_ISO_Device/HPi113
Windows 2000 Professional	Win_ISO_Device:\WINDOWS
Windows 2000 Server	Win_ISO_Device:\WINDOWS
Windows 2000 Advanced Server	Win_ISO_Device:\WINDOWS
Windows XP	Win_ISO_Device:\WINDOWS
Windows 2003 Server SE (32 bit) with Service Pack 1	Win_ISO_Device:\WINDOWS
Windows 2003 Server EE (32 bit) with Service Pack 1	Win_ISO_Device:\WINDOWS
Windows 2003 Server on Itanium	Win_ISO_Device:\WINDOWS
OS/400 5.2	Win_ISO_Device:\AS400
i5/OS 5.3	Win_ISO_Device:\AS400
RedHat Enterprise Linux 3 on Intel	Linux_ISO_Device/xLinux3
RedHat Enterprise and Desktop Linux 4 Intel	Linux_ISO_Device/xLinux3
RedHat Enterprise Linux 4 on z/Series 31-bit	Linux_ISO_Device/zLinux3
SUSE Linux Enterprise Server 8 Intel	Linux_ISO_Device/xLinux2
SUSE Linux Enterprise Server 8 for z/Series 31-bit	Linux_ISO_Device/zLinux2
SUSE Linux Enterprise Server 9 Intel	Linux_ISO_Device/xLinux3
SUSE Linux Enterprise Server 9 for z/Series 31-bit	Linux_ISO_Device/zLinux3

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Appendix C. Product Platform Support

Table 7 shows the platform support for the TEMS and the OMEGAMON for Messaging agents, where **From** indicates the TEMS, and **To** indicates the OMEGAMON for Messaging agents.

Table 7. Product Platform support

Platform	mq (From/To)	mc (From/To)	qi (From/To)	ic (From/To)
Windows 2000 Professional	No/Yes	No/Yes	No/Yes	No/Yes
Windows 2000 Server	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
Windows 2000 Advanced Server	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
Windows XP	No/Yes	No/Yes	No/Yes	No/Yes
Windows 2003 Server SE (32 bit) with Service Pack 1	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
Windows 2003 Server EE (32 bit) with Service Pack 1	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
Windows 2003 SE (64 bit)	No/Yes	No/Yes	No/Yes	No/Yes
Windows 2003 EE (64 bit)	No/Yes	No/Yes	No/Yes	No/Yes
Windows 2003 Server on Itanium	No/No	No/No	No/No	No/No
Windows 2003 on VMWare ESX Server V2.5.2	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
Windows Vista	No/No	No/No	No/No	No/No
AIX 5.2 (32/64 bit)	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
AIX 5.3 (32/64 bit)	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
Solaris Operation Environment V8 (32/64 bit)	Yes/Yes	Yes/Yes	Yes/No	Yes/No
Solaris V9 (SPARC)	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
Solaris V10 (SPARC)	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
Solaris V10 (x86-64) on AMD Opteron	Yes/Yes	Yes/Yes	Yes/Yes	Yes/No
Solaris Zones	Yes /Yes	Yes /Yes	Yes /Yes	Yes/No
HP-UX 11i v1 (B.11.11) and HP-UX 11i v2 (B.11.23) (32/64) on PA-RISC	No/Yes	No/Yes	No/Yes	No/Yes
HP_UX 11i v2 (B.11.23) on Integrity (IA64)	No/Yes	No/Yes	No/Yes	No/Yes
OS/400 5.2	No/Yes	No/Yes	No/No	No/No
i5/OS 5.3	No/Yes	No/Yes	No/No	No/No
i5/OS 5.4	No/Yes	No/Yes	No/No	No/No
RedHat Enterprise Linux 3 on Intel	No/Yes	No/Yes	No/Yes	No/Yes

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Table 7. Product Platform support (continued)

Platform	mq (From/To)	mc (From/To)	qi (From/To)	ic (From/To)
RedHat Enterprise Linux3 on zSeries® 31 bit	Yes/Yes	No/Yes	Yes/Yes	Yes/Yes
RedHat Enterprise Linux3 on zSeries 64 bit	No/Yes	No/Yes	No/Yes	No/Yes
RedHat Enterprise and Desktop Linux 4 Intel	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
RedHat Enterprise Linux 4 on AMD64/EM64T	No/No	No/No	No/No	No/No
RedHat Enterprise Linux 4 on Itanium 64-bit	No/No	No/No	No/No	No/No
RedHat Enterprise Linux 4 on iSeries™ and pSeries®	No/Yes	No/Yes	No/Yes	No/Yes
RedHat Enterprise Linux 4 on z/Series 31-bit	Yes/Yes	Yes/Yes	Yes/Yes	Yes/No
RedHat Enterprise 4 on zSeries 64 bit	No/Yes	No/Yes	No/Yes	No/Yes
RedHat Enterprise Linux 4 for Intel on VMWare ESX Server V2.5.2 and V3.0	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
SUSE Linux Enterprise Server 8 Intel	No/Yes	No/Yes	No/Yes	No/Yes
SUSE Linux Enterprise Server 8 for z/Series 31-bit	No/Yes	No/Yes	No/Yes	No/No
SUSE Linux Enterprise Server 8 for zSeries 64 bit	No/Yes	No/Yes	No/Yes	No/No
SUSE Linux Enterprise Server 9 Intel	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
SUSE Linux Enterprise Server 9 on AMD64/emt64T	No/No	No/No	No/No	No/No
SUSE Linux Enterprise Server 9 on Itanium 64-bit	No/No	No/No	No/No	No/No
SUSE Linux Enterprise Server 9 for pSeries	No/Yes	No/Yes	No/Yes	No/No
SUSE Linux Enterprise Server 9 for z/Series 31-bit	Yes/Yes	Yes/Yes	Yes/Yes	Yes/No
SUSE Linux Enterprise Server 9 for z/Series 64-bit	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
SUSE Linux Enterprise Server 10 Intel	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
SUSE Linux Enterprise Server 10 on AMD64/EM64T	No/No	No/No	No/No	No/No
SUSE Linux Enterprise Server 10 on Itanium	No/No	No/No	No/No	No/No
SUSE Linux Enterprise Server 10 for pSeries	No/Yes	No/Yes	No/Yes	No/Yes

Table 7. Product Platform support (continued)

Platform	mq (From/To)	mc (From/To)	qi (From/To)	ic (From/To)
SUSE Linux Enterprise Server 10 for z/Series 64bit	No/Yes	No/Yes	No/Yes	No/Yes
z/OS 1.4	Yes/Yes	Yes/Yes	Yes/No	Yes/No
z/OS 1.5	Yes/Yes	Yes/Yes	Yes/Yes	Yes/No
z/OS 1.6	Yes/Yes	Yes/Yes	Yes/Yes	Yes/No
z/OS 1.7	Yes/Yes	Yes/Yes	Yes/Yes	Yes/No
z/OS 1.8	Yes/Yes	Yes/Yes	Yes/Yes	Yes/No

Note:

- See Appendix A, "Product codes," on page 41 for the product which the product code represents.
- The support on the 64 bit AIX, HP-UX and Solaris works in the 32 bit compatible mode.
- Refer to *IBM Tivoli OMEGAMON XE for Messaging on z/OS: Configuration Guide* for z/OS product support information.

Table 8 shows the platform support for the TEPS and TEP:

Table 8. TEPS and TEP Platform support

Platform	TEPS	TEP
Windows 2000 Professional	No	Yes
Windows 2000 Server	Yes	Yes
Windows 2000 Advanced Server	Yes	Yes
Windows XP	Yes	Yes
Windows 2003 Server SE (32 bit) with Service Pack 1	Yes	Yes
Windows 2003 Server EE (32 bit) with Service Pack 1	Yes	Yes
Windows 2003 SE (64 bit)	No	No
Windows 2003 EE (64 bit)	No	No
Windows 2003 Server on Itanium	No	No
Windows 2003 on VMWare ESX Server V2.5.2 and V3.0	Yes	Yes
Windows Vista	No	Yes
AIX 5.2 (32/64 bit)	No	No
AIX 5.3 (32/64 bit)	Yes	No
Solaris Operation Environment V8 (32/64 bit)	No	No
Solaris V9 (SPARC)	No	No
Solaris V10 (SPARC)	No	No
Solaris V10 (x86-64) on AMD Opteron	No	No

Table 8. TEPS and TEP Platform support (continued)

Platform	TEPS	TEP
Soloaris Zones	No	No
HP-UX 11i v1 (B.11.11) and HP-UX 11i v2 (B.11.23) (32/64) on PA-RISC	No	No
HP_UX 11i v2 (B.11.23) on Integrity (IA64)	No	No
OS/400 5.2	No	No
i5/OS 5.3	No	No
i5/OS 5.4	No	No
RedHat Enterprise Linux 3 on Intel	No	No
RedHat Enterprise Linux3 on zSeries 31 bit	No	No
RedHat Enterprise Linux3 on zSeries 64 bit	No	No
RedHat Enterprise and Desktop Linux 4 Intel	Yes	Yes
RedHat Enterprise Linux 4 on AMD64/EM64T	No	No
RedHat Enterprise Linux 4 on Itanium 64-bit	No	No
RedHat Enterprise Linux 4 on iSeries and pSeries	No	No
RedHat Enterprise Linux 4 on z/Series 31-bit	No	No
RedHat Enterprise 4 on zSeries 64 bit	Yes	No
RedHat Enterprise Linux 4 for Intel on VMWare ESX Server V2.5.2 and V3.0	Yes	Yes
SUSE Linux Enterprise Server 8 Intel	No	No
SUSE Linux Enterprise Server 8 for z/Series 31-bit	No	No
SUSE Linux Enterprise Server 8 for zSeries 64 bit	No	No
SUSE Linux Enterprise Server 9 Intel	Yes	Yes
SUSE Linux Enterprise Server 9 on AMD64/emt64T	No	No
SUSE Linux Enterprise Server 9 on Itanium 64-bit	No	No
SUSE Linux Enterprise Server 9 for iSeries an pSeries	No	No
SUSE Linux Enterprise Server 9 for z/Series 31-bit	Yes	No

Table 8. TEPS and TEP Platform support (continued)

Platform	TEPS	TEP
SUSE Linux Enterprise Server 9 for z/Series 64-bit	No	No
SUSE Linux Enterprise Server 10 Intel	Yes	Yes
SUSE Linux Enterprise Server 10 on AMD64/EM64T	No	No
SUSE Linux Enterprise Server 10 on Itanium	No	No
SUSE Linux Enterprise Server 10 for pSeries	No	No
SUSE Linux Enterprise Server 10 for z/Series 64bit	Yes	No
z/OS 1.4	No	No
z/OS 1.5	No	No
z/OS 1.6	No	No
z/OS 1.7	No	No
z/OS 1.8	No	No

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Important information and trademark notifications are described below.

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