



Readme



Readme

Note

Before using this information and the product it supports, read the information in “Notices” on page 13.

First Edition (December 2006)

This edition applies to Version 4, Release 1, Modification 0 of IBM Tivoli OMEGAMON XE on z/VM and Linux (product number 5698-A36) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Chapter 1. Fix Pack 0001 overview

Fix Pack 0001 is a fix pack for IBM® Tivoli® OMEGAMON® XE on z/VM® and Linux®, V4.1.0. This readme provides details about installing the fix pack and information about changes to this release.

OMEGAMON XE on z/VM and Linux, Fix Pack 0001, contains the fix pack components listed in Table 1.

Table 1. Fix Pack 0001 component fix packs

Fix pack name	Description
4.1.0-TIV-KVL-FP0001.PDF	Readme for the monitoring agent.
4.1.0-TIV-KVL-FP0001.tar	Linux on z/VM install image. This fix pack also contains the application support files to be installed on the Tivoli Enterprise Portal Monitoring Server, on the Tivoli Enterprise Portal Server, and on the Tivoli Enterprise Portal desktop client for the platform appropriate to that component (Windows, Linux, and/or UNIX).
4.1.0-TIV-KVL-FP0001.zip	Windows application support install image. Use this zip file to install the application support files for the monitoring server, for the portal server, and for the desktop client on the Windows platform.

Important: Fix Pack 0001 is a complete refresh of this monitoring agent. If you have a prior installation of this monitoring agent, any customized situations or historical data that has been collected will not be migrated to the new installation.

This fix pack caused a new physical CD image to be created in fulfillment. Please contact your IBM representative to obtain the latest CD image for this monitoring agent.

You install this fix pack from the refreshed product CD. You can also obtain the fix pack files from the Support Web page at the following address:

<http://www.ibm.com/software/sysmgmt/products/support>

Select **IBM® Tivoli® OMEGAMON XE on z/VM and Linux** from the **Support for specific Tivoli products** drop-down list. You will be taken to the support page for this monitoring agent.

What's new in this fix pack

The following changes have been made to IBM Tivoli OMEGAMON XE on z/VM and Linux in this fix pack:

- The prefix **KVL** was added to the names of the attribute groups. The attribute groups are renamed as follows:
 - KVLPAR Info
 - KVLPTKStat
 - KVLTCPIP Srvr Data
 - KVLTCPIPUserData
 - KVLCP Device
 - KVLDevice
 - KVLHiperSocket
 - KVLUser ApplData
 - KVLSystem
 - KVLUser Workload

– KVLVirtualSwitch

When you create a query on a workspace or you create a situation and you select an attribute group, the renamed attribute group displays.

- When you configure historical data collection using the History Collection Configuration dialog, the renamed attribute groups display.
- The product-provided situation formulas will reflect the new attribute group names. For example, `*IF *VALUE KVLSystem.Pct_Spool_Used *GE 80 *AND *VALUE KVLSystem.Pct_Spool_Used *LT 95`

Note: The changes to the attribute group names are available in all languages, although they are displayed in English only. The interface names will be translated in the next release of IBM Tivoli OMEGAMON XE on z/VM and Linux.

- The Situation Event Console view that displayed in the default workspace for z/VM Linux Systems has been removed from this workspace. You can still see the Situation Event Console view when you click the Enterprise node at the top level of the Navigator view. The Enterprise Status workspace that appears contains the Situation Event Console view that lists each alert for situations associated with the current Navigator item and any other Navigator items on a branch.

Chapter 2. Installation instructions

The following table outlines the steps required to install the fix pack in your environment.

Table 2. Overall installation steps for Fix Pack 0001

Goal	Where to find information
Ensure that your monitoring environment is prepared for fix pack installation.	<i>Program Directory</i> for this monitoring agent.
Gather the information you need to perform the installation.	<i>IBM Tivoli OMEGAMON XE on z/VM and Linux Planning and Configuration Guide</i> .
Install IBM Tivoli Monitoring, V6.1.0, with Fix Pack 0003.	<i>IBM Tivoli Monitoring Installation and Setup Guide</i> and the <i>IBM Tivoli Monitoring Fix Pack 003 Readme</i> .
Install the IBM Tivoli OMEGAMON XE on z/VM and Linux monitoring agent, V4.1.0, with Fix Pack 0001.	<i>IBM Tivoli Monitoring Installation and Setup Guide</i> , the <i>IBM Tivoli OMEGAMON XE on z/VM and Linux Planning and Configuration Guide</i> , and “Monitoring agent checklist” on page 4.
Install application support for the IBM Tivoli OMEGAMON XE on z/VM and Linux monitoring agent, V4.1.0, with Fix Pack 0001.	<i>IBM Tivoli Monitoring Installation and Setup Guide</i>
Install the IBM Tivoli Monitoring Agent on Linux OS, if you plan to use dynamic workspace linking. Also install application support for this agent. Note: Dynamic workspace linking between the IBM Tivoli OMEGAMON XE on z/VM and Linux monitoring agent and the IBM Tivoli Monitoring Agent on Linux OS is not supported when the Linux system defined for the Linux OS agent is running as a guest under a second-level z/VM system.	<i>IBM Tivoli Monitoring Installation and Setup Guide</i> and the <i>IBM Tivoli OMEGAMON XE on z/VM and Linux Planning and Configuration Guide</i> .
Install language support (optional) on each computer where the Tivoli Enterprise Portal Server is located.	See “Installing Language Support (optional)” on page 5.
Install the Command Processor. This is optional and only required if you intend to use the Take Action command feature.	<i>Program Directory</i> for this monitoring agent, and the <i>IBM Tivoli OMEGAMON XE on z/VM and Linux Planning and Configuration Guide</i> .

Before you install the fix pack

Do the following before you install this fix pack:

- Install IBM Tivoli Monitoring, Version 6.1.0, with Fix Pack 0003 installed.

Note: All base monitoring components must be at the same fix pack level. For example, you cannot have a Fix Pack 0001 portal server and a Fix Pack 0003 monitoring server.

- **Important:** If you have a prior installation of the Tivoli OMEGAMON XE on z/VM and Linux monitoring agent, be sure to uninstall Tivoli OMEGAMON XE on z/VM and Linux.

To uninstall the monitoring agent on Linux and UNIX:

1. From a command prompt, run the following command to change to the appropriate /bin directory:
`cd ITMinstall_dir/bin`
 where *ITMinstall_dir* is the path for the home directory of IBM Tivoli Monitoring.
2. Run the following command:
`./uninstall.sh`

A numbered list of product codes, architecture codes, version and release numbers, and product titles displays for all installed products.

3. Type the number for this monitoring agent.
- If you are installing fix packs on Linux or UNIX computers, and you installed the IBM Tivoli Monitoring components (both the base monitoring components like the monitoring server and any monitoring agents) as a non-root user, you must perform the following steps to ensure that the user who installs the fix packs has the appropriate permissions:

Note: *ITMinstall_dir* is the installation location for IBM Tivoli Monitoring and *user_id* is the ID that was used to install the IBM Tivoli Monitoring components.

1. Log into the computer as *user_id*.
2. Run the following command to change ownership of any root owned files to *user_id*:
`su - root -c "ITMinstall_dir/bin/UnSetRoot user_id"`
3. Install the fix pack components on the computer, following the steps outlined in both the IBM Tivoli Monitoring and in the agent checklists.
4. Run the following command to reset the file permissions and file ownership as required:
`su - root -c "ITMinstall_dir/bin/SetPerm -a"`

Monitoring agent checklist

The following checklist provides the high-level local installation steps for this monitoring agent.

Table 3. Checklist for locally installing the fix pack for IBM Tivoli OMEGAMON XE on z/VM and Linux

√	Installation step
	1. Gather information about the monitoring components in your environment. See the <i>IBM Tivoli OMEGAMON XE on z/VM and Linux Planning and Configuration Guide</i> .
	2. Select one of the following methods to install the monitoring agent: Installation from the refreshed product CD Install the 4.1.0-TIV-KVL-FP0001 image from the refreshed product CD. This step assumes that IBM Tivoli Monitoring, Version 6.1, with Fix Pack 0003, is already installed. On Windows, launch the installation wizard by double-clicking the setup.exe file in the \WINDOWS subdirectory on the installation media. Continue with the installation and configuration of the monitoring agent by following the instructions outlined in the <i>IBM Tivoli Monitoring Installation and Setup Guide</i> . See also the <i>IBM Tivoli OMEGAMON XE on z/VM and Linux Planning and Configuration Guide</i> . On UNIX or Linux, run the following command from the directory where you extracted the fix pack files: ./install.sh Continue with the installation and configuration of the monitoring agent by following the instructions outlined in the <i>IBM Tivoli Monitoring Installation and Setup Guide</i> . See also the <i>IBM Tivoli OMEGAMON XE on z/VM and Linux Planning and Configuration Guide</i> .

Table 3. Checklist for locally installing the fix pack for IBM Tivoli OMEGAMON XE on z/VM and Linux (continued)

√	Installation step
	<p>2. (Continued)</p> <p>Installation from the Support Web Page</p> <p>If you are installing the monitoring agent from the Support Web page for this product, perform the following steps:</p> <p>Download and install the 4.1.0-TIV-KVL-FP0001 fix pack image from the Support Web page. This step assumes that IBM Tivoli Monitoring, Version 6.1, with Fix Pack 0003, is already installed.</p> <p>On Windows, download and extract the 4.1.0-TIV-KVL-FP0001.zip file into a temporary installation directory, and run the following commands:</p> <pre>cd install_dir\WINDOWS</pre> <p>where <i>install_dir</i> is the directory where you extracted the fix pack files.</p> <p>setup.exe</p> <p>On UNIX or Linux, download and extract the 4.1.0-TIV-KVL-FP0001.tar file into a temporary installation directory, and run the following commands from the command line:</p> <pre>cd install_dir</pre> <p>./install.sh</p> <p>where <i>install_dir</i> is the directory where you extracted the fix pack files.</p> <p>For any of these platforms, continue with the installation and configuration of the monitoring agent by following the instructions outlined in the <i>IBM Tivoli Monitoring Installation and Setup Guide</i>. See also the <i>IBM Tivoli OMEGAMON XE on z/VM and Linux Planning and Configuration Guide</i>.</p>
	<p>3. Be sure to install the application support for this monitoring agent on the monitoring server, on the portal server, and on the desktop client on the appropriate platform. For the Linux and UNIX platforms, use the 4.1.0-TIV-KVL-FP0001.tar file to install the application support on the appropriate platform for each component. For the Windows platform, use the 4.1.0-TIV-KVL-FP0001.zip file to install application support for the monitoring server, the portal server, and the desktop client. Refer to the <i>IBM Tivoli Monitoring Installation and Setup Guide</i> for details on installing the application support for these components.</p> <p>Note: If you plan to use dynamic workspace linking, an important feature of this product, be sure to install the IBM Tivoli Monitoring: Linux OS agent. You will also need to install the application support for the IBM Tivoli Monitoring: Linux OS agent. This will enable you to link to specific IBM Tivoli Monitoring: Linux OS workspaces from some of the Tivoli OMEGAMON XE on z/VM and Linux monitoring agent workspaces. Refer to the <i>IBM Tivoli Monitoring Installation and Setup Guide</i> for details on installing this monitoring agent and on installing the application support for this agent.</p>

Installing Language Support (optional)

If you want the OMEGAMON XE monitoring agents' workspaces, online help, and expert advice to be displayed in a language other than English, you can install language support for each monitoring agent on all workstations where a Tivoli Enterprise Portal Server is located and where IBM Tivoli Monitoring language support has already been installed.

If IBM Tivoli Monitoring language support has not yet been installed, you must install it before installing monitoring agent language support. Language support is available only on the platforms that were supported for IBM Tivoli Monitoring V6.1 GA. See the *IBM Tivoli Monitoring: Installation and Setup Guide* for instructions.

To install monitoring agent language support, complete the following steps:

1. Insert the monitoring agent language pack CD into the CD-ROM drive of a workstation where the Tivoli Enterprise Portal Server is located. For Linux systems, mount the CD if necessary.
2. Launch the installation program.
 - **Windows:** The installation program should start automatically. If it does not, go to the Windows directory on your CD-ROM drive and double-click the **setup.exe** file.
 - **Linux for Intel:** Run the `./setupLinux.bin` command.
 - **Linux for z/OS:** Run the `./setupLinux390.bin` command.
3. Select the language to be used during the installation, and click **OK**.
4. Read the text that welcomes you to the installation, and click **Next** to continue.
5. Read the software license agreement, select **I accept the terms of this license agreement**, and click **Next**.
6. Under **Language Pack Installation**, expand the **Supported Languages** node and select one or more languages from the list, then click **Next**.
7. Review the installation summary and click **Next**.

Language support files are installed, and a message instructs you to restart the Tivoli Enterprise Portal desktop client and the Eclipse Help Server.
8. Click **Next**, then click **Finish**.
9. Stop and restart the following components:
 - Tivoli Enterprise Portal Server
 - Eclipse Help Server
 - Tivoli Enterprise Portal desktop or browser client

For instructions on specifying the language to be displayed for users, see *IBM Tivoli Monitoring: Administrator's Guide*.

Chapter 3. Documentation changes

The following documentation changes were made in support of this fix pack:

- The online help system reflects the renamed attribute tables. The online help system is accessed from the **Help** pull-down menu on the monitoring agent interface. Additionally, the Situation Event Console description was removed from the description of the default workspace for z/VM Linux Systems.
- The *IBM Tivoli OMEGAMON XE on z/VM and Linux User's Guide*, SC32-9489-01, was revised as needed, for the renamed attribute tables and predefined situation formulas. Additionally, the Situation Event Console description was removed from the description of the default workspace for z/VM Linux Systems.

Note: The changes made to the online help system and to the user's guide for this fix pack are available in English only. The online help system and the user's guide will be translated in the next release of IBM Tivoli OMEGAMON XE on z/VM and Linux.

You can access the user's guide, as well as the other publications for this agent, from the Tivoli Information Center Web site at the following Web address:

http://publib.boulder.ibm.com/infocenter/tivihelp/v15r1/topic/com.ibm.omegamon_xezvm.doc/welcome.htm

You can view the publications for this and all other Tivoli products at the following Web address:

<http://publib.boulder.ibm.com/tividd/td/link/tdprodlist.html>.

In the Tivoli software information center window, click the letter that matches the first letter of your product name to access your product library. For example, click **M** to access the IBM Tivoli Monitoring library or click **O** to access the IBM Tivoli OMEGAMON library.

IBM Tivoli OMEGAMON XE on z/VM and Linux Planning and Configuration Guide

The *IBM Tivoli OMEGAMON XE on z/VM and Linux Planning and Configuration Guide*, GC32-1957-00, contains a disk capacity planning table that lists the attribute tables. Disk capacity planning for a monitoring agent is a prediction of the amount of disk space to be consumed for each attribute group whose historical data is being collected. Required disk storage is an important factor to consider when you are defining data collection rules and your strategy for historical data collection. Calculate expected disk space consumption by multiplying the number of bytes per row by the expected number of rows, and then multiplying that product by the number of samples.

Table 2 shows the disk capacity planning table with the renamed attribute groups. The planning and configuration guide will be reissued for the next release of this monitoring agent.

Table 4. Capacity planning for historical data

Attribute group	DB table name	History row size in bytes	Summarization row size	Expected number of rows
KVLCP Device	VMCPDEV	164	232	1 row per CP-owned device allocation
KVLDevice	VMDEV	168	300	1 row per DASD device
KVLHiperSocket	VMHIPER	152	268	1 row per HiperSockets™ channel
KVLLPAR Info	LPARINFO	160	264	1 row per LPAR

Table 4. Capacity planning for historical data (continued)

Attribute group	DB table name	History row size in bytes	Summarization row size	Expected number of rows
KVLPTKStat	PTKSTAT	160	192	Varies, depending upon your environment
KVLSystem	VMSYSTEM	284	716	1 row per system
KVLTCPIP Svr Data	TCPSDATA	244	636	1 row per TCP/IP server
KVLTCPIPUsrData	TCPUDATA	184	348	1 row per TCP/IP user
KVLUser ApplData	VMLXAPPL	296	820	1 row per Linux guest system (with APPLDATA enabled)
KVLUser Workload	VMWORK	120	456	1 row for every virtual machine guest logged into the system
KVLVirtualSwitch	VSWITCH	160	272	1 row per virtual switch

Support information

If you have a problem with your IBM software, you want to resolve it quickly. This section describes the following options for obtaining support for IBM software products:

- “Using IBM Support Assistant”
- “Obtaining fixes”
- “Receiving weekly support updates” on page 10
- “Contacting IBM Software Support” on page 10

Using IBM Support Assistant

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

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

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

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

For more information, see the IBM Support Assistant Web site at <http://www.ibm.com/software/support/isa/>.

If your product does not use IBM Support Assistant, use the links to support topics in your information center. In the navigation frame, check the links for resources listed in the **ibm.com® and related resources** section where you can search the following resources:

- Support and assistance (includes search capability of IBM technotes and IBM downloads for interim fixes and workarounds)
- Training and certification
- IBM developerWorks®
- IBM Redbooks™
- General product information

If you cannot find the solution to your problem in the information center, search the following Internet resources for the latest information that might help you resolve your problem:

- Forums and newsgroups
- Google.com

Obtaining fixes

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

1. Go to the IBM Software Support Web site at <http://www.ibm.com/software/support>.
2. Under **Find product support**, click All IBM software (A-Z). This opens the software product list.
3. In the software product list, click **IBM Tivoli OMEGAMON XE on z/VM and Linux**. This opens the IBM Tivoli OMEGAMON XE on z/VM and Linux support site.

4. Under **Solve a problem**, click **APARs** to go to a list of fixes, fix packs, and other service updates for Tivoli OMEGAMON XE on z/VM and Linux.
5. Click the name of a fix to read the description and optionally download the fix. You can also search for a specific fix; for tips on refining your search, click **Search tips**.
6. In the **Find downloads and drivers by product** section, select one software category from the **Category** list.
7. Select one product from the **Sub-category** list.
8. Type more search terms in the **Search within results** if you want to refine your search.
9. Click **Search**.
10. From the list of downloads returned by your search, click the name of a fix to read the description of the fix and to optionally download the fix.

For more information about the types of fixes that are available, see the *IBM Software Support Handbook* at <http://techsupport.services.ibm.com/guides/handbook.html>.

Receiving weekly support updates

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

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

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

Online

Send an e-mail message to erchelp@ca.ibm.com, describing your problem.

By phone

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

Contacting IBM Software Support

IBM Software Support provides assistance with product defects.

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

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

Online

Go to the Passport Advantage Web site at http://www-306.ibm.com/software/howtobuy/passportadvantage/pao_customers.htm .

By phone

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

- For customers with Subscription and Support (S & S) contracts, go to the Software Service Request Web site at <https://techsupport.services.ibm.com/ssr/login>.
- For customers with IBMLink™, CATIA, Linux, OS/390®, iSeries™, pSeries®, zSeries®, and other support agreements, go to the IBM Support Line Web site at <http://www.ibm.com/services/us/index.wss/so/its/a1000030/dt006>.
- For IBM eServer™ software products (including, but not limited to, DB2 and WebSphere products that run in zSeries, pSeries, and iSeries environments), you can purchase a software maintenance agreement by working directly with an IBM sales representative or an IBM Business Partner. For more information about support for eServer software products, go to the IBM Technical Support Advantage Web site at <http://www.ibm.com/servers/eserver/techsupport.html>.

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

To contact IBM Software support, follow these steps:

1. “Determining the business impact”
2. “Describing problems and gathering information” on page 12
3. “Submitting problems” on page 12

Determining the business impact

When you report a problem to IBM, you are asked to supply a severity level. Therefore, you need to understand and assess the business impact of the problem that you are reporting. Use the following criteria:

Severity 1

The problem has a *critical* business impact. You are unable to use the program, resulting in a critical impact on operations. This condition requires an immediate solution.

Severity 2

The problem has a *significant* business impact. The program is usable, but it is severely limited.

Severity 3

The problem has *some* business impact. The program is usable, but less significant features (not critical to operations) are unavailable.

Severity 4

The problem has *minimal* business impact. The problem causes little impact on operations, or a reasonable circumvention to the problem was implemented.

Describing problems and gathering information

When describing a problem to IBM, be as specific as possible. Include all relevant background information so that IBM Software Support specialists can help you solve the problem efficiently. To save time, know the answers to these questions:

- What software versions were you running when the problem occurred?
- Do you have logs, traces, and messages that are related to the problem symptoms? IBM Software Support is likely to ask for this information.
- Can you re-create the problem? If so, what steps were performed to re-create the problem?
- Did you make any changes to the system? For example, did you make changes to the hardware, operating system, networking software, and so on.
- Are you currently using a workaround for the problem? If so, be prepared to explain the workaround when you report the problem.

Submitting problems

You can submit your problem to IBM Software Support in one of two ways:

Online

Click **Submit and track problems** on the IBM Software Support site at <http://www.ibm.com/software/support/probsub.html>. Type your information into the appropriate problem submission form.

By phone

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

If the problem you submit is for a software defect or for missing or inaccurate documentation, IBM Software Support creates an Authorized Program Analysis Report (APAR). The APAR describes the problem in detail. Whenever possible, IBM Software Support provides a workaround that you can implement until the APAR is resolved and a fix is delivered. IBM publishes resolved APARs on the Software Support Web site daily, so that other users who experience the same problem can benefit from the same resolution.

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