

Program Directory for IBM Tivoli OMEGAMON XE on z/OS

V5.3.0

Program Number 5698-T01

for Use with z/OS

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GI13-2207-04

- Note -

Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 34.

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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 XE on z/OS. This publication refers to IBM Tivoli OMEGAMON XE on z/OS as OMEGAMON XE on z/OS.

The Program Directory contains the following sections:

- 2.0, "Program Materials" on page 3 identifies the basic program materials and documentation for OMEGAMON XE on z/OS.
- 3.0, "Program Support" on page 6 describes the IBM support available for OMEGAMON XE on z/OS.
- 4.0, "Program and Service Level Information" on page 8 lists the APARs (program level) and PTFs (service level) that have been incorporated into OMEGAMON XE on z/OS.
- 5.0, "Installation Requirements and Considerations" on page 9 identifies the resources and considerations that are required for installing and using OMEGAMON XE on z/OS.
- 6.0, "Installation Instructions" on page 23 provides detailed installation instructions for OMEGAMON XE on z/OS. It also describes the procedures for activating the functions of OMEGAMON XE on z/OS, or refers to appropriate publications.

Before installing OMEGAMON XE on z/OS, 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 6 tells you how to find any updates to the information and procedures in this program directory.

OMEGAMON XE on z/OS 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 OMEGAMON XE on z/OS are included on the CBPDO tape.

Do not use this program directory if you install OMEGAMON XE on z/OS 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 OMEGAMON XE on z/OS Description

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 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. You must migrate your Configuration Tool (ICAT) setting to PARMGEN at APAR OA45024 level (HKCI310 PTF UA73689) since the Configuration Tool is no longer supported.

New in OMEGAMON XE on z/OS V5.3.0:

- Tivoli Common Reporting 3.1, V2.1.1 reports are available on Service Management Connect.
- Enhancements to further increase the usability and functionality of the enhanced 3270 user interface (3270UI).
 - Supports near term history for the enhanced 3270 user interface workspaces.
 - Support for embedded data.
 - Transaction file and database details.
- 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.

1.2 OMEGAMON XE on z/OS FMIDs

OMEGAMON XE on z/OS consists of the following FMIDs:

HKM5530 HKET620 HKOB730 HKSB730

2.0 Program Materials

An IBM program is identified by a program number. The program number for OMEGAMON XE on z/OS is 5698-T01.

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

The program announcement material describes the features supported by OMEGAMON XE on z/OS. 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 23 for more information about how to install the program.

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

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for OMEGAMON XE on z/OS.

2.3 **Program Publications**

The following sections identify the basic publications for OMEGAMON XE on z/OS.

Figure 1 identifies the basic unlicensed publications for OMEGAMON XE on z/OS.

The unlicensed documentation for OMEGAMON XE on z/OS can be found on the IBM Knowledge Center at http://www.ibm.com/support/knowledgecenter/SS2JNN/welcome.

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

Planning and Configuration Guide

User's Guide

Troubleshooting Guide

OMEGAMON for MVS User's Guide

Figure 1 (Page 2 of 2). Basic Material: Unlicensed Publications
Publication Title
OMEGAMON for MVS Command and Keywords Reference
EPILOG for MVS User s Guide
EPILOG for MVS Command Reference
OMEGAMON XE and Tivoli Management Services on z/OS shared documentation
New in this Release
Overview
Guetting started
Planning
Installing
Upgrading
Configuring
Scenarios and how-tos
Reference

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/welcome

Prior to installing OMEGAMON XE on z/OS, IBM recommends you review the Quick Start guide as well as the Planning and Configuration guides if you have not already done so. This documentation focuses on the things you will need to know for a successful installation and configuration of this product.

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 OMEGAMON XE on z/OS.

2.5 Publications Useful During Installation

You might want to use the publications listed in Figure 2 during the installation of OMEGAMON XE on z/OS.

Figure 2. Publications Useful During Installation	
Publication Title	Form Number
IBM SMP/E for z/OS User's Guide	SA22-7773
IBM SMP/E for z/OS Commands	SA22-7771
IBM SMP/E for z/OS Reference	SA22-7772
IBM SMP/E for z/OS Messages, Codes, and Diagnosis	GA22-7770

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 OMEGAMON XE on z/OS.

3.1 Program Services

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

3.2 Preventive Service Planning

Before you install OMEGAMON XE on z/OS, 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 6.1.9, "Perform SMP/E APPLY" on page 28 for a sample APPLY command.

If you obtained OMEGAMON XE on z/OS as part of a CBPDO, HOLDDATA is included.

If the CBPDO for OMEGAMON XE on z/OS 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-01.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 OMEGAMON XE on z/OS are included in Figure 3.

This product has an installation requirement for IBM Tivoli Management Services on z/OS V6.3.0 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
	HKSB730	Shared Probes

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 OMEGAMON XE on z/OS.

Figure 4. Component IDs			
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
HKSB730	5608A41SP	Shared Probes	730

4.0 Program and Service Level Information

This section identifies the program and relevant service levels of OMEGAMON XE on z/OS. 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 OMEGAMON XE on z/OS have been incorporated into this release. They are listed by FMID.

• FMID HKM5530

0A387250A388080A389110A389150A390090A393060A393950A395790A397620A397780A399700A400080A400430A400480A402070A402620A403110A403660A404670A404970A405780A407130A407570A408390A409130A409910A410130A410580A410650A412190A413310A413580A415560A415630A416000A416340A417010A418210A418310A420720A421150A421220A421280A424990A426020A427490A427840A428510A429300A429560A429890A430400A431210A432970A433530A43650A43631

• FMID HKET620

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

FMID HKOB730

0A38724 0A38914 0A39194 0A39399 0A39622 0A39639 0A39649 0A39671 0A39889 0A40088 0A40373 0A40429 0A40800 0A40853 0A40973 0A41117 0A41153 0A4133 0A41451 0A41552 0A41669 0A41694 0A42127 0A42259 0A42748 0A42958 0A43096 0A43163 0A43364 0A43638

FMID HKSB730

OA43611 OA45090

4.2 Service Level Information

No PTFs against this release of OMEGAMON XE on z/OS have been incorporated into the product package.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating OMEGAMON XE on z/OS. 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 OMEGAMON XE on z/OS.

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. Drivir	ng System Software Red	quirements		
Program Product Number Name		Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
Any one of the	following:			
5694-A01	z/OS	V01.13.00	N/A	No
5650-ZOS	z/OS	V02.01.00	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 V03.05.00.

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.

5.2 Target System Requirements

This section describes the environment of the target system required to install and use OMEGAMON XE on z/OS.

OMEGAMON XE on z/OS 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. Ta	rget System Mandatory Install	ation Requisites		
Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
5694-A01	z/OS	V01.13.00	N/A	No
5650-ZOS	z/OS	V02.01.00	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.

OMEGAMON XE on z/OS 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. These products are specified as PREs or REQs.

Figure 7. Target System Mandatory Operational Requisites		
Program Number	Product Name and Minimum VRM/Service Level	
5694-A01	z/OS V01.13.00	
5650-ZOS	z/OS V02.01.00	
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.

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.

OMEGAMON XE on z/OS 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.

OMEGAMON XE on z/OS has no negative requisites.

5.2.3 DASD Storage Requirements

OMEGAMON XE on z/OS libraries can reside on all supported DASD types.

Figure 8 lists the total space that is required for each type of library.

Figure 8. Total DASD Space Required by OMEGAMON XE on z/OS		
Library Type	Total Space Required in 3390 Trks	
Target	2979	
Distribution	2653	

Notes:

- 1. If you are installing into an existing environment that has the data sets in Figure 11 on page 14 and Figure 12 on page 16 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.
- 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 27.

- 4. 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.
- 5. 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.
- 6. 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 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 9 on page 14. 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.

Figure 9. Storage Requirements for SMF	Figure 9. Storage Requirements for SMP/E Work Data Sets											
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 BIks					
SMPWRK1	Е	PDS	FB	80	150	150	220					
SMPWRK2	Е	PDS	FB	80	150	150	220					
SMPWRK3	Е	PDS	FB	80	300	600	1320					
SMPWRK4	Е	PDS	FB	80	150	150	220					
SMPWRK6	Е	PDS	FB	80	300	1500	660					
SYSUT1	Е	SEQ			75	75	0					
SYSUT2	Е	SEQ			75	75	0					
SYSUT3	Е	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 10. Check the space and directory block allocation and reallocate the data sets, if necessary.

Figure 10. Storage Requirements for SMP/E Data Sets											
	т		R E	L R	Prim No.	Sec No.	No.				
Librony	Y	0	C	E	of 2200	of 2200	of				
DDNAME	Ē	G	M	L	Trks	Trks	Blks				
SMPLTS	Е	PDSE	U	0	15	150	N/A				
SMPMTS	Е	PDS	FB	80	15	150	220				
SMPPTS	Е	PDSE	FB	80	300	1500	N/A				
SMPSCDS	Е	PDS	FB	80	15	150	220				
SMPSTS	Е	PDS	FB	80	15	150	220				

Figure 11 and Figure 12 on page 16 describe the target and distribution libraries 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 16 for more information.

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

Figure 11. Stor	Figure 11. Storage Requirements for OMEGAMON XE on z/OS Target Libraries										
Library DDNAME	Member Type	Target Volume	T Y 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	2	44			
TKANCMD	Parm	Any	Е	PDS	FB	80	14	26			
TKANCUS	CLIST	Any	Е	PDS	FB	80	67	51			
TKANDATV	Data	Any	Е	PDS	VB	6160	226	7			
TKANEXEC	EXEC	Any	S	PDS	VB	255	13	44			
TKANHENU	Help	Any	Е	PDS	FB	80	136	132			
TKANISP	CLIST	Any	S	PDS	FB	80	2	44			
TKANMAC	Macro	Any	Е	PDS	FB	80	12	5			
TKANMOD	LMOD	Any	Е	PDS	U	0	244	49			
TKANMODL	LMOD	Any	Е	PDS	U	0	438	51			
TKANMODP	LMOD	Any	S	PDSE	U	0	389	N/A			
TKANMODR	LMOD	Any	S	PDS	U	0	2	44			
TKANMODS	LMOD	Any	Е	PDS	U	0	91	76			
TKANOSRC	Data	Any	S	PDS	VB	255	3	44			
TKANPAR	Parm	Any	Е	PDS	FB	80	8	10			
TKANPENU	Panel	Any	Е	PDS	FB	80	969	539			
TKANPKGI	Data	Any	Е	PDS	FB	80	67	8			
TKANSAM	Sample	Any	Е	PDS	FB	80	27	21			
TKANWENU	Panel	Any	S	PDS	FB	80	86	132			
TKEPHELP	Help	Any	U	PDS	FB	80	10	44			
TKOBDATF	Data	Any	S	PDS	FB	80	2	44			
TKOBHELP	Help	Any	S	PDS	FB	80	19	132			
TKOMHELP	Help	Any	U	PDS	FB	80	62	396			
TKOMPROC	Panel	Any	U	PDS	FB	80	90	528			

Figure 12. Storage Requirements for OMEGAMON XE on z/OS 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			
DKANCLI	S	PDS	FB	80	2	44			
DKANCMD	Е	PDS	FB	80	14	26			
DKANCUS	Е	PDS	FB	80	67	51			
DKANDATV	Е	PDS	VB	6160	226	7			
DKANEXEC	S	PDS	VB	255	13	44			
DKANHENU	Е	PDS	FB	80	136	132			
DKANISP	S	PDS	FB	80	2	44			
DKANMAC	Е	PDS	FB	80	12	5			
DKANMOD	Е	PDS	U	0	122	104			
DKANMODL	Е	PDS	U	0	551	63			
DKANMODP	S	PDSE	U	0	85	N/A			
DKANMODR	S	PDS	U	0	2	44			
DKANMODS	Е	PDS	U	0	78	23			
DKANOSRC	S	PDS	VB	255	3	44			
DKANPAR	Е	PDS	FB	80	8	10			
DKANPENU	Е	PDS	FB	80	969	539			
DKANPKGI	Е	PDS	FB	80	67	8			
DKANSAM	Е	PDS	FB	80	27	21			
DKANWENU	S	PDS	FB	80	86	132			
DKEPHELP	U	PDS	FB	80	10	44			
DKOBDATF	S	PDS	FB	80	2	44			
DKOBHELP	S	PDS	FB	80	19	132			
DKOMHELP	U	PDS	FB	80	62	396			
DKOMPROC	U	PDS	FB	80	90	528			

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 13 (Page 1 of 2). 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 BIks	
TKANCLI	CLIST	Any	S	PDS	FB	80	1	2	
TKANCMD	Parm	Any	Е	PDS	FB	80	14	26	
TKANCUS	CLIST	Any	Е	PDS	FB	80	53	34	
TKANDATV	Data	Any	Е	PDS	VB	6160	220	5	
TKANEXEC	EXEC	Any	S	PDS	VB	255	3	8	
TKANHENU	Help	Any	Е	PDS	FB	80	133	128	
TKANISP	CLIST	Any	S	PDS	FB	80	1	3	
TKANMAC	Macro	Any	Е	PDS	FB	80	4	2	
TKANMOD	LMOD	Any	Е	PDS	U	0	107	18	
TKANMODL	LMOD	Any	Е	PDS	U	0	394	39	
TKANMODP	LMOD	Any	Е	PDS	U	0	26	N/A	
TKANPAR	Parm	Any	Е	PDS	FB	80	7	8	
TKANPENU	Panel	Any	Е	PDS	FB	80	969	539	
TKANPKGI	Data	Any	Е	PDS	FB	80	48	2	
TKANSAM	Sample	Any	Е	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			Е	PDS	FB	80	14	26	
DKANCUS			Е	PDS	FB	80	53	34	
DKANDATV			Е	PDS	VB	6160	221	5	
DKANEXEC			S	PDS	VB	255	3	8	
DKANHENU			Е	PDS	FB	80	133	128	
DKANISP			S	PDS	FB	80	1	3	
DKANMAC			Е	PDS	FB	80	4	2	
DKANMOD			Е	PDS	U	0	1	2	
DKANMODL			E	PDS	U	0	507	52	

Figure 13 (Page 2 of 2). 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	
DKANMODP			Е	PDS	U	0	5	N/A	
DKANPAR			Е	PDS	FB	80	7	8	
DKANPENU			Е	PDS	FB	80	969	539	
DKANPKGI			Е	PDS	FB	80	48	2	
DKANSAM			Е	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 14. Stora	Figure 14. 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	Е	PDS	FB	80	1	2		
TKANMOD	LMOD	Any	Е	PDS	U	0	31	11		
TKANMODR	LMOD	Any	S	PDS	U	0	1	2		
TKANMODS	LMOD	Any	Е	PDS	U	0	17	20		
TKANPKGI	Data	Any	Е	PDS	FB	80	4	2		
TKANSAM	Sample	Any	Е	PDS	FB	80	1	2		
DKANCUS			Е	PDS	FB	80	1	2		
DKANMOD			Е	PDS	U	0	11	11		
DKANMODR			S	PDS	U	0	1	2		
DKANMODS			Е	PDS	U	0	17	20		
DKANPKGI			Е	PDS	FB	80	4	2		
DKANSAM			Е	PDS	FB	80	1	2		

Figure 15 (Page 1 of 2). Storage Requirements for HKOB730 Libraries									
Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F	L R E C L	No. of 3390 Trks	No. of DIR BIks	
TKANCUS	CLIST	Any	Е	PDS	FB	80	13	15	
TKANEXEC	EXEC	Any	S	PDS	VB	255	9	4	
TKANHENU	Help	Any	Е	PDS	FB	80	3	4	
TKANISP	CLIST	Any	S	PDS	FB	80	1	2	
TKANMAC	Macro	Any	Е	PDS	FB	80	8	3	
TKANMOD	LMOD	Any	Е	PDS	U	0	104	17	
TKANMODL	LMOD	Any	Е	PDS	U	0	12	2	
TKANMODP	LMOD	Any	S	PDSE	U	0	313	N/A	
TKANMODS	LMOD	Any	Е	PDS	U	0	74	56	
TKANOSRC	Data	Any	S	PDS	VB	255	3	5	
TKANPAR	Parm	Any	Е	PDS	FB	80	1	2	
TKANPKGI	Data	Any	Е	PDS	FB	80	13	2	
TKANSAM	Sample	Any	Е	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			Е	PDS	FB	80	13	15	
DKANEXEC			S	PDS	VB	255	9	4	
DKANHENU			Е	PDS	FB	80	3	4	
DKANISP			S	PDS	FB	80	1	2	
DKANMAC			Е	PDS	FB	80	8	3	
DKANMOD			Е	PDS	U	0	108	88	
DKANMODL			Е	PDS	U	0	12	2	
DKANMODP			S	PDSE	U	0	69	N/A	
DKANMODS			Е	PDS	U	0	61	3	
DKANOSRC			S	PDS	VB	255	3	5	
DKANPAR			Е	PDS	FB	80	1	2	
DKANPKGI			Е	PDS	FB	80	13	2	
DKANSAM			Е	PDS	FB	80	3	3	

Figure 15 (Page 2 of 2). 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			
DKANWENU			S	PDS	FB	80	21	27			
DKOBDATF			S	PDS	FB	80	1	2			
DKOBHELP			S	PDS	FB	80	17	66			

Figure 16. Store	age Requirements	for HKSB730 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	Е	PDS	VB	6160	6	2
TKANMOD	LMOD	Any	Е	PDS	U	0	2	3
TKANMODL	LMOD	Any	Е	PDS	U	0	32	10
TKANPKGI	Data	Any	Е	PDS	FB	80	2	2
DKANDATV			Е	PDS	VB	6160	6	2
DKANMOD			Е	PDS	U	0	2	3
DKANMODL			E	PDS	U	0	32	9
DKANPKGI			Е	PDS	FB	80	2	2

5.3 FMIDs Deleted

Installing OMEGAMON XE on z/OS 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 OMEGAMON XE on z/OS 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 book 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 OMEGAMON XE on z/OS 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.

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/welcome

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 - UA73688 UA73689 HKDS630 - UA69363 UA70675 UA70678 HKLV630 - UA70676 UA70677

IBM Tivoli Monitoring V6.3.0 Fix Pack 3 is recommended for a number of APAR fixes, including Java 6 & 7 security support and Persistent Datastore APAR OA44915: MULTIPLE ABENDS DUE TO PERSISTENT DATASTORE FACILITY OVERLAY.

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.

When OMEGAMON XE on z/OS is used with the IBM Tivoli OMEGAMON Dashboard Edition on z/OS product, they should both be installed in the same CSI target and distribution zones. This ensures the

maintenance level of the Engine and Management Server components, which are used by both products, is at the same level. If they are installed in different CSI zones, you should check to ensure the maintenance levels of the Engine and Management Server components in both zones are the same or at a compatible level. This is also true for your runtime library environments (RTE).

The PSP bucket will have the most current information and must be reviewed before installation. The OMEGAVIEW or OMEGAMON Dashboard Edition configuration document must also be reviewed for other operational considerations.

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of OMEGAMON XE on z/OS.

Please note the following points:

If you want to install OMEGAMON XE on z/OS 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 OMEGAMON XE on z/OS

6.1.1 SMP/E Considerations for Installing OMEGAMON XE on z/OS

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of OMEGAMON XE on z/OS.

6.1.2 SMP/E Options Subentry Values

The recommended values for certain SMP/E CSI subentries are shown in Figure 17. 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 17. 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

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

- CSSLIB
- SEZACMTX

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

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 '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.

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 created for OMEGAMON XE on z/OS. This will require you to research and tailor each of the jobs accordingly.

The sample jobs provided expect a CSI to exist already. The sample installation jobs in Figure 18 are provided as part of the product to help you install OMEGAMON XE on z/OS.

Figure 18. Sample Installation Jobs								
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					
KM5J6APP	APPLY	Sample APPLY job	IBM.HKM5530.F20					
KM5J7ACC	ACCEPT	Sample ACCEPT job	IBM.HKM5530.F20					

The installation of OMEGAMON XE on z/OS 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 28) then copy the jobs from the relfiles to a work data set for editing and submission. See Figure 18 to find the appropriate relfile data set.

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.HKM5530.F20,UNIT=tunit,
           VOL=SER=volser,LABEL=(x,SL),
11
           DISP=(OLD, KEEP)
11
//FILEIN DD DSN=IBM.HKM5530.F20,UNIT=SYSALLDA,DISP=SHR,
11
           VOL=SER=filevol
//OUT
           DD DSNAME=jcl-library-name,
           DISP=(NEW,CATLG,DELETE),
11
11
           VOL=SER=dasdvol,UNIT=SYSALLDA,
           SPACE=(TRK, (10,2,5))
11
//SYSUT3
           DD UNIT=SYSALLDA, SPACE=(CYL, (1,1))
//SYSIN
           DD *
    COPY INDD=xxxxIN.OUTDD=OUT
    SELECT MEMBER=(KM5J3ALO,KM5J4DDF,KM5J5REC,KM5J6APP,KM5J7ACC)
/*
```

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

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.HKM5530.F20 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.

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 OMEGAMON XE on z/OS.

If you are not using the generated allocation job, select the sample job KM5J3ALO. 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 OMEGAMON XE on z/OS.

If you are not using the generated job, select the sample job KM5J4DDF. 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 OMEGAMON XE on z/OS as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the OMEGAMON XE on z/OS 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 or the sample job KM5J5REC to perform the SMP/E RECEIVE for OMEGAMON XE on z/OS. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: 0

6.1.9 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 OMEGAMON XE on z/OS.

If you are not using the generated job, select the sample job KM5J6APP to perform an SMP/E APPLY CHECK. Edit and submit it after making appropriate changes for your environment. Consult the instructions in the sample job for more information.

The latest HOLDDATA is available through several different portals, including http://service.software.ibm.com/holdata/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 the 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 aaaaaaa WAS SUCCESSFUL FOR MODULE bbbbbbbb IN LMOD cccccccc IN THE dddddddd LIBRARY. THE RETURN CODE WAS ee. DATE yy.ddd -- TIME hh:mm:ss -- SEQUENCE NUMBER nnnnnn --SYSPRINT FILE fffffff.
- 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 19 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.

Figure 19. SMP/E Elements Not Selected					
KETAEVML	KETAEXSN	KETAEXTN	KETAPMSN	KETAREFN	KETARFSN
KETARMSA	KETARMSB	KETARMSC	KETASTAN	KETASTPN	KETASTRN
KETASTSN	KETAXTGN	KETAXTSN	KETCADDN	KETCAPRN	KETCCKHN
KETCCKRN	KETCCKTN	KETCDELN	KETCESTN	KETCEXTN	KETCININ
KETCINSN	KETCQUIN	KETCREMN	KETCSDMN	KETCSHTN	KETCTRMN
KETDINFO	KETDXLBN	KETDXLDN	KETDXLHN	KETEADDA	KETEADDB
KETEADDC	KETEAI0	KETEATCN	KETEAXLN	KETECLNN	KETECMDA
KETECMDB	KETECMDC	KETEDTCN	KETEDXLN	KETEESTN	KETEETCA
KETEETCB	KETEETCC	KETEETDN	KETEININ	KETEIXHN	KETELOKN
KETELTCN	KETELXLN	KETEPRMN	KETESMNA	KETESMNB	KETESMNC
KETESTRA	KETESTRB	KETESTRC	KETESTRN	KETETRMN	KETETXMN
KETPACKN	KETPARSN	KETPCIMN	KETPCLKN	KETPDSLN	KETPFPLN
KETPFPUA	KETPFPUB	KETPFPUC	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	KETTATAN	KETTATEN	KETTCAPA	KETTCAPB
KETTCAPC	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
KETTGTCN	KETTGTHN	KETTGTSN	KETTHKSA	KETTHKSB	KETTHKSC
KETTHNAN	KETTININ	KETTINSA	KETTINSB	KETTINSC	KETTINSN
KETTLETN	KETTLTAN	KETTLTEN	KETTNCEN	KETTPEHN	KETTPTAN
KETTREFN	KETTREMN	KETTRSDA	KETTRSDB	KETTRSDC	KETTRTEN
KETTSDMN	KETTSHTN	KETTSNPN	KETTSPEN	KETTSPSN	KETTSTAN
KETTSTDN	KETTSTMN	KETTSTSN	KETTTEUN	KETTTRCN	KETTTRMN
KETTXMIN	KETTXTGN	KETTXTSN	KETUCAPN	KETUCPSN	KETUCRDN
KETUPIDN	KETXCOUN	KETXCPLN	KETXMPSN		

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.

6.1.10 Perform SMP/E ACCEPT

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

If you are not using the generated job, select the sample job KM5J7ACC to perform an SMP/E ACCEPT CHECK. 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 only *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 book 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 19 on page 30 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 OMEGAMON XE on z/OS

Prior to activating OMEGAMON XE on z/OS, IBM recommends you review the Quick Start guide as well as the Planning and Configuration guides if you have not already done so. This documentation focuses on the things you will need to know for a successful installation and configuration of this product.

The *Planning and Configuration Guide* documentation contains the step-by-step procedures to activate the functions of OMEGAMON XE on z/OS.

This documentation can be found online at:

http://www.ibm.com/support/knowledgecenter/SS2JNN/welcome

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