



**Program Directory for
IBM Tivoli OMEGAMON for z/OS Management Suite**

V5.4.1

Program Number 5698-TOM

for Use with
z/OS

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Note

Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 56.

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1.0 Introduction

This program directory is intended for system programmers who are responsible for program installation and maintenance. It contains information about the material and procedures associated with the installation of IBM Tivoli OMEGAMON for z/OS Management Suite. This publication refers to IBM Tivoli OMEGAMON for z/OS Management Suite as Tivoli OMEGAMON for z/OS Management Suite.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 6 identifies the basic program materials and documentation for Tivoli OMEGAMON for z/OS Management Suite.
- 3.0, “Program Support” on page 9 describes the IBM support available for Tivoli OMEGAMON for z/OS Management Suite.
- 4.0, “Program and Service Level Information” on page 12 lists the APARs (program level) and PTFs (service level) that have been incorporated into Tivoli OMEGAMON for z/OS Management Suite.
- 5.0, “Installation Requirements and Considerations” on page 14 identifies the resources and considerations that are required for installing and using Tivoli OMEGAMON for z/OS Management Suite.
- 6.0, “Installation Instructions” on page 36 provides detailed installation instructions for Tivoli OMEGAMON for z/OS Management Suite. It also describes the procedures for activating the functions of Tivoli OMEGAMON for z/OS Management Suite, or refers to appropriate publications.

Before installing Tivoli OMEGAMON for z/OS Management Suite, read the *CBPDO Memo To Users* and the *CBPDO Memo To Users Extension* that are supplied with this program in softcopy format and this program directory; then keep them for future reference. Section 3.2, “Preventive Service Planning” on page 9 tells you how to find any updates to the information and procedures in this program directory.

Tivoli OMEGAMON for z/OS Management Suite is supplied in a Custom-Built Product Delivery Offering (CBPDO, 5751-CS3). The program directory that is provided in softcopy format on the CBPDO tape is identical to the hardcopy format if one was included with your order. All service and HOLDDATA for Tivoli OMEGAMON for z/OS Management Suite are included on the CBPDO tape.

Do not use this program directory if you install Tivoli OMEGAMON for z/OS Management Suite with a SystemPac or ServerPac. When you use one of those offerings, use the jobs and documentation supplied with the offering. The offering will point you to specific sections of this program directory as needed.

1.1 Tivoli OMEGAMON for z/OS Management Suite Description

The Tivoli OMEGAMON for z/OS Management Suite offering that you purchased includes a suite of products you can use to monitor your System z environments. This offering simplifies ordering of a Tivoli monitoring portfolio and provides a single product package to solve some of your monitoring needs. Rather than having to predetermine exactly which IBM Tivoli monitoring technologies you want to use, this offering license allows you to use any of the included products.

IBM Tivoli introduces significant updates to IBM Tivoli OMEGAMON Performance Monitors for key System z environments designed to run on IBM Tivoli Monitoring V6.3.0 Fix Pack 2 or higher and deliver enhanced capabilities designed to:

- Improve problem resolution efficiency by requiring fewer steps to isolate root cause performance impact in real time, therefore providing higher availability.
- Improve visibility, control, and automation with the more comprehensive 3270-based user interface (3270UI) capable of viewing the entire enterprise-wide environment from a single 3270 screen.
- Reduce the time required for installation, configuration, and maintenance by utilizing enhanced IBM Tivoli Monitoring and PARMGEN configuration tool functions. If you previously configured and deployed this product using the ICAT Configuration Tool, you must migrate and upgrade your existing RTE from ICAT to PARMGEN mode (at APAR OA50912 level, HKCI310 PTF UA82508) since the ICAT Configuration Tool support was removed starting in the OMEGAMON Family V530 releases.
- Enhancements to further increase the usability and functionality of the enhanced 3270 user interface (3270UI).
 - Status tree display for enhanced 3270UI (requires OMEGAMON Dashboard Edition).
 - Supports near term history for the enhanced 3270 user interface workspaces.
 - Support for embedded data, to bring relevant data from multiple products into a single enhanced 3270UI workspace.
 - Transaction file and database details.
 - Response Time and Bottleneck Analysis
 - SQL text on enhanced 3270UI
 - Active situation workspaces for enhanced 3270UI
 - Support for joining multiple tables into a single enhanced 3270UI view
- Service Level Analysis and Bottleneck Analysis components now exploit IBM System z Integrated Information Processors, lowering the cost of compute time.
- Leverages Tivoli Monitoring and the self-describing agent autonomic capability to remove the necessity for using application CDs to manually synchronize management servers and agents.
- Tivoli Common Reporting 3.1, V2.1.1 reports have been removed from the OMEGAMON DVD and are available on Service Management Connect.

New in Tivoli OMEGAMON for z/OS Management Suite V5.4.1:

- IBM OMEGAMON for JVM V5.4.0
 - Easy to install, customize, replicate and maintain
 - Auto-discovers and monitors all JVMs running on z/OS
 - Real-time Alerts when a problem is occurring, and provides recommendations and tips
 - Increases ability to leverage System Automation, Analytics and OMEGAMON portfolio
- IBM OMEGAMON for Storage on z/OS V5.4.0
 - A new history store providing improved performance and resource consumption for near term historical data.
 - Real and historical monitoring of FICON Directors performance bottlenecks.
 - Improvements to the E3270UI allow storage administrator access to critical reports and controls.
- IBM Tivoli Directory Library Adapter for z/OS V3.1.0 discovers z/OS resources and generates output XML files. The files, often referred to as Books, conform to the Discovery Library IdML XML schema and Common Data Model (CDM).

Starting in PARMGEN 4Q16 IF, PARMGEN provides additional configuration enhancements by providing users the option to utilize the functionality of the z/OS Discovery Library Adapter (DLA) to automatically discover properties about online subsystems and include these details within the runtime environment (RTE) configuration files. This reduces the time and effort in creating accurate configuration files.

This offering includes the following products:

- IBM Tivoli OMEGAMON XE on z/OS contains capabilities designed to:
 - Improve problem resolution efficiency by requiring fewer steps to isolate root cause performance impact in real time, and therefore, providing higher availability.
 - Improve visibility, control, and automation with a new more comprehensive 3270-based user interface capable of viewing the entire enterprise-wide environment from a single 3270 screen.
 - Reduce the time required for installation, configuration, and maintenance by leveraging enhanced IBM Tivoli Monitoring functions and a new PARMGEN configuration tool.
- IBM Tivoli OMEGAMON XE for Mainframe Networks gives you the ability to monitor and manage the health of crucial TCP/IP connections in addition to the traditional VTAM and NCP operations within your IBM z/OS environments.
- IBM OMEGAMON for Storage on z/OS is the comprehensive monitor for z/OS I/O subsystem performance and storage availability. The product combines comprehensive storage performance monitoring with a flexible, easy-to-use browser interface that helps you clearly understand storage conditions and ensure optimal performance.
- IBM Tivoli OMEGAMON Dashboard Edition on z/OS is a package of components that provide an integrated view of your mainframe enterprise and the power to take corrective action when problems threaten system and application availability. It provides the capability to integrate management of

z/OS operating system, network, subsystems, and storage management for greater viability, control, and automation of your z/OS environment for improved utilization of resources. OMEGAMON Dashboard Edition on z/OS interim feature 1 extends this integrated view to the enhanced 3270 user interface. The components in the package include OMEGAVIEW and OMEGAVIEW II for the Enterprise.

- IBM OMEGAMON for JVM provides resource-level monitoring of all Java virtual machines (JVMs) on z/OS. By using OMEGAMON for JVM, you can efficiently monitor, identify, isolate, and correct problems when JVMs on z/OS are in distress or are failing.
- IBM Tivoli OMEGAMON for z/OS Management Suite V5.4.1 ID, HOMS541 FMID, is a function that allows IBM Tivoli Asset Discovery for z/OS to differentiate between individual products and suites that are composed of a number of these same products.

1.2 Tivoli OMEGAMON for z/OS Management Suite FMIDs

Tivoli OMEGAMON for z/OS Management Suite consists of the following FMIDs:

HKM5530
HKET620
HKOB730
HKSB740
HKN3530
HKS3540
HKWO310
HKMV310
JKWO530
HKJJ540
HOMS541
HIZD310

2.0 Program Materials

An IBM program is identified by a program number. The program number for Tivoli OMEGAMON for z/OS Management Suite is 5698-TOM.

Basic Machine-Readable Materials are materials that are supplied under the base license and are required for the use of the product.

The program announcement material describes the features supported by Tivoli OMEGAMON for z/OS Management Suite. Ask your IBM representative for this information if you have not already received a copy.

2.1 Basic Machine-Readable Material

The distribution medium for this program is physical media or downloadable files. This program is in SMP/E RELFILE format and is installed by using SMP/E. See 6.0, "Installation Instructions" on page 36 for more information about how to install the program.

You can find information about the physical media for the basic machine-readable materials for Tivoli OMEGAMON for z/OS Management Suite in the *CBPDO Memo To Users Extension*.

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for Tivoli OMEGAMON for z/OS Management Suite.

2.3 Program Publications

The following sections identify the basic publications for Tivoli OMEGAMON for z/OS Management Suite.

Figure 1 identifies the basic unlicensed publications for Tivoli OMEGAMON for z/OS Management Suite.

The unlicensed documentation for Tivoli OMEGAMON for z/OS Management Suite can be found on the IBM Knowledge Center at <http://www.ibm.com/support/knowledgecenter/SS5PJ9/welcome>.

Figure 1 (Page 1 of 2). Basic Material: Unlicensed Publications

Publication Title
<i>Memo to users</i>
<i>Program Directory</i>
<i>Quick Start Guides</i>

Figure 1 (Page 2 of 2). Basic Material: Unlicensed Publications

Publication Title
OMEGAMON XE shared publications
Tivoli Management Service on z/OS documentation
OMEGAMON XE on z/OS
OMEGAMON XE for Mainframe Networks
OMEGAMON for Storage on z/OS
OMEGAMON Dashboard Edition on z/OS
OMEGAMON for JVM on z/OS
IBM Tivoli Discovery Library Adaptor for z/OS User's Guide & Reference

Prior to installing the products included in Tivoli OMEGAMON for z/OS Management Suite, IBM recommends you review the OMEGAMON XE shared documentation V6.3.0 Fix Pack 2 and above, **What's new in PARMGEN**, the Quick Start Guide, as well as the **First time deployment guide (FTU installation and tasks)**, and the Planning and Configuring topics for general planning and configuration flow. This documentation focuses on the things you will need to know for a successful installation and configuration of the products included in this package.

The **OMEGAMON XE and Tivoli Management Services on z/OS** shared documentation, and other IBM product documentation can be found at the IBM Knowledge Center URL listed below:

<http://www.ibm.com/support/knowledgecenter/SSAUBV/>

The **First time deployment guide (FTU installation and configuration tasks)** documentation can be found on the IBM Knowledge Center at:

http://www.ibm.com/support/knowledgecenter/SSAUBV/com.ibm.omegamon_share.doc_6.3.0.2/ftu/ftu_cfg_intro.htm

Refer to the *Program Directory for IBM Tivoli Management Services on z/OS* (GI11-4105) for a complete documentation list and installation instructions for its product components.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for Tivoli OMEGAMON for z/OS Management Suite.

2.5 Publications Useful During Installation

You might want to use the publications listed in Figure 2 during the installation of Tivoli OMEGAMON for z/OS Management Suite.

<i>Figure 2. Publications Useful During Installation</i>	
Publication Title	Form Number
<i>IBM SMP/E for z/OS User's Guide</i>	SA23-2277
<i>IBM SMP/E for z/OS Commands</i>	SA23-2275
<i>IBM SMP/E for z/OS Reference</i>	SA23-2276
<i>IBM SMP/E for z/OS Messages, Codes, and Diagnosis</i>	GA32-0883

These publications can be obtained from the IBM Publications Center website at <http://www.ibm.com/shop/publications/order/>.

3.0 Program Support

This section describes the IBM support available for Tivoli OMEGAMON for z/OS Management Suite.

3.1 Program Services

Contact your IBM representative for specific information about available program services.

3.2 Preventive Service Planning

Before you install Tivoli OMEGAMON for z/OS Management Suite, make sure that you have reviewed the current Preventive Service Planning (PSP) information. Review the PSP Bucket for General Information, Installation Documentation, and the Cross Product Dependencies sections. For the Recommended Service section, instead of reviewing the PSP Bucket, it is recommended you use the IBM.ProductInstall-RequiredService fix category in SMP/E to ensure you have all the recommended service installed. Use the **FIXCAT(IBM.ProductInstall-RequiredService)** operand on the **APPLY CHECK command**. See 6.1.11, "Perform SMP/E APPLY" on page 46 for a sample APPLY command.

If you obtained Tivoli OMEGAMON for z/OS Management Suite as part of a CBPDO, HOLDDATA is included.

If the CBPDO for Tivoli OMEGAMON for z/OS Management Suite is older than two weeks by the time you install the product materials, you can obtain the latest PSP Bucket information by going to the following website:

<http://www14.software.ibm.com/webapp/set2/psearch/search?domain=psp>

You can also use S/390 SoftwareXcel or contact the IBM Support Center to obtain the latest PSP Bucket information.

For program support, access the Software Support Website at <http://www.ibm.com/software/support/>.

PSP Buckets are identified by UPGRADEs, which specify product levels; and SUBSETs, which specify the FMIDs for a product level. The UPGRADE and SUBSET values for Tivoli OMEGAMON for z/OS Management Suite are included in Figure 3.

This product has an installation requirement for IBM Tivoli Management Services on z/OS V6.3.0 Fix Pack 2 or higher (5698-A79), so you should review the PSP buckets for it as well. Refer to the *Program Directory for IBM Tivoli Management Services on z/OS* (GI11-4105) for those UPGRADE and SUBSET values.

Figure 3. PSP Upgrade and Subset ID

UPGRADE	SUBSET	Description
OMXEM5530	HKM5530	OMEGAMON XE on z/OS
	HKET620	End-To-End
	HKOB730	OMNIMON Base
	HKSB740	Shared Probes
OMXEN3530	HKN3530	OMEGAMON XE for Mainframe Networks
OMXES3540	HKS3540	OMEGAMON for Storage on z/OS
OMXEWO530	HKWO310	OMEGAVIEW II for the Enterprise
	HKMV310	OMEGAVIEW
	JKWO530	OMEGAMON DE on z/OS, install
JVMON540	HKJJ540	OMEGAMON for JVM
ZOMS541	HOMS541	z/OS Mgmt TADz ID
ZOSDLA	HIZD310	Tivoli Directory Library Adapter for z/OS

3.3 Statement of Support Procedures

Report any problems which you feel might be an error in the product materials to your IBM Support Center. You may be asked to gather and submit additional diagnostics to assist the IBM Support Center in their analysis.

Figure 4 identifies the component IDs (COMPID) for Tivoli OMEGAMON for z/OS Management Suite.

<i>Figure 4. Component IDs</i>			
FMID	COMPID	Component Name	RETAIN Release
HKM5530	5698A5900	OMEGAMON XE on z/OS	530
HKET620	5608A41EE	End-To-End	620
HKOB730	5608A41OB	OMNIMON Base	730
HKSB740	5608A41SP	Shared Probes	740
HKN3530	5608A4000	OMEGAMON XE for Mainframe Networks	530
HKS3540	5608A1000	OMEGAMON for Storage on z/OS	540
HKWO310	5608A4200	OMEGAVIEW II for the Enterprise	310
HKMV310	5608A1200	OMEGAVIEW	310
JKWO530	5698B4000	OMEGAMON DE on z/OS, install	530
HKJJ540	5698T0101	OMEGAMON for JVM	540
HOMS541	5698TOM00	z/OS Mgmt TADz ID	541
HIZD310	5698A4700	z/OS DLA	310

4.0 Program and Service Level Information

This section identifies the program and relevant service levels of Tivoli OMEGAMON for z/OS Management Suite. The program level refers to the APAR fixes that have been incorporated into the program. The service level refers to the PTFs that have been incorporated into the program.

4.1 Program Level Information

The following APAR fixes against previous releases of components included with Tivoli OMEGAMON for z/OS Management Suite have been incorporated into this release. They are listed by FMID.

- FMID HKM5530

OA38725 OA38808 OA38911 OA38915 OA39009 OA39306 OA39395 OA39579
OA39762 OA39778 OA39970 OA40008 OA40043 OA40048 OA40207 OA40262
OA40311 OA40366 OA40467 OA40497 OA40578 OA40713 OA40757 OA40839
OA40913 OA40991 OA41013 OA41058 OA41065 OA41219 OA41331 OA41358
OA41556 OA41563 OA41600 OA41634 OA41701 OA41821 OA41831 OA42072
OA42115 OA42122 OA42128 OA42499 OA42602 OA42749 OA42784 OA42851
OA42930 OA42956 OA42989 OA43040 OA43121 OA43297 OA43353 OA43365
OA43631

- FMID HKET620

OA16162 OA17633 OA20701 OA21506 OA23880 OA24718 OA28512 OA29597
OA30534 OA32238 OA32823 OA35654

- FMID HKOB730

OA38724 OA38914 OA39194 OA39399 OA39622 OA39639 OA39649 OA39671
OA39889 OA40088 OA40373 OA40429 OA40800 OA40853 OA40973 OA41117
OA41153 OA41333 OA41451 OA41552 OA41669 OA41694 OA42127 OA42259
OA42748 OA42958 OA43096 OA43163 OA43364 OA43638

- FMID HKSB740

OA45783 OA46118 OA46312 OA46613 OA46822 OA47110 OA47195 OA47551
OA47584 OA48297 OA48519 OA48910 OA50591

- FMID HKN3530

OA40495 OA40742 OA40964 OA41274 OA41452 OA41524 OA41658 OA41884
OA41888 OA41892 OA42000 OA42031 OA42212 OA42339 OA42422 OA43460
OA43569 OA43920 OA44002 OA44800 OA44876 OA45066 OA45496 OA46491
OA47219 OA47430

- FMID HKS3540

0A45717 0A45921 0A45941 0A46257 0A46278 0A46302 0A46318 0A46456
0A46464 0A46484 0A46533 0A46576 0A46611 0A46632 0A46717 0A46762
0A46790 0A46819 0A46842 0A46871 0A46894 0A46906 0A46915 0A46998
0A47058 0A47109 0A47136 0A47150 0A47184 0A47194 0A47198 0A47230
0A47325 0A47448 0A47473 0A47486 0A47562 0A47701 0A47702 0A47736
0A47785 0A47792 0A47843 0A48051 0A48178 0A48237 0A48564 0A48589
0A48826 0A48931 0A49197 0A49210 0A49220 0A49295 0A49583 0A49645
0A49900 0A50246 0A50279 0A50400 0A50413 0A50423 0A50567 0A50572
0A50862 0A50897 0A50987

- FMID HKJJ540

0A49930 0A50242 0A50702

4.2 Service Level Information

No PTFs against this release of Tivoli OMEGAMON for z/OS Management Suite have been incorporated into the product package.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating Tivoli OMEGAMON for z/OS Management Suite. The following terminology is used:

- *Driving system*: the system on which SMP/E is executed to install the program.
- *Target system*: the system on which the program is configured and run.

In many cases, you can use a system as both a driving system and a target system. However, you can make a separate IPL-able clone of the running system to use as a target system. The clone must include copies of all system libraries that SMP/E updates, copies of the SMP/E CSI data sets that describe the system libraries, and your PARMLIB and PROCLIB.

Use separate driving and target systems in the following situations:

- When you install a new level of a product that is already installed, the new level of the product will replace the old one. By installing the new level onto a separate target system, you can test the new level and keep the old one in production at the same time.
- When you install a product that shares libraries or load modules with other products, the installation can disrupt the other products. By installing the product onto a separate target system, you can assess these impacts without disrupting your production system.

5.1 Driving System Requirements

This section describes the environment of the driving system required to install Tivoli OMEGAMON for z/OS Management Suite.

5.1.1 Machine Requirements

The driving system can run in any hardware environment that supports the required software.

5.1.2 Programming Requirements

Figure 5. Driving System Software Requirements

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
5650-ZOS	z/OS	V02.01.00 or higher	N/A	No

Note: SMP/E is a requirement for Installation and is an element of z/OS but can also be ordered as a separate product, 5655-G44, minimally V03.06.00.

Note: Installation might require migration to new z/OS releases to be service supported. See http://www-03.ibm.com/systems/z/os/zos/support/zos_eos_dates.html.

The OMEGAMON for JVM component is installed into a file system, either HFS or zFS.

Before installing this component, you must ensure that the target system file system data sets are available for processing on the driving system. OMVS must be active on the driving system and the target system file data sets must be mounted on the driving system.

If you plan to install this component in a zFS file system, this requires that zFS be active on the driving system. Information on activating and using zFS can be found in z/OS Distributed File Service zSeries File System Administration, SC24-5989.

5.2 Target System Requirements

This section describes the environment of the target system required to install and use Tivoli OMEGAMON for z/OS Management Suite.

Tivoli OMEGAMON for z/OS Management Suite installs in the z/OS (Z038) SREL.

5.2.1 Machine Requirements

The target system can run in any hardware environment that supports the required software.

5.2.2 Programming Requirements

5.2.2.1 Installation Requisites

Installation requisites identify products that are required and *must* be present on the system or products that are not required but *should* be present on the system for the successful installation of this product.

Mandatory installation requisites identify products that are required on the system for the successful installation of this product. These products are specified as PREs or REQs.

Figure 6. Target System Mandatory Installation Requisites

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
5650-ZOS	z/OS	V02.01.00 or higher	N/A	No
5698-A79	IBM Tivoli Management Services on z/OS	V06.03.00	N/A	No

Note: Installation might require migration to new z/OS releases to be service supported. See http://www-03.ibm.com/systems/z/os/zos/support/zos_eos_dates.html.

Conditional installation requisites identify products that are *not* required for successful installation of this product but can resolve such things as certain warning messages at installation time. These products are specified as IF REQs.

Tivoli OMEGAMON for z/OS Management Suite has no conditional installation requisites.

5.2.2.2 Operational Requisites

Operational requisites are products that are required and *must* be present on the system or products that are not required but *should* be present on the system for this product to operate all or part of its functions.

Mandatory operational requisites identify products that are required for this product to operate its basic functions.

<i>Figure 7. Target System Mandatory Operational Requisites</i>	
Program Number	Product Name and Minimum VRM/Service Level
5650-ZOS	z/OS V02.01.00 or higher
5698-A79	IBM Tivoli Management Services on z/OS V06.03.00 or higher

Conditional operational requisites identify products that are *not* required for this product to operate its basic functions but are required at run time for this product to operate specific functions. These products are specified as IF REQs.

<i>Figure 8. Target System Conditional Operational Requisites</i>	
Program Number	Product Name and Minimum VRM/Service Level
5648-063	NCP V07.08.01 or higher

To support the latest version of the OSA Express MIB, the Licensed Internal Code (LIC) levels of the OSA-Express adapters must meet the following criteria:

- If you are running the OSA module on an IBM eServer, zSeries 900 or 800 system, you must have a licensed internal code (LIC) version of 3.33 or higher installed.
- If you are running the OSA module on an IBM eServer Series 990 processor or higher, all LIC levels are supported.

5.2.2.3 Toleration/Coexistence Requisites

Toleration/coexistence requisites identify products that must be present on sharing systems. These systems can be other systems in a multisystem environment (not necessarily sysplex), a shared DASD environment (such as test and production), or systems that reuse the same DASD environment at different time intervals.

Tivoli OMEGAMON for z/OS Management Suite has no toleration/coexistence requisites.

5.2.2.4 Incompatibility (Negative) Requisites

Negative requisites identify products that must *not* be installed on the same system as this product.

Tivoli OMEGAMON for z/OS Management Suite has no negative requisites.

5.2.3 DASD Storage Requirements

Tivoli OMEGAMON for z/OS Management Suite libraries can reside on all supported DASD types.

Figure 9 on page 18 lists the total space that is required for each type of library.

Library Type	Total Space Required in 3390 Trks
Target	6929
Distribution	7135
File System(s)	345

Notes:

1. If you are installing into an existing environment that has the data sets in Figure 12 on page 20 and Figure 14 on page 22 already allocated, ensure sufficient disk space and directory blocks are available to support the requirement listed. This might require you to reallocate some data sets to avoid x37 abends.
2. Use system determined block sizes for efficient DASD utilization for all non-RECFM U data sets. For RECFM U data sets, a block size of 32760 is recommended, which is the most efficient from a performance and DASD utilization perspective.
3. Abbreviations used for data set types are shown as follows.
 - U** Unique data set, allocated by this product and used by only this product. This table provides all the required information to determine the correct storage for this data set. You do not need to refer to other tables or program directories for the data set size.
 - S** Shared data set, allocated by this product and used by this product and other products. To determine the correct storage needed for this data set, add the storage size given in this table to those given in other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.
 - E** Existing shared data set, used by this product and other products. This data set is *not* allocated by this product. To determine the correct storage for this data set, add the storage size given in this table to those given in other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.

If you currently have a previous release of this product installed in these libraries, the installation of this release will delete the old release and reclaim the space that was used by the old release and any service that had been installed. You can determine whether these libraries have enough space by deleting the old release with a dummy function, compressing the libraries, and comparing the space requirements with the free space in the libraries.

For more information about the names and sizes of the required data sets, see 6.1.6, "Allocate SMP/E Target and Distribution Libraries" on page 43.

4. Abbreviations used for the file system path type are as follows.

- N** New path, created by this product.
- X** Path created by this product, but might already exist from a previous release.
- P** Previously existing path, created by another product.

5. All target and distribution libraries listed have the following attributes:

- The default name of the data set can not be changed.
- The default block size of the data set can be changed.
- The data set can not be merged with another data set that has equivalent characteristics.

6. All target libraries listed have the following attributes:

- These data sets can be SMS-managed, but they are not required to be SMS-managed.
- These data sets are not required to reside on the IPL volume.
- The values in the "Member Type" column are not necessarily the actual SMP/E element types that are identified in the SMPMCS.

7. All target libraries that are listed and contain load modules have the following attributes:

- These data sets can not be in the LPA.
- These data sets can be in the LNKLST except for TKANMODR and TKANMODS.

If you are installing into an existing environment, ensure the values used for the SMP/E work datasets reflect the minimum values shown in Figure 10. Check the corresponding DDDEF entries in all zones because use of values lower than these can result in failures in the installation process. Refer to the SMP/E manuals for instructions on updating DDDEF entries.

<i>Figure 10. Storage Requirements for SMP/E Work Data Sets</i>							
Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	Prim No. of 3390 Trks	Sec No. of 3390 Trks	No. of DIR Blks
SMPWRK1	E	PDS	FB	80	150	150	220
SMPWRK2	E	PDS	FB	80	150	150	220
SMPWRK3	E	PDS	FB	80	300	600	1320
SMPWRK4	E	PDS	FB	80	150	150	220
SMPWRK6	E	PDS	FB	80	300	1500	660
SYSUT1	E	SEQ	--	--	75	75	0
SYSUT2	E	SEQ	--	--	75	75	0
SYSUT3	E	SEQ	--	--	75	75	0
SYSUT4	E	SEQ	--	--	75	75	0

If you are installing into an existing environment, ensure the current SMP/E support dataset allocations reflect the minimum values shown in Figure 11 on page 20. Check the space and directory block allocation and reallocate the data sets, if necessary.

Figure 11. Storage Requirements for SMP/E Data Sets

Library DDNAME	T Y P E	O R G A N I Z A T I O N	R E C O R D S	L E N G T H	Prim No. of 3390 Trks	Sec No. of 3390 Trks	No. of DIR Blks
SMPLTS	E	PDSE	U	0	15	150	N/A
SMPMTS	E	PDS	FB	80	15	150	220
SMPPTS	E	PDSE	FB	80	300	1500	N/A
SMPSCDS	E	PDS	FB	80	15	150	220
SMPSTS	E	PDS	FB	80	15	150	220

Figure 12 and Figure 14 on page 22 describe the target and distribution libraries and file system paths that will be allocated by this product's install jobs or that will be required for installation. The space requirements reflect what is specified in the allocation job or the space that this product will require in existing libraries. Additional tables are provided to show the specific space required for libraries that are used by each FMID. See 5.2.4, "DASD Storage Requirements by FMID" on page 23 for more information.

The storage requirements of Tivoli OMEGAMON for z/OS Management Suite must be added to the storage required by other programs having data in the same library or path.

Figure 12 (Page 1 of 2). Storage Requirements for Tivoli OMEGAMON for z/OS Management Suite Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G A N I Z A T I O N	R E C O R D S	L E N G T H	No. of 3390 Trks	No. of DIR Blks
SBNKLOAD	LMOD	Any	U	PDS	U	0	30	132
SBNKPKGI	Sample	Any	U	PDS	FB	80	30	132
SIZDINST	JCL	Any	U	PDS	FB	80	3	3
SIZDSAMP	Samples	Any	U	PDS	FB	80	25	3
SIZDEXEC	CLIST	Any	U	PDS	FB	80	20	3
SIZDLOAD	Samples	Any	U	PDS	U	0	65	12
SIZDMAPS	CLIST	Any	U	PDS	VB	1024	8	3
SIZDMESG	CLIST	Any	U	PDS	FB	80	3	3

Figure 12 (Page 2 of 2). Storage Requirements for Tivoli OMEGAMON for z/OS Management Suite Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
TKANCLI	CLIST	Any	S	PDS	FB	80	30	132
TKANCMD	Parm	Any	E	PDS	FB	80	14	26
TKANCUS	CLIST	Any	E	PDS	FB	80	203	144
TKANDATR	Data	Any	S	PDS	FB	160	75	132
TKANDATV	Data	Any	E	PDS	VB	6160	902	22
TKANEXEC	EXEC	Any	S	PDS	VB	255	60	176
TKANHENU	Help	Any	E	PDS	FB	80	349	289
TKANISP	CLIST	Any	S	PDS	FB	80	30	132
TKANMAC	Macro	Any	E	PDS	FB	80	12	5
TKANMOD	LMOD	Any	E	PDS	U	0	510	77
TKANMODL	LMOD	Any	E	PDS	U	0	1149	163
TKANMODP	LMOD	Any	S	PDSE	U	0	375	N/A
TKANMODR	LMOD	Any	S	PDS	U	0	30	132
TKANMODS	LMOD	Any	E	PDS	U	0	144	96
TKANOSRC	Data	Any	S	PDS	VB	255	30	132
TKANPAR	Parm	Any	E	PDS	FB	80	24	22
TKANPENU	Panel	Any	E	PDS	FB	80	2188	1450
TKANPKGI	Data	Any	E	PDS	FB	80	142	23
TKANSAM	Sample	Any	E	PDS	FB	80	47	46
TKANSAS	SAS	Any	S	PDS	FB	80	150	176
TKANSQL	SQL	Any	E	PDS	FB	80	25	57
TKANWENU	Panel	Any	S	PDS	FB	80	195	264
TKEPHELP	Help	Any	U	PDS	FB	80	30	132
TKMVDATP	Data	Any	U	PDS	FB	80	30	132
TKMVDATT	Data	Any	U	PDS	FB	80	30	132
TKOBDATF	Data	Any	S	PDS	FB	80	30	132
TKOBHELP	Help	Any	S	PDS	FB	80	45	176
TKOMHELP	Help	Any	U	PDS	FB	80	75	352
TKOMPROC	Panel	Any	U	PDS	FB	80	105	440

Figure 13. Tivoli OMEGAMON for z/OS Management Suite File System Paths

DDNAME	T Y P E	Path Name
TKANJAR	N	/usr/lpp/kan/bin/IBM

Figure 14 (Page 1 of 2). Storage Requirements for Tivoli OMEGAMON for z/OS Management Suite Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ABNKLOAD	U	PDS	U	0	30	132
ABNKPGI	U	PDS	FB	80	30	132
AIZDINST	U	PDS	FB	80	3	3
AIZDSAMP	U	PDS	FB	80	25	3
AIZDEXEC	U	PDS	FB	80	20	3
AIZDLOAD	U	PDS	U	0	65	12
AIZDMAPS	U	PDS	VB	1024	8	3
AIZDMESG	U	PDS	FB	80	3	5
DKANCLI	S	PDS	FB	80	30	132
DKANCMD	E	PDS	FB	80	14	26
DKANCUS	E	PDS	FB	80	203	144
DKANDATR	S	PDS	FB	160	75	132
DKANDATV	E	PDS	VB	6160	902	22
DKANEXEC	S	PDS	VB	255	60	176
DKANHENU	E	PDS	FB	80	349	287
DKANISP	S	PDS	FB	80	30	132
DKANJAR	S	PDS	VB	255	345	132
DKANMAC	E	PDS	FB	80	12	5
DKANMOD	E	PDS	U	0	255	221
DKANMODL	E	PDS	U	0	1299	183
DKANMODP	S	PDSE	U	0	120	N/A
DKANMODR	S	PDS	U	0	30	132
DKANMODS	E	PDS	U	0	99	41

Figure 14 (Page 2 of 2). Storage Requirements for Tivoli OMEGAMON for z/OS Management Suite Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DKANOSRC	S	PDS	VB	255	30	132
DKANPAR	E	PDS	FB	80	24	22
DKANPENU	E	PDS	FB	80	2187	1447
DKANPKGI	E	PDS	FB	80	142	21
DKANSAM	E	PDS	FB	80	47	46
DKANSAS	S	PDS	FB	80	150	176
DKANSQL	E	PDS	FB	80	25	57
DKANWENU	S	PDS	FB	80	195	264
DKEPHELP	U	PDS	FB	80	30	132
DKMVDATP	U	PDS	FB	80	30	132
DKMVDATT	U	PDS	FB	80	30	132
DKOBDATF	S	PDS	FB	80	30	132
DKOBHELP	S	PDS	FB	80	45	176
DKOMHELP	U	PDS	FB	80	75	352
DKOMPROC	U	PDS	FB	80	105	440

5.2.4 DASD Storage Requirements by FMID

The tables in this section can help determine the specific space required for components not already installed in an existing environment. There is a table for each FMID included with the product.

Figure 15 (Page 1 of 3). Storage Requirements for HKM5530 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
TKANCLI	CLIST	Any	S	PDS	FB	80	1	2
TKANCMD	Parm	Any	E	PDS	FB	80	14	26
TKANCUS	CLIST	Any	E	PDS	FB	80	53	34
TKANDATV	Data	Any	E	PDS	VB	6160	220	5

Figure 15 (Page 2 of 3). Storage Requirements for HKM5530 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
TKANEXEC	EXEC	Any	S	PDS	VB	255	3	8
TKANHENU	Help	Any	E	PDS	FB	80	133	128
TKANISP	CLIST	Any	S	PDS	FB	80	1	3
TKANMAC	Macro	Any	E	PDS	FB	80	4	2
TKANMOD	LMOD	Any	E	PDS	U	0	107	18
TKANMODL	LMOD	Any	E	PDS	U	0	394	39
TKANMODP	LMOD	Any	E	PDS	U	0	26	N/A
TKANPAR	Parm	Any	E	PDS	FB	80	7	8
TKANPENU	Panel	Any	E	PDS	FB	80	969	539
TKANPKGI	Data	Any	E	PDS	FB	80	48	2
TKANSAM	Sample	Any	E	PDS	FB	80	23	16
TKANWENU	Panel	Any	S	PDS	FB	80	54	37
TKEPHELP	Help	Any	U	PDS	FB	80	9	16
TKOMHELP	Help	Any	U	PDS	FB	80	54	253
TKOMPROC	Panel	Any	U	PDS	FB	80	79	349
DKANCLI			S	PDS	FB	80	1	2
DKANCMD			E	PDS	FB	80	14	26
DKANCUS			E	PDS	FB	80	53	34
DKANDATV			E	PDS	VB	6160	220	5
DKANEXEC			S	PDS	VB	255	3	8
DKANHENU			E	PDS	FB	80	133	128
DKANISP			S	PDS	FB	80	1	3
DKANMAC			E	PDS	FB	80	4	2
DKANMOD			E	PDS	U	0	1	2
DKANMODL			E	PDS	U	0	507	52
DKANMODP			E	PDS	U	0	5	N/A
DKANPAR			E	PDS	FB	80	7	8
DKANPENU			E	PDS	FB	80	969	539
DKANPKGI			E	PDS	FB	80	48	2

Figure 15 (Page 3 of 3). Storage Requirements for HKM5530 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DKANSAM			E	PDS	FB	80	23	16
DKANWENU			S	PDS	FB	80	54	37
DKEPHELP			U	PDS	FB	80	9	16
DKOMHELP			U	PDS	FB	80	54	253
DKOMPROC			U	PDS	FB	80	79	349

Figure 16. Storage Requirements for HKET620 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
TKANCUS	CLIST	Any	E	PDS	FB	80	1	2
TKANMOD	LMOD	Any	E	PDS	U	0	31	11
TKANMODR	LMOD	Any	S	PDS	U	0	1	2
TKANMODS	LMOD	Any	E	PDS	U	0	17	20
TKANPKGI	Data	Any	E	PDS	FB	80	4	2
TKANSAM	Sample	Any	E	PDS	FB	80	1	2
DKANCUS			E	PDS	FB	80	1	2
DKANMOD			E	PDS	U	0	11	11
DKANMODR			S	PDS	U	0	1	2
DKANMODS			E	PDS	U	0	17	20
DKANPKGI			E	PDS	FB	80	4	2
DKANSAM			E	PDS	FB	80	1	2

Figure 17 (Page 1 of 3). Storage Requirements for HKOB730 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
TKANCUS	CLIST	Any	E	PDS	FB	80	13	15

Figure 17 (Page 2 of 3). Storage Requirements for HKOB730 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
TKANEXEC	EXEC	Any	S	PDS	VB	255	9	4
TKANHENU	Help	Any	E	PDS	FB	80	3	4
TKANISP	CLIST	Any	S	PDS	FB	80	1	2
TKANMAC	Macro	Any	E	PDS	FB	80	8	3
TKANMOD	LMOD	Any	E	PDS	U	0	104	17
TKANMODL	LMOD	Any	E	PDS	U	0	12	2
TKANMODP	LMOD	Any	S	PDSE	U	0	313	N/A
TKANMODS	LMOD	Any	E	PDS	U	0	74	56
TKANOSRC	Data	Any	S	PDS	VB	255	3	5
TKANPAR	Parm	Any	E	PDS	FB	80	1	2
TKANPKGI	Data	Any	E	PDS	FB	80	13	2
TKANSAM	Sample	Any	E	PDS	FB	80	3	3
TKANWENU	Panel	Any	S	PDS	FB	80	21	27
TKOBDATF	Data	Any	S	PDS	FB	80	1	2
TKOBHELP	Help	Any	S	PDS	FB	80	17	66
DKANCUS			E	PDS	FB	80	13	15
DKANEXEC			S	PDS	VB	255	9	4
DKANHENU			E	PDS	FB	80	3	4
DKANISP			S	PDS	FB	80	1	2
DKANMAC			E	PDS	FB	80	8	3
DKANMOD			E	PDS	U	0	108	88
DKANMODL			E	PDS	U	0	12	2
DKANMODP			S	PDSE	U	0	69	N/A
DKANMODS			E	PDS	U	0	61	3
DKANOSRC			S	PDS	VB	255	3	5
DKANPAR			E	PDS	FB	80	1	2
DKANPKGI			E	PDS	FB	80	13	2
DKANSAM			E	PDS	FB	80	3	3
DKANWENU			S	PDS	FB	80	21	27

Figure 17 (Page 3 of 3). Storage Requirements for HKOB730 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DKOBDATF			S	PDS	FB	80	1	2
DKOBHELP			S	PDS	FB	80	17	66

Figure 18. Storage Requirements for HKSB740 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
TKANDATV	Data	Any	E	PDS	VB	6160	6	2
TKANMOD	LMOD	Any	E	PDS	U	0	111	5
TKANMODL	LMOD	Any	E	PDS	U	0	33	11
TKANPKGI	Data	Any	E	PDS	FB	80	3	2
DKANDATV			E	PDS	VB	6160	6	2
DKANMOD			E	PDS	U	0	19	10
DKANMODL			E	PDS	U	0	33	10
DKANPKGI			E	PDS	FB	80	3	2

Figure 19 (Page 1 of 2). Storage Requirements for HKN3530 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
TKANCUS	CLIST	Any	E	PDS	FB	80	58	38
TKANDATV	Data	Any	E	PDS	VB	6160	311	3
TKANEXEC	EXEC	Any	S	PDS	VB	255	6	10
TKANHENU	Help	Any	E	PDS	FB	80	54	13
TKANMOD	LMOD	Any	E	PDS	U	0	63	12
TKANMODL	LMOD	Any	E	PDS	U	0	130	49
TKANMODS	LMOD	Any	E	PDS	U	0	52	18
TKANPAR	Parm	Any	E	PDS	FB	80	6	2

Figure 19 (Page 2 of 2). Storage Requirements for HKN3530 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
TKANPENU	Panel	Any	E	PDS	FB	80	949	803
TKANPKGI	Data	Any	E	PDS	FB	80	40	2
TKANSAM	Sample	Any	E	PDS	FB	80	1	2
TKANSAS	SAS	Any	S	PDS	FB	80	127	64
TKANWENU	Panel	Any	S	PDS	FB	80	40	22
DKANCUS			E	PDS	FB	80	58	38
DKANDATV			E	PDS	VB	6160	311	3
DKANEXEC			S	PDS	VB	255	6	10
DKANHENU			E	PDS	FB	80	54	13
DKANMOD			E	PDS	U	0	77	88
DKANMODL			E	PDS	U	0	159	57
DKANMODS			E	PDS	U	0	20	16
DKANPAR			E	PDS	FB	80	5	2
DKANPENU			E	PDS	FB	80	949	803
DKANPKGI			E	PDS	FB	80	40	2
DKANSAM			E	PDS	FB	80	1	2
DKANSAS			S	PDS	FB	80	127	64
DKANWENU			S	PDS	FB	80	40	22

Figure 20 (Page 1 of 2). Storage Requirements for HKS3540 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
TKANCUS	CLIST	Any	E	PDS	FB	80	49	37
TKANDATR	Data	Any	S	PDS	FB	160	54	43
TKANDATV	Data	Any	E	PDS	VB	6160	346	3
TKANEXEC	EXEC	Any	S	PDS	VB	255	19	22
TKANHENU	Help	Any	E	PDS	FB	80	123	80
TKANMOD	LMOD	Any	E	PDS	U	0	104	13

Figure 20 (Page 2 of 2). Storage Requirements for HKS3540 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
TKANMODL	LMOD	Any	E	PDS	U	0	440	44
TKANMODS	LMOD	Any	E	PDS	U	0	1	2
TKANOSRC	Data	Any	S	PDS	VB	255	1	2
TKANPAR	Parm	Any	E	PDS	FB	80	7	3
TKANPENU	Panel	Any	E	PDS	FB	80	6	5
TKANPKGI	Data	Any	E	PDS	FB	80	19	2
TKANSAM	Sample	Any	E	PDS	FB	80	13	13
TKANSQL	SQL	Any	E	PDS	FB	80	25	57
TKANWENU	Panel	Any	S	PDS	FB	80	55	51
DKANCUS			E	PDS	FB	80	49	37
DKANDATR			S	PDS	FB	160	54	43
DKANDATV			E	PDS	VB	6160	346	3
DKANEXEC			S	PDS	VB	255	20	22
DKANHENU			E	PDS	FB	80	123	80
DKANMOD			E	PDS	U	0	42	22
DKANMODL			E	PDS	U	0	447	46
DKANMODS			E	PDS	U	0	1	2
DKANOSRC			S	PDS	VB	255	1	2
DKANPAR			E	PDS	FB	80	7	3
DKANPENU			E	PDS	FB	80	6	5
DKANPKGI			E	PDS	FB	80	19	2
DKANSAM			E	PDS	FB	80	13	13
DKANSQL			E	PDS	FB	80	25	57
DKANWENU			S	PDS	FB	80	55	51

Figure 21. Storage Requirements for HKWO310 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
TKANCUS	CLIST	Any	E	PDS	FB	80	3	5
TKANDATV	Data	Any	E	PDS	VB	6160	2	3
TKANMODL	LMOD	Any	E	PDS	U	0	36	2
TKANPAR	Data	Any	E	PDS	FB	80	1	2
TKANPKGI	Data	Any	E	PDS	FB	80	3	2
DKANCUS			E	PDS	FB	80	3	5
DKANDATV			E	PDS	VB	6160	2	3
DKANMODL			E	PDS	U	0	36	2
DKANPAR			E	PDS	FB	80	1	2
DKANPKGI			E	PDS	FB	80	3	2

Figure 22 (Page 1 of 2). Storage Requirements for HKMV310 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
TKANCUS	CLIST	Any	E	PDS	FB	80	22	9
TKANDATV	Data	Any	E	PDS	VB	6160	1	2
TKANHENU	Help	Any	E	PDS	FB	80	31	55
TKANMODL	LMOD	Any	E	PDS	U	0	85	14
TKANPAR	Data	Any	E	PDS	FB	80	1	3
TKANPENU	Panel	Any	E	PDS	FB	80	263	100
TKANPKGI	Data	Any	E	PDS	FB	80	7	2
TKANSAM	Sample	Any	E	PDS	FB	80	6	10
TKMVDATP	Data	Any	U	PDS	FB	80	10	10
TKMVDATT	Data	Any	U	PDS	FB	80	2	3
DKANCUS			E	PDS	FB	80	22	9
DKANDATV			E	PDS	VB	6160	1	2
DKANHENU			E	PDS	FB	80	31	55
DKANMODL			E	PDS	U	0	86	12

Figure 22 (Page 2 of 2). Storage Requirements for HKMV310 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DKANPAR			E	PDS	FB	80	1	3
DKANPENU			E	PDS	FB	80	263	100
DKANPKGI			E	PDS	FB	80	7	2
DKANSAM			E	PDS	FB	80	6	10
DKMVDATP			U	PDS	FB	80	10	10
DKMVDATT			U	PDS	FB	80	2	3

Figure 23. Storage Requirements for JKWO530 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
TKANCUS	CLIST	Any	E	PDS	FB	80	1	2
TKANPKGI	Data	Any	E	PDS	FB	80	2	2
DKANCUS			E	PDS	FB	80	1	2
DKANPKGI			E	PDS	FB	80	2	2

Figure 24 (Page 1 of 2). Storage Requirements for HKJJ540 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
TKANCUS	CLIST	Any	E	PDS	FB	80	3	2
TKANDATV	Data	Any	E	PDS	VB	6160	16	4
TKANEXEC	EXEC	Any	E	PDS	VB	255	2	2
TKANHENU	Help	Any	E	PDS	FB	80	5	7
TKANMOD	LMOD	Any	E	PDS	U	0	1	2
TKANMODL	LMOD	Any	E	PDS	U	0	19	2
TKANMODP	LMOD	Any	E	PDS	U	0	16	N/A
TKANPAR	Parm	Any	E	PDS	FB	80	1	2

Figure 24 (Page 2 of 2). Storage Requirements for HKJJ540 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
TKANPKG1	Data	Any	E	PDS	FB	80	4	3
TKANWENU	Panel	Any	E	PDS	FB	80	4	8
DKANCUS			E	PDS	FB	80	3	2
DKANDATV			E	PDS	VB	6160	16	4
DKANEXEC			E	PDS	VB	255	2	2
DKANHENU			E	PDS	FB	80	5	7
DKANJAR			E	PDS	VB	255	324	3
DKANMOD			E	PDS	U	0	1	2
DKANMODL			E	PDS	U	0	19	2
DKANMODP			E	PDS	U	0	22	N/A
DKANPAR			E	PDS	FB	80	1	2
DKANPKG1			E	PDS	FB	80	4	3
DKANWENU			E	PDS	FB	80	4	8

Figure 25. Storage Requirements for HOM541 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SBNKLOAD	LMOD	Any	U	PDS	U	0	2	1
SBNKPKG1	Samples	Any	U	PDS	FB	80	3	2
ABNKLOAD			U	PDS	U	0	2	1
ABNKPKG1			U	PDS	FB	80	3	2

Figure 26 (Page 1 of 2). Storage Requirements for HIZD310 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SIZDINST	JCL	Any	U	PDS	FB	80	3	3

Figure 26 (Page 2 of 2). Storage Requirements for HIZD310 Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SIZDSAMP	Samples	Any	U	PDS	FB	80	25	3
SIZDEXEC	CLIST	Any	U	PDS	FB	80	20	3
SIZDLOAD	Samples	Any	U	PDS	U	0	65	12
SIZDMAPS	CLIST	Any	U	PDS	VB	1024	8	3
SIZDMESG	CLIST	Any	U	PDS	FB	80	3	3
AIZDINST			U	PDS	FB	80	3	3
AIZDSAMP			U	PDS	FB	80	25	3
AIZDEXEC			U	PDS	FB	80	20	3
AIZDLOAD			U	PDS	U	0	65	12
AIZDMAPS			U	PDS	VB	1024	8	3
AIZDMESG			U	PDS	FB	80	3	5

5.3 FMIDs Deleted

Installing Tivoli OMEGAMON for z/OS Management Suite might result in the deletion of other FMIDs. To see which FMIDs will be deleted, examine the ++VER statement in the SMPMCS of the product.

If you do not want to delete these FMIDs at this time, install Tivoli OMEGAMON for z/OS Management Suite into separate SMP/E target and distribution zones.

Note: These FMIDs are not automatically deleted from the Global Zone. If you want to delete these FMIDs from the Global Zone, use the SMP/E REJECT NOFMID DELETEFMID command. See the SMP/E Commands documentation for details.

5.4 Special Considerations

To effectively manage a suite of products with common components, you can install products into shared zones of a consolidated software inventory (CSI). Space requirements are reduced by installing products into shared CSI zones avoiding the duplication when different target zones, distribution zones, and data sets are used. Sharing a common set of zones also allows SMP/E to automatically manage IFREQ situations that exist across product components.

If you intend to share a Tivoli Enterprise Monitoring Server on z/OS with other products, use shared CSI zones so product configuration sets up the runtime environment correctly.

The installation of Tivoli OMEGAMON for z/OS Management Suite requires the Tivoli Enterprise Monitoring Server on z/OS be installed in the CSI. Refer to the *Program Directory for IBM Tivoli Management Services on z/OS* (GI11-4105) for installation instructions of its product components.

Prior to installing the products included in Tivoli OMEGAMON for z/OS Management Suite, IBM recommends you review the OMEGAMON XE shared documentation V6.3.0 Fix Pack 2 and above, **What's new in PARMGEN**, the Quick Start Guide, as well as the **First time deployment guide (FTU installation and tasks)**, and the Planning and Configuring topics for general planning and configuration flow. This documentation focuses on the things you will need to know for a successful installation and configuration of the products included in this package.

The **OMEGAMON XE and Tivoli Management Services on z/OS** shared documentation, and other Tivoli product documentation can be found at the IBM Knowledge Center URL listed below:

<http://www.ibm.com/support/knowledgecenter/SSAUBV/>

The **First time deployment guide (FTU installation and configuration tasks)** documentation can be found on the IBM Knowledge Center at:

http://www.ibm.com/support/knowledgecenter/SSAUBV/com.ibm.omegamon_share.doc_6.3.0.2/ftu/ftu_cfg_intro.htm

If you are installing into an existing CSI zone that contains the listed FMIDs, ensure the maintenance has been installed previously or it must be installed with this product package.

HKCI310 - UA82508
HKDS630 - UA70675 UA70678
HKLV630 - UA70676 UA70677 UA81711
HKOB730 - UA82725

Note: Reference and review the HOLDDATA for PTF UA76751 for instructions on adding the CALLLIBS definitions required to install this and other HKOB730 PTFs.

PTF UA78769 (HIZD310 FMID), applying this ptf requires the use of the SMP/E SMPTLOAD DDDEF statement, ensure that SMPTLOAD is defined in the CSI.

Consider the following items when using shared CSI zones.

- You must specify the same high-level qualifier for the target and distribution libraries as the other products in the same zones for the configuration tool to work correctly.
- If you install a product into an existing CSI that contains a previous version of the same product, SMP/E deletes the previous version during the installation process. To maintain multiple product versions concurrently, they must be installed into separate CSI zones.
- If you install into an existing environment, you might need to remove data set references from the installation jobs to avoid errors because the data sets already exist.
- If you are installing into an existing environment that has the data sets already allocated, ensure sufficient space and directory blocks are available to support the requirement listed in the DASD tables. This might require you to reallocate some data sets to avoid x37 abends.

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of Tivoli OMEGAMON for z/OS Management Suite.

Please note the following points:

- If you want to install Tivoli OMEGAMON for z/OS Management Suite into its own SMP/E environment, consult the SMP/E manuals for instructions on creating and initializing the SMPCSI and the SMP/E control data sets. Additionally, to assist you in doing this, IBM has provided samples to help you create an SMP/E environment at the following URL:

<http://www.ibm.com/support/docview.wss?rs=660&context=SSZJDU&uid=swg21066230>

- You can use the sample jobs that are provided to perform part or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries that are required for SMP/E execution have been defined in appropriate zones.

6.1 Installing Tivoli OMEGAMON for z/OS Management Suite

6.1.1 SMP/E Considerations for Installing Tivoli OMEGAMON for z/OS Management Suite

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of Tivoli OMEGAMON for z/OS Management Suite.

6.1.2 SMP/E Options Subentry Values

The recommended values for certain SMP/E CSI subentries are shown in Figure 27. Using values lower than the recommended values can result in failures in the installation. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. See the SMP/E manuals for instructions on updating the global zone.

Figure 27. SMP/E Options Subentry Values

Subentry	Value	Comment
DSSPACE	300,1200,1200	Use 1200 directory blocks
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

6.1.3 SMP/E CALLLIBS Processing

Tivoli OMEGAMON for z/OS Management Suite uses the CALLLIBS function provided in SMP/E to resolve external references during installation. When Tivoli OMEGAMON for z/OS Management Suite is installed, ensure that DDDEFs exist for the following libraries:

- CSSLIB
- SCEEBND2
- SCEECPP
- SCEELIB
- SCEELKED
- SCEELKEX
- SCLBSID
- SEZACMTX

Note: CALLLIBS uses the previous DDDEFs only to resolve the link-edit for Tivoli OMEGAMON for z/OS Management Suite. These data sets are not updated during the installation of Tivoli OMEGAMON for z/OS Management Suite.

6.1.4 Installation Job Generator Utility

A utility is available to generate the necessary installation jobs for this product and others that might be included in the product package deliverable. Be aware that not all products are supported at this time and maintenance might have to be installed to get the latest updates for the product table. It is recommended you use this job generation utility to create a set of jobs to install the product package when installing into an existing environment rather than using the sample jobs provided for each product.

The job generation utility is delivered in the Configuration Tool component of the Tivoli Management Services on z/OS product, which is a requisite of this product. This utility is enhanced thru the maintenance stream so there could be an issue if it is invoked from an environment without the latest maintenance. Ensure the latest maintenance is installed for the components of this product to get the latest updates for the product table.

If you are installing for the first time into a new environment and don't have an existing environment available to invoke this utility, you must use the sample jobs for the Tivoli Management Services on z/OS product and install it first. This will install the FMID containing the job generation utility and the latest maintenance. Then you can invoke the utility from the target library TKANCUS to install other products in the package.

The job generation utility can be invoked from the SMP/E target library with the low-level qualifier of TKANCUS, launch the utility by using ISPF option 6 and entering the following command.

```
ex '&gbl_target_hilev.TKANCUS'
```

Select "SMP/E-install z/OS products with Install Job Generator (JOBGEN)" from the Installation and Configuration Tool main menu.

You can use the online help available as a tutorial to become familiar with the utility and its processes.

6.1.4.1 Introduction to the Job Generator

The job generation utility creates a set of jobs to define a SMP/E environment (CSI and supporting data sets), allocate product libraries (target and distribution zone data sets and DDDEFS), and install the products (RECEIVE APPLY ACCEPT). You can use these jobs to create a totally new environment or to install the products into an existing CSI.

Processing Steps

- The jobs are generated from a series of ISPF interactive panels and ISPF file tailoring.
- The initial step is selection of the product mix. The set of products will determine any additions to the basic set of values needed to create the JCL.

Note: Install Job Generator (JOBGEN) output library: You can specify the Install Job Generator (JOBGEN) output library during the PARMGEN "KCIJPCFG Set up/Refresh PARMGEN work environment" configuration processing to reuse parameter values such as the jobcard and CSI values related to CALLLIBS and USS install directory override data.

Process Log

- One of the members of the generated job library is KCIJGLOG, which is the process log.
- This member shows the generating parameters and internal lists that were used to create the batch jobs.
- It also indicates which jobs were actually produced and need to be run. Note that the RECEIVE, APPLY, and ACCEPT jobs are always generated even if the selected products are already in the target CSI. In that case, the jobs install additional maintenance when available.

6.1.4.2 Product Selection

You can select one or more products from a table that will determine the set of FMIDs to install. You must select at least one product and you should always select the appropriate version of the IBM Tivoli Management Services on z/OS product (5698-A79) that is an installation requisite for this product offering. This will install the necessary FMIDs and maintenance for a new environment but also ensure any requisite maintenance will be processed when installing into an existing environment.

The selection table contains information about all of the supported products and might contain entries for products that you do not have or do not wish to install. Select only those products that are available in the package delivered and that you want to install.

6.1.4.3 Installing into an existing CSI

When the high-level qualifiers point to an existing environment, the job generation utility eliminates the jobs that allocate and initialize the CSI.

The job generation utility suppresses the creation of libraries that already exist in the target environment. Instead, the generator creates a job to determine whether sufficient space is available for any additional data to be installed into the libraries.

The member KCIJGANL is generated to report on the available space for each of the existing libraries that will have new data. However, KCIJGANL cannot check for the maintenance stream requirements.

The space analyzer function is very helpful in identifying data set space issues that might cause X37 abends during APPLY and ACCEPT processing.

6.1.4.4 Job Generator - Update Command

The job generation utility was enhanced to allow dynamic additions to the product table. The UPDATE routine is used to obtain additional data for products that are available but not yet included in the installation job generator table, KCIDJG00.

You must have the product RELFILES available on DASD in order to run this routine and all components of the product must be available. After a successful run, the output of this routine will replace the KCIDJG00 member of the work data set. If you make multiple changes to the data member be sure to save the original member as a backup.

Note: Not all products qualify for inclusion in the job generator process at this time. Refer to the online help for more information about this facility.

6.1.5 Sample Jobs

If you choose not to use the installation job generator utility documented in the previous section, you can use the sample jobs that were originally created for the products included in Tivoli OMEGAMON for z/OS Management Suite. This will require you to research and tailor each of the jobs accordingly. The Relfiles and member names for these sample jobs are provided in the following tables.

The sample jobs provided expect a CSI to exist already.

<i>Figure 28 (Page 1 of 2). Sample Installation Jobs for IBM Tivoli OMEGAMON XE on z/OS</i>			
Job Name	Job Type	Description	RELFILE
KM5J3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HKM5530.F20
KM5J4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HKM5530.F20
KM5J5REC	RECEIVE	Sample RECEIVE job	IBM.HKM5530.F20

Figure 28 (Page 2 of 2). Sample Installation Jobs for IBM Tivoli OMEGAMON XE on z/OS

Job Name	Job Type	Description	RELFILE
KM5J6APP	APPLY	Sample APPLY job	IBM.HKM5530.F20
KM5J7ACC	ACCEPT	Sample ACCEPT job	IBM.HKM5530.F20

Figure 29. Sample Installation Jobs for IBM Tivoli OMEGAMON XE for Mainframe Networks

Job Name	Job Type	Description	RELFILE
KN3J3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HKN3530.F14
KN3J4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HKN3530.F14
KN3J5REC	RECEIVE	Sample RECEIVE job	IBM.HKN3530.F14
KN3J6APP	APPLY	Sample APPLY job	IBM.HKN3530.F14
KN3J7ACC	ACCEPT	Sample ACCEPT job	IBM.HKN3530.F14

Figure 30. Sample Installation Jobs for IBM OMEGAMON for Storage on z/OS

Job Name	Job Type	Description	RELFILE
KS3J3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HKS3540.F16
KS3J4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HKS3540.F16
KS3J5REC	RECEIVE	Sample RECEIVE job	IBM.HKS3540.F16
KS3J6APP	APPLY	Sample APPLY job	IBM.HKS3540.F16
KS3J7ACC	ACCEPT	Sample ACCEPT job	IBM.HKS3540.F16

Figure 31. Sample Installation Jobs for IBM Tivoli OMEGAMON Dashboard Edition on z/OS

Job Name	Job Type	Description	RELFILE
KWOJ3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.JKWO530.F2
KWOJ4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.JKWO530.F2
KWOJ5REC	RECEIVE	Sample RECEIVE job	IBM.JKWO530.F2
KWOJ6APP	APPLY	Sample APPLY job	IBM.JKWO530.F2
KWOJ7ACC	ACCEPT	Sample ACCEPT job	IBM.JKWO530.F2

Figure 32. Sample Installation Jobs for IBM OMEGAMON for JVM

Job Name	Job Type	Description	RELFILE
KJJJ3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HKJJ540.F12
KJJJ4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HKJJ540.F12
KJJJ5REC	RECEIVE	Sample RECEIVE job	IBM.HKJJ540.F12
KJJJ6BDI	MKDIR	Sample job to invoke the supplied KJMKDIR EXEC to allocate file system paths	IBM.HKJJ540.F12
KJJJ7APP	APPLY	Sample APPLY job	IBM.HKJJ540.F12
KJJJ8ACC	ACCEPT	Sample ACCEPT job	IBM.HKJJ540.F12

Figure 33. Sample Installation Jobs for IBM Tivoli OMEGAMON for z/OS Management Suite ID

Job Name	Job Type	Description	RELFILE
BNKJ3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HOMS541.F2
BNKJ4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HOMS541.F2
BNKJ5REC	RECEIVE	Sample RECEIVE job	IBM.HOMS541.F2
BNKJ6APP	APPLY	Sample APPLY job	IBM.HOMS541.F2
BNKJ7ACC	ACCEPT	Sample ACCEPT job	IBM.HOMS541.F2

Figure 34. Sample Installation Jobs for IBM Tivoli Discovery Library Adapter for z/OS

Job Name	Job Type	Description	RELFILE
IZDJALLO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HIZD310.F1
IZDJDDDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HIZD310.F1
IZDJRECD	RECEIVE	Sample RECEIVE job	IBM.HIZD310.F1
IZDJAPP	APPLY	Sample APPLY job	IBM.HIZD310.F1
IZDJACC	ACCEPT	Sample ACCEPT job	IBM.HIZD310.F1

Note: The DLA (HIZD310 FMID) component should be installed using the sample jobs.

The installation of Tivoli OMEGAMON for z/OS Management Suite requires the Tivoli Enterprise Monitoring Server on z/OS be installed in the CSI. Refer to the *Program Directory for IBM Tivoli Management Services on z/OS* (GI11-4105) for installation instructions of its product components.

You can access the sample installation jobs by performing an SMP/E RECEIVE (refer to 6.1.8, “Perform SMP/E RECEIVE” on page 43) then copy the jobs from the relfiles to a work data set for editing and submission.

You can also copy the sample installation jobs from the tape or product files by submitting the following job. Depending on your distribution medium, use either the //TAPEIN or the //FILEIN DD statement and comment out or delete the other statement. Before you submit the job, add a job card and change the lowercase parameters to uppercase values to meet the requirements of your site.

```
//STEP1 EXEC PGM=IEBCOPY,REGION=4M
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.fmid.relfile,UNIT=tunit,
// VOL=SER=volser,LABEL=(x,SL),
// DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.fmid.relfile,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jcl-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,
// SPACE=(TRK,(10,2,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
SELECT MEMBER=(member-names)
/*
```

See the following information to update the statements in the previous sample:

fmid.relfile is the file name containing the installation jobs for each product listed previously in this section.

TAPEIN:

tunit is the unit value that matches the product package.

volser is the volume serial that matches the product package.

x is the tape file number that indicates the location of the data set name on the tape.

See the documentation that is provided by CBPDO for the location of IBM.fmid.relfile is on the tape.

FILEIN:

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT:

jcl-library-name is the name of the output data set where the sample jobs are stored.

dasdvol is the volume serial of the DASD device where the output data set resides.

SYSIN:

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

Change **member-names** to the list of members related to the **fmid.relfile** chosen for this job.

6.1.6 Allocate SMP/E Target and Distribution Libraries

Edit and submit the generated job KCIJGALO to allocate the SMP/E target and distribution libraries for Tivoli OMEGAMON for z/OS Management Suite.

If you are not using the generated allocation job, select the sample allocation job for each of the products included. Edit and submit it after making appropriate changes for your environment. Consult the instructions in the sample job for more information. Consider the following issues before submitting the job.

- If you are installing into an existing environment, you might have to remove lines for data sets that already exist.
- If you are installing into an existing environment that has the data sets already allocated, ensure sufficient space and directory blocks are available to support the requirement listed in the DASD tables. This might require you to reallocate some data sets to avoid x37 abends.

Expected Return Codes and Messages: 0

6.1.7 Create DDDEF Entries

Edit and submit the generated job KCIJGDDF to create DDDEF entries for the SMP/E target and distribution libraries for Tivoli OMEGAMON for z/OS Management Suite.

If you are not using the generated job, select the sample DDDEF job for each of the products included. Edit and submit it after making appropriate changes for your environment. Consult the instructions in the sample job for more information. If you are installing into an existing environment, you might have to remove lines for data sets that already exist.

Expected Return Codes and Messages: 0

6.1.8 Perform SMP/E RECEIVE

If you have obtained Tivoli OMEGAMON for z/OS Management Suite as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the Tivoli OMEGAMON for z/OS Management Suite FMIDs, service, and HOLDDATA that are included on the CBPDO package. For more information, see the documentation that is included in the CBPDO.

You can also choose to edit and submit the generated job KCIJGREC to perform the SMP/E RECEIVE for Tivoli OMEGAMON for z/OS Management Suite. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: 0

6.1.9 Allocate, create and mount ZFS Files (Optional)

This job allocates, creates a mountpoint, and mounts zFS data sets.

You can choose to create a new file system for this product installation by copying, editing, and submitting the JCL below. Add a job card and change all occurrences of the following lowercase variables to values suitable for your installation before submitting.

#zfsdsn - The dsname of your zFS directory.
#volser - The volume serial number for the DASD that will contain the new file system.
#zfsdir - The zFS directory where this product will be installed.
The recommended mountpoint is /-PathPrefix-/usr/lpp/kan.
The zFS directory tree is case sensitive. Ensure #zfsdir is an absolute path name and begins with a slash (/).

```
//*****  
//* ALLOCZ This step allocates your zFS data set. *  
//*****  
//ALLOCZ EXEC PGM=IDCAMS  
//SYSPRINT DD SYSOUT=*  
//SYSIN DD *  
    DEFINE CLUSTER(NAME(#zfsdsn) -  
        LINEAR CYLINDERS(15 5) SHAREOPTIONS(3) VOLUMES(#volser))  
/*  
//*****  
//* FORMAT This step formats your newly created zFS data set. *  
//* When executing the IOEAGFMT program you must have *  
//* superuser authority (UID 0) or READ authority to the *  
//* SUPERUSER.FILESYS.PFCTL profile in the UNIXPRIV class. *  
//*****  
//FORMAT EXEC PGM=IOEAGFMT,REGION=0M,  
//    PARM=('-aggregate #zfsdsn -compat')  
//STEPLIB DD DSN=IOE.SIOELMOD,DISP=SHR  
//SYSPRINT DD SYSOUT=*  
//*****  
//* MAKEDIR This step creates the directory path for your *  
//* Mount Point *  
//*****  
//MAKEDIR EXEC PGM=IKJEFT01  
//SYSTSPRT DD SYSOUT=*  
//SYSTSIN DD *  
    PROFILE WTPMSG MSGID  
    MKDIR '#zfsdir' MODE(7,5,5)  
    PROFILE  
/*  
//*****  
//* MOUNT This step MOUNTS your newly created zFS File System *  
//* using the AGGRGROW parameter. *  
//*****
```

```

//*****
//MOUNT EXEC PGM=IKJEFT01
//SYSTSPRT DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSTSIN DD *
MOUNT FILESYSTEM('#zfsdsn') +
TYPE(ZFS) MODE(RDWR) PARM('AGGRGROW') +
MOUNTPOINT('#zfsdir')
/*

```

Expected Return Codes and Messages: 0

6.1.10 Allocate File System Paths

If you are installing the OMEGAMON for JVM component, edit and submit the generated job KCIJGBDI to define the file system paths.

If you are not using the generated job, select the sample job KJJJ6BDI. Edit and submit it after making appropriate changes for your environment. Consult the instructions in the sample job for more information. Consider the following items before submitting the job.

Important Notes:

1. The Relfile containing the KJMKDIR exec must be available prior to running this job. The Relfile needed is HKJJ540.F12 and should be available after running the Receive job.
2. This job must be run before the Apply job.
3. This job must be run by a user ID that has superuser authority (UID=0) or read access to resource BPX.SUPERUSER under the FACILITY profile and superuser authority must be activated.
4. The user ID must have read access to the BPX.FILEATTR.APF and BPX.FILEATTR.PROGCTL resource profiles in the RACF FACILITY class.
5. If you plan to create a new file system for this product, ensure it is created before submitting this job to define file system paths.
6. The file system must be in read/write mode before this job is run.
7. If you create a new file system for Tivoli OMEGAMON for z/OS Management Suite, consider updating the BPXPRMxx PARMLIB member to mount the new file system at IPL time. This action can be helpful if an IPL occurs before the installation is completed.

Expected Return Codes and Messages: 0

6.1.11 Perform SMP/E APPLY

Ensure that you have the latest HOLDDATA, then edit and submit the generated job KCIJGAPP to perform an SMP/E APPLY CHECK for Tivoli OMEGAMON for z/OS Management Suite.

If you are not using the generated job, select the sample APPLY job for each of the products included. Edit and submit it after making appropriate changes for your environment. Consult the instructions in the sample job for more information.

Important Notes:

1. If the OMEGAMON for JVM component is being installed, the APPLY job must be run by a user ID that has superuser authority (UID=0) or read access to resource BPX.SUPERUSER under the FACILITY profile and superuser authority must be activated.
2. The user ID must also have read access to the BPX.FILEATTR.APF and BPX.FILEATTR.PROGCTL resource profiles in the RACF FACILITY class. This is required for the script to execute successfully and maintain the APF-authorized attributes for all executables and DLLs during unpax.
3. The file system must be in read/write mode before this job is run.

The latest HOLDDATA is available through several different portals, including <http://service.software.ibm.com/holddata/390holddata.html>. The latest HOLDDATA may identify HIPER and FIXCAT APARs for the FMIDs you will be installing. An APPLY CHECK will help you determine if any HIPER or FIXCAT APARs are applicable to the FMIDs you are installing. If there are any applicable HIPER or FIXCAT APARs, the APPLY CHECK will also identify fixing PTFs that will resolve the APARs, if a fixing PTF is available.

You should install the FMIDs regardless of the status of unresolved HIPER or FIXCAT APARs. However, do not deploy the software until the unresolved HIPER and FIXCAT APARs have been analyzed to determine their applicability. That is, before deploying the software either ensure fixing PTFs are applied to resolve all HIPER or FIXCAT APARs, or ensure the problems reported by all HIPER or FIXCAT APARs are not applicable to your environment.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the PRE, ID, REQ, and IFREQ on the APPLY CHECK. The SMP/E root cause analysis identifies the cause only of *errors* and not of *warnings* (SMP/E treats bypassed PRE, ID, REQ, and IFREQ conditions as warnings, instead of errors).

Here are sample APPLY commands:

1. To ensure that all recommended and critical service is installed with the FMIDs, receive the latest HOLDDATA and use the APPLY CHECK command as follows

```
APPLY S(fmid,fmid,...) CHECK
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
FIXCAT(IBM.ProductInstall-RequiredService)
GROUPEXTEND .
```

Some HIPER APARs might not have fixing PTFs available yet. You should analyze the symptom flags for the unresolved HIPER APARs to determine if the reported problem is applicable to your environment and if you should bypass the specific ERROR HOLDS in order to continue the installation of the FMIDs.

This method requires more initial research, but can provide resolution for all HIPERs that have fixing PTFs available and are not in a PE chain. Unresolved PEs or HIPERs might still exist and require the use of BYPASS.

2. To install the FMIDs without regard for unresolved HIPER APARs, you can add the BYPASS(HOLDCLASS(HIPER)) operand to the APPLY CHECK command. This will allow you to install FMIDs even though one or more unresolved HIPER APARs exist. After the FMIDs are installed, use the SMP/E REPORT ERRSYSMODS command to identify unresolved HIPER APARs and any fixing PTFs.

```
APPLY S(fmid,fmid,...) CHECK
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
FIXCAT(IBM.ProductInstall-RequiredService)
GROUPEXTEND
BYPASS(HOLDCLASS(HIPER)) .
..any other parameters documented in the program directory
```

This method is quicker, but requires subsequent review of the Exception SYSMOD report produced by the REPORT ERRSYSMODS command to investigate any unresolved HIPERs. If you have received the latest HOLDDATA, you can also choose to use the REPORT MISSINGFIX command and specify Fix Category IBM.ProductInstall-RequiredService to investigate missing recommended service.

If you bypass HOLDS during the installation of the FMIDs because fixing PTFs are not yet available, you can be notified when the fixing PTFs are available by using the APAR Status Tracking (AST) function of ServiceLink or the APAR Tracking function of ResourceLink.

Expected Return Codes and Messages from APPLY CHECK: 0

After you take actions that are indicated by the APPLY CHECK, remove the CHECK operand and run the job again to perform the APPLY.

Note: The GROUPEXTEND operand indicates that SMP/E applies all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

If the BYPASS operand is not included in the control statement when processing a PTF with a ++HOLD statement, the job will get a return code of 12 and the following message.

```
GIM30206E command PROCESSING FAILED FOR SYSMOD sysmod.
        HOLD REASON IDS WERE NOT RESOLVED.
```

Expected Return Codes and Messages from APPLY: 4

You can receive many of the following messages depending on your environment. These messages can be ignored, because they will not affect product execution.

```

GIM23913W LINK-EDIT PROCESSING FOR SYSMOD aaaaaa
          WAS SUCCESSFUL FOR MODULE bbbbbbb IN
          LMOD ccccccc IN THE ddddddd LIBRARY. THE
          RETURN CODE WAS ee. DATE yy.ddd -- TIME
          hh:mm:ss -- SEQUENCE NUMBER nnnnnn --
          SYSPRINT FILE ffffffff.

IEW2454W SYMBOL symbol UNRESOLVED. NO AUTOCALL (NCAL) SPECIFIED.

IEW2646W ESD RMODE(24) CONFLICTS WITH USER-SPECIFIED
          RMODE(ANY) FOR SECTION section-name.

IEW2651W ESD AMODE amode-value CONFLICTS WITH
          USER-SPECIFIED AMODE amode-value FOR ENTRY
          POINT entry-point-name.

```

Figure 35 contains a list of elements that might be marked as not selected during the APPLY and ACCEPT processes. This might occur because a VERSION parameter was supplied in an FMID indicating that it contained a higher level version of the same element provided by another FMID being processed at the same time. The higher version element is selected for processing and the lower version is not selected for processing. It might also occur because maintenance is being installed at the same time as the FMIDs.

<i>Figure 35 (Page 1 of 6). SMP/E Elements Not Selected</i>					
IZDCDEF	IZDCICSA	IZDCICSC	IZDCICSD	IZDCICSF	IZDCICSM
IZDCICSO	IZDCICSP	IZDCICSS	IZDCICST	IZDIRSCJ	IZDIRSCX
IZDISDBD	IZDISDPD	IZDISPRD	IZDISSD	IZDISTRD	IZDRDLA
IZDSSUBI	IZDUSTRN	KCADEVTO	KCAOSYS0	KCAUCBS0	KCCDGN
KCCENV	KCCIDC	KCCMSG	KCCRTR	KCCTAB	KCCTDS
KCCTDT	KCCTIM	KCCTRC	KCCUCB4	KCCVCT	KCNCFINP
KCNCPYRM	KCNMAINM	KCNUTLIM	KCSINIT	KCSRPTR	KEBDUMMY
KEBEPLG0	KEBFINT0	KEBFPAR0	KEBFSCR0	KEBGTID0	KEBICPW0
KEBINIT	KEBLNKA0	KEBLNKC0	KEBMSGF0	KEBMXA14	KEBNVCR0
KEBNVDL0	KEBNVEA0	KEBNVIQ0	KEBNVOPO	KEBNVSU0	KEBNVUD0
KEBPRFE0	KEBROPN0	KEBSMFI4	KEBSPFD0	KEBSTAE4	KEBSTAK0
KEBTSO0	KEBVSMC0	KEBWKGT0	KEBWKPT0	KEBZSB10	KEB132F0
KEB2ISPF	KEP2XA5	KETAEVML	KETAEXSN	KETAEXTN	KETAPMSN
KETAREFN	KETARFSN	KETARMSA	KETARMSB	KETARMSC	KETASTAN
KETASTPN	KETASTRN	KETASTSN	KETAXTGN	KETAXTSN	KETCADDN
KETCAPRN	KETCAPVN	KETCCKHN	KETCCKRN	KETCCKTN	KETCDELN
KETCESTN	KETCEXTN	KETCININ	KETCINSN	KETCQUIN	KETCREMN

Figure 35 (Page 2 of 6). SMP/E Elements Not Selected

KETCSDMN	KETCSHTN	KETCTRMN	KETDINFO	KETDXLBN	KETDXLDN
KETDXLHN	KETEADDA	KETEADDB	KETEADDC	KETEAI0	KETEATCN
KETEAXLN	KETECLNN	KETECMDA	KETECMDB	KETECMDC	KETECMDD
KETECMDE	KETECMDF	KETECMDG	KETEDTCN	KETEDXLN	KETEESTN
KETEETCA	KETEETCB	KETEETCC	KETEETDN	KETEININ	KETEIXHN
KETELOKN	KETELTCN	KETELXLN	KETEPRMN	KETESMNA	KETESMNB
KETESMNC	KETESMND	KETESMNE	KETESMNF	KETESMNG	KETESTRA
KETESTRB	KETESTRC	KETESTRD	KETESTRE	KETESTRF	KETESTRG
KETESTRN	KETETRMN	KETETXMN	KETPACKN	KETPARSN	KETPCIMN
KETPCLKN	KETPDSLN	KETPFPLN	KETPFPUA	KETPF PUB	KETPF PUC
KETPF PUD	KETPF PUE	KETPF PUF	KETPF PUG	KETPHSHA	KETPHSHB
KETPHSHC	KETPLODN	KETPLOKN	KETPPTMN	KETPQELN	KETPRIMN
KETPRITN	KETPSDNA	KETPSDNB	KETPSDNC	KETPSILN	KETPSINN
KETPSTRN	KETPTENA	KETPTENB	KETPTENC	KETSETE	KETSHOKN
KETSINSN	KETTADCN	KETTADDN	KETTADPN	KETTADSN	KETTAPAN
KETTAPEN	KETTAPRN	KETTAPSN	KETTAPVN	KETTATAN	KETTATEN
KETTCAPA	KETTCAPB	KETTCAPC	KETTCAPD	KETTCAPE	KETTCAPF
KETTCAPG	KETTCKHN	KETTCKRN	KETTCKTA	KETTCKTB	KETTCKTC
KETTCLNN	KETTCMDA	KETTCMDB	KETTCMDC	KETTCOLA	KETTCOLB
KETTCOLC	KETTCONN	KETTCRPA	KETTCRPB	KETTCRPC	KETTCTRA
KETTCTRB	KETTCTRC	KETTDDTN	KETTDELN	KETTDLCN	KETTDLSN
KETTDPAN	KETTDPEN	KETTDTAN	KETTDTEN	KETTEVTA	KETTEVTB
KETTEVTC	KETTEXSN	KETTEXTN	KETTFRDA	KETTFRDB	KETTFRDC
KETTGTGN	KETTGTHN	KETTGTSN	KETHHSA	KETHHKB	KETHHSC
KETHHNB	KETTININ	KETTINSA	KETTINSB	KETTINSC	KETTINSD
KETTINSE	KETTINSF	KETTINSG	KETTINSN	KETTLETN	KETTILTAN
KETTLTEN	KETTNCEN	KETTPEHN	KETTPTAN	KETTREFN	KETTREMN
KETTRSDA	KETTRSDB	KETTRSDC	KETTRTEN	KETTSDMN	KETTSHTN
KETTSPNP	KETTSPEN	KETTSPSN	KETTSTAN	KETTSTDN	KETTSTMN
KETTSTSN	KETTTEUN	KETTTRCN	KETTTRMN	KETTXMIN	KETTXTGN
KETTXTSN	KETUCAPN	KETUCPSN	KETUCRDN	KETUPIDN	KETXCOUN
KETXCPLN	KETXMPSN	KIABGMN	KIACARE	KIACKPG5	KIACMLK5
KIACPUW5	KIADPGN5	KIADWCL5	KIAENQW5	KIAHSP5	KIAIAFM

Figure 35 (Page 3 of 6). SMP/E Elements Not Selected

KIAIAJ25	KIAIAMD	KIAIANL5	KIAIANZ	KIAMDCL5	KIAMDIN5
KIAMNTP0	KIAMSELO	KIAPGSW5	KIAQIOW5	KIARCOL5	KIARECD5
KIARECV5	KIARSMS5	KIASORT0	KIASRMD5	KMVBHELP	KMVCAPFC
KMVCAPFP	KMVCAUTH	KMVCMDEC	KMVCMSCT	KMVDDICT	KMVDINFO
KMVDRNEW	KMVEVIII	KMVKMV2	KMVO2ZM	KMVPBINI	KMVPBPRS
KMVPBSTR	KMVPQCTL	KMVSBATO	KMVSDM02	KMVSEGO2	KMVSIRUL
KMVSLFEP	KMVSMINI	KMVVALID	KMVWBENT	KMV310SC	KMV310SP
KM2CHANP	KM2DASDP	KM2DATA	KM2DFEPA	KM2FETCH	KM2GQSCA
KM2GQSPR	KM2RULES	KM2VEXDC	KM2VSERV	KM2W17D	KM3INPRB
KM3WAIOL	KM3WANQL	KM3WASPE	KM3WASPL	KM3WCLAL	KM3WIAML
KM3WPRDE	KM3WPRDL	KM3WPRTL	KM3WSEGE	KM3WWRKL	KM5ACTT3
KM5AG1	KM5AG2	KM5ASP1H	KM5ASP3H	KM5ASP4H	KM5ATR
KM5BAR	KM5CAT	KM5CHPAS	KM5CPCDH	KM5CPCD2	KM5CPC1H
KM5CPC2H	KM5CPUS	KM5DJDTH	KM5DLY1H	KM5DOC	KM5EXIT3
KM5EXIT4	KM5HDDS	KM5H0001	KM5H0002	KM5H0003	KM5H0004
KM5H0005	KM5H0006	KM5H0007	KM5H0008	KM5H0009	KM5H0010
KM5H0011	KM5H0012	KM5H0013	KM5H0014	KM5H0015	KM5H0016
KM5H0017	KM5H0018	KM5H0019	KM5H0020	KM5H0021	KM5H0022
KM5H0023	KM5H0024	KM5H0025	KM5H0026	KM5H0027	KM5H0028
KM5H0029	KM5H0030	KM5H0031	KM5H0032	KM5H0033	KM5H0034
KM5H0035	KM5H0036	KM5H0037	KM5H0038	KM5H0039	KM5H0040
KM5H0041	KM5H0042	KM5H0043	KM5H0044	KM5H0045	KM5H0046
KM5H0047	KM5H0048	KM5H0049	KM5H0050	KM5H0051	KM5H0052
KM5H0053	KM5H0054	KM5H0055	KM5H0056	KM5H0057	KM5H0058
KM5H0059	KM5H0060	KM5H0061	KM5H0062	KM5H0063	KM5H0064
KM5H0065	KM5H0066	KM5H0067	KM5H0068	KM5H0069	KM5H0070
KM5H0071	KM5H0072	KM5H0073	KM5H0074	KM5H0075	KM5H0076
KM5H0077	KM5H0078	KM5H0079	KM5H0080	KM5H0081	KM5H0082
KM5H0083	KM5H0084	KM5H0085	KM5H0086	KM5H0087	KM5H0088
KM5H0089	KM5H0090	KM5H0091	KM5H0092	KM5H0093	KM5H0094
KM5H0095	KM5H0096	KM5H0097	KM5H0098	KM5H0099	KM5H0100
KM5H0101	KM5H0102	KM5H0103	KM5H0104	KM5H0105	KM5H0106
KM5H0107	KM5H0108	KM5H0109	KM5H0110	KM5H0111	KM5H0112

Figure 35 (Page 4 of 6). SMP/E Elements Not Selected

KM5INDEX	KM5JLFRD	KM5JSTMS	KM5JSTPS	KM5JSTPW	KM5LPRDH
KM5MAP	KM5MSMAN	KM5MSUO	KM5PDICT	KM5RMFC	KM5RMF00
KM5SEXIT	KM5SPDAS	KM5STRTI	KM5THRSH	KM5TOPC	KM5TPDRS
KM5WSCBH	KM5WSCCH	KM5WSCDH	KM5WSCO	KM5WSCS2	KM5WSCXH
KM5ZAAC	KN3ACTCH	KN3AGENT	KN3ANMLM	KN3EECO2	KN3EEDS
KN3ENTTZ	KN3JSTMS	KN3JSTPS	KN3JSTPW	KN3MSMAN	KN3PDICT
KN3TASO	KN3TCLS	KN3TCLS2	KN3TCPI	KN3TCPO	KN3TCPU
KN3THRSH	KN3TNAF	KN3VRTMS	KOB\$VERT	KOBABOUT	KOBACMDS
KOBAFF01	KOBAG2	KOBBASEM	KOBBCM1M	KOBBLOGM	KOBBMSGM
KOBBR##M	KOBCALLM	KOBCATTC	KOBCBLK\$	KOBCBLK@	KOBCBLKQ
KOBCENV\$	KOBCENV@	KOBCENVG	KOBCENVV	KOBCFGAP	KOBCIDSM
KOBCIFCM	KOBCIFEM	KOBCIGCM	KOBCIGEM	KOBCIGLM	KOBCIAR
KOBCIIDR	KOBCIIPM	KOBCIIRR	KOBCIITM	KOBCIUM	KOBCIOBE
KOBCIOST	KOBCIPRR	KOBCIROM	KOBCISDR	KOBCISRM	KOBCITRM
KOBCJUMP	KOBCLOCK	KOBCMAP\$	KOBCMAP@	KOBCMAPI	KOBCMDDM
KOBCMDVM	KOBCRACF	KOBCSART	KOBCSOC\$	KOBCSOC@	KOBCSOCK
KOBCSTIO	KOBCSTLB	KOBCSTRN	KOBCTHR\$	KOBCTHR@	KOBCTHRD
KOBCTIME	KOBCTRAC	KOBCTREE	KOBCTYPE	KOBCUA	KOBCULKS
KOBCUNIS	KOBCUXIO	KOBCVSTG	KOBCWTOL	KOBCZDIO	KOBDATA1
KOBDELFM	KOBDEV#T	KOBDFMTM	KOBDIR#T	KOBDSPCT	KOBDSQZM
KOBDSSYS	KOBENUS	KOBENV#T	KOBESAIS	KOBEXCDM	KOBGATW0
KOBGDFNM	KOBGWCND	KOBGWCV\$	KOBGWCV#	KOBGWCV@	KOBGWCVVA
KOBGWLPA	KOBGWOBV	KOBGWRE\$	KOBGWRE@	KOBGWREG	KOBHASH1
KOBHBCOL	KOBHBGET	KOBHBMSL	KOBHBTPO	KOBHISN1	KOBHISN2
KOBHISN4	KOBHISTC	KOBHLAUT	KOBHLCMD	KOBHLDIR	KOBHLICO
KOBHLREF	KOBHLRTR	KOBHTTP\$	KOBHTTP#	KOBHTTP@	KOBHTTPL
KOBHTTTPS	KOBHTTTPW	KOBHUBCK	KOBHUBIN	KOBHUBPR	KOBHUBS
KOBHUB07	KOBH0012	KOBICMDM	KOBICM1M	KOBICM2M	KOBICM3M
KOBILCSM	KOBILC1M	KOBINDEX	KOBINITM	KOBINPWM	KOBINT#M
KOBINTXT	KOBINT1M	KOBINT2T	KOBIPRFM	KOBIPROM	KOBISSSM
KOBIVCMM	KOBJAP0	KOBJCA0	KOBJCC0	KOBJCD0	KOBJCG0
KOBJCI0	KOBJCM0	KOBJCR0	KOBJCT0	KOBJCW0	KOBJCX0
KOBLJF	KOBLJG0	KOBLJMC0	KOBLJMP0	KOBLJMS0	KOBLJMT0

Figure 35 (Page 5 of 6). SMP/E Elements Not Selected

KOJOIN1	KOBJ640	KOBLEXCM	KOBLGINI	KOBLGSND	KOBLGSRV
KOBLGTBL	KOBLGWTO	KOBLISTN	KOBLOFLT	KOBLOGCM	KOBLOG10
KOBMEM	KOBMODS	KOBM5IN1	KOBOBVA\$	KOBOBVA@	KOBOBVAP
KOBODAPP	KOBODCOL	KOBODENM	KOBODI	KOBODIL\$	KOBODIL@
KOBODILD	KOBODISC	KOBODTAB	KOBODUTL	KOBOMIOM	KOBO4H01
KOBO4SRV	KOBPARS	KOBPDEVT	KOBPDHST	KOBPDSD	KOBPDSI0
KOBPDSS	KOBPEEKT	KOBPPRFM	KOBPRFAU	KOBPRFCL	KOBPRFDT
KOBPRFHB	KOBPRFHS	KOBPRFIP	KOBPRFIS	KOBPRFSS	KOBPRFTB
KOBPRFWN	KOBPR2TB	KOBQRYEX	KOBREGAP	KOBRES01	KOBRGDRA
KOBRMFAR	KOBRMFBR	KOBRMFCR	KOBRMF5X	KOBRMF6S	KOBRMF7S
KOBRMF8R	KOBRMF9R	KOBROUTM	KOBRRUI\$	KOBRRUI@	KOBRRUIA
KOBRRWK\$	KOBRRWK@	KOBRRWKR	KOBRSMGR	KOBRSMG1	KOBRXFM
KOBRXFMT	KOBRXFM0	KOBRXGDR	KOBRXGEN	KOBRXGFC	KOBRXGM
KOBRXGNV	KOBXL0D	KOBXPDR	KOBXQRY	KOBXSET	KOBZFM0
KOBZFNL	KOBZGDM	KOBZGDR	KOBZGFC	KOBZGM0	KOBZGNV
KOBZHZST	KOBZLDR	KOBZPDR	KOBZSNV	KOBSCICS	KOBSCCTG
KOBSDB2	KOBSSELLM	KOBSEPAM	KOBSEUPM	KOBSHART	KOBSIMS
KOBSITA	KOBSITAL	KOBSITD	KOBSITDB	KOBSITD0	KOBSITD1
KOBSITD2	KOBSITD3	KOBSITD4	KOBSITEI	KOBSITI	KOBSITMG
KOBSITMN	KOBSITP	KOBSITS	KOBSITST	KOBSITT1	KOBSITT2
KOBSIT00	KOBSIT01	KOBSIT02	KOBSIT03	KOBSJVM	KOBSMFN
KOBSMQ	KOBSPATM	KOBSPAUM	KOBSPF#M	KOBSPSWM	KOBSPVTM
KOBSRBDM	KOBSRT01	KOBSSTOR	KOBSS005	KOBSTART	KOBSTBLD
KOBSTOR	KOBSTUBM	KOBSUB#M	KOBSUBET	KOBSUBXM	KOBSUB1M
KOBSUB2M	KOBSUB3M	KOBSUB4T	KOBSZOS	KOBTBL01	KOBTBFA
KOBTCBS	KOBTCCCL\$	KOBTCCLA	KOBTERRM	KOBTHRMT	KOBTHRSH
KOBTKACT	KOBTKJLX	KOBTKMEM	KOBTKSTG	KOBTKTCB	KOBTSO#M
KOBUICM0	KOBUICS0	KOBUIEP0	KOBUIFD0	KOBUIGD0	KOBUIGL0
KOBUIGO0	KOBUIGP0	KOBUIGS0	KOBUIHL0	KOBUIHS0	KOBUILG0
KOBUILO0	KOBUIMC0	KOBUIMG0	KOBUIML0	KOBUIM10	KOBUIM20
KOBUIM30	KOBUIM40	KOBUIM50	KOBUIM60	KOBUIM70	KOBUIM80
KOBUIM90	KOBUINI0	KOBUINTM	KOBUINV0	KOBUIPA0	KOBUIPS0
KOBUIPT0	KOBUISC0	KOBUISD0	KOBUITK0	KOBUITR0	KOBUIVI0

Figure 35 (Page 6 of 6). SMP/E Elements Not Selected

KOBUIVS0	KOBUIWG0	KOBUPFCM	KOBUPFDM	KOBUPFIM	KOBUPFSM
KOBUSERD	KOBUSERS	KOBUTFMT	KOBUTSET	KOBVDRVM	KOBVEXIM
KOBVGETM	KOBVINIM	KOBVLOGM	KOBVPUTM	KOBVTERM	KOBVTM1M
KOBVTSRM	KOBVUTLM	KOBVZAPM	KOBXACBM	KOBXASBT	KOBXGSWM
KOBXMSDM	KOBXMZPM	KOB3270S	KOEEMCS	KOMAPATM	KOMAS5
KOMAUTH5	KOMCACH	KOMCHNM5	KOMCMDT5	KOMCMSR5	KOMCPUM
KOMCSAA5	KOMDSN	KOMFMOD5	KOMFNDU	KOMFNDU5	KOMHDSP
KOMHDSP5	KOMHEX5	KOMINSP	KOMLCPU	KOMLPAM5	KOMMDEX5
KOMMISC5	KOMMPAG5	KOMNCLV5	KOMPART5	KOMPBM0	KOMPBM15
KOMPBM2	KOMPBM3	KOMPGRP5	KOMPQRY5	KOMPWAI5	KOMRMIR3
KOMRTA1	KOMRTA25	KOMSART5	KOMSCPU5	KOMSEEK5	KOMSRCT5
KOMSR24	KOMSTAT5	KOMSYENV	KOMSYS5	KOMTRAC5	KOMTSO5
KOMUPF1	KOMUPF2	KOMWBAK5	KOMWLM5	KOMWPF5	KOMXAS5
KOMXDEV5	KOMXMSR5	KOMXQCB5	KOMXSJ5	KOMYRMSU	KOMZOCMD
KONDABTD	KONDMSGV	KONDSTRT	KON56SJ5	KOSASRSE	KOSASRSL
KOSCFMML	KOSCFLOC	KOSCFMML	KOSCFOML	KOSCFMML	KOSCFMML
KOSECTLL	KOSECTLU	KOESGXL	KOSFACTI	KOSGGRSL	KOSGNQRE
KOSGNQRL	KOSGNQTL	KOSGQSCA	KOSGQSRN	KOSOEKNL	KOSPXSML
KOSSTART	KOSWAIOL	KOSWANQL	KOSWASCL	KOSWASEE	KOSWASPE
KOSWASPL	KOSWCLAL	KOSWCSVL	KOSWDTME	KOSWENVL	KOSWIALD
KOSWIALI	KOSWIALL	KOSWIAML	KOSWPGRL	KOSWPIOL	KOSWPNQL
KOSWPOLL	KOSWPRDE	KOSWPRDL	KOSWPRTL	KOSWRSGL	KOSWSEGE
KOSWSWDL	KOSWWRKL	KOSXCGML	KOSXCMML	KOSXCPML	KOSXCSML
KOSXSYSL	KOS2SGML	KSDSLADR	KSDSLCMD	KSDSLDAT	KSDSLFDR
KSDSLFND	KSDSLIDX	KSDSLINF	KSDSLRED	KSDTRPXT	KWOBHHELP
KWODDICT	KWODINFO	KWOKWO2	KWOSBATO	KWO310SP	KXDCMDEX
KXDCMDIR	KXDCMDSH	KXDCMDST	KXDCMDS1	KXDDELAY	KXDENFUE
KXDE55UE	KXDFDCON	KXDMAIN	KXDM3KCO	KXDM3ZF	KXDSESV
KXDSTART	KXDSTUB	KXDTRAP	KXDWLCON		

After installing new function, you should perform two operations:

1. Create a backup of the updated data sets, including any SMP/E data sets affected, in case something happens to the data sets during the next phase.
2. Do some testing before putting the new function into production.

After you are satisfied that an applied SYSMOD has performed reliably in your target system, you can install it in your distribution libraries using the ACCEPT process.

Another good practice is to accept most SYSMODs, particularly FMIDs, before performing another APPLY process. This provides you the ability to use the RESTORE process of SMP/E and to support the scenario where SMP/E needs to create a new load module from the distribution libraries during the APPLY process.

6.1.12 Perform SMP/E ACCEPT

Edit and submit the generated job KCIJGACC to perform an SMP/E ACCEPT CHECK for Tivoli OMEGAMON for z/OS Management Suite.

If you are not using the generated job, select the sample ACCEPT job for each of the products included. Edit and submit it after making appropriate changes for your environment. Consult the instructions in the sample job for more information.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the PRE, ID, REQ, and IFREQ on the ACCEPT CHECK. The SMP/E root cause analysis identifies the cause of *errors* but not *warnings* (SMP/E treats bypassed PRE, ID, REQ, and IFREQ conditions as warnings rather than errors).

Before you use SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. In this way, you can save the entries that are produced from JCLIN in the distribution zone whenever a SYSMOD that contains inline JCLIN is accepted. For more information about the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E Commands documentation for details.

Expected Return Codes and Messages from ACCEPT CHECK: 0

After you take actions that are indicated by the ACCEPT CHECK, remove the CHECK operand and run the job again to perform the ACCEPT.

Note: The GROUPEXTEND operand indicates that SMP/E accepts all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

If the BYPASS operand is not included in the control statement when processing a PTF with a ++HOLD statement, the job will get a return code of 12 and the following message.

```
GIM30206E command PROCESSING FAILED FOR SYSMOD sysmod.  
        HOLD REASON IDS WERE NOT RESOLVED.
```

If PTFs that contain replacement modules are accepted, SMP/E ACCEPT processing will link-edit or bind the modules into the distribution libraries. During this processing, the Linkage Editor or Binder might issue messages that indicate unresolved external references, which will result in a return code of 4 during the ACCEPT phase. You can ignore these messages, because the distribution libraries are not executable and the unresolved external references do not affect the executable system libraries.

Expected Return Codes and Messages from ACCEPT: 4

Figure 35 on page 48 contains a list of elements that might be marked as not selected during the APPLY and ACCEPT processes. This might occur because a VERSION parameter was supplied in an FMID indicating that it contained a higher level version of the same element provided by another FMID being processed at the same time. The higher version element is selected for processing and the lower version is not selected for processing. It might also occur because maintenance is being installed at the same time as the FMIDs.

6.2 Activating Tivoli OMEGAMON for z/OS Management Suite

Prior to activating the products included in Tivoli OMEGAMON for z/OS Management Suite, IBM recommends you review the Quick Start Guide as well as the **First time deployment guide (FTU installation and tasks)** and Planning and Configuring topics if you have not already done so. This documentation focuses on the things you will need to know for a successful deployment of the products included in this package.

Note: Install Job Generator (JOBGEN) output library: You can specify the Install Job Generator (JOBGEN) output library during the PARMGEN "KCIJPCFG Set up/Refresh PARMGEN work environment" configuration processing to reuse parameter values such as the jobcard and CSI values related to CALLLIBS and USS install directory override data.

Activating the products included in Tivoli OMEGAMON for z/OS Management Suite requires you to use the OMEGAMON XE shared publications and the configuration guides for each product listed in Figure 1 on page 6.

This documentation can be found online at:

<http://www.ibm.com/support/knowledgecenter/SS5PJ9/welcome>

6.2.1 File System Execution

If you mount the file system in which you have installed the OMEGAMON for JVM component in read-only mode during execution, then you do not have to take further actions.

7.0 Notices

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