Program Directory for
IBM Tivoli OMEGAMON XE on z/VM and Linux

version 4 release 3.0
Program Number 5698-A36

for Use with
z/VM version 6 release 4
z/VM version 6 release 3
z/VM version 6 release 2
z/VM version 5 release 4

Document Date: December 2016

GI11-4135-05
1.0 Introduction

This program directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of IBM® Tivoli® OMEGAMON® XE on z/VM® and Linux®. You should read all of this program directory before installing the program and then keep it for future reference.

The program directory contains the following sections:

- 2.0, “Program Materials” on page 3 identifies the basic and optional program materials and documentation for Tivoli OMEGAMON XE on z/VM and Linux.
- 3.0, “Program Support” on page 7 describes the IBM support available for Tivoli OMEGAMON XE on z/VM and Linux.
- 4.0, “Program and Service Level Information” on page 8 lists the APARs (program level) and PTFs (service level) incorporated into Tivoli OMEGAMON XE on z/VM and Linux.
- 5.0, “Installation Requirements and Considerations” on page 9 identifies the resources and considerations for installing and using Tivoli OMEGAMON XE on z/VM and Linux.
- 6.0, “Installation Instructions” on page 13 provides detailed installation instructions for Tivoli OMEGAMON XE on z/VM and Linux.
- 7.0, “Service Instructions” on page 27 provides detailed servicing instructions for Tivoli OMEGAMON XE on z/VM and Linux.
- Appendix A, “Create Product Parameter File (PPF) Override” on page 36 provides detailed information on overriding the Product Parameter File (PPF).

Before installing Tivoli OMEGAMON XE on z/VM and Linux, read 3.1, “Preventive Service Planning” on page 7. This section tells you how to find any updates to the information and procedures in this program directory.

1.1 Program Description

IBM Tivoli OMEGAMON XE on z/VM and Linux provides comprehensive information about the z/VM operating system, its resources, and the workloads. Information on Linux® instances running as z/VM guests and the Linux workload are targeted so the user sees how these instances and workloads of Linux are running and impacting z/VM. This offering requires z/VM version 5 release 4 or later to be the platform being monitored.

IBM Tivoli OMEGAMON XE on z/VM and Linux utilizes the data collection from Performance Toolkit for VM™, FL640. You may also run with Performance Toolkit for VM, FL630, FL620 or FL540. Performance Toolkit for VM is a prerequisite as it is the basic foundation for gathering z/VM metrics and has proven to be rich in information and provides the ideal base for z/VM data going into the OMEGAMON offering. The IBM Tivoli OMEGAMON XE on z/VM and Linux is built upon Tivoli Management Services and utilizes...
Tivoli Enterprise Portal (TEP) which allows for all of TEP's alerting, actioning and integration capabilities to be leveraged with this information being provided.

Functions provided:

- View workloads for virtual machines, response times and LPAR usage
- Includes historical reporting and trending analysis
- Has reports on z/VM and Linux usage of resources, for example, CPU utilization, storage, minidisks, minidisk cache, spin locks, and TCP/IP
- Has detailed reports on workloads of z/VM and the Linux instance workloads
- Manages z/VM and its Linux instances for a single point of control
- Provides the ability to identify, isolate, and correct problems between z/VM and Linux instances quickly
- Assists in optimizing the z/VM Linux environment as well as integrating this information with other IBM products that utilize TEP for a total view of your environment.

Because IBM Tivoli OMEGAMON XE on z/VM and Linux has parts that run on both z/VM and Linux it is packaged in multiple pieces. There are three parts and they are delivered in the following manner:

1. Tivoli OMEGAMON XE on z/VM and Linux, Performance Toolkit Extensions
   This part consists of a new level of the z/VM Performance Toolkit containing extensions that allow it to gather data and place it in a DCSS where it can be retrieved by the Tivoli OMEGAMON XE on z/VM and Linux, Linux Agent. It also contains a tool to help you analyze your installation and decide how large of a DCSS you will need for your performance data. This piece is delivered as part of the z/VM operating system. Depending on your version of z/VM it may be necessary to install service to receive this support. Complete information can be found at the website: www.vm.ibm.com/related/perfkit/

2. Tivoli OMEGAMON XE on z/VM and Linux, Linux Agent
   This is the z/VM agent that runs on a Linux guest. It will take the data gathered by the Tivoli OMEGAMON XE on z/VM and Linux, Performance Toolkit Extensions and deliver it to the Tivoli Enterprise Management Server (TEMS). It is delivered on a CD which also contains seeding files for the TEMS, the Tivoli Enterprise Portal Server (TEPS) and the Tivoli Enterprise Portal (TEP). For instructions on installing and servicing this piece, see the IBM Tivoli OMEGAMON XE on z/VM and Linux: Planning and Configuration Guide.
   Note: If you have not previously installed IBM Tivoli Monitoring Services at your installation, there are CDs containing the product and documentation included in this package.

3. Tivoli OMEGAMON XE on z/VM and Linux, Command Processor
   This is the Command Processor portion of the product. It is installed and runs on your z/VM system. This Program Directory will provide instructions on how to install and service the Command Processor.
2.0 Program Materials

An IBM program is identified by a program number. The program number for IBM Tivoli OMEGAMON XE on z/VM and Linux version 4 is 5698-A36.

The program announcement material describes the features supported by Tivoli OMEGAMON XE on z/VM and Linux. Ask your IBM marketing representative for this information if you have not already received a copy.

The following sections identify:
- basic and optional program materials available with this program
- publications useful during installation.

2.1 Basic Machine-Readable Material

The distribution medium for this program is DVD. You can also receive this program electronically by ordering it through the z/VM SDO (System Delivery Offering) using IBM ShopzSeries. For more information about IBM ShopzSeries go to [www.ibm.com/software/ShopzSeries](http://www.ibm.com/software/ShopzSeries).

The electronic envelope contains all the programs and data needed for installation. See section 6.0, “Installation Instructions” on page 13 for more information about how to install the program. Figure 1 describes the DVD. Figure 2 describes the file content of the DVD or envelope.

Figure 1. Basic Material: DVD

<table>
<thead>
<tr>
<th>Feature Number</th>
<th>Medium</th>
<th>Physical Volume</th>
<th>DVD Content</th>
<th>External Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>5802</td>
<td>DVD</td>
<td>1</td>
<td>Tivoli OMEGAMON XE on z/VM and Linux</td>
<td>VOLSER=698A3D</td>
</tr>
</tbody>
</table>

Figure 2 (Page 1 of 2). Program Envelope: File Content

<table>
<thead>
<tr>
<th>File</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Header</td>
</tr>
<tr>
<td>2</td>
<td>Header</td>
</tr>
<tr>
<td>3</td>
<td>Tivoli OMEGAMON XE on z/VM and Linux Header</td>
</tr>
<tr>
<td>4</td>
<td>Tivoli OMEGAMON XE on z/VM and Linux Memo</td>
</tr>
<tr>
<td>5</td>
<td>Tivoli OMEGAMON XE on z/VM and Linux Apply and Exclude lists</td>
</tr>
<tr>
<td>6</td>
<td>Tivoli OMEGAMON XE on z/VM and Linux Partlists</td>
</tr>
<tr>
<td>7</td>
<td>Tivoli OMEGAMON XE on z/VM and Linux Delta files</td>
</tr>
<tr>
<td>8</td>
<td>Tivoli OMEGAMON XE on z/VM and Linux Apply files</td>
</tr>
</tbody>
</table>
2.2 Optional Machine-Readable Material

The following sections identify the basic and optional publications for Tivoli OMEGAMON XE on z/VM and Linux.

2.3 Program Publications

The following sections identify the basic and optional publications for Tivoli OMEGAMON XE on z/VM and Linux.

2.3.1 Basic Program Publications

One copy of the following publications is included when you order the basic materials for Tivoli OMEGAMON XE on z/VM and Linux. For additional copies, contact your IBM representative.

The IBM publications can be ordered separately, for a fee, using the specific publication number through the IBM Publication Center at:

Figure 2 (Page 2 of 2). Program Envelope: File Content

<table>
<thead>
<tr>
<th>File</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Tivoli OMEGAMON XE on z/VM and Linux Base Code</td>
</tr>
<tr>
<td>10</td>
<td>Tivoli OMEGAMON XE on z/VM and Linux Executables</td>
</tr>
<tr>
<td>11</td>
<td>Tivoli OMEGAMON XE on z/VM and Linux Samples</td>
</tr>
</tbody>
</table>

Figure 3. Optional Machine-Readable Material

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Medium</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>LK5T-8609-03</td>
<td>DVD</td>
<td>IBM Tivoli Monitoring Media Kit</td>
</tr>
<tr>
<td>LK5T-8604-00</td>
<td>DVD</td>
<td>IBM Tivoli System Automation for Multiplatforms V3.1.0 for use with IBM Tivoli Monitoring</td>
</tr>
<tr>
<td>LK5T-8611-00</td>
<td>DVD</td>
<td>IBM DB2® for Linux, UNIX and Windows V9.5 Kit for use with IBM Tivoli Monitoring</td>
</tr>
<tr>
<td>LK5T-8612-00</td>
<td>DVD</td>
<td>IBM DB2 for Linux, UNIX and Windows V9.5 Language Support Kit for use with IBM Tivoli Monitoring</td>
</tr>
<tr>
<td>LCD7-0973-06</td>
<td>DVD</td>
<td>IBM Tivoli OMEGAMON XE on z/VM and Linux Language Pack DVD</td>
</tr>
<tr>
<td>LCD7-0982-06</td>
<td>DVD</td>
<td>IBM Tivoli OMEGAMON XE on z/VM and Linux Tivoli Enterprise Portal Agent (includes seeding)</td>
</tr>
<tr>
<td>LCD7-3532-01</td>
<td>DVD</td>
<td>IBM Tivoli OMEGAMON XE on z/VM and Linux Tivoli Enterprise Portal Agent - Encapsulated .iso for use on Linux on zSeries (includes seeding)</td>
</tr>
<tr>
<td>SCD7-0968-11</td>
<td>DVD</td>
<td>IBM Tivoli OMEGAMON XE Documentation DVD</td>
</tr>
<tr>
<td>LCD7-3538-03</td>
<td>CD-ROM</td>
<td>IBM Tivoli Monitoring V6.2.2 Base DVD (Volume 3 - Linux) - Encapsulated .iso for use on Linux on zSeries DVD</td>
</tr>
</tbody>
</table>
www.ibm.com/shop/publications/order

The Publications Center is a world wide central repository for IBM product publications and marketing material. Furthermore, a large number of publications are available online in various file formats (such as, Adobe PDF), which can currently be downloaded free of charge.

2.3.2 Base Program Publications
Figure 5 identifies the program publications for Tivoli OMEGAMON XE on z/VM and Linux.

<table>
<thead>
<tr>
<th>Publication Title</th>
<th>Form Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Tivoli OMEGAMON XE on z/VM and Linux: License Information</td>
<td>GC32-1979-05</td>
</tr>
<tr>
<td>IBM Tivoli OMEGAMON XE on z/VM and Linux: Program Directory</td>
<td>GI11-4135-05</td>
</tr>
<tr>
<td>IBM Tivoli OMEGAMON XE on z/VM and Linux: Documentation</td>
<td>SCD7-0981-11</td>
</tr>
</tbody>
</table>

2.4 Program Source Materials
No program source materials or viewable program listings are provided for Tivoli OMEGAMON XE on z/VM and Linux.

2.5 Publications Useful During Installation
The publications listed in Figure 6 or Figure 7 on page 6 may be useful during the installation of Tivoli OMEGAMON XE on z/VM and Linux.

<table>
<thead>
<tr>
<th>Publication Title</th>
<th>Form Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>z/VM: VMSES/E Introduction and Reference</td>
<td>GC24-6243</td>
</tr>
<tr>
<td>z/VM: Service Guide</td>
<td>GC24-6232</td>
</tr>
<tr>
<td>z/VM: CMS Commands and Utilities Reference</td>
<td>SC24-6166</td>
</tr>
<tr>
<td>z/VM: CMS File Pool Planning, Administration, and Operation</td>
<td>SC24-6167</td>
</tr>
</tbody>
</table>
### Figure 6. Publications Useful During Installation / Service on z/VM version 6

<table>
<thead>
<tr>
<th>Publication Title</th>
<th>Form Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>z/VM: CP Planning and Administration</td>
<td>SC24-6178</td>
</tr>
<tr>
<td>z/VM: Saved Segments Planning and Administration</td>
<td>SC24-6229</td>
</tr>
<tr>
<td>z/VM: Other Components Messages and Codes</td>
<td>GC24-6207</td>
</tr>
<tr>
<td>z/VM: CMS and REXX/VM Messages and Codes</td>
<td>GC24-6161</td>
</tr>
<tr>
<td>z/VM: CP Messages and Codes</td>
<td>GC24-6177</td>
</tr>
<tr>
<td>z/VM: Guide for Automated Installation and Service</td>
<td>GC24-6197</td>
</tr>
<tr>
<td>IBM Tivoli Monitoring Installation and Setup Guide</td>
<td>GC32-9407</td>
</tr>
<tr>
<td>Configuring Tivoli Enterprise Monitoring Server on z/OS</td>
<td>SC32-9463</td>
</tr>
</tbody>
</table>

### Figure 7. Publications Useful During Installation / Service on z/VM version 5

<table>
<thead>
<tr>
<th>Publication Title</th>
<th>Form Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>z/VM: VMSES/E Introduction and Reference</td>
<td>GC24-6130</td>
</tr>
<tr>
<td>z/VM: Service Guide</td>
<td>GC24-6117</td>
</tr>
<tr>
<td>z/VM: CMS Commands and Utilities Reference</td>
<td>SC24-6081</td>
</tr>
<tr>
<td>z/VM: CMS File Pool Planning, Administration, and Operation</td>
<td>SC24-6074</td>
</tr>
<tr>
<td>z/VM: CP Planning and Administration</td>
<td>SC24-6083</td>
</tr>
<tr>
<td>z/VM: Saved Segments Planning and Administration</td>
<td>SC24-6116</td>
</tr>
<tr>
<td>z/VM: Other Components Messages and Codes</td>
<td>GC24-6120</td>
</tr>
<tr>
<td>z/VM: CMS and REXX/VM Messages and Codes</td>
<td>GC24-6118</td>
</tr>
<tr>
<td>z/VM: CP Messages and Codes</td>
<td>GC24-6119</td>
</tr>
<tr>
<td>z/VM: Guide for Automated Installation and Service</td>
<td>GC24-6099</td>
</tr>
<tr>
<td>IBM Tivoli Monitoring Installation and Setup Guide</td>
<td>GC32-9407</td>
</tr>
<tr>
<td>Configuring Tivoli Enterprise Monitoring Server on z/OS</td>
<td>SC32-9463</td>
</tr>
</tbody>
</table>
3.0 Program Support

This section describes the IBM support available for Tivoli OMEGAMON XE on z/VM and Linux.

3.1 Preventive Service Planning

Before installing Tivoli OMEGAMON XE on z/VM and Linux, check with your IBM Support Center or use IBMLink™ (ServiceLink) to see whether there is additional Preventive Service Planning (PSP) information. To obtain this information, specify the following UPGRADE and SUBSET values:

Figure 8. PSP Upgrade and Subset ID

<table>
<thead>
<tr>
<th>Retain</th>
<th>COMPID</th>
<th>Release</th>
<th>Upgrade</th>
<th>Subset</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5698A3600</td>
<td>430</td>
<td>OMXEVM430</td>
<td>OMXEVM/430</td>
</tr>
</tbody>
</table>

3.2 Statement of Support Procedures

Report any difficulties you have using this program to your IBM Support Center. If an APAR is required, the Support Center will tell you where to send any needed documentation.

Figure 9 identifies the component ID (COMPID), Retain® Release and Field Engineering Service Number (FESN) for Tivoli OMEGAMON XE on z/VM and Linux.

Figure 9. Component IDs

<table>
<thead>
<tr>
<th>Retain</th>
<th>COMPID</th>
<th>Release</th>
<th>Component Name</th>
<th>FESN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5698A3600</td>
<td>430</td>
<td>Tivoli OMEGAMON XE on z/VM and Linux</td>
<td>0400010</td>
</tr>
</tbody>
</table>
4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of Tivoli OMEGAMON XE on z/VM and Linux. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs shipped with this product. Information about any cumulative service is also provided.

Note: If you have access to the IBM Problem Solving Database, APARs/PTFs, (for example through the SIS function in ServiceLink or from the IBM zSeries® Support web page) be aware that you need to have your search look in the MVS™ or z/OS® Library or S/390® or zSeries Operating Systems product. The reason Tivoli OMEGAMON XE on z/VM and Linux is in that library is to allow an APAR for it to be shared across different platforms.

4.1 Program Level Information

The following APAR fix against the previous release of Tivoli OMEGAMON XE on z/VM and Linux has been incorporated into this release.

OA20837

4.2 Service Level Information

Check the OMXEVM430 PSP bucket for any additional PTFs that should be installed or any additional install information.

4.3 Cumulative Service

Cumulative service for Tivoli OMEGAMON XE on z/VM and Linux, release 3.0, is available through a monthly corrective service envelope, Expanded Service Option, ESO. You need to specify the product ID, 5698A36D, when ordering the ESO.
5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating Tivoli OMEGAMON XE on z/VM and Linux, Command Processor.

5.1 Hardware Requirements

There are no special hardware requirements for Tivoli OMEGAMON XE on z/VM and Linux, Command Processor.

5.2 Program Considerations

The following sections list the programming considerations for installing and activating Tivoli OMEGAMON XE on z/VM and Linux, Command Processor.

5.2.1 Operating System Requirements

Tivoli OMEGAMON XE on z/VM and Linux supports the following VM operating systems:

- z/VM version 6 release 4
- z/VM version 6 release 3
- z/VM version 6 release 2
- z/VM version 5 release 4

5.2.2 Other Program Product Requirements

The following program products are required to run Tivoli OMEGAMON XE on z/VM and Linux

- Performance Toolkit for VM (FL540 or higher) support required by Tivoli OMEGAMON XE on z/VM and Linux. For information about Performance Toolkit for VM and Tivoli OMEGAMON XE on z/VM and Linux refer to the VM internet site: www.vm.ibm.com/related/perfkit/
- IBM Tivoli OMEGAMON XE on z/VM and Linux Tivoli Enterprise Portal Agent (includes seeding) LCD7-0982-06
- One of the following
  - SUSE Linux Enterprise Server 9 for zSeries, 31-bit or 64-bit mode. Must be SP3 or above.
  - SUSE Linux Enterprise Server 10 for zSeries.
  - RedHat Enterprise Linux version 4 Update 5 or above
5.2.3 Program Installation and Service Considerations

This section describes items that should be considered before you install or service Tivoli OMEGAMON XE on z/VM and Linux, Command Processor.

- VMSES/E is required to install and service this product.

- If multiple users install and maintain licensed products on your system, there may be a problem getting the necessary access to MAINT’s 51D disk. If you find that there is contention for write access to the 51D disk, you can eliminate it by converting the Software Inventory from minidisk to Shared File System (SFS). See the VMSES/E Introduction and Reference manual, section "Changing the Software Inventory to an SFS Directory", for information on how to make this change.

- Customers will no longer install and service Tivoli OMEGAMON XE on z/VM and Linux, Command Processor strictly using the MAINT user ID, but will use a new user ID—5698A36D. This is the IBM suggested user ID name. You are free to change this to any user ID name you wish; however, a PPF override must be created.

  Note: It may be easier to make the above PPF override change during the installation procedure 6.2, “Plan Your Installation For Tivoli OMEGAMON XE on z/VM and Linux, Command Processor” step 6 on page 15, rather than after you have installed this product.

5.3 DASD Storage and User ID Requirements

Figure 10 lists the user IDs, minidisks and default SFS directory names that are used to install and service Tivoli OMEGAMON XE on z/VM and Linux, Command Processor.

Important Installation Notes:

- User ID(s) and minidisks or SFS directories will be defined in 6.2, “Plan Your Installation For Tivoli OMEGAMON XE on z/VM and Linux, Command Processor” on page 14 and are listed here so that you can get an idea of the resources that you will need prior to allocating them.

- 5698A36D and OMEGACMD are default user IDs and can be changed. If you choose to change the name of the installation user IDs you need to create a Product Parameter Override (PPF) to reflect this change. This can be done in 6.2, “Plan Your Installation For Tivoli OMEGAMON XE on z/VM and Linux, Command Processor” step 6 on page 15.

- If you choose to install Tivoli OMEGAMON XE on z/VM and Linux, Command Processor on a common user ID the default minidisk addresses for Tivoli OMEGAMON XE on z/VM and Linux, Command Processor may already be defined. If any of the default minidisks required by Tivoli OMEGAMON XE on z/VM and Linux, Command Processor are already in use you will have to create an override to change the default minidisks for Tivoli OMEGAMON XE on z/VM and Linux, Command Processor so they are unique.
### Table: DASD Storage Requirements for Target Minidisks

<table>
<thead>
<tr>
<th>Minidisk owner (user ID)</th>
<th>Default Address</th>
<th>Storage in Cylinders</th>
<th>SFS 4K Blocks</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>5698A36D</td>
<td>2B2</td>
<td>3390</td>
<td>2</td>
<td>2880</td>
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**Note:** Cylinder values defined in this table are based on a 4K block size. FB-512 block and SFS values are derived from the 3390 cylinder values in this table. The FBA blocks are listed as 1/2K but should be CMS formatted at 1K size.
<table>
<thead>
<tr>
<th>Minidisk owner (user ID)</th>
<th>Default Address</th>
<th>Storage in Cylinders</th>
<th>FB-512 Blocks</th>
<th>SFS 4K Blocks</th>
<th>Usage</th>
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<td>OMEGACMD Totals</td>
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<td>4</td>
<td>5760</td>
<td>720</td>
<td>Total DASD storage required for user ID OMEGACMD. Use the SFS total for OMEGACMD in step 5b on page 20.</td>
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<tr>
<td>All user ID Totals</td>
<td>3390</td>
<td>14</td>
<td>20,160</td>
<td>2520</td>
<td>Total DASD storage required for all Tivoli OMEGAMON XE on z/VM and Linux user IDs</td>
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**Note:** Cylinder values defined in this table are based on a 4K block size. FB-512 block and SFS values are derived from the 3390 cylinder values in this table. The FBA blocks are listed as 1/2K but should be CMS formatted at 1K size.
6.0 Installation Instructions

This chapter describes the installation methods and the step-by-step procedures to install and activate Tivoli OMEGAMON XE on z/VM and Linux, Command Processor.

The step-by-step procedures are in two-column format. The steps to be performed are in bold, large numbers. Commands for these steps are on the left-hand side of the page in bold print. Additional information for a command may exist to the right of the command.

Each step of the installation instructions must be followed. Do not skip any step unless directed to do so.

Throughout these instructions, the use of IBM-supplied default minidisk addresses and user IDs is assumed. If you use different user IDs, minidisk addresses, or SFS directories to install Tivoli OMEGAMON XE on z/VM and Linux, Command Processor, adapt these instructions as needed for your environment.

Note

The sample console output presented throughout these instructions was produced on a z/VM V5.4 system. If you're installing Tivoli OMEGAMON XE on z/VM and Linux, Command Processor on a different z/VM system, the results obtained for some commands may differ from those depicted here.

6.1 VMSES/E Installation Process Overview

The following is a brief description of the main steps in installing Tivoli OMEGAMON XE on z/VM and Linux, Command Processor using VMSES/E.

- **Plan Your Installation**
  Use the VMFINS command to load several VMSES/E files from the product tape and to obtain Tivoli OMEGAMON XE on z/VM and Linux, Command Processor resource requirements.

- **Allocate Resources**
  The information obtained from the previous step is used to allocate the appropriate minidisks (or SFS directories) and user IDs needed to install and use Tivoli OMEGAMON XE on z/VM and Linux, Command Processor.

- **Install the Tivoli OMEGAMON XE on z/VM and Linux, Command Processor Product**
  Use the VMFINS command to load the Tivoli OMEGAMON XE on z/VM and Linux product files from tape to the test BUILD and BASE minidisks/directories. VMFINS is then used to update the VM SYSBLDS file used by VMSES/E for software inventory management.

- **Place Tivoli OMEGAMON XE on z/VM and Linux, Command Processor Files into Production**
Once the product files have been tailored and the operation of Tivoli OMEGAMON XE on z/VM and Linux, Command Processor is satisfactory, the product files are copied from the test BUILD disk(s) to production BUILD disk(s).

- Perform Post-installation Tasks
  Information about file tailoring and initial activation of the program is presented in 6.6, “Post-Installation Considerations (optional)” on page 26.

For a complete description of all VMSES/E installation options refer to VMSES/E Introduction and Reference.

### 6.2 Plan Your Installation For Tivoli OMEGAMON XE on z/VM and Linux, Command Processor

The VMFINS command will be used to plan the installation. This section has 2 main steps that will:

- load the first tape file, containing installation files
- generate a `PLANINFO` file listing
  - all user ID and mdisk/SFS directory requirements
  - required products

To obtain planning information for your environment:

1. Log on as the Tivoli OMEGAMON XE on z/VM and Linux installation planner. This user ID can be any ID that has read access to MAINT’s 5E5 minidisk and write access to the MAINT 51D minidisk.

2. Mount the Tivoli OMEGAMON XE on z/VM and Linux installation tape and attach it to the user ID at virtual address 181. The VMFINS EXEC requires the tape drive to be at virtual address 181. If you have a product envelope SERVLINK file make sure it is available on the A-disk or any work disk accessed as file mode C.

3. Establish read access to the VMSES/E code.

   ```
   link MAINT 5e5 5e5 rr
   access 5e5 b
   ```
   The 5E5 disk contains the VMSES/E code.

4. Establish write access to the Software Inventory disk.

   ```
   link MAINT 51d 51d mr
   access 51d d
   ```
   The MAINT 51D disk is where the VMSES/E system-level Software Inventory and other dependent files reside.
Note: If another user already has the MAINT 51D minidisk linked in write mode (R/W), you will only obtain read access (R/O) to this minidisk. If this occurs, you will need to have that user re-link the 51D in read-only mode (RR), and then re-issue the above LINK and ACCESS commands. Do not continue with these procedures until a R/W link is established to the 51D minidisk.

5 Load the Tivoli OMEGAMON XE on z/VM and Linux product control files to the 51D minidisk. The VMFINS INFO command will perform the following:

- load Memo-to-Users
- load various product control files, including the Product Parameter File (PPF) and the PRODPART files
- create VMFINS PRODLIST on your A-disk. The VMFINS PRODLIST contains a list of products on the installation tape.

a If installing from tape

```
vmfins install info (nomemo)
```

The NOMEMO option will load the memos from the tape but will not issue a prompt to send them to the system printer. Specify the MEMO option if you want to be prompted for printing the memo.

b If installing from a product envelope file

```
vmfins install info (nomemo env envfilename)
```

`envfilename` is the file name of the product envelope file. The file type must be SERVLINK.

The NOMEMO option will load the memos from the tape but will not issue a prompt to send them to the system printer. Specify the MEMO option if you want to be prompted for printing the memo.

This command will perform the following:

```
VMFINS2760I VMFINS processing started
VMFINS1909I VMFINS PRODLIST created on your A-disk
VMFINS2760I VMFINS processing completed successfully
Ready;
```

6 Obtain resource planning information for Tivoli OMEGAMON XE on z/VM and Linux, Command Processor.
Notes:

a. The product will **not** be loaded by the VMFINS command at this time.

b. If you change the PPF name, a default user ID, or other parameters via a PPF override, you will need to use your changed values instead of those indicated (when appropriate), throughout the rest of the installation instructions, as well as the instructions for servicing Tivoli OMEGAMON XE on z/VM and Linux, Command Processor. For example, you will need to specify your PPF override file name instead of 5698A36D for certain VMSES/E commands.

c. If you're not familiar with creating PPF overrides using VMFINS, you should review the "Using the Make Override Panel" section in Chapter 3 of the *VMSES/E Introduction and Reference* before you continue. This same chapter has information about changing the VMSYS file pool name, if you need to.

**a** If installing from tape

```
vmfins install ppf 5698A36D {OMCMDPRC | OMCMDPRCSFS} (plan nomemo)
```

Use **OMCMDPRC** for installing on minidisks or **OMCMDPRCSFS** for installing in Shared File System directories.

The PLAN option indicates that VMFINS will perform requisite checking, plan system resources, and provide an opportunity to override the defaults in the product parameter file.

You can override any of the following:

- the name of the product parameter file
- the default user IDs
- minidisk/directory definitions

**b** If installing from product *envelope* file

```
vmfins install ppf 5698A36D {OMCMDPRC | OMCMDPRCSFS} (plan nomemo env envfilename)
```
Use **OMCMDPRC** for installing on minidisks or **OMCMDPRCSFS** for installing in Shared File System directories.

*envfilename* is the file name for the product envelope file. The file type must be SERVLINK.

The PLAN option indicates that VMFINS will perform requisite checking, plan system resources, and provide an opportunity to override the defaults in the product parameter file.

**You can override any of the following:**

- the name of the product parameter file
- the default user IDs
- minidisk/directory definitions

---

**VMFINS2767I** Reading VMFINS DEFAULTS B for additional options
**VMFINS2760I** VMFINS processing started
**VMFINS2601R** Do you want to create an override for :PPF 5698A36D OMCMDPRC :PRODID 5698A36D%OMCMDPRC?
Enter 0 (No), 1 (Yes) or 2 (Exit)

0
**VMFINS2603I** Processing product :PPF 5698A36D OMCMDPRC :PRODID 5698A36D%OMCMDPRC
**VMFREQ1909I** 5698A36D PLANINFO created on your A-disk
**VMFREQ2805I** Product :PPF 5698A36D OMCMDPRC :PRODID 5698A36D%OMCMDPRC has passed requisite checking
**VMFINT2603I** Planning for the installation of product :PPF 5698A36D OMCMDPRC :PRODID 5698A36D%OMCMDPRC
**VMFRMT2760I** VMFRMT processing started
**VMFRMT2760I** VMFRMT processing completed successfully
**VMFINS2760I** VMFINS processing completed successfully

---

7 Review the install message log ($VMFINS $MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate *z/VM: System Messages and Codes*, or use on-line HELP.

*vmfview install*
6.3 Allocate Resources for Installing Tivoli OMEGAMON XE on z/VM and Linux, Command Processor

Use the planning information in the 5698A36D PLANINFO file, created in the PLAN step, to:

- Create the 5698A36D and OMEGACMD user directories for minidisk install
  OR
- Create the 5698A36D and OMEGACMD user directories for SFS install

6.3.1 Installing Tivoli OMEGAMON XE on z/VM and Linux on Minidisk

1. Obtain the user directory from the 5698A36D PLANINFO file.
   Note: The user directory entry is located in the resource section of the PLANINFO file, at the bottom; these entries will contain all of the links and privilege classes necessary for the 5698A36D and OMEGACMD user IDs. Use the directory entries found in PLANINFO as a model as input to your system directory.

2. Add the MDISK statements to the directory entry for 5698A36D user ID. Use Figure 10 on page 10 to obtain the minidisk requirements.

3. Add the MDISK statements to the directory entry for OMEGACMD user ID. Use Figure 10 on page 10 to obtain the minidisk requirements.

   Notes:
   a. You should define the Production Build disk, which is owned by the OMEGACMD, to be accessed as read only for the OMEGACMD userid. It will be linked in write mode by the 5698A36D userid during installation. The MDISK statement should be
      MDISK 301 3390 xxx 002 volser RR readpw writepw multpw
   b. The 5698A36D user will need to be able to obtain WRITE access to the OMEGACMD 191 disk. In order to allow this you will need to define a multiple password, such as MULTIPLE, on the MDISK statement for the OMEGACMD 191 disk.

4. Add the 5698A36D and OMEGACMD directory entries to the system directory. Change the passwords for 5698A36D and OMEGACMD from xxxx to valid passwords, in accordance with your security guidelines.

5. Place the new directory on-line using the DIRECTXA command or an equivalent CP directory maintenance method (such as, DIRMAINT).
6.3.2 Installing Tivoli OMEGAMON XE on z/VM and Linux in SFS Directories

1 Obtain the user directory from the 5698A36D PLANINFO file.

**Note:** The user directory entry is located in the resource section of the PLANINFO file, at the bottom; these entries will contain all of the links and privilege classes necessary for the 5698A36D and OMEGACMD user IDs. Use the directory entries found in PLANINFO as a model as input to your system directory.

2 Add the 5698A36D and OMEGACMD directory entries to the system directory. Change the passwords for 5698A36D and OMEGACMD from xxxxxx to valid passwords, in accordance with your security guidelines.

3 If you intend to use an SFS directory as the work space for the 5698A36D or OMEGACMD user IDs (to be used instead of a 191 minidisk), include the following IPL control statement in the 5698A36D and OMEGACMD directory entry:

   ```
   IPL CMS PARM FILEPOOL VMSYS
   ```

   This will cause CMS to automatically access the user IDs top directory as file mode A.

4 Place the new directory on-line using the DIRECTXA command or an equivalent CP directory maintenance method (such as, DIRMAINT).

5 An SFS installation will also require the following steps:

   **a** Determine the number of 4K blocks that are required for SFS directories by adding up the 4K blocks required for each SFS directory you plan to use.

   If you intend to use all of the default Tivoli OMEGAMON XE on z/VM and Linux, Command Processor SFS directories, the 4K block requirements for the directories are summarized in Figure 10 on page 10.

   This information will be used when enrolling the user IDs 5698A36D and OMEGACMD in the VMSYS filepool.
b Enroll users 5698A36D and OMEGACMD in the VMSYS filepool using the ENROLL USER commands:

ENROLL USER 5698A36D VMSYS: (BLOCKS blocks
ENROLL USER OMEGACMD VMSYS: (BLOCKS blocks

where blocks is the number of 4K blocks that you calculated in the previous step.

Note: This must be done from a user ID that is an administrator for VMSYS: filepool.

c Determine if there are enough blocks available in the filepool to install Tivoli OMEGAMON XE on z/VM and Linux. This information can be obtained from the QUERY FILEPOOL STORGRP command. If the number of blocks free is smaller than the total 4K blocks needed to install Tivoli OMEGAMON XE on z/VM and Linux you will need to add space to the filepool. See the CMS File Pool Planning, Administration, and Operation manual for information on adding space to a filepool.

d Create the necessary subdirectories listed in the 5698A36D PLANINFO file using the CREATE DIRECTORY command.

set filepool vmsys:
create directory dirid

dirid is the name of the SFS directory you’re creating. An example of the create command is:

create directory vmsys:5698A36D.omcmdprc
create directory vmsys:5698A36D.omcmdprc.object :

If necessary, see the CMS Command Reference manual for more information about the CREATE DIRECTORY command.

e Give the 5698A36D virtual machine access to the Command Processor server virtual machine, OMEGACMD, A-disk and production code directories.

grant auth vmsys:OMEGACMD. to 5698A36D (write newwrite
grant auth vmsys:OMEGACMD.OMCMDPRC. to 5698A36D (write newwrite
grant auth vmsys:OMEGACMD.OMCMDPRC.BUILDPROD to 5698A36D (write newwrite

If necessary, see the CMS Command Reference manual for more information about the GRANT AUTHORITY command.

A complete list of default Tivoli OMEGAMON XE on z/VM and Linux, Command Processor SFS directories is provided in Figure 10 on page 10.
6.4 Install Tivoli OMEGAMON XE on z/VM and Linux, Command Processor

The `ppfname` used throughout these installation instructions is **5698A36D**, which assumes you are using the PPF supplied by IBM for Tivoli OMEGAMON XE on z/VM and Linux, Command Processor. If you have your own PPF override file for Tivoli OMEGAMON XE on z/VM and Linux, Command Processor, you should use your file's `ppfname` instead of **5698A36D**. The `ppfname` you use should be used throughout the rest of this procedure.

1. Logon to the installation user ID **5698A36D**.

2. Create a PROFILE EXEC that will contain the ACCESS commands for MAINT 5E5 and 51D minidisks.

   ```
   xedit profile exec a
   ===> input /**/
   ===> input 'access 5e5 b'
   ===> input 'access 51d d'
   ===> file
   ```

   If either 5E5 or 51D is in a shared file system (SFS) then substitute your SFS directory name in the access command.

3. Run the profile to access MAINT's minidisks.

   ```
   profile
   ```

4. If the Software Inventory disk (51D) was accessed R/O (read only) then establish write access to the Software Inventory disk.

   **Note:** If the MAINT 51D minidisk was accessed R/O, you will need to have the user who has it linked R/W link it as R/O. You then can issue the following commands to obtain R/W access to it.

   ```
   link MAINT 51d 51d mr
   access 51d d
   ```

5. Have the Tivoli OMEGAMON XE on z/VM and Linux, Command Processor installation tape mounted and attached to 5698A36D at virtual address 181. The VMFINS EXEC requires the tape drive to be at virtual address 181. If you have a product envelope SERVLINK file make sure it is available on the A-disk or any work disk accessed as file mode C.

6. Install Tivoli OMEGAMON XE on z/VM and Linux, Command Processor.

   **Note:**
If you have already created a PPF override file, you should specify your override file name, in place of the default PPF name (5698A36D), after the PPF keyword for the following VMFINS command.

You may be prompted for additional information during VMFINS INSTALL processing depending on your installation environment. If you're unsure how to respond to a prompt, refer to the "Installing Products with VMFINS" and "Install Scenarios" chapters in the VMSES/E Introduction and Reference to decide how to proceed.

a If installing from tape

```shell
vmfins install ppf 5698A36D {OMCMDPRC | OMCMDPRCSFS} (nomemo nolink)
```

Use OMCMDPRC for installing on minidisks or OMCMDPRCSFS for installing in Shared File System directories.

The NOLINK option indicates that you don't want VMFINS to link to the appropriate minidisks, only access them if not accessed.

b If installing from a product envelope file

```shell
evfm install ppf 5698A36D {OMCMDPRC | OMCMDPRCSFS} (nomemo nolink env envfilename)
```

Use OMCMDPRC for installing on minidisks or OMCMDPRCSFS for installing in Shared File System directories.

`envfilename` is the file name of the product envelope file. The filetype must be SERVLINK.

The NOLINK option indicates that you don't want VMFINS to link to the appropriate minidisks, only access them if not accessed.
Review the install message log ($VMFINS $MSGLOG). If necessary, correct any problems before going on. For information about handling specific error
messages, see the appropriate z/VM: System Messages and Codes, or use on-line HELP.

vmfview install

6.4.1 Update Build Status Table for Tivoli OMEGAMON XE on z/VM and Linux

1 Update the VM SYSBLDS software inventory file for Tivoli OMEGAMON XE on z/VM and Linux.

vmfins build ppf 5698A36D {OMCMDPRC | OMCMDPRCSFS} (serviced nolink)

Use OCMCMDPRC for installing on minidisks or OCMCMDPRCSFS for installing in Shared File System directories.

The SERVICED option will build any parts that were not built on the installation tape (if any) and update the Software Inventory build status table showing that the product 5698A36D has been built.

2 Review the install message log ($VMFINS $MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate z/VM: System Messages and Codes, or use on-line HELP.

vmfview install

6.5 Place Tivoli OMEGAMON XE on z/VM and Linux Into Production

6.5.1 Copy Tivoli OMEGAMON XE on z/VM and Linux Files Into Production

1 Logon to 5698A36D and move the Tivoli OMEGAMON XE on z/VM and Linux executable code to the production disk.

   a If installing using minidisks
The VMFCOPY command will update the VMSES PARTCAT file on the production 301 disk.

If installing using Shared File System

The VMFCOPY command will update the VMSES PARTCAT file on the production build directory.

Link to the OMEGACMD A-disk and move the sample files from the local sample disk to the OMEGACMD A-disk.

If installing using minidisks

The VMFCOPY command will update the VMSES PARTCAT file on the OMEGACMD A-disk. If the link command fails, it is most likely because the OMEGACMD virtual machine is logged on. In order to complete this step the OMEGACMD virtual machine must be logged off, or have its 191 disk detached.

If installing using Shared File System

The VMFCOPY command will update the VMSES PARTCAT file on the OMEGACMD directory.
6.6 Post-Installation Considerations (optional)

Now that the Tivoli OMEGAMON XE on z/VM and Linux has been installed, you should use the IBM Tivoli OMEGAMON XE on z/VM and Linux: Planning and Configuration Guide to configure it for use.
7.0 Service Instructions

This section of the Program Directory contains the procedure to install CORrective service to Tivoli OMEGAMON XE on z/VM and Linux, Command Processor. VMSES/E is used to install service for Tivoli OMEGAMON XE on z/VM and Linux, Command Processor.

To become more familiar with service using VMSES/E, you should read the introductory chapters in the VMSES/E Introduction and Reference. This manual also contains the command syntax for the VMSES/E commands listed in the procedure.

Note: Each step of the servicing instructions must be followed. Do not skip any step unless directed to do so. All instructions showing accessing of disks assume the use of default minidisk addresses. If different minidisk addresses are used, or if using a shared file system, change the instructions appropriately.

7.1 VMSES/E Service Process Overview

The following is a brief description of the main steps in servicing Tivoli OMEGAMON XE on z/VM and Linux, Command Processor using VMSES/E.

- Setup Environment
  Access the software inventory disk. Use VMFSETUP command to establish the correct minidisk access order.

- Merge Service
  Use the VMFMRDSK command to clear the alternate apply disk before receiving new service. This allows you to remove the new service if a serious problem is found.

- Receive Service
  The VMFREC command receives service from the delivery media and places it on the Delta disk.

- Apply Service
  The VMFAPPLY command updates the version vector table (VVT), which identifies the service level of all the serviced parts. In addition, AUX files are generated from the VVT for parts that require them.

- Reapply Local Service (if applicable)
  All local service (mods) must be entered into the software inventory to allow VMSES/E to track the changes and build them into the system. Refer to Chapter 7 in the Service Guide for this procedure.

- Build New Levels
  The build task generates the serviced level of an object and places the new object on a test BUILD disk.

- Place the New Service into Production
Once the service is satisfactorily tested it should be put into production by copying the new service to the production disk, re-saving the NSS (Named Saved System) or DCSS (Discontiguous Saved Segments), etc.

7.2 Servicing Tivoli OMEGAMON XE on z/VM and Linux, Command Processor

7.2.1 Prepare to Receive Service

Electronic Service (envelope file)

If you have received the service electronically or on DVD, follow the appropriate instructions to retrieve and decompress the envelope files to your A-disk. The decompression is currently done by using the DETERSE MODULE (shipped with VMSES/E).

The documentation envelope and the service envelope files must have a file type of SERVLINK. Make note of the file names that you are using as you will need to enter them in place of the variable envfilename in the VMFREC commands that follow.

The ppfname used throughout these servicing instructions is 5698A36D, which assumes you are using the PPF supplied by IBM for Tivoli OMEGAMON XE on z/VM and Linux, Command Processor. If you have your own PPF override file for Tivoli OMEGAMON XE on z/VM and Linux, Command Processor, you should use your file's ppfname instead of 5698A36D. The ppfname you use should be used throughout the rest of this procedure, unless otherwise stated differently.

1 Logon to Tivoli OMEGAMON XE on z/VM and Linux, Command Processor service user ID 5698A36D

2 If the Software Inventory disk (51D) was accessed R/O (read only) then establish write access to the Software Inventory disk.

   Note: If the MAINT 51D minidisk was accessed R/O, you will need to have the user that has it accessed R/W link it R/O. You then can issue the following commands to obtain R/W access to it.

   link MAINT 51d 51d mr
   access 51d d

   The 51D minidisk is where the VMSES/E Software Inventory files and other product dependent files reside.

3 Have the Tivoli OMEGAMON XE on z/VM and Linux, Command Processor CORrective service tape mounted and attached to 5698A36D. If you have a corrective service envelope files (SERVLINK) then they need to be available on the A-disk or any work disk accessed as file mode C.
4 Receive the documentation.

   a If receiving the service from tape

   vmfrec info

   The INFO option loads the documentation (including the product service memo) to the 191 disk and displays a list of products on the tape.

   b If receiving the service from an envelope file

   vmfrec info (env envfilename)

   envfilename is the file name of the documentation envelope (SERVLINK) file.

   The INFO option loads the documentation (including the product service memo) to the 191 disk and displays a list of products in the envelope file.

5 Check the receive message log ($VMFREC $MSGLOG) for warning and error messages.

   vmfview receive

   Also make note of which products and components have service. To do this, use the PF5 key to show all status messages which identify the products with service.

6 Read the product memo (5698A36D MEMO) before going on.

7 Setup the correct product access order.

   vmfsetup 5698A36D {OMCMDPRC | OMCMDPRCSFS}

   Use OMCMDPRC for installing on minidisks or OMCMDPRCSFS for installing in Shared File System directories.

8 Merge previously applied service to ensure that you have a clean alternate APPLY disk for new service.

   vmfmrdsk 5698A36D {OMCMDPRC | OMCMDPRCSFS} apply
Use `OMCMDPRC` for installing on minidisks or `OMCMDPRCSFS` for installing in Shared File System directories.

This command clears the alternate APPLY disk.

9 Review the merge message log (`$VMFMRD $MSGLOG`). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate `z/VM: System Messages and Codes`, or use on-line HELP.

`vmfview mrd`

### 7.2.2 Receive the Service

**Note:** If you are installing multiple service envelope files, you can receive all of the service for this prodid before applying and building it.

For **each** service electronic envelope you want to receive, do the following:

1 Receive the service.

   a If receiving the service from tape

   `vmfrec pff 5698A36D {OMCMDPRC | OMCMDPRCSFS}`

   Use `OMCMDPRC` for installing on minidisks or `OMCMDPRCSFS` for installing in Shared File System directories.

   This command receives service from your service tape. All new service is loaded to the DELTA disk.

   b If receiving the service from the PTF envelope file

   `vmfrec pff 5698A36D {OMCMDPRC | OMCMDPRCSFS} (env envfilename)`

   Use `OMCMDPRC` for installing on minidisks or `OMCMDPRCSFS` for installing in Shared File System directories.

   `envfilename` is the file name of the service (PTF) envelope (SERVLINK) file.

   This command receives service from your service envelope. All new service is loaded to the DELTA disk.
2 Review the receive message log ($VMFREC $MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate z/VM: System Messages and Codes, or use on-line HELP.

vmfview receive

7.2.3 Apply the Service

1 Apply the new service.

vmfapply ppf 5698A36D {OMCMDPRC | OMCMDPRCSFS}

   Use OMCMDPRC for installing on minidisks or OMCMDPRCSFS for installing in Shared File System directories.

   This command applies the service that you just received. The version vector table (VVT) is updated with all serviced parts and all necessary AUX files are generated on the alternate APPLY disk.

   You must review the VMFAPPLY message log if you receive a return code (RC) of a 4, as this may indicate that you have local modifications that need to be reworked.

2 Review the apply message log ($VMFAPP $MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate z/VM: System Messages and Codes, or use on-line HELP.

vmfview apply
Note

If you get the message VMFAPP2120W then re-apply any local modifications before building the new Tivoli OMEGAMON XE on z/VM and Linux. Refer to chapter 7 in the Service Guide.
Follow the steps that are applicable to your local modification.

The following substitutions need to be made:

- **zvm** should be 5698A36D
- **compname** should be OMCMDPRC or OMCMDPRCSFS (minidisk or SFS)
- **appid** should be 5698A36D
- **fm-local** should be the fm of 2C2
- **fm-applyalt** should be the fm of 2A6
- **outmode localmod** should be **outmode localsam**

If you have changed any of the installation parameters through a PPF override, you need to substitute your changed values where applicable.

Keep in mind that when you get to the "Return to the Appropriate Section to Build Remaining Objects" or "Rebuild Remaining Objects" step in the VM Service Guide, you should return back to this program directory at 7.2.4, "Update the Build Status Table" on page 32.

7.2.4 Update the Build Status Table

1. Update the Build Status Table with serviced parts.

```bash
tivoli vmfbld ppf 5698A36D {OMCMDPRC | OMCMDPRCSFS} (status

Use OMCMDPRC for installing on minidisks or OMCMDPRCSFS for installing in Shared File System directories.

This command updates the Build Status Table.
Note

If the $PPF files have been serviced you will get the following prompt:

VMFBLD2185R The following source product parameter files have been serviced:
VMFBLD2185R 5698A36D $PPF
VMFBLD2185R When source product parameter files are serviced, all product parameter files built from them must be recompiled using VMFPPF before VMFBLD can be run.
VMFBLD2185R Enter zero (0) to have the latest level of the source product parameter files copied to your A-disk and exit VMFBLD so you can recompile your product parameter files with VMFPPF.
Enter one (1) to continue only if you have already recompiled your product parameter files with VMFPPF.

0  Enter a 0 and complete the following steps before you continue.

VMFBLD2188I Building 5698A36D $PPF
  on 191 (A) from level $PFnnnnn

vmfppf 5698A36D *

Note: If you have created your own PPF override then use your PPF name instead of 5698A36D.

copyfile 5698A36D $PPF a = = d (olddate replace
erase 5698A36D $PPF a

Note: Do not use your own PPF name in place of 5698A36D for the COPYFILE and ERASE commands.

vmfbld ppf 5698A36D {OMCMDPRC | OMCMDPRCSFS} (status

1  Re-issue VMFBLD to complete updating the build status table. If you have your own PPF name then you should use it on the VMFBLD command.

Use OMCMDPRC for installing on minidisks or OMCMDPRCSFS for installing in Shared File System directories. When you receive the prompt that was previously displayed, enter a 1 to continue.
2 Use VMFVIEW to review the build status messages, and see what objects need to be built.

vmfview build

7.2.5 Build Serviced Objects

1 Rebuild Tivoli OMEGAMON XE on z/VM and Linux serviced parts.

vmfbld pff 5698A36D {OMCMDPRC | OMCMDPRCSFS} (serviced)

Use OMCMDPRC for installing on minidisks or OMCMDPRCSFS for installing in Shared File System directories.

Note: If your software inventory disk (51D) is not owned by the MAINT user ID then make sure the VMSESE PROFILE reflects the correct owning user ID.

2 Review the build message log ($VMFBLD $MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate z/VM: System Messages and Codes, or use on-line HELP.

vmfview build

7.3 Place the New Tivoli OMEGAMON XE on z/VM and Linux Service Into Production

7.3.1 Copy the New Tivoli OMEGAMON XE on z/VM and Linux Serviced Files Into Production

1 Logon to 5698A36D and move the Tivoli OMEGAMON XE on z/VM and Linux serviced executable code to the production disk.

a If installing using minidisks

access 300 e
access 301 f
vmfcopy * * e = = f2 (prodid 5698A36D%OMCMDPRC olddate replace)

The VMFCOPY command will update the VMSES PARTCAT file on the production 301 disk.
If installing using Shared File System

access 5698A36D.OMCMDPRC.BUILDTEST e
access OMEGACMD.OMCMDPRC.BUILDPROD f (forcerw
vmfcopy * * e = = f2 (prodid 5698A36D%OMCMDPRC olddate replace

The VMFCOPY command will update the VMSES
PARTCAT file on the production build directory.

2. If any files on the SAMPLE (2C2) disk were serviced you will need to
compare the new serviced version to your copy on the OMEGACMD A-disk.
You would then need to update your copy appropriately.

You have finished servicing Tivoli OMEGAMON XE on z/VM and
Linux, Command Processor.
Appendix A. Create Product Parameter File (PPF) Override

This section provides information to help you create a product parameter file (PPF) override. The example used in this section shows how to change the shared file system (SFS) file pool where Tivoli OMEGAMON XE on z/VM and Linux files reside.

**Note:** Do not modify the product supplied 5698A36D $PPF or 5698A36D PPF files to change the file pool name or any other installation parameters. If the 5698A36D $PPF file is serviced, the existing $PPF file will be replaced, and any changes to that file will be lost; by creating your own $PPF override, your updates will be preserved.

The following process describes changing the default file pool name, VMSYS, to MYPOOL1:

1. Create a new $PPF override file, or edit the override file created via the 'Make Override Panel' function.

   ```bash
   xedit overname $PPF fm2
   ```

   *overname* is the PPF override file name (such as 'myomcmdp') that you want to use.

   *fm* is an appropriate file mode. If you create this file yourself, specify a file mode of A.

   If you modify an existing override file, specify a file mode of A or D, based on where the file currently resides (A being the file mode of a R/W 191 minidisk, or equivalent; D, that of the MAINT 51D minidisk).
Create (or modify as required) the Variable Declarations (:DCL.) section for the omcmdprcsfs override area, so that it resembles the :DCL. section shown below. This override will be used for the installation of Tivoli OMEGAMON XE on z/VM and Linux. Modifications needed are denoted in bold print.

```plaintext
:OVERLST. OMCMDPRCSFS
  *
  * =============== OMEGAMON Override Section for Initial Installation (Using SFS Directories) =============== *
  * =============== OMCMDPRCSFS 5698A36D =============== *
:OMCMDPRCSFS. OMCMDPRCSFS 5698A36D
:DCL. UPDATE
&OMEG191 DIR MYPOOL1:OMEGACMD.
&INST191 DIR MYPOOL1:5698A36D.
&BASE   DIR MYPOOL1:5698A36D.OMCMDPRC.OBJECT
&LOCALSAM DIR MYPOOL1:5698A36D.OMCMDPRC.SAMPLE
&DELTA  DIR MYPOOL1:5698A36D.OMCMDPRC.DELTA
&BUILD0  DIR MYPOOL1:5698A36D.OMCMDPRC.BUILDTEST
&BUILD1  DIR MYPOOL1:OMEGACMD.OMCMDPRC.BUILDPROM
&APPLY2  DIR MYPOOL1:5698A36D.OMCMDPRC.APPLYALT
&APPLY1  DIR MYPOOL1:5698A36D.OMCMDPRC.APPLYPROD
:EDCL.
:END.
```

(This override will replace the :DCL. section of the omcmdprcsfs override area of the 5698A36D $PPF file.)

If your $PPF override file was created at file mode A, copy it to file mode D—the Software Inventory minidisk (MAINT 51D). Then erase it from file mode A.

file
copyfile overname $PPF fm = = d (olddate
erase overname $PPF fm

Compile your changes to create the usable overname PPF file.

vmfppf overname OMCMDPRCSFS

where overname is the file name of your $PPF override file.

Now that the overname PPF file has been created, you should specify overname instead of 5698A36D as the PPF name to be used for those VMSES/E commands that require a PPF name.

Appendix A. Create Product Parameter File (PPF) Override 37
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<table>
<thead>
<tr>
<th>very satisfied</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>not applicable</th>
<th>N</th>
</tr>
</thead>
</table>

Satisfaction

Ease of product installation 1 2 3 4 5 N
Time required to install the product 1 2 3 4 5 N
Contents of program directory 1 2 3 4 5 N
Readability and organization of program directory tasks 1 2 3 4 5 N
Necessity of all installation tasks 1 2 3 4 5 N
Accuracy of the definition of the installation tasks 1 2 3 4 5 N
Technical level of the installation tasks 1 2 3 4 5 N
Installation verification procedure 1 2 3 4 5 N
Ease of customizing the product 1 2 3 4 5 N
Ease of migrating the product from a previous release 1 2 3 4 5 N
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Ease of installing service 1 2 3 4 5 N

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  □ No

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  □ Yes
  How many years of experience do they have? __________
  □ No

• How long did it take to install this product? ________________

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