

Chapter 1. Fix Pack 0007 overview

Fix Pack 0007 is a fix pack for IBM® Tivoli® OMEGAMON® XE on z/VM® and Linux®, V4.3.0. This readme file provides details about installing the fix pack and information about the changes contained in this fix pack. OMEGAMON XE on z/VM and Linux, V4.3.0, Fix Pack 0007 contains the components listed in Table 1.

Table 1. Fix Pack 0006 files

File name	Description
4.3.0-TIV-KVL-FP0007.README.pdf	Readme file for the monitoring agent.
4.3.0-TIV-KVL-FP0007.tar	Agent installation image. This file also contains the application support files to be installed on the Tivoli Enterprise 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, or UNIX®).
4.3.0-TIV-KVL-FP0007.zip	Windows application support installation 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.
4.3.0-TIV-KVL-LP-FP0007.tar	Language pack image. This file contains the application support files to be installed on the Tivoli Enterprise 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, or UNIX®).
4.3.0-TIV-KVL-LP-FP0007.zip	Language pack Windows application support installation 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 0007 is a complete refresh of this monitoring agent. If you have a prior installation of this monitoring agent, any customized product provided situations will not be migrated to the new installation.

You can obtain the fix pack files from the Support Web page at the following address:

http://www-01.ibm.com/software/support/index_A_Z.html

Select **Tivoli® OMEGAMON XE on z/VM and Linux** from the list. You will be taken to the support page for this monitoring agent.

What's new in the Version 4.3.0 Fix Pack

Interim fixes are cumulative and contain all the fixes in prior interim fixes. The following is a list of the cumulative fixes for version 4.3.0:

Fix Pack 0007 Fix Pack7 includes Java assets updated with a current signing certificate. Without this update, after 20th of February 2023 TEP browser or TEP webstart clients may receive message "Your security settings have blocked an application signed with an expired or not-yet-valid certificate from running" or may be prompted to accept a valid, but expired certificate. Fix Pack 0007 also includes prerequisite checker fix.

Fix Pack 0006 Fix Pack 6 includes Java assets updated with a current signing certificate. Without this update, after 5th of June 2021 TEP browser or TEP webstart clients may receive message "Your security settings have blocked an application signed with an expired or not-yet-valid certificate from running" or may be prompted to accept a valid, but expired certificate.

Fix Pack 0006 also contains certification for RedHat Enterprise Linux 8 and Ubuntu Server 20.04 LTS.

Fix Pack 0005 contains certification for RedHat Enterprise Linux 7,5, SUSE Linux Enterprise Server 15 for zSeries and Ubuntu Server 18.04 LTS.

Support for Hex Processor IDs. This means that the attribute in the KVLProcessor Data attribute group for the Processor Number has been deprecated and renamed to "Processor Number Dec", and a new attribute has been created, named "Processor Number" which is now a hex value with a range of 0-FF. This function is only for z/VM 7.1 and later.

The table name for the Spinlocks table has been changed to "KVLSPINL". This is to satisfy APAR OA55550. There as a conflict in history data between the spinlock table for OMEGAMON XE on z/VM and Linux and OMEGAMON for z/OS. Both tables were named SPINLOCK. This fixpack renames the table for OMEGAMON XE on z/VM and Linux. Because of this, if you are collecting historical data for spinlocks there will be a loss of continuity of historical data when you apply this fix pack.

Note: This fix pack will require a corequisite z/VM PTF to be applied to your z/VM 6.4 or 7.1 system. Make sure you check the website listed under "**Support for the z/VM operating system**"

Fix Pack 0004

Includes the following Best Practice

System workspace

- a) Add subranges to CP Percent of CPU Gauge
- b) Add thresholds to System Utilization table
- c) Change the range of Total to Virtual Ratio Gauge
- d) Add the link to Workload workspace and sorted by Total CP percent of CPU field

System Spin Locks workspace

Add thresholds for Time Spinning on Locks Percent field

Real Storage workspace

Add field Storage Overcommit Ratio and the threshold to z/VM Storage Utilization table

Add situation ZVM_Spin_Pct_Critical

Fix Pack 0003 contains certification for Ubuntu Server 16.04 LTS

New workspaces to allow you to monitor CPU Pools in z/VM 6.3 and later

Certification for support of ITM 6.3 FP7

Enhance support for LPARs and Processors that includes Type Capping, Multithreading Depth and Group Capping metrics

Fix Pack 0002 contains certification for RedHat Enterprise Linux 7 and SUSE Linux Enterprise Server 12 for zSeries.

Certification for support of ITM 6.3 FP6

An update to the path statement in support of the Command Processor

Integration of the ITM prerequisite checker into the installation of the agent

Re-signed jar files with certificates that will not expire until 2018

Fix Pack 0001 contains an update for Oracle Java 7 u51. This requires that all JAR files used in applet or Java Web Start deployments have the permissions attribute set in the JAR manifest file.

Applets or Java Web Start applications that do not meet these conditions will not run in the new default configuration. The following message is displayed when this problem is encountered:

"Application blocked by security settings. The Java security settings have prevented this application from running. You may change this behavior in the Java Control Panel."

For more details on this, see the documentation at <http://www01.ibm.com/support/docview.wss?uid=swg21659560>

Support for the z/VM operating system

See the following "Supported versions of the z/VM operating system" section for a complete list of the supported versions of the z/VM operating system. Updates to this function are delivered as part of the normal service stream for Performance Toolkit for z/VM v6.4, 7.1 and 7.2.

For details on the relevant APARs and their corresponding PTFs for this monitoring agent, see the support page documenting the formatted output collectors of the Performance Toolkit, located at the following address:

<http://www.vm.ibm.com/related/perfkit/pksegout.html>

Supported versions of the z/VM operating system

Tivoli OMEGAMON XE on z/VM and Linux Version 4.3.0 FP 0006 is supported on the following versions of the z/VM operating system.

- z/VM Version 6.4
- z/VM Version 7.1
- z/VM Version 7.2

Note: To take advantage of the most recent features implemented, install the latest version of the Performance Toolkit and the latest version of the OMEGAMON XE on z/VM and Linux monitoring agent. Reduced functionality results if you run a prior version of either the Performance Toolkit or the OMEGAMON XE on z/VM and Linux monitoring agent.

Support for SUSE Linux Enterprise Server and Red Hat Enterprise Linux

Version 4.3.0 Fix Pack 0006 supports for the following versions of SUSE Linux Enterprise Server:

- SUSE Linux Enterprise Server 12 for zSeries, 64-bit mode
- SUSE Linux Enterprise Server 15 for zSeries, 64-bit mode

Version 4.3.0 Fix Pack 0006 supports for the following versions of Red Hat Enterprise Linux:

- Red Hat Enterprise Linux 6
- Red Hat Enterprise Linux 7
- Red Hat Enterprise Linux 8

Version 4.3.0 Fix Pack 0006 supports for the following versions of Red Hat Enterprise Linux:

- Ubuntu Server 16.04 LTS
- Ubuntu Server 18.04 LTS.
- Ubuntu Server 20.04 LTS

See the *OMEGAMON XE on z/VM and Linux Planning and Configuration Guide* for further information on Linux requirements.

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 0006

Goal	Where to find information
Ensure that your monitoring environment is prepared for interim fix.	<i>IBM Tivoli OMEGAMON XE on z/VM and Linux Planning and Configuration Guide.</i>
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, V6.3.0, with Interim Fix 0007 or later.	<i>IBM Tivoli Monitoring Installation and Setup Guide and the IBM Tivoli Monitoring Interim Fix 0007 Readme.</i>
Install the IBM Tivoli OMEGAMON XE on z/VM and Linux monitoring agent, V4.3.0 Fix pack 0007.	<i>IBM Tivoli Monitoring Installation and Setup Guide, the IBM Tivoli OMEGAMON XE on z/VM and Linux Planning and Configuration Guide, and "Monitoring agent checklist" below.</i>
Install application support for the IBM Tivoli OMEGAMON XE on z/VM and Linux monitoring agent, V4.3.0, with Fix Pack 0007.	<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)" below.
Install the Command Processor. This step is optional and required only 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

Before you install this fix pack, install IBM Tivoli Monitoring, Version 6.3.0, with Interim Fix 0007 or later if that product at that level is not already installed.

Note: All base monitoring components must be at the same fix pack level. For example, you cannot have a Fix Pack 0006 portal server and a Fix Pack 0007 monitoring server.

If you are installing fix packs on Linux or UNIX computers, and you installed the IBM Tivoli Monitoring components (both the base monitoring components such as 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. If the *user_id* was NOT root, then follow steps 1-4 below if installing on Unix.

1. Log in to 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
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	<p>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>.</p>
	<p>2. Select one of the following methods to install the monitoring agent:</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 4.3.0-TIV-KVL-FP0007 fix pack files from the Support Web page. This step assumes that IBM Tivoli Monitoring, Version 6.3.0, with Interim Fix 0007, or later, is already installed.</p> <p>On Windows computers, download and extract the 4.3.0-TIV-KVL-FP0007.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 interim fix files.</p> <p>setup.exe</p> <p>On UNIX or Linux computers, download and extract the 4.3.0-TIV-KVL-FP0007.tar file into a temporary installation directory. Then <code>cd tmp_dir/agent</code> if installing the agent or <code>cd tmp_dir/app-support</code> if installing application support and run the following command:</p> <p>./install.sh</p> <p>where <i>tmp_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 4.3.0-TIV-KVL-FP0007.tar file to install the application support on the appropriate platform for each component. For the Windows platform, use the 4.3.0-TIV-KVL-FP0007.zip file to install application support for the monitoring server, the portal server, and the desktop client.</p> <p>See 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 must also install the application support for the IBM Tivoli Monitoring: Linux OS agent. Using application support, you can link to specific IBM Tivoli Monitoring: Linux OS workspaces from some of the Tivoli OMEGAMON XE on z/VM and Linux monitoring agent workspaces. See 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 agent workspaces, online help, and expert advice to be displayed in a language other than English, you can install language support for each monitoring agent." Language support must be installed on all workstations where a Tivoli Enterprise Portal Server is located and where IBM Tivoli Monitoring base language support has already been installed.

If IBM Tivoli Monitoring base 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. See the *IBM Tivoli Monitoring: Installation and Setup Guide* for instructions.

Before installing a language pack, first install the component in English. Also ensure that Java Runtime Environment version 1.6 or above is installed and set in the system path. Use the following steps to install a language pack on any system where you have installed either the Tivoli Enterprise Portal Server or the Tivoli Enterprise Portal desktop client:

1. In the directory where you extracted the language pack installation image, launch the installation program as follows:
 - On Windows, double-click the `lpinstaller.bat` file.
 - On Linux and UNIX, run the following command:
`./lpinstaller.sh -c install_dir`
where: `install_dir` is the directory where you installed IBM Tivoli Monitoring (usually `/opt/IBM/ITM`). To perform a console installation on Linux or UNIX (instead of a GUI installation), add the `i` console parameter to the above command.
2. Select the language you want installed, and click OK.
3. On the Introduction panel, click Next.
4. On the Select Action Set panel, click Add/Update, and click Next.
5. Select the folder in which the Language Support package files (`win*.jar` and `unix*.jar`) are located, and click Next. The default folder is the directory where the installer is launched.
6. Select the languages that you want to install, and click Next. For multiple selections, hold down the Ctrl key.
7. Review the installation summary, and, if correct, click Next. The installation's progress is displayed.
8. On the Post Install Message panel, click Next.
9. Click Done once the installation is complete.
10. Reconfigure and restart the Tivoli Enterprise Portal Server and the Eclipse Help Server. See below.

After installing the Language Pack, reconfigure the portal server and the desktop client using either the Manage Tivoli Enterprise Monitoring Services utility or the **itmcmd config** command.

Use one of the following methods to reconfigure the affected components:

- Launch Manage Tivoli Enterprise Monitoring Services, right-click the affected component, and select **Reconfigure**. (See [Starting Manage Tivoli Enterprise Monitoring Services](#).)
- Change to the `install_dir/bin` directory, and enter the following commands:
- `./itmcmd config -A cq`
- `./itmcmd config -A cj`

Accept the default values, which reflect the decisions made when the component was installed or last configured. For instructions on specifying your users' language environment, see the *IBM Tivoli Monitoring: Administrator's Guide*.

After you have reconfigured these components, you need to stop and restart these components:

- Tivoli Enterprise Portal Server
- Tivoli Enterprise Portal desktop or browser client

For SUSE Linux Enterprise Server (SLES) 10 computers only: On the SLES 10 platform, the

Tivoli Enterprise Portal displays corrupted text resources in the Japanese locale. Download the Kochi fonts contained in the kochi-substitute-20030809.tar package from the following Web site: <http://sourceforge.jp/projects/efont/files/>.

The downloaded tar file includes the truetype fonts (tff files), which need to be installed on your system. Complete the following steps to install the files:

1. Extract the tar file.
2. Copy the font files (tff) to X11 font path (for example, /usr/X11R6/lib/X11/fonts/truetype).
3. Run **SUSEconfig -module fonts**.

Refer to the following Web site for detailed instructions for installing the additional fonts to SUSE Linux: <http://www.suse.de/~mfabian/suse-cjk/installing-fonts.html>

Chapter 3. Documentation changes None

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