



Program Directory for IBM Z Monitoring Suite

2.1.1

Program Number 5698-013

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 116.

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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 Z Monitoring Suite. This publication refers to IBM Z Monitoring Suite as Z Monitoring Suite.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 10 identifies the basic program materials and documentation for Z Monitoring Suite.
- 3.0, “Program Support” on page 12 describes the IBM support available for Z Monitoring Suite.
- 4.0, “Program and Service Level Information” on page 16 lists the APARs (program level) and PTFs (service level) that have been incorporated into Z Monitoring Suite.
- 5.0, “Installation Requirements and Considerations” on page 21 identifies the resources and considerations that are required for installing and using Z Monitoring Suite.
- 6.0, “Installation Instructions” on page 61 provides detailed installation instructions for Z Monitoring Suite. It also describes the procedures for activating the functions of Z Monitoring Suite, or refers to appropriate publications.

Before installing Z Monitoring 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; after which, keep the documents for your reference. Section 3.2, “Preventive Service Planning” on page 12 tells you how to find any updates to the information and procedures in this program directory.

Z Monitoring 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 is identical to the hardcopy format if one was included with your order. All service and HOLDDATA for Z Monitoring Suite are included on the CBPDO.

Do not use this program directory if you install Z Monitoring Suite with a 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 IBM Z Monitoring Suite Description

The IBM Z Monitoring Suite for z/OS offering that you purchased delivers IBM z Systems platform and middleware management and helps to reduce the cost and risks for managing your business. This offering provides both realtime and historical performance, and availability management capabilities for your IBM z/OS operating system, mainframe networks, storage subsystems, IBM Db2, IBM CICS, IBM IMS, IBM MQ, IBM WebSphere Application Server for z/OS, and IBM Integration Bus for z/OS. This offering simplifies ordering of a IBM monitoring portfolio and provides a single product package to solve some of your monitoring needs. Rather than having to predetermine exactly which IBM monitoring technologies you want to use, this offering license allows you to use any of the included products.

New in Z Monitoring Suite 2.1.1:

- IBM Z OMEGAMON AI for z/OS 6.1.0
 - provides detailed monitoring and problem management for IBM Z systems.
 - provides the visibility, usability and performance that are required to make managing these components more efficient and effective, preventing or reducing downtime due to outages.
- IBM Z OMEGAMON AI for Networks 6.1.0
 - provides detailed network monitoring and problem management for IBM Z systems.
 - provides the visibility, usability and performance that are required to make managing your network more efficient and effective, preventing or reducing downtime due to outages.
- IBM Z OMEGAMON AI for JVM 6.1.0
 - provides resource-level monitoring of all Java virtual machines (JVMs) on z/OS.
 - you can efficiently monitor, identify, isolate, and correct problems when JVMs on z/OS are in distress or are failing.

With IBM Z OMEGAMON AI Insights these products receives historical data from OMEGAMON Data Provider for the purposes of using machine learning technology to dynamically detect anomalies with OMEGAMON AI provided data over an extended timeframe.

- IBM Service Management Unite 1.1.10

Service Management Unite is a customizable management dashboard, bringing mainframe management information and tasks from disparate sources into a single environment. It helps operators triage alerts and take corrective action, including issuing system commands and viewing results, without going to a different console.

- IBM Z ChatOps 1.1.3

Z ChatOps provides an intelligent chatbot that gives users access to information from Z systems management tools, such as IBM Z System Automation, IBM Z NetView, IBM Z Workload Scheduler, and IBM OMEGAMON, directly into Slack, Microsoft Teams, or Mattermost. Easily notify the IT operations team in the chat tool about alters from IBM Z applications, IBM Z ChatOps leverages and integrates with Service Management Unite for a broad access to systems management data and to enable chat users to drill down into web-based dashboards with additional information. With Z

ChatOps, accelerate incident resolution and enable collaborative problem isolation and faster onboarding of next-gen IBM Z operators.

Note: Refer to the customer access portal

<http://www.ibm.com/support/docview.wss?uid=swg21962625> for news on IBM Z ChatOps and IBM Service Management Unite. The customer access portal includes information on:

- what is new in the latest releases
 - the products supported for integration
 - the software pre-requisites
 - how to download the latest releases of Z ChatOps and Service Management Unite
- IBM Z Resource Discovery Data Service (ZRD-DS) 1.3.0, is an embedded component in several IBM products. It is used to discover the infrastructure componentry of a system, understand the relationships and interdependences between the components, and connect these artifacts to a topological UI via a graph API. It can help you perform root-cause analysis faster by understanding how artifacts impact one another based on the discovered relationships.
 - IBM Z Monitoring Suite IZSAM ID 2.1.1, HFZT211 FMID, is a function that allows IBM Z Software Asset Management to differentiate between individual products and suites that are composed of a number of these same products.

This offering includes the following products:

- IBM Tivoli Management Services on z/OS is offered for those customers who want to run the Tivoli Enterprise Monitoring Server component on a z/OS platform.

IBM Tivoli Management Services on z/OS includes shared components that run on distributed systems and shared components that run on z/OS.

The following distributed components are provided on the IBM Tivoli Monitoring Base DVD:

- Tivoli Enterprise Portal
- Tivoli Enterprise Portal Server
- Tivoli Enterprise Monitoring Server

Before installing the distributed components, read *IBM Tivoli Monitoring Installation and Setup Guide*.

This program directory gives installation instructions for the z/OS components. For configuration instructions, see the Configuring topics in the OMEGAMON shared documentation at;

[//https://www.ibm.com/docs/en/om-shared?](https://www.ibm.com/docs/en/om-shared?)

- 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 Z OMEGAMON Integration Monitor displays performance information from a variety of sources, including multiple OMEGAMON monitors and other IBM monitoring software, in a single location. It delivers near real-time and historical information and operating system and key subsystem performance. You can use a single-screen view of all situation alerts to rapidly identify the root-cause of complex issues involving multiple subsystems.

This delivery adds new capability that is designed to make it easy to extract critical z/OS metrics available from IBM Z OMEGAMON AI for z/OS and visualize them by using open source platforms (such as Prometheus, Grafana, Kafka, ElasticSearch, and Kibana). Sample visualizations created for use with Kibana are provided. These modern visualizations are designed to be easily customized to meet specific analysis needs, including longer term trending, and Artificial Intelligence (AI) and Machine Learning (ML) techniques can be used to analyze this operational data to expose anomalies or determine new insights.

- IBM Z OMEGAMON for CICS:
 - Program Tracking adds a powerful new diagnostic to IBM Z OMEGAMON for CICS. Previously, you could see resource usage data for all transactions in a CICS region, and all CICS programs installed in a region, but it was not possible to see a list of the programs used, by region and by task, with the resource usage for each program. Program Tracking lets you do this.
 - At the CICS region level, a new tab on the Program Summary panel allows you to see a list of all CICS programs that have been used in a region, with usage statistics for each, including CPU time (total and average used per invocation), number of abends, number of mode switches, and other useful metrics.

- At the task level, you can view program usage from different perspectives:
 - Programs used by a given task
 - Tasks that have used a given program
- Having a list of all CICS programs used by a task, with usage statistics for each program, helps you quickly identify programs that are using excessive system resources. A new tab called Programs, on the Task History Detail panel, displays this information.
- You can also look at it the other way, by viewing all tasks that have used a given CICS program. The Task History Filters workspace now lets you specify the program name as one of the inclusion criteria in a Task History filter. Once you have done this, the CICSplex Task History panel will display only the tasks that have used that program
- Program Tracking helps you quickly identify poorly performing CICS programs and the transactions that use them.

IBM Z OMEGAMON for CICS includes several other significant enhancements:

- Resource limiting resolution for CPU has been increased, to allow transaction limits to be set in millisecond increments. This lets you take action much sooner, to prevent tasks from impacting the region.
 - Finding resources within a group of regions is now much more intuitive. The new FIND command menu provides a drop-down list of resources to search for, together with related help for each resource type. FIND is now extended to CICS temporary storage and transient data queues.
 - New CICS policy statistics are available. For customers using policies within CICS to take actions on applications, IBM Z OMEGAMON for CICS will now show statistics relating to the use of those policies.
 - CICS Transaction Gateway Memory statistics are now available. This allows users to monitor their CICS Transaction Gateway Daemon for problems related to memory usage.
- IBM OMEGAMON for Db2 Performance Expert on z/OS enables users to assess the efficiency of Db2 and optimize its performance, combining reporting, monitoring and buffer pool analysis features, as well as expert database analysis functions. OMEGAMON for Db2 PE introduces the following enhancements to support Db2 13:
 - Monitoring and reporting on the Db2 SQL Data Insights built-in function. This information includes the amount of CPU usage and IBM Z(R) specialty engine times. This enables you to extract a focused cost analysis for the Db2 SQL Data Insights built-in feature.
 - Monitoring and reporting on the IBM z16-based Group Buffer Pool Residency Times for data and directory entries. This helps improve structure sizing and allocation, as well as workload balancing between cache structures.
 - Monitoring and reporting on the Application Timeout and Deadlock Control improvement. Improvement includes the new IFCID 437 that provides information on the expected usage results from applications.

- Identifying the Longest Lock/Latch Waiter for each completed transaction to determine which resources and time used. This helps organizations analyze resource usage and potentially address application performance issues.
- Monitoring and reporting on the new DBAT Termination Behavior feature exposed in the Global DDF Activity statistics. This function helps analyze the impact of this feature.
- Monitoring and reporting on the plan authorization cache related improvements. This information can be used to indicate a reduced RACF(R) contention when checking for a plan EXECUTE privilege.
- Reporting on the new Index Split IFICD 396. This helps analyze the impact on application performance.

Other new capabilities:

- Added Db2 Profile warning and exception monitoring (IFCID 402) to the E3270 and Performance Expert Client real-time monitoring interfaces.
- Added Db2 Aggregated Accounting statistics reporting (IFCID 369) to the E3270 realtime monitoring interface.
- IBM OMEGAMON for IMS on z/OS is a powerful management tool to help you optimize the performance and availability of your vital IMS systems. It provides a single point of control over IMS in parallel sysplex environments and reports on performance of coupling facility structure statistics, shared queue counts, database lock conflicts and a number of other key IMS attributes that help you stay ahead of potential delays or outages.
- IBM Tivoli Composite Application Manager (ITCAM) for Application Diagnostics combines ITCAM for WebSphere and ITCAM for J2EE into a single product and includes new and enhanced capabilities. As a combination of the two products, ITCAM for Application Diagnostics 7.1.1 provides deep diagnostic capabilities for JEE applications. Broadly defined, these capabilities could be categorized into three areas that each help to focus in on application performance problems: operational monitoring, transaction analysis, and memory analysis.

Operational monitoring is valuable to IT operations and subject matter experts (SMEs), such as Web and application administrators and developers. It helps to determine the health of an application and the environment in which it runs, as well as performing initial troubleshooting and, in some cases, diagnosis. Key metrics include the following, although there are many more available out-of-the-box that can be valuable depending on the particulars of the application.

- JVM CPU utilization
- Heap usage
- Garbage collection
- Connection pool usage
- Thread pools
- JDBC connection statistics

- IBM OMEGAMON for Messaging on z/OS is a product package consisting of several components. The following agent components can be configured and run on the mainframe.
 - The IBM MQ Monitoring Agent provides you with the means to verify, analyze and tune MQ for reliability and performance by detecting problems before they impact availability and service levels. It lets you easily collect MQ-specific data for all your queue managers, queue-sharing groups, clusters, channels, and queues, and view and analyze the data from a single vantage point. It reduces the amount of time to troubleshoot problems with many useful workspaces in which you can view current data and track trends in recent and historical data.
 - The IBM Integration Bus Monitoring Agent provides you with the means to verify, analyze, and tune message brokers for reliability and performance by detecting broker and message flow problems before they impact availability and service levels. It reduces the amount of time involved in the deployment of broker applications by helping you debug message flows and providing statistics you can use to tune your environment.
- Apache Kafka for IBM Z provides z/OS support for Apache Kafka as a general-purpose event streaming platform which can be used for high-performance data pipelines, streaming analytics, data integration and mission-critical applications.

Eliminating the need to download, transfer and update the official image from the Apache website, Apache Kafka for IBM Z simplifies the installation and configuration of Apache Kafka experience entirely on z/OS. The Apache Kafka for IBM Z version delivered in the product is also well tested by IBM on the z/OS operating system.

- IBM Z Common Data Provider provides the infrastructure for accessing IT operational data from z/OS systems and streaming them to analytics or other applications. It supports the collection of a large breadth of both structured and unstructured data, including System Management Facilities (SMF) data, IBM Information Management System (IMS) logs, Resource Management Facility (RMF) III reports, SYSLOG, OPERLOG and other z/OS logs. It collects only once, even if the data is being streamed to multiple systems which expect different data formats. It supports a number of data destinations both on and off platform, including Logstash (Elasticsearch), Splunk, Humio, and Kafka.

IBM Z Common Data Provider includes a web-based configuration tool which enables the easy creation of data streams of various content for disparate subscribers. It is provided as an application for IBM WebSphere Application Server for z/OS Liberty or as a plug-in for IBM z/OS Management Facility (z/OSMF). An optional FMID in this product delivers a z/OS Liberty profile which will be maintained at the appropriate service level for this product. Alternatively, you can choose to use the z/OS Liberty profile embedded in z/OS V2R3 and higher.

Some targets such as Splunk and Elastic Stack require application files to be installed on the target system (subscriber). These files should be shipped by the product including IBM Z Common Data Provider in its package as either physical media (CD or DVD) or .iso images which can be electronically ordered from the location where you ordered the including product.

In this release the System Data Engine component of IBM Z Common Data Provider is able to offload more work to zIIPs and significantly reduce the additional overhead incurred.

- IBM Discovery Library Adapter for z/OS 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).
- Features and functions:
 - Support Z Resource Discovery Data Service - a modern API to retrieve zDLA data

The Discovery Library Adapter for z/OS is implemented as a combination of z/OS load modules and REXX routines that can be executed as a batch job or started task on the z/OS system to perform the discovery. The modules will typically use system service macros, various memory control blocks, APIs including DB/2 IFI, DSNREXX SQL, and product utilities including netstat and MQ command interface (API) to identify those resources and relationships that are active at the time discovery is executed.

- Discovery coverage includes:
 - z/OS information e.g. PARMLIB active member contents, LNKLIST, IODF data set etc.
 - zSeries machine information e.g. Serial Number, Processing Capacity and LPAR
 - SYSPLEX group information
 - IMS information e.g. transactions, programs and data bases
 - CICS information e.g. transactions, programs, files and System Initialization on Table (SIT) details
 - DB/2 for z/OS information e.g. database, tables spaces
 - MQSeries for z/OS information e.g. ports and connections
 - WebSphere Application Server for z/OS information e.g. Cell, Node, configuration files
 - Address Space information e.g. Allocations
 - DASD volumes information

1.2 Z Monitoring Suite FMIDs

Z Monitoring Suite consists of the following FMIDs:

HKDS630
HKCI310
HKLV630
HIUW631
HRKZ610
HKOB750
HKSB750
HRKN610
HKS3550
HRKD560
HKOA110
HKC5560
HKGW560
HKDB550
HKI5550
HAAD710
HAAD71C
HKYN710
JKYN711
HKQI750
HKMQ750
HKJJ610
HIZD320
HFZT211
HKFK110
HHBO510
HHBO51L

Following is a list of the Resource Measurement Facility for z/OS FMIDs and the respective z/OS release, these components are distributed as part of the z/OS operating system.

- HRM77C0 and JRM77CJ - z/OS 2.4.0
- HRM77D0 and JRM77DJ - z/OS 2.5.0
- HRM77E0 and JRM77EJ - z/OS 3.1.0

Please reference the Special Considerations section of this document for additional information pertaining to the use of RMF.

2.0 Program Materials

An IBM program is identified by a program number. The program number for Z Monitoring Suite is 5698-013.

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 Z Monitoring 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 61 for more information about how to install the program.

You can find information about the physical media for the basic machine-readable materials for Z Monitoring Suite in the *CBPDO Memo To Users Extension*.

2.2 Program Publications

The following sections identify the basic publications for Z Monitoring Suite.

Figure 1 identifies the basic unlicensed publications for Z Monitoring Suite.

The unlicensed documentation for Z Monitoring Suite can be found on the IBM Documentation website at <https://www.ibm.com/docs/en/om-zmon-suite/2.1.1/>.

Publication Title
<i>What's New</i>
<i>Overview</i>
<i>Getting started</i>
<i>Planning</i>
<i>Installing</i>
<i>Upgrading</i>
<i>Configuring</i>
<i>Scenarios and how-tos</i>

<i>Figure 1 (Page 2 of 2). Basic Material: Unlicensed Publications</i>	
Publication Title	
<i>Reference</i>	
<i>Component Products</i>	
<i>IBM Discovery Library Adapter for z/OS User's Guide and Reference</i>	
<i>IBM Z OMEGAMON Data Provider User's Guide</i>	

Prior to installing Z Monitoring Suite, IBM recommends you review the OMEGAMON shared documentation 6.3.0 Fix Pack 2 and above, **First time deployment guide (FTU installation and tasks)**, the Planning, Configuring, and Configuration Manager 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 product components included in this package.

The OMEGAMON shared documentation, and other IBM product documentation can be found at the IBM Documentation URL listed below:

<https://www.ibm.com/docs/en/om-shared>

2.3 Program Source Materials

No program source materials or viewable program listings are provided for Z Monitoring Suite.

2.4 Publications Useful During Installation

You might want to use the publications listed in Figure 2 during the installation of Z Monitoring 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

Note: These publications can be found in IBM Documentation. Use a web browser with internet access to refer to: <https://www.ibm.com/docs/en/zos/2.5.0?topic=zos-smpe>

3.0 Program Support

This section describes the IBM support available for Z Monitoring Suite.

3.1 Program Services

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

To report issues or defects related to the use of the IBM Z Distribution for Zowe™ functionality use the IBM Z Monitoring Suite 5698-013 program number and or related component IDs.

3.2 Preventive Service Planning

Before you install Z Monitoring Suite, make sure that you have reviewed the current Preventive Service Planning (PSP) information for the respective product components included in the product package. 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 6.1.13, “Perform SMP/E APPLY” on page 74 for a sample APPLY command.

If you obtained Z Monitoring Suite as part of a CBPDO, HOLDDATA is included.

If the CBPDO for Z Monitoring Suite is older than two weeks by the time you install the product materials, you can obtain the latest PSP Bucket information by searching on the following website:

<https://www.ibm.com/support/pages/ibmsearch>

You can also contact the IBM Support Center to obtain the latest PSP Bucket information.

For program support, access the Software Support Website at **<https://www.ibm.com/mysupport/>**.

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 Z Monitoring Suite are included in Figure 3 on page 13.

Figure 3. PSP Upgrade and Subset ID

UPGRADE	SUBSET	Description
5698A79	HKDS630	Tivoli Enterprise Monitoring Server on z/OS
	HKCI310	Configuration Assistance Tool
	HKLV630	TMS:Engine
OMEGRKZ610	HRKZ610	OMEGAMON AI for z/OS
	HKOB750	OMNIMON Base
	HKSB750	Shared Probes
OMEGRKN610	HRKN610	OMEGAMON AI for Networks
OMXES3550	HKS3550	OMEGAMON for Storage on z/OS
OMEGRKD560	HRKD560	OMEGAMON Integration Monitor DE
	HKOA110	OMEGAMON Data Provider
OMEGC5560	HKC5560	OMEGAMON for CICS
	HKGW560	OMEGAMON for CICS TG
5655W37	HKDB550	OMEGAMON for Db2 Performance Expert on z/OS
OMEGI5550	HKI5550	OMEGAMON for IMS on z/OS
ITCAM710	HAAD710	ITCAM for Application Diagnostics
	HAAD71C	ITCAM for Application Diagnostics, Common Services
	HKYN710	ITCAM for Application Diagnostics, Tivoli Enterprise Monitoring Agent
	JKYN711	ITCAM for Application Diagnostics, Install
OMEGQI750	HKQI750	OMEGAMON for IBM Integration Bus Monitoring
	HKMQ750	OMEGAMON for IBM MQ Monitoring
JVMON610	HKJJ610	OMEGAMON AI for JVM
ZOSDLA	HIZD320	IBM Discovery Library Adapter for z/OS
IZMS211	HFZT211	IBM Z Monitoring Suite IZSAM ID
ZKFK	HKFK110	Apache Kafka for Z
ZCDP	HHBO510	IBM Z Common Data Provider - Base
ZCDP-Liberty	HHBO51L	IBM Z Common Data Provider - Liberty

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 Z Monitoring Suite.

<i>Figure 4 (Page 1 of 2). Component IDs</i>			
FMID	COMPID	Component Name	RETAIN Release
HKDS630	5608A2800	Tivoli Enterprise Monitoring Server on z/OS	630
HKCI310	5608A41CC	Configuration Assistance Tool	310
HKLV630	5608A41CE	TMS:Engine	630
HRKZ610	5698B6601	OMEGAMON AI for z/OS	610
HKOB750	5608A41OB	OMNIMON Base	750
HKSB750	5608A41SP	Shared Probes	750
HRKN610	5698B6602	OMEGAMON AI for Networks	610
HKS3550	5608A1000	OMEGAMON for Storage on z/OS	550
HRKD560	5698B6604	OMEGAMON Integration Monitor DE	560
HKOA110	5698B6605	OMEGAMON Data Provider	110
HKC5560	5698A5800	OMEGAMON for CICS	560
HKGW560	5698A9300	OMEGAMON for CICS TG	560
HKDB550	5655OPE00	OMEGAMON for Db2 Performance Expert on z/OS	550
HKI5550	5698A3900	OMEGAMON for IMS on z/OS	550
HAAD710	5698A7100	ITCAM for Application Diagnostics	710
HAAD71C	5698A710C	ITCAM for Application Diagnostics, Common Services	71C
HKYN710	5698A7101	ITCAM for Application Diagnostics, Tivoli Enterprise Monitoring Agent	710
JKYN711	5698A7102	ITCAM for Application Diagnostics, Install	711
HKQI750	5698A87MB	OMEGAMON for IBM Integration Bus Monitoring	750
HKMQ750	5608A1100	OMEGAMON for IBM MQ Monitoring	750
HKJJ610	5698ABA00	OMEGAMON AI for JVM	610
HIZD320	5698A4700	IBM Discovery Library Adapter for z/OS	320
HFZT211	5698B6600	IBM Z Monitoring Suite IZSAM ID	211
HKFK110	5698LDA00	Apache Kafka for IBM Z	110

Figure 4 (Page 2 of 2). Component IDs

FMID	COMPID	Component Name	RETAIN Release
HHBO510	5698ABJ00	IBM Z Common Data Provider - Base	510
HHBO51L	5698ABJ03	IBM Z Common Data Provider - Liberty	51L

4.0 Program and Service Level Information

This section identifies the program and relevant service levels of Z Monitoring 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 the previous release of components included with Z Monitoring Suite have been incorporated into this release. They are listed by FMID.

- FMID HKDS630

OA37631 OA38366 OA38500 OA38773 OA38895 OA38896 OA38913 OA38919
OA38922 OA38926 OA38938 OA38946 OA38947 OA38953 OA38962 OA38963
OA38972 OA38974 OA38988 OA38989 OA38990 OA38991 OA38992 OA38993
OA38995 OA38996 OA38997 OA39001 OA39002 OA39011 OA39012 OA39013
OA39017 OA39020 OA39447 OA39630 OA39969 OA40162 OA40409 OA40411
OA40412 OA40422 OA40424 OA40426 OA40427 OA40431 OA40432 OA40435
OA40436 OA40437 OA40438 OA40439 OA40440 OA40443 OA40445 OA40446
OA40450 OA40452 OA40453 OA40459

OA42114 OA42119 OA42123 OA42147 OA42148 OA42152 OA42155 OA42423
OA43232 OA43243 OA43251 OA43260 OA43263 OA43264 OA43265 OA43266
OA43270 OA43271 OA43273 OA43274 OA43275 OA43276 OA43277 OA43278
OA43279 OA43284 OA43285 OA43286 OA43287 OA43289 OA44022 OA44155
OA44915 OA44966 OA44999 OA45080 OA45161 OA45254 OA45619 OA45644
OA45646 OA45650 OA45651 OA45653 OA45672 OA45674 OA45675 OA45676
OA45678 OA45680 OA45754 OA45812 OA45834 OA45836 OA45856 OA46555
OA46557 OA46569 OA46571 OA46572 OA46579 OA46581 OA46583 OA46585
OA46586 OA46587 OA46681 OA46695 OA46708 OA46709 OA46976 OA46983
OA47082 OA47252 OA48065 OA48068 OA48077 OA48081 OA48082 OA48083
OA48096 OA48097 OA48100 OA48102 OA48275 OA48482 OA49237 OA49238
OA49254 OA49255 OA49269 OA49280 OA49282 OA49283 OA49284 OA49285
OA49286 OA49288 OA49760 OA49763 OA49780 OA49879 OA51151 OA51152
OA51183 OA51184 OA51195 OA51238 OA51627 OA51991 OA52181 OA52183
OA52186 OA52202 OA52713 OA53435 OA54969 OA54971 OA55236 OA55408
OA55673 OA56372 OA56379 OA56397 OA56398 OA56399 OA56400 OA56403
OA56407 OA56408 OA56595 OA56596 OA56597 OA56598 OA56862 OA56991
OA57107 OA58117 OA58325 OA58326 OA58812 OA58900 OA59319 OA59320
OA59376 OA59685 OA59686 OA60245 OA60259 OA60364 OA60516 OA60651
OA60653 OA60834 OA60952 OA61140 OA61411 OA61893 OA62146 OA62365
OA62458 OA62760 OA62900 OA63184

- FMID HKCI310

0A09405 0A09526 0A09527 0A09528 0A09529 0A09530 0A09531 0A09532

0A11476 0A12143 0A13234 0A13523 0A14355 0A14857 0A15487 0A16208
0A16882 0A16900 0A17915 0A18174 0A18712 0A19099 0A19387 0A19573
0A19840 0A19894 0A20404 0A20419 0A20490 0A20529 0A21440 0A21580
0A21585 0A23865 0A24039 0A25134 0A25649 0A26188 0A26981 0A27782
0A28829 0A29001 0A29410 0A30376 0A30575 0A30882 0A32122 0A32126
0A34091 0A34442 0A35009 0A35415 0A37159 0A37250 0A38375 0A38937
0A39386 0A39626 0A39890 0A40035 0A40072 0A40196 0A40649 0A41710
0A42733 0A43392 0A43859 0A44054 0A44620 0A45024 0A46184 0A46749
0A46817 0A47937 0A48678 0A49893 0A50912 0A51503 0A51755 0A52888
0A53974 0A54852 0A54854 0A54925 0A56017 0A56325 0A58363 0A58439
0A58518 0A58817 0A58861 0A59012 0A59214 0A59433 0A59463 0A59623
0A59848 0A59910 0A60002 0A60006 0A60163 0A60190 0A60209 0A60210
0A60244 0A60460 0A60518 0A60562 0A60708 0A60759 0A60827 0A61187
0A61383 0A61403 0A61515 0A61601 0A61776 0A61810 0A61872 0A61959
0A61993 0A62001 0A62125 0A62185 0A62230 0A62294 0A62358 0A62486
0A62526 0A62643 0A62792 0A62832 0A62833 0A63060 0A63103

- FMID HKLV630

0A37475 0A38066 0A38898 0A38899 0A38909 0A38950 0A38973 0A38994
0A39016 0A39019 0A39557 0A40434 0A40441 0A40442 0A40444

0A42112 0A42121 0A42136 0A42137 0A42139 0A42141 0A43246 0A43247
0A43252 0A43258 0A44192 0A44344 0A44517 0A45647 0A45649 0A45681
0A45719 0A46343 0A46553 0A46573 0A46577 0A46580 0A46689 0A47320
0A47891 0A47950 0A48069 0A48075 0A48103 0A48104 0A48851 0A49131
0A49242 0A49243 0A49273 0A49586 0A49717 0A50042 0A50525 0A50935
0A51153 0A51155 0A51630 0A52184 0A52203 0A52242 0A54026 0A54506
0A54564 0A54672 0A54794 0A54964 0A54979 0A55564 0A55598 0A55674
0A55918 0A55920 0A56223 0A56351 0A56352 0A56381 0A56404 0A56795
0A56797 0A56834 0A56904 0A56915 0A56990 0A57039 0A57043 0A57069
0A57649 0A57874 0A58163 0A58164 0A58502 0A58631 0A59036 0A59289
0A59389 0A59708 0A59709 0A59929 0A60178 0A60324 0A60427 0A60445
0A60765 0A60806 0A61138 0A61892 0A62349 0A62724

- FMID HRKZ610

0A58661 0A58779 0A58885 0A59055 0A59056 0A59094 0A59358 0A59359
0A59519 0A59993 0A60283 0A60576 0A61164 0A61165 0A61392 0A61614
0A61791 0A62140 0A62328 0A62558 0A62683 0A62945 0A63270 0A63394
0A63776 0A63838 0A64278 0A64666

- FMID HKOB750

0A45606 0A45816 0A45821 0A45846 0A46014 0A46177 0A46354 0A46704
0A46857 0A46860 0A46861 0A46867 0A46911 0A47142 0A47263 0A47617
0A48029 0A48198 0A48295 0A48532 0A48662 0A48739 0A48917 0A49057
0A49106 0A49278 0A49686 0A49902 0A49927 0A49966 0A50243 0A50263
0A50563 0A50894 0A51033 0A51043 0A51357 0A51417 0A51556 0A51564
0A51646 0A51815 0A51908 0A52016 0A52082 0A52314 0A52323 0A52442

- FMID HKSB750

0A51458 0A51463 0A51955 0A52489 0A52553 0A53084 0A53329 0A53347
0A53431 0A53714 0A54479 0A54551 0A55263

- FMID HRKN610

keep5.

0A58946 0A59208 0A59520 0A59992 0A60282 0A60577 0A61166 0A61167
0A61409 0A61727 0A61792 0A62559 0A63570 0A63777 0A64385

- FMID HKS3550

0A51412 0A51561 0A51648 0A51693 0A51694 0A51920 0A51939 0A52048
0A52204 0A52374 0A52749 0A52945 0A53327 0A53348 0A53440 0A53447
0A53493 0A53496 0A53702 0A53888 0A53984 0A53985 0A54049 0A54069
0A54163 0A54226 0A54304 0A54389 0A54547 0A54653 0A54737 0A54759

- FMID HKC5560

0A53477 0A53498 0A53515 0A53541 0A53570 0A53612 0A53750 0A54144
0A54420 0A54459 0A54522 0A54565 0A54697 0A54881 0A54940 0A54980
0A55122 0A55158 0A55175 0A55321 0A55336 0A55341 0A55377 0A55436
0A55527 0A55573 0A55736 0A55761 0A55804 0A55870 0A55873 0A55874
0A55923 0A56060 0A56066 0A56096 0A56311 0A56330 0A56468 0A56638
0A56898 0A56940 0A57004 0A57073 0A57108 0A57181 0A57340 0A57407
0A57409 0A57487 0A57630 0A57679 0A57683 0A57802 0A57803 0A57859
0A57926 0A58058 0A58510 0A58639 0A58711 0A58824 0A58873 0A58945
0A58988 0A59124 0A59200 0A59305 0A59396 0A59431 0A59454 0A59543
0A59612 0A59759 0A59791 0A59840 0A60096 0A60097 0A60149 0A60297
0A60378 0A60433 0A60466 0A60495 0A60542 0A60735 0A60756 0A60788
0A60926 0A61073 0A61087 0A61103 0A61162 0A61236 0A61237 0A61412
0A61428 0A61430 0A61569 0A61675 0A61691 0A61712 0A61767 0A61795
0A62113 0A62243 0A62316 0A62391 0A62398 0A62501 0A62675 0A62759
0A62782 0A62814 0A62932 0A63036 0A63076 0A63299 0A63311

- FMID HKGW560

0A54260 0A55080 0A55575 0A55863 0A55901 0A55966 0A58441 0A59675
0A60408 0A61239

- FMID HKDB550

PH00803 PH00871 PH01386 PH01666 PH01868 PH01934 PH02430 PH02436
 PH02595 PH02763 PH03417 PH03588 PH03718 PH04126 PH04190 PH04689
 PH05220 PH05274 PH06092 PH06177 PH06621 PH07061 PH07890 PH07891
 PH08213 PH08339 PH08490 PH08748 PH08768 PH09361 PH09699 PH10255
 PH10285 PH10886 PH11059 PH11239 PH11516 PH11699 PH12122 PH12223
 PH12498 PH12500 PH12509 PH13023 PH13026 PH13409 PH14260 PH14386
 PH14443 PH14815 PH14816 PH15433 PH16124 PH16135 PH16191 PH16426
 PH16514 PH16515 PH16602 PH17426 PH17487 PH17833 PH18512 PH18885
 PH19206 PH19208 PH19932 PH20553 PH21595 PH21630 PH22179 PH22582
 PH22760 PH22794 PH22811 PH22867 PH22945 PH23077 PH23524 PH23728
 PH24061 PH24125 PH24496 PH24498 PH24499 PH24967 PH24996 PH25044
 PH25620 PH25623 PH26293 PH26866 PH26923 PH27013 PH27372 PH27402
 PH27959 PH28054 PH28083 PH28363 PH28516 PH28529 PH28569 PH28734
 PH28821 PH28823 PH28824 PH28891 PH29299 PH29650 PH29675 PH29858
 PH30803 PH31787 PH32044 PH32294 PH32878 PH33376 PH33621 PH33881
 PH33932 PH33985 PH34207 PH34407 PH35317 PH35334 PH35408 PH35707
 PH35917 PH36052 PH36177 PH36586 PH36692 PH36980 PH37137 PH37183
 PH37310 PH37634 PH37751 PH37764 PH37847 PH37963 PH37965 PH37974
 PH38000 PH38004 PH38332 PH38405 PH39092 PH39326 PH39580 PH39609
 PH40014 PH40014 PH40036 PH40091 PH40091 PH40123 PH40970 PH40970
 PH41333 PH41353 PH41814 PH42009 PH42012 PH42804 PH42951 PH42996
 PH43371 PH43603 PH44092 PI06420 PI42115 PI42125 PI42128 PI42595
 PI57505 PI63191 PI66982 PI67765 PI69924 PI69926 PI71869 PI71947
 PI72210 PI72295 PI72345 PI72647 PI73001 PI73429 PI73958 PI73992
 PI74374 PI74659 PI74795 PI74817 PI74975 PI75122 PI75436 PI75919
 PI76009 PI76362 PI76685 PI76689 PI76735 PI76741 PI76748 PI76762
 PI76763 PI76765 PI77811 PI78003 PI78063 PI78865 PI78947 PI78965
 PI79523 PI79526 PI79867 PI80107 PI80201 PI80296 PI80819 PI81074
 PI81098 PI81147 PI81148 PI81149 PI81406 PI81443 PI81844 PI81903
 PI82313 PI82669 PI82902 PI84163 PI84612 PI84919 PI85300 PI85464
 PI86010 PI86020 PI86238 PI86262 PI87191 PI87208 PI87385 PI88307
 PI88630 PI88856 PI88858 PI89338 PI89711 PI89856 PI89860 PI89904
 PI90541 PI90585 PI90853 PI90919 PI91046 PI91050 PI91321 PI91432
 PI92016 PI92019 PI92156 PI92548 PI92587 PI92651 PI92754 PI93288
 PI93498 PI93725 PI93872 PI94231 PI94232 PI94453 PI94822 PI94829
 PI94904 PI95172 PI95314 PI95385 PI95388 PI95503 PI95504 PI95702
 PI95808 PI95888 PI97225 PI97359 PI97398 PI97457 PI97891 PI98095
 PI98240 PI98389 PI98435 PI98449 PI98474 PI98625 PI98627 PI98788
 PI99189 PI99569 PI99774

- FMID HKI5550

0A48582 0A48696 0A48722 0A48728 0A48805 0A49177 0A49216 0A49270
0A49423 0A49451 0A49466 0A49490 0A49606 0A49643 0A49762 0A49848
0A49869 0A49947 0A50003 0A50043 0A50163 0A50234 0A50255 0A50274
0A50429 0A50498 0A50499 0A50531 0A50553 0A50584 0A50596 0A51089
0A51161 0A51192 0A51212 0A51399 0A51411 0A51426 0A51478 0A51567
0A51578 0A51589 0A51732 0A51792 0A51833 0A51940 0A52052 0A52081
0A52191 0A52366 0A52440 0A52451

- FMID HKYN710

PK79492

- FMID HKQI750

0A46419 0A46840 0A48751 0A49398 0A50555 0A51396 0A51407

- FMID HKMQ750

0A46216 0A46409 0A46415 0A46421 0A46428 0A46430 0A46431 0A46448
0A46637 0A46798 0A46839 0A47306 0A47323 0A47417 0A47819 0A48032
0A48150 0A48485 0A49049 0A49230 0A49312 0A49397 0A49404 0A49632
0A49715 0A50276 0A50601 0A50607 0A50644 0A50834 0A51078 0A51271
0A51345 0A51831 0A51876 0A52597 0A52620 0A52839 0A52964 0A53178
0A52573 0A53736

- FMID HIZD320

0A36070 0A34388 0A40005 0A40585 0A40760 0A41322 0A41662 0A41604
0A43245 0A42836 0A45275 0A46337 0A46190 0A50377 0A48608 0A48092
0A46882 0A48660 0A46912 0A47137 0A47264 0A47357 0A47810 0A47844
0A48106 0A49943 0A48978 0A49050 0A49290 0A50051 0A50811 0A51462
0A52819 0A53263 0A52105 0A55003 0A56499 0A58571 0A60640 0A60786
0A61082 0A61550 0A61913 0A62043 0A61655 0A63544

4.2 Service Level Information

PTFs containing APAR fixes against this release of Z Monitoring Suite have been incorporated into this product package. For a list of included PTFs, examine the ++VER statement in the product's SMPMCS.

Frequently check the Z Monitoring Suite PSP Bucket for HIPER and SPECIAL attention PTFs against all FMIDs that you must install. You can also receive the latest HOLDDATA, then add the **FIXCAT(IBM.PRODUCTINSTALL-REQUIRESERVICE)** operand on your **APPLY CHECK** command. This will allow you to review the recommended and critical service that should be installed with your FMIDs.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating Z Monitoring Suite. The following terminology is used:

- *Driving system*: the system on which SMP/E is executed to install the program.
The program might have specific operating system or product level requirements for using processes, such as binder or assembly utilities during the installation.
- *Target system*: the system on which the program is configured and run.
The program might have specific product level requirements, such as needing access to the library of another product for link-edits. These requirements, either mandatory or optional, might directly affect the element during the installation or in its basic or enhanced operation.

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 Z Monitoring 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	2.4 or higher	N/A	No

Notes:

1. SMP/E is a requirement for installation and is an element of z/OS.
2. Installation might require migration to new z/OS releases to be service supported. See <https://www.ibm.com/support/lifecycle/>.

The OMEGAMON for CICS TG, OMEGAMON Data Connect component of OMEGAMON Data Provider, ITCAM for Application Diagnostics on z/OS, OMEGAMON AI for JVM, Apache Kafka for IBM Z, and IBM Z Common Data Provider Base and Liberty components are installed into a file system.

Before installing these components, 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 these components 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 Z Monitoring Suite.

Z Monitoring 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	2.4 or higher	N/A	No

Note: Installation might require migration to new releases to obtain support. See <https://www.ibm.com/support/lifecycle/>

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.

Figure 7. Target System Conditional Installation Requisites

Program Number	Product Name	Minimum VRM	Minimum Svc Lvl to satisfy these APARs	Function for which this is a Req't	Included in the shipped product?
5655-MQ9	IBM MQ for z/OS	9.2 or higher	N/A	CALLLIB	No

Note: Installation might require migration to new releases to obtain support. See <https://www.ibm.com/support/lifecycle/>

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 8. Target System Mandatory Operational Requisites</i>	
Program Number	Product Name and Minimum VRM/Service Level
5650-ZOS	z/OS 2.4 or higher
See Note	bash shell 4.3 or higher
Any one of the following:	
5650-DB2	IBM Db2 for z/OS 12.1.0
5698-DB2	IBM Db2 13 for z/OS 13.1.0
5770-AF3	IBM Db2 Value Unit Edition 12.1.0
5698-DBV	IBM Db2 13 for z/OS Value Unit Edition 13.1.0
5655-Y04	CICS Transaction Server for z/OS 5.4.0 or higher
5635-A06	IBM IMS 15.2.0 or higher
5655-DGG	IBM 31-bit SDK for z/OS, Java 2 Technology Edition, 8.0
5655-DGH	IBM 64-bit SDK for z/OS, Java 2 Technology Edition, 8.0
5695-014	IBM Library for REXX on z/Series 1.4 or higher
5695-014	5695-014 IBM Library for REXX on zSeries Alternate Library 1.4 or higher
For traditional ZCDP configuration:	
5650-ZOS	IBM z/OS Management Facility V2.3
Or the following:	
For an alternate way of configuring CDP, use the supplied WebSphere Liberty Profile (or your own at 19.0.0.6 or later)	

Notes:

- Code related to Db2 11 has not been removed from OMEGAMON for Db2 5.5.0 and may continue to work in some scenarios however new APARs related to Db2 11 environments will not be accepted.
- Apache Kafka for IBM Z requires the bash shell be available for operation. The bash shell is offered free of charge by Rocket Software, Inc. and is available on their website, <https://www.rocketsoftware.com/zos-open-source> for customers with a service contract and from the anaconda.org website for anyone.

3. The IBM Library for REXX on z/Series 1.4 is shipped with the product and may be used in lieu of ordering the mandatory operational requisites above.
4. Installation might require migration to new releases to obtain support. See <https://www.ibm.com/support/lifecycle/>

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.

The self-describing agent (SDA) support provided in this release requires JRE for this optional capability.

<i>Figure 9. Target System Conditional Operational Requisites</i>		
Program Number	Product Name and Minimum VRM/Service Level	Function
5639-OLE	Db2 Analytics Accelerator Loader for z/OS 2.1.0 or higher	Load data into IBM Db2 Analytics Accelerator
5698-LDA	Apache Kafka for IBM Z 1.1.0	Intermediate data repository or target subscriber on z/OS
<i>One or more of the following:</i>		
5655-Y20	IBM CICS Transaction Gateway for z/OS 9.2.0 or higher	
5650-DB2	IBM Db2 for z/OS 12.1.0 or higher	
5698-DB2	IBM Db2 for z/OS 13.1.0	
5635-A06	IBM IMS 15.2.0 or higher	
5655-MQ9	IBM MQ for z/OS 9.2 or higher	
5655-W65	WebSphere Application Server for z/OS 8.5 or higher	
5655-Y04	CICS Transaction Server for z/OS 5.4.0 or higher	
5698-CEX	IMS Connect Extensions for z/OS 3.1.0	
5655-AB1	IBM Integration Bus for z/OS 10.0	
5698-ZWE	IBM Z Distribution for Zowe 1.0	
5698-ZWG	IBM Z Distribution for Zowe 2.0	

Notes:

1. Zowe is required if you want to use the IBM Service Management Unite and or OMEGAMON for Storage integration with Zowe. Integrated with Zowe, IBM Service Management Unite offers extended functions to allow you to interact with z/OS resources, such as managing JES and MVS details in the IBM Service Management Unite dashboards.
2. With PTF UJ04274 applied, you can run Realtime Dataset Metrics in Zowe: 1.0, and with PTF UJ92602 applied, you can run Realtime Dataset Metrics in Zowe: 2.0.

3. Refer to the customer access portal <http://www.ibm.com/support/docview.wss?uid=swg21962625> for news on IBM Z ChatOps and IBM Service Management Unite. The customer access portal includes information on:
 - what is new in the latest releases
 - the products supported for integration
 - the software pre-requisites
 - how to download the latest releases of Z ChatOps and Service Management Unite
4. Installation might require migration to new releases to obtain support. See <https://www.ibm.com/support/lifecycle/>

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.

Z Monitoring 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.

Z Monitoring Suite has no negative requisites.

5.2.3 DASD Storage Requirements

Z Monitoring Suite libraries can reside on all supported DASD types.

Figure 10 lists the total space that is required for each type of library.

<i>Figure 10. Total DASD Space Required by Z Monitoring Suite</i>	
Library Type	Total Space Required in 3390 Trks
Target	16303
Distribution	47313
File System(s)	28200

Notes:

1. If you are installing into an existing environment that has the data sets in Figure 13 on page 29 and Figure 15 on page 33 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. For non-RECFM U data sets, IBM recommends using system-determined block sizes for efficient DASD utilization. For RECFM U data sets, IBM recommends using a block size of 32760, which is most efficient from the 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 6.1.8, "Allocate SMP/E Target and Distribution Libraries" on page 71.

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.
- The data set can be either a PDS or a PDSE, with some exceptions. If the value in the "ORG" column specifies "PDS", the data set must be a PDS. If the value in "DIR Blks" column specifies "N/A", the data set must be a PDSE.

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, with some exceptions. If the data set should be placed in the LPA, see the Special Considerations section below.
- These data sets can be in the LNKST except for TKANMODR and TKANMODS.
- These data sets are not required to be APF-authorized, with some exceptions. If the data set must be APF-authorized, see the Special Considerations section below.

If you are installing into an existing environment, ensure the values used for the SMP/E work data sets reflect the minimum values shown in Figure 11. 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 11. 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 Trks	Sec No. of Trks	No. of DIR Blks
SMPWRK1	S	PDS	FB	80	150	150	220
SMPWRK2	S	PDS	FB	80	150	150	220
SMPWRK3	S	PDS	FB	80	300	600	1320
SMPWRK4	S	PDS	FB	80	150	150	220
SMPWRK6	S	PDS	FB	80	300	1500	660
SYSUT1	S	SEQ	--	--	75	75	0
SYSUT2	S	SEQ	--	--	75	75	0
SYSUT3	S	SEQ	--	--	75	75	0
SYSUT4	S	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 12. Check the space and directory block allocation and reallocate the data sets, if necessary.

Figure 12. 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	S	PDSE	U	0	15	150	N/A
SMPMTS	S	PDS	FB	80	15	150	220
SMPPTS	S	PDSE	FB	80	300	1500	N/A
SMPSCDS	S	PDS	FB	80	15	150	220
SMPSTS	S	PDS	FB	80	15	150	220

Figure 13 and Figure 15 on page 33 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 36 for more information.

The storage requirements of Z Monitoring Suite must be added to the storage required by other programs having data in the same library or path.

Figure 13 (Page 1 of 3). Storage Requirements for Z Monitoring 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
SCYNAUTH	LMOD	Any	U	PDSE	U	0	30	N/A
SCYNINST	Sample	Any	U	PDS	FB	80	30	132
SCYNINS1	Sample	Any	U	PDS	FB	80	30	132
SCYNPKGI	Data	Any	U	PDS	FB	80	30	132
SCYNPROC	Sample	Any	U	PDS	FB	80	30	132
SFZTLOAD	LMOD	Any	U	PDS	U	0	2	44
SFZTPKGI	Data	Any	U	PDS	FB	80	2	44
SIZDEXEC	CLIST	Any	U	PDS	FB	80	30	132

Figure 13 (Page 2 of 3). Storage Requirements for Z Monitoring 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
SIZDINST	JCL	Any	U	PDS	FB	80	30	132
SIZDLOAD	Samples	Any	U	PDS	U	0	105	132
SIZDMESG	CLIST	Any	U	PDS	FB	80	30	132
SIZDSAMP	Samples	Any	U	PDS	FB	80	45	132
SHBOCLST	Data	ANY	U	PDS	FB	80	2	2
SHBODEFS	Data	ANY	U	PDS	VB	255	300	30
SHBOINST	SAMP	ANY	U	PDS	FB	80	5	5
SHBOLLST	MOD	ANY	U	PDS	U	0	5	3
SHBOLOAD	MOD	ANY	U	PDSE	U	0	70	N/A
SHBOLPA	MOD	ANY	U	PDS	U	0	5	2
SHBOSAMP	SAMP	ANY	U	PDS	FB	80	10	5
SHBOWLPI	SAMP	ANY	U	PDS	FB	80	3	5
SKFKINST	Samples	ANY	U	PDS	FB	80	3	5
SKFKSAMP	Samples	ANY	U	PDS	FB	80	15	5
TKANCLI	CLIST	Any	S	PDS	FB	80	30	132
TKANCMD	Parm	Any	S	PDS	FB	80	45	132
TKANCUS	CLIST	Any	S	PDS	FB	80	1350	1056
TKANDATR	Data	Any	S	PDS	FB	160	75	132
TKANDATV	Data	Any	S	PDS	VB	6160	2625	176
TKANEXEC	EXEC	Any	S	PDS	VB	255	135	264
TKANHENU	Help	Any	S	PDS	FB	80	585	396
TKANISP	CLIST	Any	S	PDS	FB	80	30	132
TKANMAC	Macro	Any	S	PDS	FB	80	45	132
TKANMOD	LMOD	Any	S	PDS	U	0	2070	748
TKANMODL	LMOD	Any	S	PDS	U	0	4080	210
TKANMODP	LMOD	Any	S	PDSE	U	0	750	N/A
TKANMODR	LMOD	Any	S	PDS	U	0	30	132
TKANMODS	LMOD	Any	S	PDS	U	0	210	220
TKANOSRC	Data	Any	S	PDS	VB	255	30	132

Figure 13 (Page 3 of 3). Storage Requirements for Z Monitoring 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
TKANPAR	Parm	Any	S	PDS	FB	80	105	176
TKANPENU	Panel	Any	S	PDS	FB	80	120	176
TKANPKGI	Data	Any	S	PDS	FB	80	285	132
TKANSAM	Sample	Any	S	PDS	FB	80	510	440
TKANSAMF	Sample	Any	S	PDS	FB	132	30	N/A
TKANSQL	SQL	Any	S	PDS	FB	80	45	176
TKANUTIN	UTIN	Any	S	PDS	FB	80	30	132
TKANWENU	Panel	Any	S	PDS	FB	80	555	572
TKCIINST	CLIST	Any	S	PDS	FB	80	104	132
TKNSLOCL	Data	Any	S	PDS	VB	6160	71	88
TKOBDATF	Data	Any	S	PDS	FB	80	30	132
TKOBHELP	Help	Any	S	PDS	FB	80	45	176
TKOCHELP	Help	Any	U	PDS	FB	80	30	132
TKOCPROC	Panel	Any	U	PDS	FB	80	120	528
TKOIHELP	Help	Any	U	PDS	FB	80	60	308
TKOIPROC	Panel	Any	U	PDS	FB	80	150	572
TKOMHELP	Help	Any	U	PDS	FB	80	75	352
TKOMPROC	Panel	Any	U	PDS	FB	80	105	440
TKO2DATA	Data	Any	U	PDS	VB	9072	30	132
TKO2DBRM	Data	Any	U	PDS	FB	80	75	132
TKO2EXEC	EXEC	Any	U	PDS	FB	80	60	132
TKO2HELP	Help	Any	U	PDS	FB	80	45	220
TKO2MENU	Message	Any	U	PDS	FB	80	30	132
TKO2PENU	Panel	Any	U	PDS	FB	80	165	352
TKO2PROC	Panel	Any	U	PDS	FB	80	195	880
TKO2SAMP	Sample	Any	U	PDS	FB	80	195	176
TKO2SLIB	Sample	Any	U	PDS	FB	80	30	132
TKO2TENU	Table	Any	U	PDS	FB	80	30	132
TKO2WS01	Data	Any	U	PDS	VB	256	60	132

Figure 14 (Page 1 of 2). Z Monitoring Suite File System Paths

DDNAME	T Y P E	Path Name
SCYNZBIN	N	/usr/lpp/itcam/WebSphere/DC/bin/IBM/
SCYNZESB	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/esb/ IBM/
SCYNZETC	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/etc/IBM/
SCYNZEW7	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/was7/ IBM/
SCYNZEW8	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/was8/ IBM/
SCYNZEW9	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/was9/ IBM/
SCYNZE70	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/was70/ IBM/
SCYNZILB	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/lib/IBM/
SCYNZLAX	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/lib/ext/axis/ IBM/
SCYNZLBE	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/lib/ext/IBM/
SCYNZLW	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/lib/ext/was/ IBM/
SCYNZLW6	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/lib/ext/was/ was6/IBM/
SCYNZMSJ	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/lib/ext/ msjars/IBM/
SCYNZPRS	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/prs/ IBM/
SCYNZTCO	N	/usr/lpp/itcam/WebSphere/DC/toolkit/codeset/IBM/
SCYNZTET	N	/usr/lpp/itcam/WebSphere/DC/toolkit/etc/IBM/
SCYNZTLB	N	/usr/lpp/itcam/WebSphere/DC/toolkit/lib/IBM/
SCYNZTLE	N	/usr/lpp/itcam/WebSphere/DC/toolkit/lib/ext/IBM/
SCYNZTMC	N	/usr/lpp/itcam/WebSphere/DC/toolkit/msg/C/IBM/
SCYNZTMD	N	/usr/lpp/itcam/WebSphere/DC/toolkit/msg/de/IBM/
SCYNZTME	N	/usr/lpp/itcam/WebSphere/DC/toolkit/msg/es/IBM/
SCYNZTMF	N	/usr/lpp/itcam/WebSphere/DC/toolkit/msg/fr/IBM/
SCYNZTMI	N	/usr/lpp/itcam/WebSphere/DC/toolkit/msg/it/IBM/
SCYNZTMJ	N	/usr/lpp/itcam/WebSphere/DC/toolkit/msg/ja/IBM/
SCYNZTMK	N	/usr/lpp/itcam/WebSphere/DC/toolkit/msg/ko/IBM/
SCYNZTMN	N	/usr/lpp/itcam/WebSphere/DC/toolkit/msg/zh_CN/IBM/
SCYNZTMP	N	/usr/lpp/itcam/WebSphere/DC/toolkit/msg/pt_BR/IBM/
SCYNZWAS	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/IBM/
SCYNZWPS	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/wps/ IBM/
SCYNZW5	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/was5/ IBM/

Figure 14 (Page 2 of 2). Z Monitoring Suite File System Paths

DDNAME	T Y P E	Path Name
SCYNZW51	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/was51/ IBM/
SCYNZW6	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/was6/ IBM/
SCYNZW60	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/was60/ IBM/
SCYNZW61	N	/usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/was61/ IBM/
SHBOFS00	N	/usr/lpp/IBM/zcdp/v5r1m0/IBM/
SHBOFSWL	N	/usr/lpp/IBM/zcdp_liberty/v5r1m0/IBM/
SKFKZFS	P	/usr/lpp/IBM/kafka/v1r1m0/IBM
TKANJAR	N	/usr/lpp/kan/bin/IBM
TKAYHFS	N	/usr/lpp/omdp/bin/IBM

Figure 15 (Page 1 of 3). Storage Requirements for Z Monitoring 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
ACYNAUTH	U	PDSE	U	0	30	N/A
ACYNHFS	U	PDS	VB	8796	675	176
ACYNINST	U	PDS	FB	80	30	132
ACYNINS1	U	PDS	FB	80	30	132
ACYNPKGI	U	PDS	FB	80	30	132
ACYNPROC	U	PDS	FB	80	30	132
AFZTLOAD	U	PDS	U	0	2	44
AFZTPKGI	U	PDS	FB	80	2	44
AIZDEXEC	U	PDS	FB	80	30	132
AIZDINST	U	PDS	FB	80	30	132
AIZDLOAD	U	PDS	U	0	105	132
AIZDMESG	U	PDS	FB	80	30	132
AIZDSAMP	U	PDS	FB	80	30	132
AHBOCLST	U	PDS	FB	80	2	2
AHBODEFS	U	PDS	VB	255	300	25

Figure 15 (Page 2 of 3). Storage Requirements for Z Monitoring 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
AHBOINST	U	PDS	FB	80	5	2
AHBOLOAD	U	PDSE	U	0	75	N/A
AHBOPGM	U	PDS	U	0	5	5
AHBOPGM2	U	PDSE	U	0	75	N/A
AHBOSAMP	U	PDS	FB	80	10	2
AHBOZFS	U	PDS	VB	27920	8500	5
AHBOWLPH	U	PDS	VB	27920	18000	5
AHBOWLPI	U	PDS	FB	80	3	2
AKFKINST	U	PDS	FB	80	3	2
AKFKSAMP	U	PDS	FB	80	15	5
AKFKZFS	U	PDS	VB	27920	18000	1
DKANCLI	S	PDS	FB	80	30	132
DKANCMD	S	PDS	FB	80	45	132
DKANCUS	S	PDS	FB	80	1350	1056
DKANDATR	S	PDS	FB	160	75	132
DKANDATV	S	PDS	VB	6160	2625	176
DKANEXEC	S	PDS	VB	255	135	264
DKANHENU	S	PDS	FB	80	585	396
DKANISP	S	PDS	FB	80	30	132
DKANJAR	S	PDS	VB	255	375	132
DKANMAC	S	PDS	FB	80	45	132
DKANMOD	S	PDS	U	0	1695	1012
DKANMODL	S	PDS	U	0	4275	572
DKANMODP	S	PDSE	U	0	480	N/A
DKANMODR	S	PDS	U	0	30	132
DKANMODS	S	PDS	U	0	165	176
DKANOSRC	S	PDS	VB	255	30	132
DKANPAR	S	PDS	FB	80	105	176
DKANPENU	S	PDS	FB	80	120	176

Figure 15 (Page 3 of 3). Storage Requirements for Z Monitoring 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
DKANPKGI	S	PDS	FB	80	285	132
DKANSAM	S	PDS	FB	80	510	440
DKANSAMF	S	PDS	FB	80	30	N/A
DKANSQL	S	PDS	FB	80	45	176
DKANUTIN	S	PDS	FB	80	30	132
DKANWENU	S	PDS	FB	80	555	572
DKAYHFS	U	PDSE	VB	32740	2295	N/A
DKCIINST	S	PDS	FB	80	119	132
DKNSLOCL	S	PDS	VB	6160	71	88
DKOBDATF	S	PDS	FB	80	30	132
DKOBHELP	S	PDS	FB	80	45	176
DKOCHELP	U	PDS	FB	80	30	132
DKOCPROC	U	PDS	FB	80	120	528
DKOIHELP	U	PDS	FB	80	60	308
DKOIPROC	U	PDS	FB	80	150	572
DKOMHELP	U	PDS	FB	80	75	352
DKOMPROC	U	PDS	FB	80	105	440
DKO2DATA	U	PDS	VB	9072	30	132
DKO2DBRM	U	PDS	FB	80	75	132
DKO2EXEC	U	PDS	FB	80	60	132
DKO2HELP	U	PDS	FB	80	45	220
DKO2MENU	U	PDS	FB	80	30	132
DKO2PENU	U	PDS	FB	80	165	352
DKO2PROC	U	PDS	FB	80	195	880
DKO2SAMP	U	PDS	FB	80	195	176
DKO2SLIB	U	PDS	FB	80	30	132
DKO2TENU	U	PDS	FB	80	30	132
DKO2WS01	U	PDS	VB	256	60	132

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 16. Storage Requirements for HKDS630 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	S	PDS	FB	80	132	88
TKANDATV	Data	Any	S	PDS	VB	6160	884	17
TKANMAC	Macro	Any	S	PDS	FB	80	1	2
TKANMOD	LMOD	Any	S	PDS	U	0	192	2
TKANMODL	LMOD	Any	S	PDS	U	0	1869	14
TKANMODP	LMOD	Any	S	PDSE	U	0	2	N/A
TKANMODS	LMOD	Any	S	PDS	U	0	3	5
TKANPAR	Parm	Any	S	PDS	FB	80	1	2
TKANPKGI	Data	Any	S	PDS	FB	80	9	2
TKANSAM	Sample	Any	S	PDS	FB	80	7	4
TKANSQL	SQL	Any	S	PDS	FB	80	2	2
TKNSLOCL	Data	Any	S	PDS	VB	6160	62	38
DKANCUS			S	PDS	FB	80	132	88
DKANDATV			S	PDS	VB	6160	884	17
DKANMAC			S	PDS	FB	80	1	2
DKANMOD			S	PDS	U	0	192	2
DKANMODL			S	PDS	U	0	1868	14
DKANMODP			S	PDS	U	0	2	1
DKANMODS			S	PDS	U	0	3	5
DKANPAR			S	PDS	FB	80	1	2
DKANPKGI			S	PDS	FB	80	9	2
DKANSAM			S	PDS	FB	80	7	4
DKANSQL			S	PDS	FB	80	3	2
DKNSLOCL			S	PDS	VB	6160	62	38

Figure 17. Storage Requirements for HKCI310 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
TKANCMD	Parm	Any	S	PDS	FB	80	16	8
TKANCUS	CLIST	Any	S	PDS	FB	80	1126	784
TKANMOD	LMOD	Any	S	PDS	U	0	9	4
TKANPAR	Parm	Any	S	PDS	FB	80	69	10
TKANPKGI	Data	Any	S	PDS	FB	80	31	2
TKANSAM	Sample	Any	S	PDS	FB	80	564	33
TKCIINST	Sample	Any	S	PDS	FB	80	104	94
DKANCMD			S	PDS	FB	80	16	8
DKANCUS			S	PDS	FB	80	1126	784
DKANMOD			S	PDS	U	0	8	7
DKANPAR			S	PDS	FB	80	69	10
DKANPKGI			S	PDS	FB	80	31	2
DKANSAM			S	PDS	FB	80	564	33
DKCIINST			S	PDS	FB	80	104	94

Figure 18 (Page 1 of 2). Storage Requirements for HKLV630 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
TKANCMD	Parm	Any	S	PDS	FB	80	1	2
TKANHENU	Help	Any	S	PDS	FB	80	22	28
TKANMAC	Macro	Any	S	PDS	FB	80	3	2
TKANMODL	LMOD	Any	S	PDS	U	0	204	153
TKANMODS	LMOD	Any	S	PDS	U	0	3	4
TKANPAR	Parm	Any	S	PDS	FB	80	1	3
TKANPENU	Panel	Any	S	PDS	FB	80	84	53
TKANPKGI	Data	Any	S	PDS	FB	80	15	2
TKANSAM	Sample	Any	S	PDS	FB	80	19	6
DKANCMD			S	PDS	FB	80	1	2

Figure 18 (Page 2 of 2). Storage Requirements for HKLV630 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
DKANHENU			S	PDS	FB	80	22	28
DKANMAC			S	PDS	FB	80	3	2
DKANMODL			S	PDS	U	0	204	131
DKANMODS			S	PDS	U	0	3	4
DKANPAR			S	PDS	FB	80	1	3
DKANPENU			S	PDS	FB	80	84	53
DKANPKG1			S	PDS	FB	80	15	2
DKANSAM			S	PDS	FB	80	19	6

Figure 19 (Page 1 of 2). Storage Requirements for HRKZ610 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	S	PDS	FB	80	17	32
TKANCUS	CLIST	Any	S	PDS	FB	80	50	34
TKANDATV	Data	Any	S	PDS	VB	6160	261	5
TKANEXEC	EXEC	Any	S	PDS	VB	255	4	9
TKANHENU	Help	Any	S	PDS	FB	80	55	27
TKANISP	CLIST	Any	S	PDS	FB	80	1	2
TKANMAC	Macro	Any	S	PDS	FB	80	4	2
TKANMOD	LMOD	Any	S	PDS	U	0	56	15
TKANMODL	LMOD	Any	S	PDS	U	0	448	38
TKANMODP	LMOD	Any	S	PDS	U	0	27	N/A
TKANPAR	Parm	Any	S	PDS	FB	80	9	6
TKANPKG1	Data	Any	S	PDS	FB	80	28	2
TKANSAM	Sample	Any	S	PDS	FB	80	7	5
TKANWENU	Panel	Any	S	PDS	FB	80	97	65
TKOMHELP	Help	Any	U	PDS	FB	80	56	259

Figure 19 (Page 2 of 2). Storage Requirements for HRKZ610 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
TKOMPROC	Panel	Any	U	PDS	FB	80	78	344
DKANCLI			S	PDS	FB	80	1	2
DKANCMD			S	PDS	FB	80	17	32
DKANCUS			S	PDS	FB	80	50	34
DKANDATV			S	PDS	VB	6160	261	5
DKANEXEC			S	PDS	VB	255	4	9
DKANHENU			S	PDS	FB	80	55	27
DKANISP			S	PDS	FB	80	1	2
DKANMAC			S	PDS	FB	80	4	2
DKANMOD			S	PDS	U	0	4	3
DKANMODL			S	PDS	U	0	475	50
DKANMODP			S	PDS	U	0	5	N/A
DKANPAR			S	PDS	FB	80	9	6
DKANPKGI			S	PDS	FB	80	28	2
DKANSAM			S	PDS	FB	80	7	5
DKANWENU			S	PDS	FB	80	97	65
DKOMHELP			U	PDS	FB	80	56	259
DKOMPROC			U	PDS	FB	80	78	344

Figure 20 (Page 1 of 2). Storage Requirements for HKOB750 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	S	PDS	FB	80	13	15
TKANDATV	Data	Any	S	PDS	VB	6160	1	2
TKANEXEC	EXEC	Any	S	PDS	VB	255	21	15
TKANHENU	Help	Any	S	PDS	FB	80	12	13
TKANISP	CLIST	Any	S	PDS	FB	80	1	2
TKANMAC	Macro	Any	S	PDS	FB	80	8	3

Figure 20 (Page 2 of 2). Storage Requirements for HKOB750 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
TKANMOD	LMOD	Any	S	PDS	U	0	121	19
TKANMODL	LMOD	Any	S	PDS	U	0	12	2
TKANMODP	LMOD	Any	S	PDSE	U	0	330	N/A
TKANMODS	LMOD	Any	S	PDS	U	0	74	56
TKANOSRC	Data	Any	S	PDS	VB	255	5	5
TKANPAR	Parm	Any	S	PDS	FB	80	1	2
TKANPKGI	Data	Any	S	PDS	FB	80	15	2
TKANSAM	Sample	Any	S	PDS	FB	80	3	3
TKANWENU	Panel	Any	S	PDS	FB	80	74	67
TKOBDATF	Data	Any	S	PDS	FB	80	2	2
TKOBHELP	Help	Any	S	PDS	FB	80	17	66
DKANCUS			S	PDS	FB	80	13	15
DKANDATV			S	PDS	VB	6160	1	2
DKANEXEC			S	PDS	VB	255	21	15
DKANHENU			S	PDS	FB	80	12	13
DKANISP			S	PDS	FB	80	1	2
DKANMAC			S	PDS	FB	80	8	3
DKANMOD			S	PDS	U	0	125	90
DKANMODL			S	PDS	U	0	12	2
DKANMODP			S	PDSE	U	0	81	N/A
DKANMODS			S	PDS	U	0	61	3
DKANOSRC			S	PDS	VB	255	5	5
DKANPAR			S	PDS	FB	80	1	2
DKANPKGI			S	PDS	FB	80	15	2
DKANSAM			S	PDS	FB	80	3	3
DKANWENU			S	PDS	FB	80	74	67
DKOBDATF			S	PDS	FB	80	2	2
DKOBHELP			S	PDS	FB	80	17	66

Figure 21. Storage Requirements for HKSB750 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	S	PDS	VB	6160	6	2
TKANMOD	LMOD	Any	S	PDS	U	0	122	5
TKANMODL	LMOD	Any	S	PDS	U	0	33	11
TKANPKGI	Data	Any	S	PDS	FB	80	3	2
DKANDATV			S	PDS	VB	6160	6	2
DKANMOD			S	PDS	U	0	22	11
DKANMODL			S	PDS	U	0	33	10
DKANPKGI			S	PDS	FB	80	3	2

Figure 22 (Page 1 of 2). Storage Requirements for HRKN610 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	S	PDS	FB	80	9	2
TKANDATV	Data	Any	S	PDS	VB	6160	332	3
TKANEXEC	EXEC	Any	S	PDS	VB	255	6	11
TKANHENU	Help	Any	S	PDS	FB	80	63	15
TKANMOD	LMOD	Any	S	PDS	U	0	41	7
TKANMODL	LMOD	Any	S	PDS	U	0	88	10
TKANMODS	LMOD	Any	S	PDS	U	0	42	15
TKANPAR	Parm	Any	S	PDS	FB	80	7	2
TKANPENU	Panel	Any	S	PDS	FB	80	3	3
TKANPKGI	Data	Any	S	PDS	FB	80	9	2
TKANSAM	Sample	Any	S	PDS	FB	80	1	2
TKANWENU	Panel	Any	S	PDS	FB	80	58	28
DKANCUS			S	PDS	FB	80	9	2
DKANDATV			S	PDS	VB	6160	332	3
DKANEXEC			S	PDS	VB	255	6	11
DKANHENU			S	PDS	FB	80	63	15

Figure 22 (Page 2 of 2). Storage Requirements for HRKN610 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
DKANMOD			S	PDS	U	0	40	46
DKANMODL			S	PDS	U	0	106	11
DKANMODS			S	PDS	U	0	18	13
DKANPAR			S	PDS	FB	80	7	2
DKANPENU			S	PDS	FB	80	3	3
DKANPKGI			S	PDS	FB	80	9	2
DKANSAM			S	PDS	FB	80	1	2
DKANWENU			S	PDS	FB	80	58	28

Figure 23 (Page 1 of 2). Storage Requirements for HKS3550 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	S	PDS	FB	80	49	37
TKANDATR	Data	Any	S	PDS	FB	160	54	43
TKANDATV	Data	Any	S	PDS	VB	6160	710	3
TKANEXEC	EXEC	Any	S	PDS	VB	255	20	22
TKANHENU	Help	Any	S	PDS	FB	80	124	80
TKANMOD	LMOD	Any	S	PDS	U	0	190	15
TKANMODL	LMOD	Any	S	PDS	U	0	445	44
TKANMODS	LMOD	Any	S	PDS	U	0	1	2
TKANOSRC	Data	Any	S	PDS	VB	255	1	3
TKANPAR	Parm	Any	S	PDS	FB	80	7	3
TKANPENU	Panel	Any	S	PDS	FB	80	6	5
TKANPKGI	Data	Any	S	PDS	FB	80	20	2
TKANSAM	Sample	Any	S	PDS	FB	80	13	13
TKANSQL	SQL	Any	S	PDS	FB	80	25	57
TKANWENU	Panel	Any	S	PDS	FB	80	56	52
DKANCUS			S	PDS	FB	80	49	37

Figure 23 (Page 2 of 2). Storage Requirements for HKS3550 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
DKANDATR			S	PDS	FB	160	54	43
DKANDATV			S	PDS	VB	6160	710	4
DKANEXEC			S	PDS	VB	255	20	22
DKANHENU			S	PDS	FB	80	124	80
DKANMOD			S	PDS	U	0	80	30
DKANMODL			S	PDS	U	0	452	47
DKANMODS			S	PDS	U	0	1	2
DKANOSRC			S	PDS	VB	255	1	3
DKANPAR			S	PDS	FB	80	7	3
DKANPENU			S	PDS	FB	80	6	5
DKANPKGI			S	PDS	FB	80	20	2
DKANSAM			S	PDS	FB	80	13	13
DKANSQL			S	PDS	FB	80	25	57
DKANWENU			S	PDS	FB	80	56	52

Figure 24. Storage Requirements for HRKD560 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	S	PDS	FB	80	1	2
TKANMOD	LMOD	Any	S	PDS	U	0	1	2
TKANPKGI	Data	Any	S	PDS	FB	80	1	2
DKANCUS			S	PDS	FB	80	1	2
DKANMOD			S	PDS	U	0	1	2
DKANPKGI			S	PDS	FB	80	1	2

Figure 25. Storage Requirements for HKOA110 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
TKANSAM	Sample	Any	S	PDS	FB	80	3	2
TKANMODP	LMOD	Any	S	PDSE	U	0	350	N/A
DKANMODP			S	PDSE	U	0	350	N/A
DKANSAM			S	PDS	FB	80	3	2
DKAYHFS			U	PDSE	VB	32740	2260	N/A

Figure 26 (Page 1 of 2). Storage Requirements for HKC5560 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	S	PDS	FB	80	47	33
TKANDATV	Data	Any	S	PDS	VB	6160	255	34
TKANEXEC	EXEC	Any	S	PDS	VB	255	21	36
TKANHENU	Help	Any	S	PDS	FB	80	51	32
TKANMAC	Macro	Any	S	PDS	FB	80	8	6
TKANMOD	LMOD	Any	S	PDS	U	0	194	32
TKANMODL	LMOD	Any	S	PDS	U	0	128	4
TKANMODR	LMOD	Any	S	PDS	U	0	1	2
TKANMODS	LMOD	Any	S	PDS	U	0	51	38
TKANOSRC	Data	Any	S	PDS	VB	255	1	2
TKANPAR	Parm	Any	S	PDS	FB	80	12	3
TKANPKGI	Data	Any	S	PDS	FB	80	36	3
TKANSAM	Sample	Any	S	PDS	FB	80	59	35
TKANWENU	Panel	Any	S	PDS	FB	80	91	78
TKOCHELP	Help	Any	U	PDS	FB	80	6	22
TKOCPROC	Panel	Any	U	PDS	FB	80	102	438
DKANCUS			S	PDS	FB	80	47	33
DKANDATV			S	PDS	VB	6160	255	4
DKANEXEC			S	PDS	VB	255	21	36

Figure 26 (Page 2 of 2). Storage Requirements for HKC5560 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
DKANHENU			S	PDS	FB	80	51	32
DKANMAC			S	PDS	FB	80	8	6
DKANMOD			S	PDS	U	0	144	107
DKANMODL			S	PDS	U	0	142	28
DKANMODR			S	PDS	U	0	1	2
DKANMODS			S	PDS	U	0	58	47
DKANOSRC			S	PDS	VB	255	1	2
DKANPAR			S	PDS	FB	80	12	3
DKANPKGI			S	PDS	FB	80	36	3
DKANSAM			S	PDS	FB	80	59	35
DKANWENU			S	PDS	FB	80	91	78
DKOCHELP			U	PDS	FB	80	6	22
DKOCPROC			U	PDS	FB	80	102	438

Figure 27 (Page 1 of 2). Storage Requirements for HKGW560 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	S	PDS	FB	80	15	10
TKANDATV	Data	Any	S	PDS	VB	6160	19	3
TKANEXEC	EXEC	Any	S	PDS	VB	255	1	3
TKANHENU	Help	Any	S	PDS	FB	80	5	4
TKANMOD	LMOD	Any	S	PDS	U	0	6	4
TKANMODL	LMOD	Any	S	PDS	U	0	20	2
TKANMODP	LMOD	Any	S	PDSE	U	0	6	N/A
TKANMODS	LMOD	Any	S	PDS	U	0	1	2
TKANPAR	Parm	Any	S	PDS	FB	80	2	2
TKANPKGI	Data	Any	S	PDS	FB	80	3	3
TKANUTIN	UTIN	Any	S	PDS	FB	80	1	2

Figure 27 (Page 2 of 2). Storage Requirements for HKGW560 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
TKANWENU	Panel	Any	S	PDS	FB	80	4	5
DKANCUS			S	PDS	FB	80	15	10
DKANDATV			S	PDS	VB	6160	19	3
DKANEXEC			S	PDS	VB	255	1	2
DKANHENU			S	PDS	FB	80	5	4
DKANJAR			S	PDS	VB	255	1	2
DKANMOD			S	PDS	U	0	8	7
DKANMODL			S	PDS	U	0	21	4
DKANMODP			S	PDSE	U	0	4	N/A
DKANMODS			S	PDS	U	0	1	2
DKANPAR			S	PDS	FB	80	2	2
DKANPKGI			S	PDS	FB	80	3	3
DKANUTIN			S	PDS	FB	80	1	2
DKANWENU			S	PDS	FB	80	4	5

Figure 28 (Page 1 of 3). Storage Requirements for HKDB550 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	2	1
TKANCUS	CLIST	Any	S	PDS	FB	80	64	7
TKANDATV	Data	Any	S	PDS	VB	6160	262	3
TKANEXEC	EXEC	Any	S	PDS	VB	255	15	15
TKANHENU	Help	Any	S	PDS	FB	80	132	25
TKANMOD	LMOD	Any	S	PDS	U	0	828	489
TKANMODL	LMOD	Any	S	PDS	U	0	195	17
TKANOSRC	Data	Any	S	PDS	VB	255	6	44
TKANPAR	Parm	Any	S	PDS	FB	80	19	2
TKANPKGI	Data	Any	S	PDS	FB	80	39	2

Figure 28 (Page 2 of 3). Storage Requirements for HKDB550 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
TKANSAM	Sample	Any	S	PDS	FB	80	7	3
TKANSAMF	Sample	Any	S	PDS	FB	132	14	N/A
TKANWENU	Panel	Any	S	PDS	FB	80	120	81
TKO2DATA	Data	Any	U	PDS	VB	9072	5	1
TKO2DBRM	Data	Any	U	PDS	FB	80	52	23
TKO2EXEC	EXEC	Any	U	PDS	FB	80	33	8
TKO2HELP	Help	Any	U	PDS	FB	80	16	108
TKO2MENU	Message	Any	U	PDS	FB	80	7	19
TKO2PENU	Panel	Any	U	PDS	FB	80	144	257
TKO2PROC	Panel	Any	U	PDS	FB	80	172	782
TKO2SAMP	Sample	Any	U	PDS	FB	80	172	53
TKO2SLIB	Sample	Any	U	PDS	FB	80	4	3
TKO2TENU	Table	Any	U	PDS	FB	80	9	3
TKO2WS01	Data	Any	U	PDS	VB	256	37	1
DKANCLI			S	PDS	FB	80	2	1
DKANCUS			S	PDS	FB	80	64	7
DKANDATV			S	PDS	VB	6160	262	3
DKANEXEC			S	PDS	VB	255	15	15
DKANHENU			S	PDS	FB	80	132	25
DKANMOD			S	PDS	U	0	828	489
DKANMODL			S	PDS	U	0	195	17
DKANOSRC			S	PDS	VB	255	6	44
DKANPAR			S	PDS	FB	80	19	2
DKANPKGI			S	PDS	FB	80	39	2
DKANSAM			S	PDS	FB	80	7	3
DKANSAMF			S	PDS	FB	132	14	N/A
DKANWENU			S	PDS	FB	80	120	81
DKO2DATA			U	PDS	VB	9072	5	1
DKO2DBRM			U	PDS	FB	80	52	23

Figure 28 (Page 3 of 3). Storage Requirements for HKDB550 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
DKO2EXEC			U	PDS	FB	80	33	8
DKO2HELP			U	PDS	FB	80	16	108
DKO2MENU			U	PDS	FB	80	7	19
DKO2PENU			U	PDS	FB	80	144	257
DKO2PROC			U	PDS	FB	80	172	782
DKO2SAMP			U	PDS	FB	80	172	53
DKO2SLIB			U	PDS	FB	80	4	3
DKO2TENU			U	PDS	FB	80	9	3
DKO2WS01			U	PDS	VB	256	37	1

Figure 29 (Page 1 of 2). Storage Requirements for HKI5550 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	S	PDS	FB	80	18	2
TKANDATV	Data	Any	S	PDS	VB	6160	153	4
TKANEXEC	EXEC	Any	S	PDS	VB	255	20	10
TKANHENU	Help	Any	S	PDS	FB	80	35	20
TKANMOD	LMOD	Any	S	PDS	U	0	170	34
TKANMODL	LMOD	Any	S	PDS	U	0	172	30
TKANMODR	LMOD	Any	S	PDS	U	0	7	7
TKANPAR	Data	Any	S	PDS	FB	80	13	5
TKANPKGI	Data	Any	S	PDS	FB	80	34	2
TKANSAM	Sample	Any	S	PDS	FB	80	33	12
TKANWENU	Panel	Any	S	PDS	FB	80	20	30
TKOIHELP	HELP	Any	U	PDS	FB	80	37	189
TKOIPROC	Panel	Any	U	PDS	FB	80	133	449
DKANCUS			S	PDS	FB	80	18	2
DKANDATV			S	PDS	VB	6160	153	4

Figure 29 (Page 2 of 2). Storage Requirements for HKI5550 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
DKANEXEC			S	PDS	VB	255	20	10
DKANHENU			S	PDS	FB	80	35	20
DKANMOD			S	PDS	U	0	134	74
DKANMODL			S	PDS	U	0	211	55
DKANMODR			S	PDS	U	0	7	7
DKANPAR			S	PDS	FB	80	13	5
DKANPKGI			S	PDS	FB	80	34	2
DKANSAM			S	PDS	FB	80	33	12
DKANWENU			S	PDS	FB	80	20	30
DKOIHELP			U	PDS	FB	80	37	189
DKOIPROC			U	PDS	FB	80	133	449

Figure 30. Storage Requirements for HAAD710 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
SCYNINST	Sample	Any	U	PDS	FB	80	4	3
SCYNPKGI	Data	Any	U	PDS	FB	80	6	2
ACYNHFS			U	PDS	VB	8796	654	55
ACYNINST			U	PDS	FB	80	4	3
ACYNPKGI			U	PDS	FB	80	6	2

Figure 31 (Page 1 of 2). Storage Requirements for HAAD71C 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
SCYNAUTH	LMOD	Any	U	PDSE	U	0	7	N/A
SCYNINS1	Sample	Any	U	PDS	FB	80	2	2

Figure 31 (Page 2 of 2). Storage Requirements for HAAD71C 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
SCYNPKGI	Data	Any	U	PDS	FB	80	2	1
SCYNPROC	Sample	Any	U	PDS	FB	80	2	3
ACYNAUTH			U	PDSE	U	0	7	N/A
ACYNINS1			U	PDS	FB	80	2	2
ACYNPKGI			U	PDS	FB	80	2	1
ACYNPROC			U	PDS	FB	80	2	3

Figure 32. Storage Requirements for HKYN710 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	S	PDS	FB	80	21	12
TKANDATV	Data	Any	S	PDS	VB	6160	311	2
TKANMODL	LMOD	Any	S	PDS	U	0	266	2
TKANPAR	Data	Any	S	PDS	FB	80	3	2
TKANPKGI	Data	Any	S	PDS	FB	80	1	2
DKANCUS			S	PDS	FB	80	21	12
DKANDATV			S	PDS	VB	6160	311	2
DKANMODL			S	PDS	U	0	266	2
DKANPAR			S	PDS	FB	80	3	2
DKANPKGI			S	PDS	FB	80	1	2

Figure 33 (Page 1 of 2). Storage Requirements for JKYN711 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	S	PDS	FB	80	2	1
TKANPKGI	Data	Any	S	PDS	FB	80	4	2

Figure 33 (Page 2 of 2). Storage Requirements for JKYN711 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
DKANCUS			S	PDS	FB	80	2	1
DKANPKGI			S	PDS	FB	80	4	2

Figure 34. Storage Requirements for HKQI750 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	S	PDS	FB	80	18	15
TKANDATV	Data	Any	S	PDS	VB	6160	187	6
TKANEXEC	EXEC	Any	S	PDS	VB	255	1	2
TKANHENU	Help	Any	S	PDS	FB	80	12	7
TKANMOD	LMOD	Any	S	PDS	U	0	66	3
TKANMODL	LMOD	Any	S	PDS	U	0	99	2
TKANPAR	Data	Any	S	PDS	FB	80	3	2
TKANPKGI	Data	Any	S	PDS	FB	80	4	2
TKANSAM	Sample	Any	S	PDS	FB	80	1	2
TKANWENU	Panel	Any	S	PDS	FB	80	10	12
DKANCUS			S	PDS	FB	80	18	15
DKANDATV			S	PDS	VB	6160	187	6
DKANEXEC			S	PDS	VB	255	1	2
DKANHENU			S	PDS	FB	80	12	7
DKANMOD			S	PDS	U	0	64	3
DKANMODL			S	PDS	U	0	99	2
DKANPAR			S	PDS	FB	80	3	2
DKANPKGI			S	PDS	FB	80	4	2
DKANSAM			S	PDS	FB	80	1	2
DKANWENU			S	PDS	FB	80	10	12

Figure 35. Storage Requirements for HKMQ750 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	S	PDS	FB	80	20	17
TKANDATV	Data	Any	S	PDS	VB	6160	203	3
TKANEXEC	EXEC	Any	S	PDS	VB	255	4	10
TKANHENU	HELP	Any	S	PDS	FB	80	78	17
TKANMOD	LMOD	Any	S	PDS	U	0	4	3
TKANMODL	LMOD	Any	S	PDS	U	0	370	11
TKANOSRC	Data	Any	S	PDS	VB	255	1	2
TKANPAR	Data	Any	S	PDS	FB	80	3	2
TKANPKGI	Data	Any	S	PDS	FB	80	5	2
TKANSAM	Sample	Any	S	PDS	FB	80	1	2
TKANWENU	Panel	Any	S	PDS	FB	80	55	59
DKANCUS			S	PDS	FB	80	20	17
DKANDATV			S	PDS	VB	6160	203	3
DKANEXEC			S	PDS	VB	255	4	10
DKANHENU			S	PDS	FB	80	78	17
DKANMOD			S	PDS	U	0	4	3
DKANMODL			S	PDS	U	0	370	11
DKANOSRC			S	PDS	VB	255	1	2
DKANPAR			S	PDS	FB	80	3	2
DKANPKGI			S	PDS	FB	80	5	2
DKANSAM			S	PDS	FB	80	1	2
DKANWENU			S	PDS	FB	80	55	59

Figure 36 (Page 1 of 2). Storage Requirements for HKJJ610 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	S	PDS	FB	80	5	2
TKANDATV	Data	Any	S	PDS	VB	6160	52	4

Figure 36 (Page 2 of 2). Storage Requirements for HKJJ610 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	4	5
TKANHENU	Help	Any	S	PDS	FB	80	15	15
TKANMOD	LMOD	Any	S	PDS	U	0	1	2
TKANMODL	LMOD	Any	S	PDS	U	0	33	2
TKANMODP	LMOD	Any	S	PDSE	U	0	18	N/A
TKANPAR	Parm	Any	S	PDS	FB	80	1	2
TKANPKGI	Data	Any	S	PDS	FB	80	5	3
TKANWENU	Panel	Any	S	PDS	FB	80	18	27
DKANCUS			S	PDS	FB	80	5	2
DKANDATV			S	PDS	VB	6160	52	4
DKANEXEC			S	PDS	VB	255	3	5
DKANHENU			S	PDS	FB	80	15	15
DKANJAR			S	PDS	VB	255	23	3
DKANMOD			S	PDS	U	0	4	2
DKANMODL			S	PDS	U	0	34	2
DKANMODP			S	PDSE	U	0	24	N/A
DKANPAR			S	PDS	FB	80	1	2
DKANPKGI			S	PDS	FB	80	5	3
DKANWENU			S	PDS	FB	80	18	25

Figure 37 (Page 1 of 2). Storage Requirements for HIZD320 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
SIZDSAMP	Samples	Any	U	PDS	FB	80	5	4
SIZDEXEC	CLIST	Any	U	PDS	FB	80	10	5
SIZDLOAD	Samples	Any	U	PDS	U	0	90	15
SIZDMESG	CLIST	Any	U	PDS	FB	80	3	3

Figure 37 (Page 2 of 2). Storage Requirements for HIZD320 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
AIZDINST			U	PDS	FB	80	3	3
AIZDSAMP			U	PDS	FB	80	25	4
AIZDEXEC			U	PDS	FB	80	10	5
AIZDLOAD			U	PDS	U	0	90	15
AIZDMESG			U	PDS	FB	80	3	3

Figure 38. Storage Requirements for HFZT211 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
SFZTLOAD	LMOD	Any	U	PDS	U	0	2	44
SFZTPKGI	Data	Any	U	PDS	FB	80	2	44
AFZTLOAD			U	PDS	U	0	2	44
AFZTPKGI			U	PDS	FB	80	2	44

Figure 39. Storage Requirements for HKFK110 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
SKFKINST	Samples	Any	U	PDS	FB	80	3	5
SKFKSAMP	Samples	Any	U	PDS	FB	80	15	5
AKFKINST			U	PDS	FB	80	3	2
AKFKSAMP			U	PDS	FB	80	15	5
AKFKZFS			U	PDS	VB	27920	18000	1

Figure 40. Storage Requirements for HHBO510 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
SHBOCLST	Data	ANY	U	PDS	FB	80	2	2
SHBODEFS	Data	ANY	U	PDS	VB	255	300	30
SHBOINST	SAMP	ANY	U	PDS	FB	80	5	5
SHBOLLST	MOD	ANY	U	PDS	U	0	5	3
SHBOLOAD	MOD	ANY	U	PDSE	U	0	70	N/A
SHBOLPA	MOD	ANY	U	PDS	U	0	5	2
SHBOSAMP	SAMP	ANY	U	PDS	FB	80	10	5
AHBOCLST			U	PDS	FB	80	2	2
AHBODEFS			U	PDS	VB	255	300	30
AHBOINST			U	PDS	FB	80	5	2
AHBOLOAD			U	PDSE	U	0	75	N/A
AHBOPGM			U	PDS	U	0	5	5
AHBOPGM2			U	PDSE	U	0	75	N/A
AHBOSAMP			U	PDS	FB	80	10	2
AHBOZFS			U	PDS	VB	27920	8500	5

Figure 41. Storage Requirements for HHBO51L 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
SHBOWLPI	SAMP	ANY	U	PDS	FB	80	3	5
AHBOWLPH			U	PDS	VB	27920	18000	2
AHBOWLPI			U	PDS	FB	80	3	2

5.3 FMIDs Deleted

Installing Z Monitoring 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 Z Monitoring 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.

To report issues or defects related to the use of the IBM Z Distribution for Zowe functionality use the IBM Z Monitoring Suite 5698-013 program number and or related component IDs.

If you are currently using RMF as a z/OS priced feature: Ask your asset manager to contact your IBM representative to alert IBM that you are discontinuing use of the MLC feature on a specific machine (as identified by a specific machine serial number), based on your purchase of the IBM Z Monitoring Suite.

If you are not currently using RMF: Enable RMF as described in the z/OS product documentation GA32-0890 z/OS Planning for Installation. The notification requirement to IBM, as described in the z/OS product documentation, is waived. You do not need to ask your asset manager to contact your IBM representative to alert IBM about your usage of RMF.

If you are installing into an existing SMP/E environment ensure that the HKM5550, HKN3550, and HKWO550 product FMIDs are NOT already installed. If any of these FMIDs are already installed, please ensure you have discussed your plans to deploy this Suite of FMIDs with your IBM representative.

The following sample job can be used to query the CSI for the presence of these FMIDs.

```
//SMPLIST JOB 'ACCOUNT INFORMATION','SMPTLIST',NOTIFY=&SYSUID,
//      CLASS=A,MSGCLASS=X,MSGLEVEL=X
//*****
/** NOTE:                                     **
/**      1. Update the job card parameters for your installation. **
/**                                           **
/**      2. Change all occurrences of the following lowercase   **
/**      variables to values suitable for your installation:    **
/**                                           **
/**      #globalcsi - The dsname of your global CSI.           **
/**      #tzone - The name of the target zone you are using.   **
/**                                           **
//*****
//S1      EXEC PGM=GIMSMP,REGION=64M,
//      PARM='PROCESS=WAIT',
//      DYNAMNBR=120
//SMPCSI  DD DISP=SHR,DSN=#globalcsi
//SMPOUT  DD SYSOUT=*
//SMPRPT  DD SYSOUT=*
//SMPLIST DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSUT1  DD UNIT=SYSDA,SPACE=(3120,(380,760))
//SYSUT2  DD UNIT=SYSDA,SPACE=(3120,(380,760))
//SYSUT3  DD UNIT=SYSDA,SPACE=(3120,(380,760))
//SYSUT4  DD UNIT=SYSDA,SPACE=(3120,(38,100))
//SMPWRK1 DD UNIT=SYSDA,
//      SPACE=(3120,(364,380,500)),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)
//SMPWRK2 DD UNIT=SYSDA,
//      SPACE=(3120,(364,380,500)),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)
//SMPWRK3 DD UNIT=SYSDA,
//      SPACE=(3120,(364,380,500)),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)
//SMPWRK4 DD UNIT=SYSDA,
//      SPACE=(3120,(364,380,500)),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)
//SMPWRK6 DD UNIT=SYSDA,
//      SPACE=(3120,(364,380,500)),
//      DCB=(RECFM=FB,BLKSIZE=3120)
//*
//SMPCNTL DD *
//      SET      BOUNDARY (#tzone) .
//      LIST     SYSMODS (HKM5550 HKN3550 HKW0550) .
/*
```

Discovery Library Adapter additional z/OS data sources:

- CICSplex System Manager - Version 5.4

Prior to installing Z Monitoring Suite, IBM recommends you review the OMEGAMON shared documentation 6.3.0 Fix Pack 2 and above, **First time deployment guide (FTU installation and tasks)**, the Planning, Configuring, and Configuration Manager 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 this product.

The OMEGAMON shared documentation, and other IBM product documentation can be found at the IBM Documentation URL listed below:

<https://www.ibm.com/docs/en/om-shared>

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 - UJ92865
HKDS630 - UJ07787
HKLV630 - UJ07235
HK0A110 - UJ93165
HK0B750 - UJ09123
HKS3550 - UJ04274

New DDDEFs and allocations were introduced via the service process and must be present in the CSI before the APPLY job is executed.

- PTFs UK81687 (HAAD71C FMID) and UJ93059 (HIZD320 FMID), require SMP/E SMPTLOAD DDDEF, ensure that SMPTLOAD is defined in the CSI.
- PTF UJ09160 (HKS3550 FMID) introduced the requirement for SCSFSTUB CALLLIBS definitions, reference this ptf's HOLDDATA for definition instructions.

The following sample job is provided to make these definitions, change all occurrences of the following lowercase variables to values suitable for your installation before submitting.

```
#globalcsi - The dsname of your global CSI.
#tzone - The name of the SMP/E target zone.
#dzone - The name of the SMP/E distribution zone.

//SMPTLOAD JOB 'ACCOUNT INFORMATION','SMPTLOAD',
//          CLASS=A,MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID
//*****
//*          D e f i n e   D D D E F   E n t r i e s   *
//*****
//SMPTLOAD EXEC PGM=GIMSMP,REGION=4096K
//SMPCSI  DD DISP=OLD,DSN=#globalcsi
//SMPCNTL DD *
          SET  BDY(GLOBAL) .
          UCLIN .
          ADD DDDEF(SMPTLOAD) CYL SPACE(2,1) DIR(10)
            UNIT(SYSALLDA) .
            ENDUCL .

          SET  BDY(#tzone) .
          UCLIN .
          ADD DDDEF(SMPTLOAD) CYL SPACE(2,1) DIR(10)
            UNIT(SYSALLDA) .
            ENDUCL .

          SET  BDY(#dzone) .
          UCLIN .
          ADD DDDEF(SMPTLOAD) CYL SPACE(2,1) DIR(10)
            UNIT(SYSALLDA) .
            ENDUCL .
/*
```

Reference the following URLs for Pre-installation requirements and instructions, and the current listing of recommended service for the OMEGAMON product Suite.

Pre-Installation Checklist: <https://www.ibm.com/support/docview.wss?uid=swg21318692&aid=1>

Recommended Maintenance Service Levels:

<http://www.ibm.com/support/docview.wss?uid=swg21290883>

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.
- If you want OMEGAMON for Db2 PE on z/OS and the Data Studio Workbench feature of Db2 Accessories Suite to coexist, ensure they are installed in different CSI target zones. Then separate run-time environments of OMEGAMON for Db2 PE and Data Studio Workbench can be configured to coexist in a given LPAR.

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of Z Monitoring Suite.

Please note the following points:

- If you want to install Z Monitoring 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.
- 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 Z Monitoring Suite

6.1.1 SMP/E Considerations for Installing Z Monitoring Suite

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of Z Monitoring Suite.

6.1.2 SMP/E Options Subentry Values

The recommended values for certain SMP/E CSI subentries are shown in Figure 42. 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.

<i>Figure 42. SMP/E Options Subentry Values</i>		
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

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

- CSSLIB
- SCCNOBJ
- SCEEBND2
- SCEECPP
- SCEELIB
- SCEELKED
- SCEELKEX
- SCEERUN
- SCEERUN2
- SCLBSID
- SCSFSTUB
- SCSQLOAD
- SEZACMTX

Note: CALLLIBS uses the previous DDDEFs only to resolve the link-edit for Z Monitoring Suite. These data sets are not updated during the installation of Z Monitoring 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 be required to get the latest updates for the Job Generator product selection 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 z/OS Installation and Configuration Tool component of the Tivoli Management Services on z/OS product, which is a requisite of this product. This utility is enhanced through 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 Job Generator product selection 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 '&gb1_target_hilev.TKANCUS'
```

Select "SMP/E-install z/OS products with Install Job Generator (JOBGEN)" from the z/OS 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. 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 Z Monitoring 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.

<i>Figure 43 (Page 1 of 2). Sample Installation Jobs for IBM Tivoli Management Services on z/OS</i>			
Job Name	Job Type	Description	SMPTLIB Data Set
KDSJ1SMA	Optional	Sample job to create new SMP/E support files	IBM.HKDS630.F13
KDSJ2SMI	Optional	Sample job to create and prime a new SMP/E CSI	IBM.HKDS630.F13
KDSJ3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HKDS630.F13
KDSJ4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HKDS630.F13

Figure 43 (Page 2 of 2). Sample Installation Jobs for IBM Tivoli Management Services on z/OS

Job Name	Job Type	Description	SMPTLIB Data Set
KDSJ5REC	RECEIVE	Sample RECEIVE job	IBM.HKDS630.F13
KDSJ6APP	APPLY	Sample APPLY job	IBM.HKDS630.F13
KDSJ7ACC	ACCEPT	Sample ACCEPT job	IBM.HKDS630.F13

Figure 44. Sample Installation Jobs for IBM Z OMEGAMON AI for z/OS

Job Name	Job Type	Description	SMPTLIB Data Set
KM5J3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HRKZ610.F18
KM5J4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HRKZ610.F18
KM5J5REC	RECEIVE	Sample RECEIVE job	IBM.HRKZ610.F18
KM5J6BDI	MKDIR	Sample job to invoke the supplied KAYMKDIR EXEC to allocate file system paths	IBM.HRKZ610.F18
KM5J7APP	APPLY	Sample APPLY job	IBM.HRKZ610.F18
KM5J8ACC	ACCEPT	Sample ACCEPT job	IBM.HRKZ610.F18

Figure 45. Sample Installation Jobs for IBM Z OMEGAMON AI for Networks

Job Name	Job Type	Description	RELFILE
KN3J3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HRKN610.F13
KN3J4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HRKN610.F13
KN3J5REC	RECEIVE	Sample RECEIVE job	IBM.HRKN610.F13
KN3J6BDI	MKDIR	Sample job to invoke the supplied KAYMKDIR EXEC to allocate file system paths	IBM.HRKN610.F13
KN3J7APP	APPLY	Sample APPLY job	IBM.HRKN610.F13
KN3J8ACC	ACCEPT	Sample ACCEPT job	IBM.HRKN610.F13

Figure 46. 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.HKS3550.F16
KS3J4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HKS3550.F16
KS3J5REC	RECEIVE	Sample RECEIVE job	IBM.HKS3550.F16
KS3J6APP	APPLY	Sample APPLY job	IBM.HKS3550.F16
KS3J7ACC	ACCEPT	Sample ACCEPT job	IBM.HKS3550.F16

Figure 47. Sample Installation Jobs for IBM Z OMEGAMON Integration Monitor

Job Name	Job Type	Description	RELFILE
KAYJ3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HKOA110.F2
KAYJ4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HKOA110.F2
KAYJ5REC	RECEIVE	Sample RECEIVE job	IBM.HKOA110.F2
KAYJ6BDI	MKDIR	Sample job to invoke the supplied KAYMKDIR EXEC to allocate file system paths	IBM.HKOA110.F2
KAYJ7APP	APPLY	Sample APPLY job	IBM.HKOA110.F2
KAYJ8ACC	ACCEPT	Sample ACCEPT job	IBM.HKOA110.F2

Figure 48. Sample Installation Jobs for IBM Z OMEGAMON for CICS

Job Name	Job Type	Description	RELFILE
KC5J3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HKC5560.F17
KC5J4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HKC5560.F17
KC5J5REC	RECEIVE	Sample RECEIVE job	IBM.HKC5560.F17
KC5J6BDI	MKDIR	Sample job to invoke the supplied KGWMKDIR EXEC to allocate file system paths	IBM.HKC5560.F17
KC5J7APP	APPLY	Sample APPLY job	IBM.HKC5560.F17
KC5J8ACC	ACCEPT	Sample ACCEPT job	IBM.HKC5560.F17

Figure 49. Sample Installation Jobs for IBM OMEGAMON for Db2 Performance Expert

Job Name	Job Type	Description	RELFILE
KDBJ3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HKDB550.F25
KDBJ4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HKDB550.F25
KDBJ5REC	RECEIVE	Sample RECEIVE job	IBM.HKDB550.F25
KDBJ6APP	APPLY	Sample APPLY job	IBM.HKDB550.F25
KDBJ7ACC	ACCEPT	Sample ACCEPT job	IBM.HKDB550.F25

Figure 50 (Page 1 of 2). Sample Installation Jobs for IBM OMEGAMON for IMS on z/OS

Job Name	Job Type	Description	RELFILE
KI5J3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HKI5550.F14

Figure 50 (Page 2 of 2). Sample Installation Jobs for IBM OMEGAMON for IMS on z/OS

Job Name	Job Type	Description	RELFILE
KI5J4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HKI5550.F14
KI5J5REC	RECEIVE	Sample RECEIVE job	IBM.HKI5550.F14
KI5J6APP	APPLY	Sample APPLY job	IBM.HKI5550.F14
KI5J7ACC	ACCEPT	Sample ACCEPT job	IBM.HKI5550.F14

Figure 51. Sample Installation Jobs for ITCAM for Web Resources

Job Name	Job Type	Description	RELFILE
KYNJ3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.JKYN711.F2
KYNJ4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.JKYN711.F2
KYNJ5REC	RECEIVE	Sample RECEIVE job	IBM.JKYN711.F2
KYNJ6BDI	MKDIR	Sample job to invoke the supplied KYNMKDIR EXEC to allocate file system paths	IBM.JKYN711.F2
KYNJ7APP	APPLY	Sample APPLY job	IBM.JKYN711.F2
KYNJ8ACC	ACCEPT	Sample ACCEPT job	IBM.JKYN711.F2

Figure 52. Sample Installation Jobs for IBM OMEGAMON for Messaging on z/OS

Job Name	Job Type	Description	RELFILE
KQIJ3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HKQI750.F11
KQIJ4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HKQI750.F11
KQIJ5REC	RECEIVE	Sample RECEIVE job	IBM.HKQI750.F11
KQIJ6APP	APPLY	Sample APPLY job	IBM.HKQI750.F11
KQIJ7ACC	ACCEPT	Sample ACCEPT job	IBM.HKQI750.F11

Figure 53 (Page 1 of 2). Sample Installation Jobs for IBM Z OMEGAMON AI for JVM

Job Name	Job Type	Description	RELFILE
KJJJ3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HKJJ610.F12
KJJJ4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HKJJ610.F12
KJJJ5REC	RECEIVE	Sample RECEIVE job	IBM.HKJJ610.F12
KJJJ6BDI	MKDIR	Sample job to invoke the supplied KJJMKDIR EXEC to allocate file system paths	IBM.HKJJ610.F12
KJJJ7APP	APPLY	Sample APPLY job	IBM.HKJJ610.F12

Figure 53 (Page 2 of 2). Sample Installation Jobs for IBM Z OMEGAMON AI for JVM

Job Name	Job Type	Description	RELFILE
KJJJ8ACC	ACCEPT	Sample ACCEPT job	IBM.HKJJ610.F12

Figure 54. Sample Installation Jobs for IBM Discovery Library Adapter for z/OS

Job Name	Job Type	Description	RELFILE
IZDJALLO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HIZD320.F1
IZDJDDDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HIZD320.F1
IZDJRECD	RECEIVE	Sample RECEIVE job	IBM.HIZD320.F1
IZDJAPP	APPLY	Sample APPLY job	IBM.HIZD320.F1
IZDJACC	ACCEPT	Sample ACCEPT job	IBM.HIZD320.F1

Figure 55. Sample Installation Jobs for IBM Z Monitoring Suite IZSAM ID

Job Name	Job Type	Description	RELFILE
FZTJ3ALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HFZT211.F1
FZTJ4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HFZT211.F1
FZTJ5REC	RECEIVE	Sample RECEIVE job	IBM.HFZT211.F1
FZTJ6APP	APPLY	Sample APPLY job	IBM.HFZT211.F1
FZTJ7ACC	ACCEPT	Sample ACCEPT job	IBM.HFZT211.F1

Figure 56. Sample Installation Jobs for Apache Kafka for IBM Z

Job Name	Job Type	Description	RELFILE
KFK1ALLO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HKFK110.F1
KFK3RMKD	MKDIR	Sample job to invoke the supplied KFKMKDIR EXEC to allocate file system paths	IBM.HKFK110.F1
KFK4DDDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HKFK110.F1
KFK5RECV	RECEIVE	Sample RECEIVE job	IBM.HKFK110.F1
KFK6APLY	APPLY	Sample APPLY job	IBM.HKFK110.F1
KFK7ACCP	ACCEPT	Sample ACCEPT job	IBM.HKFK110.F1

Figure 57. Sample Installation Jobs for IBM Z Common Data Provider - Base

Job Name	Job Type	Description	RELFILE
HBO1ALLO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HHBO510.F2
HBO3RMKD	MKDIR	Sample job to invoke the supplied KFKMKDIR EXEC to allocate file system paths	IBM.HHBO510.F2
HBO4DDDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HHBO510.F2
HBO5RECV	RECEIVE	Sample RECEIVE job	IBM.HHBO510.F2
HBO6APLY	APPLY	Sample APPLY job	IBM.HHBO510.F2
HBO7ACCP	ACCEPT	Sample ACCEPT job	IBM.HHBO510.F2

Figure 58. Sample Installation Jobs for IBM Z Common Data Provider - Liberty

Job Name	Job Type	Description	RELFILE
HBOL1ALL	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HHBO51L.F1
HBOL3MKD	MKDIR	Sample job to invoke the supplied KFKMKDIR EXEC to allocate file system paths	IBM.HHBO51L.F1
HBOL4DDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HHBO51L.F1
HBOL5REC	RECEIVE	Sample RECEIVE job	IBM.HHBO51L.F1
HBOL6APL	APPLY	Sample APPLY job	IBM.HHBO51L.F1
HBOL7ACC	ACCEPT	Sample ACCEPT job	IBM.HHBO51L.F1

SMP/E Considerations for Installing Liberty for ZCDP

A copy of the WebSphere Liberty Profile, entitled to be used with ZCDP and associated products dependent upon ZCDP.

The TSO userid used to perform this install needs to either have **UID 0** or have **READ** authority to the **SUPERUSER.FILESYS.PFSCCTL** profile in the **UNIXPRIV** class.

You need to install Liberty for ZCDP if:

1. You are installing on a z/OS 2.2 system which does not have an entitled Liberty and you do not plan to use the z/OSMF plug-in option for the ZCDP Configuration Application.
2. You are installing IBM Z Operations Analytics 4.1.0 to use ZCDP.
3. You need a separate copy of Liberty from the one shipped with z/OS 2.3 in order to insure that you always have the specific service level needed for either ZCDP or the dependent products.

You can access the sample installation jobs by performing an SMP/E RECEIVE (refer to 6.1.10, "Perform SMP/E RECEIVE" on page 71) then copy the jobs from the SMPTLIB data sets to a work data for editing and submission.

You can also copy the sample installation jobs from the product files by submitting the following job. 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=*
//IN 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=IN,OUTDD=OUT
SELECT MEMBER=(member-names)
/*
```

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

IN:

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.

6.1.6 Create New SMP/E Support Files - Optional

If you do not want to install into an existing environment, you can create a new environment. To allocate new SMP/E support data sets for Z Monitoring Suite installation, edit and submit the generated allocation job KCIJGSMA or edit and submit sample job KDSJ1SMA. Consult the instructions in the job for more information.

Expected Return Codes and Messages: 0

6.1.7 Create New SMP/E CSI - Optional

If you do not want to install into an existing environment, you can create a new environment. To allocate a new SMP/E CSI and prime it for Z Monitoring Suite installation, edit and submit the generated allocation job KCIJGSMI or edit and submit sample job KDSJ2SMI. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: 0

6.1.8 Allocate SMP/E Target and Distribution Libraries

Edit and submit the generated job KCIJGALO to allocate the SMP/E target and distribution libraries for Z Monitoring 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

6.1.9 Create DDDEF Entries

Edit and submit the generated job KCIJGDDF to create DDDEF entries for the SMP/E target and distribution libraries for Z Monitoring 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

6.1.10 Perform SMP/E RECEIVE

If you have obtained Z Monitoring Suite as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the Z Monitoring 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 Z Monitoring Suite. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: 0

6.1.11 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.PFSCCTL 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

6.1.12 Allocate File System Paths

If you are installing the OMEGAMON for CICS TG, OMEGAMON Integration Monitor, ITCAM for Application Diagnostics on z/OS, OMEGAMON AI for JVM, Apache Kafka for IBM Z, and IBM Z Common Data Provider Base and Liberty components, edit and submit the generated job KCIJGBDI to define the file system paths.

If you are not using the generated job, select the sample jobs KC5J6BDI, KAYJ6BDI, CYNJ0BDI, KJJJ6BDI, KFK3RMKD, HBO3RMKD and HBOL3MKD. Edit and submit them 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 Relfiles containing the KGWMKDIR, KAYMKDIR, KYNMKDIR, KJMKDIR, KFK3RMKD, HBO3RMKD and HBOL3MKD execs must be available prior to running these jobs. The Relfiles needed are HKGW550.F14, HKOA110.F2, JKYN711.F2, HKJJ610.F12, HKFK110.F1, HHBO510.F2, HHBO51L.F1 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 Z Monitoring 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

6.1.13 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 Z Monitoring 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 CICS TG, OMEGAMON Data Provider, ITCAM for Application Diagnostics on z/OS, OMEGAMON AI for JVM, Apache Kafka for IBM Z, and IBM Z Common Data Provider Base and Liberty components are 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: 4

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 ccccccc IN THE dddddddd LIBRARY. THE  
        RETURN CODE WAS ee. DATE yy.ddd -- TIME  
        hh:mm:ss -- SEQUENCE NUMBER nnnnnn --  
        SYSPRINT FILE ffffffff.
```

```
GIM24701W SMP/E COULD NOT OBTAIN LINK-EDIT PARAMETERS FOR  
        LOAD MODULE loadmod FOR SYSMOD sysmod. DEFAULTS  
        WERE USED.
```

```
GIM43401W elmtype elmname IN SYSMOD sysmod WAS NOT INSTALLED IN  
        ANY TARGET LIBRARY.
```

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

```
IEW2480W EXTERNAL SYMBOL symbol OF TYPE ESD-type WAS  
        ALREADY DEFINED AS A SYMBOL OF TYPE ESD-type  
        IN SECTION section-name.
```

```
IEW2482W THE ORIGINAL DEFINITION WAS IN A MODULE  
        IDENTIFIED BY ddname. THE DUPLICATE DEFINITION  
        IS IN section IN A MODULE IDENTIFIED BY ddname.
```

```
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 59 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 59 (Page 1 of 32). SMP/E Elements Not Selected</i>					
BPOMAB01	BPOMACRD	BPOMAXA0	BPOQACHP	BPOQADTL	BPOQALVP
BPOQAPVA	BPOQARDT	BPOQBFMT	BPOQCREC	BPOQCREP	BPOQECHP
BPOQEDTL	BPOQELVP	BPOQESCD	BPOQFB0F	BPOQFB4F	BPOQFCAT
BPOQFCDT	BPOQFC0F	BPOQFC4F	BPOQFD0F	BPOQFD4F	BPOQFL0F
BPOQFL4F	BPOQFUGB	BPOQFWAT	BPOQFWCA	BPOQFWGB	BPOQINEX
BPOQIREP	BPOQPRNT	BPOQQIEX	BPOQQKEY	BPOQRHDT	BPOQRHGT
BPOQRHOB	BPOQRIOA	BPOQRPDT	BPOQRPGT	BPOQRPST	BPOQRUDT
BPOQRUGT	BPOQRUST	BPOQSHAT	BPOQSHCA	BPOQSHGB	BPOQSPAT
BPOQSPCA	BPOQSPGB	BPOQSRGB	BPOQSUGB	BPOQTPFA	BPOQTPFC
BPOQTPFG	BPOQXDTL	BPOQXHGT	BPOQXPFA	BPOQXPGF	BPOQXSCD
CYNZABSW	CYNZAC31	CYNZAC50	CYNZAMUP	CYNZAN31	CYNZAN50
CYNZAS31	CYNZAS50	CYNZAT31	CYNZAT50	CYNZAXCB	CYNZBCBO
CYNZCCFG	CYNZCCLD	CYNZCDC	CYNZCDCX	CYNZCDN	CYNZCFF6
CYNZCKW9	CYNZCLBK	CYNZCLCJ	CYNZCLS6	CYNZCMJR	CYNZCOPY
CYNZCPS7	CYNZCTCB	CYNZCYCN	CYNZCYCT	CYNZCYND	CYNZCYNT
CYNZCY6D	CYNZDCLO	CYNZDCOL	CYNZDCPO	CYNZDC90	CYNZDW80
CYNZFD	CYNZFFDL	CYNZGLS	CYNZGLSW	CYNZHCCB	CYNZIMCB
CYNZINJR	CYNZINPU	CYNZJAVP	CYNZJCCJ	CYNZJDCB	CYNZJDCJ
CYNZJDC7	CYNZJDC8	CYNZJITJ	CYNZJMCB	CYNZJMXE	CYNZJW80
CYNZJW90	CYNZJXWH	CYNZKCOM	CYNZKWJD	CYNZKWJE	CYNZKWJM
CYNZKYMB	CYNZKYND	CYNZKY6D	CYNZLI14	CYNZLI15	CYNZLI16
CYNZLI56	CYNZLI66	CYNZLMGD	CYNZLMS6	CYNZMB70	CYNZMCBR
CYNZMCC	CYNZMCCN	CYNZMCDE	CYNZMCES	CYNZMCFG	CYNZMCFR
CYNZMCIT	CYNZMCJA	CYNZMCKO	CYNZME60	CYNZME61	CYNZME62
CYNZME70	CYNZMODE	CYNZMP60	CYNZMP61	CYNZMP62	CYNZMP70
CYNZMQCB	CYNZMSJR	CYNZMW51	CYNZMW60	CYNZMW61	CYNZMW80
CYNZMW9	CYNZMW90	CYNZPC09	CYNZPC80	CYNZPEXT	CYNZPINS
CYNZPMIC	CYNZPP	CYNZPPB	CYNZPPI	CYNZPPW5	CYNZPPW6

Figure 59 (Page 2 of 32). SMP/E Elements Not Selected

CYNZPPX	CYNZPPXI	CYNZPWP5	CYNZPWSI	CYNZPW7	CYNZPW8
CYNZREGA	CYNZRPS7	CYNZSM SH	CYNZSRV	CYNZSTUP	CYNZTBCE
CYNZTCRA	CYNZTCW6	CYNZTCW7	CYNZTCW9	CYNZTC51	CYNZTC70
CYNZTC80	CYNZTC90	CYNZTIJ8	CYNZTKAR	CYNZTKCJ	CYNZTKDJ
CYNZTKNJ	CYNZTKOJ	CYNZTKRJ	CYNZTKRU	CYNZTKUT	CYNZTKWJ
CYNZTKW8	CYNZTLJF	CYNZTOCC	CYNZTOCK	CYNZTOCU	CYNZTOCW
CYNZTOGC	CYNZTOOO	CYNZTOSD	CYNZTOW	CYNZTOW7	CYNZTOW8
CYNZTOW9	CYNZTO90	CYNZTPS7	CYNZTUJR	CYNZTW60	CYNZTW61
CYNZTW80	CYNZUNCN	CYNZUNDC	CYNZVERS	CYNZWCNC	CYNZWE CB
CYNZWM	CYNZWPCB	CYNZWSC	CYNZWSHA	CYNZWSIE	CYNZW6H
CYNZW6SX	CYNZW7SX	CYNZW8SX	CYNZW9SX	CYNZ6JCB	DGOAACUM
DGOABORD	DGOABORE	DGOABSBU	DGOABSDF	DGOABSGE	DGOABSGP
DGOABSRF	DGOABSXC	DGOACALC	DGOACMER	DGOACOMP	DGOACREC
DGOACREP	DGOACSBU	DGOACSPK	DGOACSDX	DGOACTFT	DGOADIST
DGOADNOR	DGOADSBU	DGOADSDF	DGOADSGE	DGOADSGP	DGOADSPK
DGOADSRF	DGOADSXC	DGOAEXIT	DGOAEX20	DGOAFGEN	DGOAFIL
DGOAFLAT	DGOAFORM	DGOAIREC	DGOAIREP	DGOALSBU	DGOALSDF
DGOALSGE	DGOALSGP	DGOALSPK	DGOALSRF	DGOALSXC	DGOALUMP
DGOAMSEP	DGOAMTRC	DGOAQIEX	DGOAQKEY	DGOARCAL	DGOAREDB
DGOAREDC	DGOAREDD	DGOAREDG	DGOAREDI	DGOAREDM	DGOAREDP
DGOAREDR	DGOAREDX	DGOARREC	DGOASAVE	DGOATFIL	DGOATOPR
DGOATPRC	DGOATPRS	DGOATRAC	DGOATREC	DGOAZMER	DGOAZREC
DGOBGENL	DGOBMAIN	DGOBMIGN	DGOBMODL	DGOBROWS	DGOBSELL
DGOBSRAL	DGOBSRBN	DGOBSRCM	DGOBSRDD	DGOBSRLG	DGOBSRLK
DGOBSRLO	DGOBSROC	DGOBSRPO	DGOBSRQP	DGOBSRRI	DGOBSRSH
DGOBSRSP	DGOBSRSQ	DGOBSRSS	DGOBSRTM	DGOBSTAL	DGOBSTBN
DGOBSTCM	DGOBSTDD	DGOBSTLG	DGOBSTLK	DGOBSTLO	DGOBSTOC
DGOBSTPO	DGOBSTQP	DGOBSTRI	DGOBSTSH	DGOBSTSP	DGOBSTSQ
DGOBSTSS	DGOBSTTM	DGOEC000	DGOEINIT	DGOER000	DGOFE CAL
DGOFECA2	DGOFEDAT	DGOFEDPM	DGOFEPKG	DGOFPCAL	DGOFPCRS
DGOFPDAT	DGOFPDPM	DGOFPEPC	DGOFPE15	DGOFPNMP	DGOFPRF0
DGOFPRIC	DGOFPRMC	DGOFPRPC	DGOFPRPT	DGOFPVCD	DGOFSBGL
DGOFSBSP	DGOFSBST	DGOFSLST	DGOFSVLS	DGOFS9ST	DGOFUCAL

Figure 59 (Page 3 of 32). SMP/E Elements Not Selected

DGOFUCA1	DGOFUFAC	DGOFUFDI	DGOICREP	DGOIIREP	DGOIPACT
DGOIPARC	DGOIPBUF	DGOIPEDM	DGOIPRXI	DGOIPSUM	DGOIQIEX
DGOIQKEY	DGOLADLK	DGOLAEOF	DGOLAREQ	DGOLARES	DGOLASUM
DGOLATIM	DGOLCREC	DGOLCREP	DGOLFILE	DGOLQIEX	DGOLQKEY
DGOLREPT	DGOLSPSH	DGOLTRAC	DGOMEXA2	DGONCREC	DGONCREP
DGONFIFA	DGONFILE	DGONFIL1	DGONFISE	DGONFLST	DGONFPAC
DGONFWAC	DGONFWHD	DGONFWPA	DGONFWP1	DGONFWP9	DGONFXPK
DGONF012	DGONF023	DGONF030	DGONF050	DGONF060	DGONF070
DGONF100	DGONF130	DGONF140	DGONF150	DGONF170	DGONF180
DGONF190	DGONF200	DGONF210	DGONF220	DGONF230	DGONF240
DGONF250	DGONF260	DGONF270	DGONF280	DGONF320	DGONF330
DGONF340	DGONF350	DGONF360	DGONF370	DGONF380	DGONF410
DGONF500	DGONF8ST	DGONF9ST	DGONIREC	DGONPRNT	DGONTRAC
DGONUPDB	DGONZREC	DGONZREP	DGOPAA10	DGOPAB10	DGOPACNV
DGOPAC10	DGOPJAMI	DGOPMHDR	DGOPMIC1	DGOPSA10	DGOPSB10
DGOPSB20	DGOPSCNV	DGOPSC10	DGOPSC20	DGORAEXT	DGORCREC
DGORCREP	DGORCRE2	DGORINEX	DGORIREC	DGORIREP	DGOROADB
DGORPACC	DGORPCAP	DGORPHIL	DGORPHVA	DGORPIND	DGORPMIN
DGORPPAR	DGORPPKG	DGORPRID	DGORPRNT	DGORPSCA	DGORPSOR
DGORPSUM	DGORPUDF	DGORQE15	DGORRHVA	DGORRSQL	DGORSRBY
DGORUACC	DGORUIND	DGORUSUM	DGORUWRK	DGORZREC	DGORZREP
DGOSACMG	DGOSACUM	DGOSACU2	DGOSALST	DGOSAPAW	DGOSAPTD
DGOSAPTS	DGOSATGS	DGOSATXA	DGOSAVLS	DGOSBDDF	DGOSBGEN
DGOSBLKX	DGOSBORD	DGOSBORE	DGOSBSTG	DGOSCDDF	DGOSCGEN
DGOSCREC	DGOSCREP	DGOSCSTG	DGOSDDDF	DGOSDGEN	DGOSDLTD
DGOSDSTG	DGOSFILE	DGOSFMTQ	DGOSFMTR	DGOSFMTS	DGOSFMTT
DGOSGENC	DGOSGENS	DGOSI199	DGOSI225	DGOSI369	DGOSLDDF
DGOSLGEN	DGOSLSTG	DGOSPREP	DGOSPREQ	DGOSQIEX	DGOSQKEY
DGOSREDC	DGOSREPG	DGOSREPM	DGOSRMGS	DGOSSAVE	DGOSSTDA
DGOSSWSR	DGOSTRAC	DGOSUPDB	DGOSZREP	DGOS199R	DGOS199T
DGOTABRB	DGOTAEOF	DGOTAEXT	DGOTAFPP	DGOTAPVA	DGOTARAD
DGOTATRC	DGOTAUTY	DGOTBBRB	DGOTBFMT	DGOTBFPP	DGOTBPRT
DGOTBRAD	DGOTBWKL	DGOTCCHK	DGOTCCOP	DGOTCDIV	DGOTCLOD

Figure 59 (Page 4 of 32). SMP/E Elements Not Selected

DGOTCRCO	DGOTCREB	DGOTCREC	DGOTCREO	DGOTCREP	DGOTCULD
DGOTINEX	DGOTIREC	DGOTIREP	DGOTPFMT	DGOTPPHA	DGOTPRNT
DGOTPUPH	DGOTQIEX	DGOTQKEY	DGOVBMG	DGOVCINI	DGOVCRDB
DGOVDB2E	DGOVDB2F	DGOVDMSG	DGOVDS	DGOVDSRC	DGOVFTAB
DGOVFTIN	DGOVHMCD	DGOVHMDR	DGOVHMM0	DGOVHMM1	DGOVHMM2
DGOVHMM3	DGOVHMSD	DGOVHMS1	DGOVHMTC	DGOVHMTM	DGOVHM00
DGOVISI	DGOVISIT	DGOVMDSP	DGOVMRAP	DGOVMRAS	DGOVMSTR
DGOVM001	DGOVM002	DGOVPIG0	DGOVPIG1	DGOVPOPT	DGOVPP3
DGOVRA	DGOVRGM1	DGOVRG00	DGOVRG01	DGOVRG02	DGOVRG03
DGOVRG04	DGOVRG10	DGOVRG11	DGOVRG12	DGOVRG13	DGOVRG20
DGOVRG21	DGOVRG22	DGOVRG23	DGOVRG24	DGOVRG25	DGOVRG26
DGOVRG27	DGOVRG28	DGOVRG4B	DGOVRG4C	DGOVRG4X	DGOVSADJ
DGOVSADK	DGOVSCLO	DGOVSCLR	DGOVSCNI	DGOVSCNT	DGOVSCON
DGOVSCPI	DGOVSDTS	DGOVSDTT	DGOVSFLR	DGOVSGFT	DGOVSGSA
DGOVSLOC	DGOVSORT	DGOVSQFM	DGOVSQRY	DGOVSQSM	DGOVSQTR
DGOVSSEN	DGOVSSP1	DGOVSTAG	DGOVSTQL	DGOVTCPD	DGOVTCPL
DGOVTCPS	DGOVTCPT	DGOVTDI0	DGOVTSEX	DGOVTWR	DGOVUAS0
DGOVUDAT	DGOVUELD	DGOVUFTL	DGOVUINI	DGOVUM01	DGOVUSS0
DGOWBSFP	DGOWB106	DGOWCREC	DGOWC106	DGOWD106	DGOWFILE
DGOWF106	DGOWF107	DGOWF201	DGOWF256	DGOWL106	DGOWUPDB
DGOW1FIL	DGOXBASS	DGOXCREC	DGOXCREP	DGOXD000	DGOXFSQL
DGOXF000	DGOXF001	DGOXF002	DGOXF003	DGOXF004	DGOXF005
DGOXF006	DGOXF007	DGOXF008	DGOXF009	DGOXHRLN	DGOXIREC
DGOXIREP	DGOXPCON	DGOXQIEX	DGOXQKEY	DGOXQLVL	DGOXR000
DGOXSPRT	DGOXS000	DGOXS001	DGOXS002	DGOXS003	DGOXS004
DGOXS005	DGOXS006	DGOXS007	DGOXT000	DGOXT001	DGOXT002
DGOXT003	DGOXT004	DGOXT005	DGOXT006	DGOXT007	DGOXZREP
DGOZLD10	DGOZLD11	DGOZLD5	DGOZLD6	DGOZLD7	DGOZLD8
DGOZLD9	FPECHECO	FPECHE15	FPECHE35	FPECHFLT	FPECHGVR
FPECHNMP	FPECIVPI	FPECKECO	FPECKE15	FPECKE35	FPECMDAT
FPECQECO	FPECQE15	FPECQE35	FPECVBOO	FPECVCOI	FPEVCOL
FPECVCOX	FPECVCRS	FPECVDDO	FPECVDSO	FPECVDTC	FPECVDTO
FPECVEXO	FPECVFRO	FPECVGLC	FPECVGOL	FPECVGSL	FPECVINO

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FPECVKDC	FPECVLAO	FPECVLIO	FPECVLVO	FPECMRO	FPECVOPO
FPECVORO	FPECVPAC	FPECVPEX	FPECVPIE	FPECVRDT	FPECVRID
FPECVRIN	FPECVRMC	FPECVRPL	FPECVRTN	FPECVSP0	FPECVSRB
FPECVSRD	FPECVSST	FPECVSZB	FPECVTOO	FPECVTOP	FPECVTYO
FPECVVCD	FPECVWRK	FPEFUCAL	FPEITASC	FPEITASU	FPEITASV
FPEKITQ	FPEMEXA0	FPEPASBU	FPEPASGP	FPEPASPK	FPEPASRF
FPEPASXC	FPEPCSV	FPEPCSVS	FPEPCSVW	FPEPSDDF	FPEPSGEN
FPEPSSTG	FPEPWSFP	FPEPW106	FPEUCBLD	FPEUCBPR	FPEUFIO2
FPEUFTDS	FPEUFTS2	FPEUHDRS	FPEUIFCI	FPEUIFC2	FPEUMSGS
FPEUNIDT	FPEVDB2I	FPEVDB2S	FPEVDB24	FPEVFLM	FPEVFTM
FPEVMMM	FPEVMST2	FPEVM000	FPEVNTM	FPEVNT00	FPEVRAC
FPEVRDS1	FPEVRDS2	FPEVREQ0	FPEVRG8X	FPEVSCN1	FPEVSDCM
FPEVSERV	FPEVSFLR	FPEVSIM	FPEVSPMM	FPEVUAM	FPEVWR2C
FPEVZMAI	KCADEVT0	KCAIMGR4	KCAOSYS0	KCAUCBS0	KCEPLX@S
KCI\$SYN2	KCICRPLC	KCIDJG00	KCIDPGNX	KCIDPGNZ	KCIDPNEW
KCIJPVER	KCIJSALO	KCIJSLOD	KCIJSUSU	KCIPQPGW	KCIPRMLB
KCIRPLBV	KCIRXDLA	KCNCFDRP	KCNCPYRM	KCPATF2	KCPATF3
KCPATF4	KCPATF5	KCPATF6	KCPATR	KCPBAR	KCPBNDX
KPCCAT	KPCCFSP	KPCCFSP	KPCCMDSC	KPCCMDX	KPCCMDXX
KPCPRG1	KPCPROG	KPCPCTXT1	KPCDLP	KPCDOC	KPCDPTDZ
KCPD2P	KPCGENF	KCPH0001	KCPH0002	KCPH0003	KCPH0004
KCPH0005	KCPH0006	KCPH0007	KCPH0008	KCPH0009	KCPH0010
KCPH0011	KCPH0012	KCPH0013	KCPH0014	KCPH0015	KCPH0016
KCPH0017	KCPH0018	KCPH0019	KCPH0020	KCPH0021	KCPH0022
KCPH0023	KCPH0024	KCPH0025	KCPH0026	KCPH0027	KCPH0028
KCPH0029	KCPH0030	KCPH0031	KCPH0032	KCPH0033	KCPH0034
KCPH0035	KCPH0036	KCPH0037	KCPH0038	KCPH0039	KCPH0040
KCPH0041	KCPH0042	KCPH0043	KCPH0044	KCPH0045	KCPH0046
KCPH0047	KCPH0048	KCPH0049	KCPH0050	KCPH0051	KCPH0052
KCPH0053	KCPH0054	KCPH0055	KCPH0056	KCPH0057	KCPH0058
KCPH0059	KCPH0060	KCPH0061	KCPH0062	KCPH0063	KCPH0064
KCPH0065	KCPH0066	KCPH0067	KCPH0068	KCPH0069	KCPH0070
KCPH0071	KCPH0072	KCPH0073	KCPH0074	KCPH0075	KCPH0076

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KCPH0077	KCPH0078	KCPH0079	KCPH0080	KCPH0081	KCPH0082
KCPH0083	KCPH0084	KCPH0085	KCPH0086	KCPH0087	KCPH0088
KCPH0089	KCPH0090	KCPH0091	KCPH0092	KCPH0093	KCPH0094
KCPH0095	KCPH0096	KCPH0097	KCPH0098	KCPH0099	KCPH0100
KCPH0101	KCPH0102	KCPH0103	KCPH0104	KCPH0105	KCPH0106
KCPH0107	KCPH0108	KCPH0109	KCPH0110	KCPH0111	KCPH0112
KCPH0113	KCPH0114	KCPH0115	KCPH0116	KCPH0117	KCPH0118
KCPH0119	KCPH0120	KCPH0121	KCPH0122	KCPH0123	KCPH0124
KCPH0125	KCPH0126	KCPH0127	KCPH0128	KCPH0129	KCPH0130
KCPH0131	KCPH0132	KCPH0133	KCPH0134	KCPH0135	KCPH0136
KCPH0137	KCPH0138	KCPH0139	KCPH0140	KCPH0141	KCPH0142
KCPH0143	KCPH0144	KCPH0145	KCPH0146	KCPH0147	KCPH0148
KCPH0149	KCPH0150	KCPH0151	KCPH0152	KCPH0153	KCPH0154
KCPICP	KCPINDEX	KCPJSTMS	KCPJSTPS	KCPJSTPW	KCPMAP
KCPMQMP	KCPMSMAN	KCPPRPL	KCPPTHST	KCPRLIMB	KCPSLAAA
KCPSLAAC	KCPSLAAE	KCPSLAAL	KCPSLAAO	KCPSLAAR	KCPSLAAT
KCPSLAAU	KCPSLACC	KCPSLACS	KCPSLALL	KCPSLAR	KCPSLASE
KCPSLASU	KCPSLATT	KCPSLAUG	KCPSLAUR	KCPSLAUU	KCPTAHDX
KCPTAHFN	KCPTASAD	KCPTASH	KCPTASHB	KCPTASHE	KCPTASPA
KCPTASS	KCPTCD	KCPTCSA	KCPTD2S	KCPTERSX	KCPURIMD
KCPVRTMS	KCPWBSTH	KC256DG1	KC5AFF00	KC5AGENT	KC5BND@S
KC5COL@S	KC5COL00	KC5DCC@S	KC5DSC00	KC5FRR00	KC5INT00
KC5JSLOD	KC5NOD00	KC5ODV@S	KC5OLL00	KC5OTR@S	KC5PRMLB
KC5RLM00	KC5RLU00	KC5SAA00	KC5SLU00	KC5TAN@S	KC5TASA0
KC5TASB0	KC5TASC0	KC5TASD0	KC5TCD@S	KC5TCS@S	KC5TPCA0
KC5TPCB0	KC5TPCC0	KC5TPCD0	KC5TRD@S	KC5TRN@S	KC5TSM@S
KC5URD@S	KC5WSP00	KC5WSS00	KC5XAM00	KDFCEMCT	KDFDAPCL
KDFDATA	KDFDBCMD	KDFDCNSI	KDFDCONS	KDFDCRTR	KDFDEVIN
KDFDEVSU	KDFDEVXT	KDFDFREF	KDFDHSIN	KDFDHSMML	KDFDHSMML
KDFDICE	KDFDLSUM	KDFDMCTF	KDFDPAPL	KDFDPDEV	KDFDPDSN
KDFDSCIN	KDFDSCTE	KDFDSMF	KDFDSUMM	KDFDSYM	KDFDSYMR
KDFDSYM5	KDFDSYM6	KDFDTAPE	KDFDTPIN	KDFDUDGI	KDFDUDSI
KDFDVTPD	KDFDVTSC	KDFDVTSD	KDFDVTSI	KDFDVTSP	KDFDVTST

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KDFHSICP	KDFLSMCD	KDFMACON	KDFMUTIL	KDFSALTR	KDFSCOL
KDFSCOMM	KDFSCONF	KDFSCONX	KDFSESPG	KDFSESPM	KDFSESPP
KDFSHSML	KDFSHSMM	KDFSINIT	KDFSIOCE	KDFSMAIN	KDFSMARC
KDFSMCOL	KDFSMIBF	KDFSMIG	KDFSMSUB	KDFSPCMT	KDFSPDEV
KDFSPDSH	KDFSPINI	KDFSPIPR	KDFSPISU	KDFSPITD	KDFSPLPR
KDFSPLSU	KDFSPLTD	KDFSPMGT	KDFSPTRM	KFSRACI	KFSRACS
KDFSRACT	KDFSRESM	KDFSSCN	KDFSSCNS	KDFSSIOE	KDFSSSCQ
KDFSXAPL	KDFSXDRV	KDFSXHRP	KDFSXLST	KDFSXSTP	KDFSXSTR
KDFVXAPL	KDFVXCHP	KDFVXDEV	KDFVXDSC	KDFVXDWK	KDFVXGSA
KDFVXGS0	KDFVXHSM	KDFVXMTW	KDFVXPDS	KDFVXTPE	KDFVXVCT
KDF2APPL	KDF2CSTT	KDF2DSO	KDF2DSNL	KDF2DSNS	KDF2DSUM
KDF2HCDS	KDF2HDRV	KDF2HFDA	KDF2HFST	KDF2HMRA	KDF2HRCT
KDF2HREQ	KDF2HSFN	KDF2HSLG	KDF2HSMS	KDF2HSTO	KDF2HSVL
KDF2IDSG	KDF2IUDD	KDF2IUDN	KDF2LDSC	KDF2LDSG	KDF2LDSI
KDF2LHFS	KDF2LHST	KDF2LSDS	KDF2LSMC	KDF2LSUM	KDF2LUDD
KDF2LUDN	KDF2LVTC	KDF2LVTD	KDF2LVTL	KDF2LVTR	KDF2RAIN
KDF2RAQD	KDF2RAQE	KDF2RAQI	KDF2RDSG	KDF2RHRQ	KDF2TAPD
KDF2TAPG	KDF2UDSG	KDF2UUDN	KDF3CDET	KDF3CDEV	KDF3CSUB
KDF3FNDU	KDF3LCHP	KDF3LDEV	KDF3SEEK	KDPATR	KDPBAR
KDPBPRIX	KDPCAT	KDPCPAV	KDPCPDBI	KDPCPDBZ	KDPCPONI
KDPDATA	KDPDOC	KDPDQDST	KDPENVDB	KDPGOA	KDPHACCT
KDPHAGTV	KDPHBP	KDPHBPD	KDPHGBP	KDPHGBPD	KDPHHACT
KDPHHTHD	KDPHISLA	KDPHISLB	KDPHISLD	KDPHISLS	KDPHISTC
KDPHISTL	KDPHLP21	KDPHLP22	KDPHLWAT	KDPHPLN2	KDPHQBAC
KDPHQDST	KDPHQTST	KDPHSTSX	KDPHTHD1	KDPHWAIT	KDPH0006
KDPINDEX	KDPINTVS	KDPJSTMS	KDPJSTPS	KDPJSTPW	KDPKPI2
KDPMAP	KDPMSMAN	KDPPDICT	KDPPGBPL	KDPPIR00	KDPPLEX
KDPPQDST	KDPPREG	KDPPRH00	KDPPSQLE	KDPPSQL4	KDPPSQT1
KDPPSTB1	KDPPTHDS	KDPPZIRL	KDPPZOTH	KDPPZPRM	KDPPZSP
KDPPZUTL	KDPQDST	KDPQTST	KDPSNM00	KDPSQLE	KDPSQLT1
KDPSQL4	KDPSTAT1	KDPSTO2A	KDPSTU2A	KDPTHDA2	KDPTHDBD
KDPTHDBP	KDPTHD52	KDPTQBAC	KDPVAVT	KDPVRTMS	KDPXREG
KDPZIRLM	KDPZOTH	KDPZPARM	KDPZSP	KDPZUTIL	KDSJSLOD

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KDSPRMLB	KD2AHELP	KD2BHELP	KD2CRPLC	KD2CVAL	KD2DDICT
KD2DDICX	KD2PRMLF	KD2PRMLP	KD5ACINO	KD5ACMD	KD5ACT@S
KD5ACT00	KD5AGAVT	KD5AGENT	KD5ASSCT	KD5ATC00	KD5AUTOD
KD5AUTO0	KD5AUTO1	KD5BHELP	KD5CCB00	KD5CMD00	KD5COL00
KD5CVAL	KD5DB200	KD5DCE00	KD5DCIFP	KD5DCIF0	KD5DDICT
KD5DET00	KD5DSPLY	KD5DSPL0	KD5GBPLP	KD5GBPLQ	KD5GBPMP
KD5GBPMQ	KD5GBPNP	KD5GBPNQ	KD5GOA00	KD5GOB00	KD5GOV00
KD5GSTLP	KD5GSTLQ	KD5GSTMP	KD5GSTMQ	KD5GSTNP	KD5GSTNQ
KD5HUB0H	KD5HUB00	KD5HUB01	KD5INI0H	KD5INI00	KD5IRA00
KD5IRH00	KD5JSALO	KD5JSLOD	KD5JSUPV	KD5KFA0H	KD5KFA00
KD5LNKL0	KD5LNKM0	KD5LNKN0	KD5LRDEL	KD5LRGET	KD5LRNEW
KD5LRREL	KD5PDICT	KD5PLEX	KD5PRMLB	KD5SCML0	KD5SCMM0
KD5SCMN0	KD5SNM00	KD5SRV00	KD5STA00	KD5SUBIP	KD5SUBIQ
KD5SUBJP	KD5SUBJQ	KD5SUBLP	KD5SUBLQ	KD5SUBMP	KD5SUBMQ
KD5SUBNP	KD5SUBNQ	KD5TRM00	KD5WAT00	KD5WTO00	KEBDUMMY
KEBEPLG0	KEBFINT0	KEBFNDD0	KEBFPAR0	KEBFSCR0	KEBGTID0
KEBICPW0	KEBINIT	KEBLNKA0	KEBLNKC0	KEBMSGF0	KEBMXA14
KEBNVCR0	KEBNVDL0	KEBNVEA0	KEBNVIQ0	KEBNVOP0	KEBNVSU0
KEBNVUD0	KEBPRFE0	KEBROPN0	KEBSMFI4	KEBSPFD0	KEBSTAE4
KEBSTAK0	KEBTIOT0	KEBTSO0	KEBVSMC0	KEBWKGT0	KEBWKPT0
KEBZSB10	KEB132F0	KEB2ISPF	KEICRD00	KEIDBL0D	KEIDBPRG
KEIEM0MQ	KEIEM0NQ	KEIEM0OQ	KEIEM0PQ	KEIEPLG	KEIHOT0Q
KEIINC00	KEIKCA00	KEIRDNMQ	KEIRDNNQ	KEIRDNOQ	KEIRDNPQ
KEIRI0MQ	KEIRI0NQ	KEIRI0OQ	KEIRI0PQ	KEISR0MQ	KEISR0NQ
KEISR0OQ	KEISR0PQ	KEP2OBTN	KEP2XA5	KFJMAINT	KFJSALO
KFJSCLIB	KFJSCPMV	KFJSCPR	KFJSC2WC	KFJSEMBC	KFJSEMBG
KFJSIDEF	KFJSMGSV	KFJSMIGD	KFJSMIGG	KFJSPDMG	KFJSPPMV
KFJSPRF	KFJSROPT	KFJSSECC	KFJSSYS	KFJSUPV	KFJSUSSV
KFJSVER2	KFJUDEPL	KFJWCONF	KFJWDEL	KFJWDEPL	KFJWNEW
KFJWPACK	KFJWVAL	KFUIAGTC	KFUIMLVL	KFUIROWP	KFUOALOC
KFUOCALL	KFUOCOPY	KFUODEMD	KFUODEML	KFUODISC	KFUODYNA
KFUOFLOW	KFUOIJCL	KFUOLDSI	KFUOLIDS	KFUOMEGA	KFUOMSGO
KFUOREXH	KFUOREXI	KFUOREXL	KFUOREXS	KFUOREXX	KFUOSYDS

Figure 59 (Page 9 of 32). SMP/E Elements Not Selected

KFUOSYVA	KFUOTIOT	KFUOTRAP	KFUOTSEV	KFUOVARS	KFURPRE1
KFURSH	KGLBASE	KGLCRYWR	KGWAGENT	KGWCAD@S	KGWCMS@S
KGWCSD@S	KGWCSS@S	KGWDINFO	KGWDSD@S	KGWFLO@S	KGWGDM@S
KGWGDS@S	KGWGST00	KGWH0001	KGWH0002	KGWH0003	KGWH0004
KGWH0005	KGWH0006	KGWH0007	KGWH0008	KGWH0009	KGWH0010
KGWH0011	KGWH0012	KGWH0013	KGWINDEX	KGWJSTMS	KGWJSTPS
KGWJSTPW	KGWMON	KGWMSMAN	KGWPRMLB	KGWROV@S	KGWRTD@S
KGWRTS@S	KGWSAPIL	KGWSAPIM	KGWSAPIO	KGWSAPIP	KGWSAPIT
KGWSAPIW	KGWSAPI0	KGWSAPI5	KGWSAPI6	KGWSPIC4	KGWSPILN
KGWSPI00	KGWTRA@S	KGWTRD@S	KGWVRTMS	KGWWTS@S	KGWXAM00
KGWXMI00	KGWXTR00	KGWXWR00	KGWXWR64	KIABGMN	KIACARE
KIACKPG5	KIACMLK5	KIACPUW5	KIADPGN5	KIADWCL5	KIAENQW5
KIAHSKP5	KIAIAFM	KIAIAJ25	KIAIAMD	KIAIANL5	KIAIANZ
KIAMDCL5	KIAMDIN5	KIAMNTP0	KIAMSEL0	KIAPGSW5	KIAQIOW5
KIARCOL5	KIARECD5	KIARECV5	KIARSMS5	KIASORT0	KIASRMD5
KIP\$PLX	KIP\$PLXD	KIPADRS	KIPAGENT	KIPATF00	KIPATP00
KIPATR	KIPATT00	KIPAUTO1	KIPBAR	KIPCAT	KIPCCB00
KIPCDOM0	KIPCDON0	KIPCD000	KIPCDOP0	KIPCDSM0	KIPCDSN0
KIPCDSO0	KIPCDSP0	KIPCFGM0	KIPCFGN0	KIPCFG00	KIPCFGP0
KIPCFSSD	KIPCFSSS	KIPCICQ0	KIPCICR0	KIPCICS0	KIPCICT0
KIPCICU0	KIPCICV0	KIPCICW0	KIPCMD	KIPCMDBE	KIPCMD00
KIPCMPM0	KIPCMPN0	KIPCMP00	KIPCMP00	KIPCOL00	KIPCSQM0
KIPCSQN0	KIPCSQ00	KIPCSQP0	KIPC8000	KIPC8100	KIPC8200
KIPC8300	KIPC8400	KIPDATA	KIPDBCTA	KIPDBCTD	KIPDBCTS
KIPDBGOF	KIPDBGON	KIPDBS	KIPDBSM0	KIPDBSN0	KIPDBSO0
KIPDBSP0	KIPDCE00	KIPDCIF1	KIPDEPD	KIPDEPS	KIPDET00
KIPDEX00	KIPDOC	KIPDSPL1	KIPENVM0	KIPENVN0	KIPENVO0
KIPENVP0	KIPFPINF	KIPHDBM0	KIPHDBN0	KIPHDBO0	KIPHDBP0
KIPHISTC	KIPHLTM0	KIPHLTN0	KIPHLTO0	KIPHLTP	KIPHLTP0
KIPH0001	KIPH0002	KIPH0003	KIPH0004	KIPH0005	KIPH0006
KIPH0007	KIPH0008	KIPH0009	KIPH0010	KIPH0011	KIPH0012
KIPH0013	KIPH0014	KIPH0015	KIPH0016	KIPH0017	KIPH0018
KIPH0019	KIPH0020	KIPH0021	KIPH0022	KIPH0023	KIPH0024

Figure 59 (Page 10 of 32). SMP/E Elements Not Selected

KIPH0025	KIPH0026	KIPH0027	KIPH0028	KIPH0029	KIPH0030
KIPH0031	KIPH0032	KIPH0033	KIPH0034	KIPH0035	KIPH0036
KIPH0037	KIPH0038	KIPH0039	KIPH0040	KIPH0041	KIPH0042
KIPH0043	KIPH0044	KIPH0045	KIPH0046	KIPH0047	KIPH0048
KIPH0049	KIPH0050	KIPH0051	KIPH0052	KIPH0053	KIPH0054
KIPH0055	KIPH0056	KIPH0057	KIPH0058	KIPH0059	KIPH0060
KIPH0061	KIPH0062	KIPH0063	KIPH0064	KIPH0065	KIPH0066
KIPH0067	KIPH0068	KIPH0069	KIPH0070	KIPH0071	KIPH0072
KIPH0073	KIPH0074	KIPH0075	KIPH0076	KIPH0077	KIPH0078
KIPH0079	KIPH0080	KIPH0081	KIPH0082	KIPH0083	KIPH0084
KIPH0085	KIPH0086	KIPH0087	KIPH0088	KIPH0089	KIPH0090
KIPH0091	KIPH0092	KIPH0093	KIPH0094	KIPH0095	KIPH0096
KIPH0097	KIPH0098	KIPH0099	KIPH0100	KIPH0101	KIPH0102
KIPH0103	KIPH0104	KIPH0105	KIPH0106	KIPH0107	KIPH0108
KIPH0109	KIPH0110	KIPH0111	KIPH0112	KIPH0113	KIPH0114
KIPICA00	KIPICB00	KIPICE00	KIPICI00	KIPICP00	KIPICR00
KIPICS00	KIPICT00	KIPICX00	KIPILA00	KIPILB00	KIPILC00
KIPILJ00	KIPILOG	KIPILOGD	KIPILOGS	KIPILO00	KIPILR00
KIPILT00	KIPILV00	KIPILX00	KIPILZ00	KIPIMSD	KIPIMS00
KIPINDEX	KIPIRCDQ	KIPIRCEQ	KIPIRSD0	KIPIRSE0	KIPJSTMS
KIPJSTPS	KIPJSTPW	KIPLCKM0	KIPLCKN0	KIPLCKO0	KIPLCKP0
KIPLNKM0	KIPLNKN0	KIPLNKO0	KIPLNKP0	KIPLOKDQ	KIPLOKEQ
KIPLTMS	KIPMAP	KIPMCB00	KIPMQSM0	KIPMQSN0	KIPMQSO0
KIPMQSP0	KIPMSCLL	KIPMSCPL	KIPMSDM0	KIPMSDN0	KIPMSDO0
KIPMSDP0	KIPMSG00	KIPMSMAN	KIPNAVBE	KIPNAVBP	KIPNAV2P
KIPOIC00	KIPOSITU	KIPOTMM0	KIPOTMN0	KIPOTMO0	KIPOTMP0
KIPPDICT	KIPPLEX	KIPPLKM0	KIPPLKN0	KIPPLKO0	KIPPLKP0
KIPPRMM0	KIPPRMN0	KIPPRMO0	KIPPRMP0	KIPPSBD	KIPPSBS
KIPPTMM0	KIPPTMN0	KIPPTMO0	KIPPTMP0	KIPPTMS	KIPPTMSD
KIPRESPU	KIPRGOM0	KIPRGON0	KIPRGOO0	KIPRGOPO	KIPRTA00
KIPRTE00	KIPRTGS	KIPRTG00	KIPRTI00	KIPRTR00	KIPRTS00
KIPSCDM0	KIPSCDN0	KIPSCDO0	KIPSCDP0	KIPSPBM0	KIPSPBN0
KIPSPBO0	KIPSPBP0	KIPSTART	KIPSTA00	KIPSTRTI	KIPSTRTM

Figure 59 (Page 11 of 32). SMP/E Elements Not Selected

KIPSTRTN	KIPSUBMQ	KIPSUBNQ	KIPSUBOQ	KIPSUBPQ	KIPTACMD
KIPTCCM0	KIPTCCN0	KIPTCCO0	KIPTCCP0	KIPTHDM0	KIPTHDN0
KIPTHDO0	KIPTHDP0	KIPTHRSH	KIPTHSM0	KIPTHSN0	KIPTHSO0
KIPTHSP0	KIPTOLPU	KIPTRC00	KIPTRM00	KIPTRND	KIPTRNS
KIPVAVT	KIPVNOD	KIPVRTMS	KIPWAT00	KIPWIPER	KIPWRKM0
KIPWRKN0	KIPWRKO0	KIPWRKP0	KIPXSUBS	KIPXSU2D	KI2AHAM0
KI2AHAN0	KI2AHAO0	KI2AHAP0	KI2AHELP	KI2AJW00	KI2ARM00
KI2ARZ00	KI2ATFLS	KI2ATFSM	KI2ATRDZ	KI2BHELP	KI2BS000
KI2CMP00	KI2DDICT	KI2IT1M0	KI2IT1N0	KI2IT1O0	KI2IT1P0
KI2IT2M0	KI2IT2N0	KI2IT2O0	KI2IT2P0	KI2MN0M0	KI2MN0N0
KI2MN0O0	KI2MN0P0	KI2NR000	KI2SAF00	KI2TCCM0	KI2TCCN0
KI2TCCO0	KI2TCCP0	KI2TC0M0	KI2TC0N0	KI2TC0O0	KI2TC0P0
KI2TE000	KI2ZENF	KI2ZLIC	KI5AHELP	KI5BHELP	KI5DDICT
KI5HLP20	KI5HLP21	KI5HLP22	KI5JSLOD	KI5PDICT	KI5PRMLB
KJJ	KJJADMPS	KJJAGENT	KJJAGTRS	KJJATR	KJJBAR
KJJBOOT	KJJBRARC	KJJBRCOL	KJJBRFLS	KJJBRFLT	KJJBRMN
KJJBRODI	KJJBRZCD	KJJCAT	KJJCDMPS	KJJCFGSH	KJJCJS
KJJCJSH	KJJCJSHS	KJJCPU	KJJCPUD	KJJCPU00	KJJCPU01
KJJDDICT	KJJDOC	KJJEJS	KJJENVBC	KJJENVCP	KJJENVE
KJJENVEV	KJJENVJP	KJJENVSP	KJJGCD	KJJGCDS	KJJGCD00
KJJGCD01	KJJGCD02	KJJGCD03	KJJGCS	KJJHDMPS	KJJHEADR
KJJHISTC	KJJHLP21	KJJHSEL	KJJHSEL1	KJJH0001	KJJH0002
KJJH0003	KJJH0004	KJJH0005	KJJH0006	KJJH0007	KJJH0008
KJJH0009	KJJH0010	KJJH0011	KJJH0012	KJJH0013	KJJH0014
KJJH0015	KJJH0016	KJJH0017	KJJH0018	KJJH0019	KJJH0020
KJJH0021	KJJH0022	KJJH0023	KJJH0024	KJJINDEX	KJJINT2J
KJJINT2M	KJJINT3J	KJJINT3M	KJJJDTL	KJJJSM1	KJJJSTMS
KJJJSTPS	KJJJSTPW	KJJJSUM	KJJJVM1	KJJLAG31	KJJLAG64
KJLJLCK	KJLJLCK00	KJLJLCK01	KJLJLCK02	KJLJLIB	KJLJLIB64
KJLJLJCL	KJLJMAP	KJLJMKDIR	KJLJMONAP	KJLJMSMAN	KJLJNAVI
KJLJNMEMS	KJLJNMHS	KJLJNMLE	KJLJNMTB	KJLJNMTBH	KJLJNMVM
KJLJNMZ	KJLJNM3HD	KJLJNOPID	KJLJOMPRP	KJLJPCX	KJLJPDICT
KJLJPLGIN	KJLJPROP	KJLJSTART	KJLJSTRTI	KJLJTHD	KJLJTHD00

Figure 59 (Page 12 of 32). SMP/E Elements Not Selected

KJJTHD01	KJJTHRSR	KJJTREEZ	KJJTXMMF	KJJTXMON	KJJVRTMS
KJJZCDA	KJJZCDD	KJJZCDF	KJJZCDI	KJJZCDR	KJJZCDS
KJJZCES	KJJZCFLT	KJJZCHSA	KJJZCHST	KJJZCIN	KJJZCIND
KJJZCINS	KJJZCODA	KJJZCODD	KJJZCODE	KJJZCODO	KJJZCOSA
KJJZCOSE	KJJZCOSO	KJJZCOTB	KJJZCSA	KJJZCSF	KJJZCSI
KJJZCSM	KJJZCSR	KJJZCSS	KJJZCTB	KJJZFLTE	KJJZOSS
KJJZRTE	KJTAGVT	KJTALOG	KJTCENQ	KJTCGGVT	KJTCOM
KJTCPU	KJTDGGVT	KJTENV	KJTFIELD	KJTGCEVT	KJTGCSUM
KJTHRTBT	KJTJJOB	KJTJVMS	KJTLIST	KJTLKEVT	KJTLKSUM
KJTLLOAD	KJTLOG	KJTLOAD	KJTMAIN	KJTMOUT	KJTNMEVT
KJTPARSR	KJTPIDS	KJTPROPS	KJTMGR	KJTSTART	KJTTDEVT
KJTTEXVT	KJTXMINT	KJTXML	KJTXMPC	KMQACICP	KMQACISY
KMQACTSY	KMQAGAX	KMQAGENT	KMQAGQMS	KMQAGTIF	KMQAGTNS
KMQAMEMT	KMQAMHSD	KMQAMHSE	KMQAMHST	KMQAMHSY	KMQAMQSA
KMQAMQSB	KMQAMQSC	KMQAMQSY	KMQAMQS1	KMQAMQS2	KMQAMQS3
KMQAMQS4	KMQAMQS5	KMQAMQS6	KMQAMQS7	KMQAMQS8	KMQAMQS9
KMQANODE	KMQAPCAD	KMQAPCAS	KMQAPCOS	KMQAPCOX	KMQAPDSY
KMQAPDTI	KMQAPDTP	KMQAPDTR	KMQAPPCD	KMQAPPDY	KMQAPPLD
KMQAPPLS	KMQAPPND	KMQAPPRS	KMQAPPSH	KMQAPPS2	KMQAPPS3
KMQAPPZD	KMQAPQCD	KMQAPQDX	KMQAPQLD	KMQAPQLS	KMQAPQND
KMQAPQRS	KMQAPQZD	KMQAPSHD	KMQAPTDP	KMQAPTLD	KMQAPTLS
KMQAPTQS	KMQAPTRS	KMQASSIN	KMQATR	KMQBAR	KMQCAT
KMQCHAUD	KMQCHLAX	KMQCHLCA	KMQCHLCS	KMQCHLD1	KMQCHLD2
KMQCHLHD	KMQCHLHL	KMQCHLHS	KMQCHLH1	KMQCHLH2	KMQCHLID
KMQCHLIS	KMQCHLNS	KMQCHLRL	KMQCHLRS	KMQCHLR1	KMQCHLR2
KMQCHLSC	KMQCHLSD	KMQCHLSL	KMQCHLSN	KMQCHLSX	KMQCHLS1
KMQCHLS2	KMQCHLS3	KMQCHLS4	KMQCHLX	KMQCHNRS	KMQCH1S1
KMQCH2S2	KMQCLAX	KMQCLCX	KMQCLPTD	KMQCLQDS	KMQCLQMS
KMQCLXMX	KMQCMDSC	KMQCMDSX	KMQCMDXX	KMQCPQMI	KMQCPTDI
KMQDLQAS	KMQDLQFS	KMQDLQLS	KMQDLQOP	KMQDLQOX	KMQDLQPS
KMQDLQXX	KMQDLQTS	KMQDLQVX	KMQDOC	KMQGGUES	KMQHISTC
KMQHLP20	KMQHLP21	KMQHLP22	KMQH0001	KMQH0002	KMQH0003
KMQH0004	KMQH0005	KMQH0008	KMQH0010	KMQH0011	KMQH0012

Figure 59 (Page 13 of 32). SMP/E Elements Not Selected

KMQH0014	KMQH0015	KMQH0017	KMQH0019	KMQH0020	KMQH0021
KMQH0024	KMQH0025	KMQH0026	KMQH0027	KMQH0028	KMQH0030
KMQH0031	KMQH0032	KMQH0033	KMQH0039	KMQH0040	KMQH0042
KMQH0043	KMQH0045	KMQH0050	KMQH0052	KMQH0053	KMQH0054
KMQH0055	KMQH0056	KMQH0057	KMQH0060	KMQH0061	KMQH0062
KMQH0066	KMQH0068	KMQH0070	KMQH0071	KMQH0072	KMQH0073
KMQH0074	KMQH0075	KMQH0076	KMQH0077	KMQH0078	KMQH0079
KMQH0080	KMQH0081	KMQH0082	KMQH0085	KMQH0086	KMQH0091
KMQH0092	KMQINDEX	KMQJSTMS	KMQJSTPS	KMQJSTPW	KMQLHMMD
KMQLHMMS	KMQMAP	KMQMLBPD	KMQMLBPS	KMQMQCMD	KMQMQDSX
KMQMQMSG	KMQMSAF	KMQMSBMD	KMQMSBPD	KMQMSHMD	KMQMSHMS
KMQMSLMD	KMQMSLSX	KMQMSMAN	KMQMSMMD	KMQNAMLS	KMQNAV12
KMQORGPR	KMQPDICT	KMQPGMSG	KMQPGSDX	KMQPGSHD	KMQPGSHS
KMQPGSRD	KMQPGSTD	KMQPLSBD	KMQPLSB2	KMQPLSB3	KMQPLTPD
KMQPLTPS	KMQPLTP2	KMQPSBPS	KMQPSFLT	KMQPSSBD	KMQPSSB2
KMQPSSB3	KMQPSTPD	KMQPSTPS	KMQPSTP2	KMQQACT	KMQQACTX
KMQQGCFS	KMQQGCHS	KMQQGCZX	KMQQGQUS	KMQQLTQS	KMQQLTQT
KMQQLTTS	KMQQMACL	KMQQMACS	KMQQMARE	KMQQMCAF	KMQQM GAS
KMQQM GFS	KMQQMGLS	KMQQM GOP	KMQQM GOX	KMQQMGR	KMQQM GTS
KMQQM GVX	KMQQMJBX	KMQQM SCS	KMQQM SD	KMQQM SSP	KMQQM STD
KMQQM STH	KMQQM STZ	KMQQM SZD	KMQQN BR	KMQQSGS	KMQQUBPS
KMQQUEBD	KMQQUEBS	KMQQUECS	KMQQUEHS	KMQQUELS	KMQQUERD
KMQQUERR	KMQQUERS	KMQQUESD	KMQQUESL	KMQQUESS	KMQQUETR
KMQQUMSD	KMQQUPGS	KMQQUPRD	KMQQUTQS	KMQQUTQT	KMQQUTSS
KMQQUTSX	KMQQUTTS	KMQQXMTD	KMQQXMTR	KMQQXMTS	KMQQXMTX
KMQSITES	KMQSMDCD	KMQSMDHD	KMQSMDSD	KMQSMDSH	KMQSMDSR
KMQSMDSS	KMQSMDST	KMQSTAGS	KMQSTART	KMQSTLIS	KMQSTQHO
KMQSTQMS	KMQSTQM2	KMQSTQSG	KMQSTRTI	KMQSTRTX	KMQSTTBT
KMQSYSP	KMQTACMD	KMQTAMSG	KMQTHRDI	KMQTHRSH	KMQTIME
KMQTOPHD	KMQTOPHS	KMQTOPIS	KMQWEVFE	KMQWEVLE	KMQWMQED
KMQWMQEG	KMQWMQEH	KMQWMQEL	KMQWMQES	KMQWMQET	KMQWMQEV
KMQWMQEX	KMQZDI1I	KMQZDI1J	KM2APII2	KM2DASDP	KM2DATA
KM2PROBE	KM2RMFLV	KM2RULES	KM2SS2C2	KM3INPRB	KM3WAIOL

Figure 59 (Page 14 of 32). SMP/E Elements Not Selected

KM3WANQL	KM3WASPE	KM3WASPL	KM3WCLAL	KM3WIAML	KM3WPRDE
KM3WPRDL	KM3WPRTL	KM3WSEGE	KM3WWRKL	KM5AG1	KM5AG2
KM5ASA5H	KM5ASA8H	KM5ASPO	KM5ASPO2	KM5ASPO3	KM5ASPO4
KM5ASPO5	KM5ASPO6	KM5ASPSA	KM5ASPS2	KM5ASPS3	KM5ASPS4
KM5ASPS5	KM5ASPS6	KM5ASPS7	KM5ASPS8	KM5ASPS9	KM5ASP1H
KM5ASP3H	KM5ASP4H	KM5ASP5	KM5ASP5D	KM5ASP5H	KM5ASP6H
KM5ASP7H	KM5ASP8	KM5ASP8D	KM5ASP8H	KM5ATR	KM5BAR
KM5BOTA2	KM5CAT	KM5CFSO	KM5CFSO2	KM5CFSO3	KM5CFSO4
KM5CFSO5	KM5CFSO6	KM5CPCDH	KM5CPCD2	KM5CPCO	KM5CPC1H
KM5CPC2H	KM5CPUS	KM5CRYPT	KM5CSFCC	KM5CSFSC	KM5CSFSX
KM5CSFTU	KM5CXURL	KM5DJDTH	KM5DLY1H	KM5DOC	KM5DRDTH
KM5DRSMH	KM5EADMH	KM5ENCS	KM5ENCS2	KM5ENCS3	KM5ENCS4
KM5ENQLX	KM5ENQO	KM5ENQS2	KM5ENQS4	KM5EXIT3	KM5EXIT4
KM5HCSTS	KM5HDDS	KM5HISTC	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	KM5H0113	KM5H0114	KM5H0115	KM5H0116	KM5H0117

Figure 59 (Page 15 of 32). SMP/E Elements Not Selected

KM5H0118	KM5H0119	KM5H0120	KM5H0121	KM5H0122	KM5H0123
KM5H0124	KM5H0125	KM5H0126	KM5H0127	KM5H0128	KM5H0129
KM5H0130	KM5H0131	KM5H0132	KM5H0133	KM5H0134	KM5H0135
KM5H0136	KM5H0137	KM5H0138	KM5INDEX	KM5INSS	KM5JES
KM5JESP	KM5JESX	KM5JSLOD	KM5JSTMS	KM5JSTPS	KM5JSTPW
KM5LPARS	KM5LPRDH	KM5LPRD2	KM5LPROM	KM5LPRON	KM5LPRO3
KM5LPRO4	KM5LPRS	KM5LPRS2	KM5LPR1H	KM5MAP	KM5MSMAN
KM5MSUO	KM5MT2S	KM5NAV12	KM5PCI1D	KM5PCI1H	KM5PCI1S
KM5PCI3D	KM5PCI3H	KM5PCI3S	KM5PCI4D	KM5PCI4H	KM5PCI4S
KM5PDICT	KM5PLXO	KM5PRMLB	KM5RCDS	KM5RCDS2	KM5RCD2D
KM5RGDO	KM5RGDOS	KM5RGDOT	KM5RGDO1	KM5RGDO2	KM5RGD0H
KM5RGD1H	KM5RGD3H	KM5RGD4H	KM5RGD5H	KM5RGD7H	KM5RMFC
KM5RMF00	KM5SCMC	KM5SCMCH	KM5SCMD	KM5SCMH1	KM5SCMH2
KM5SEXIT	KM5SPDAS	KM5STGO2	KM5STGSA	KM5STGSB	KM5STGSD
KM5STGSJ	KM5STGSK	KM5STGS3	KM5STGS5	KM5STGS7	KM5STGS9
KM5STG1H	KM5STRTI	KM5STRTM	KM5STRTN	KM5STRTS	KM5SYSMN
KM5TGD01	KM5TGD02	KM5THRSH	KM5TOPC	KM5UBVH	KM5UBVS
KM5UCPS	KM5UCPS2	KM5UCPS3	KM5ULUS	KM5UMFP	KM5UMFS
KM5UPDS	KM5UPS3	KM5UPS5	KM5UPS6	KM5UPUS	KM5USS
KM5VER	KM5VRTMS	KM5WRCD	KM5WRCOX	KM5WRCS	KM5WRX1D
KM5WRX1S	KM5WRX2D	KM5WRX2S	KM5WSCBH	KM5WSCCH	KM5WSCDH
KM5WSCED	KM5WSCO	KM5WSCOA	KM5WSCOF	KM5WSCOG	KM5WSCOH
KM5WSCOX	KM5WSCO4	KM5WSCO5	KM5WSCO6	KM5WSCS	KM5WSCS2
KM5WSCS4	KM5WSCXH	KM5WSCZH	KM5WSX1D	KM5WSX1S	KM5WSX2D
KM5WSX2S	KM5XCFO	KM5XCFO3	KM5ZFSS	KN3AAAES	KN3AAAPI
KN3AAARM	KN3AABEG	KN3AABPA	KN3AABPC	KN3AABPD	KN3AABPE
KN3AABPG	KN3AABPI	KN3AABPS	KN3AACT	KN3AADRE	KN3AADRV
KN3AADV2	KN3AAERE	KN3AAIDQ	KN3AAINI	KN3AAINQ	KN3AAINS
KN3AAIP	KN3AAIPC	KN3AAIPG	KN3AAIPL	KN3AAIPN	KN3AAIPS
KN3AAIRG	KN3AAIS	KN3AAIUC	KN3AAIUG	KN3AAIUL	KN3AAIUN
KN3AAIUR	KN3AAIUS	KN3AAIWF	KN3AANCC	KN3AANIP	KN3AANUI
KN3AANXP	KN3AANXX	KN3AAOP	KN3AAOPD	KN3AAOPF	KN3AAOPG
KN3AAOPN	KN3AAOPT	KN3AAOPV	KN3AAPDQ	KN3AAPER	KN3AAPNQ

Figure 59 (Page 16 of 32). SMP/E Elements Not Selected

KN3AARFW	KN3AARIP	KN3AARSS	KN3AASMD	KN3AASMG	KN3AATCC
KN3AATIP	KN3AATLC	KN3AATMG	KN3AATMS	KN3AATNC	KN3AATOD
KN3AATPC	KN3AATPX	KN3AATUI	KN3AAUDQ	KN3AAUNQ	KN3AAVAA
KN3AAVAI	KN3AAVAP	KN3AAVAQ	KN3AAVAR	KN3AAVAS	KN3AAVAT
KN3AAVEC	KN3AAVIO	KN3AAVRC	KN3AAXPB	KN3AAXPC	KN3AAXPG
KN3AAXPL	KN3AAXPN	KN3AAXPS	KN3AAXPV	KN3AAXSW	KN3AAXWF
KN3AAXWG	KN3ABAPI	KN3ABCAL	KN3ABCRB	KN3ABHEX	KN3ABLKE
KN3ABLKU	KN3ABLOC	KN3ABONA	KN3ABRAD	KN3ABRCB	KN3ABRCD
KN3ABRCE	KN3ABRCF	KN3ABRCN	KN3ABRCP	KN3ABRCR	KN3ABRCS
KN3ABRCT	KN3ABRDL	KN3ABRDR	KN3ABRSM	KN3ABSNP	KN3ABSP0
KN3ABSVT	KN3ABTOD	KN3ABT4D	KN3ABUWI	KN3ABUWR	KN3ABVEC
KN3ABXMS	KN3ACAA	KN3ACAB	KN3ACAC	KN3ACAD	KN3ACAE
KN3ACAF	KN3ACAG	KN3ACAI	KN3ACAJ	KN3ACAL	KN3ACAM
KN3ACAR	KN3ACAS	KN3ACAT	KN3ACAU	KN3ACBA	KN3ACBE
KN3ACBI	KN3ACBJ	KN3ACBR	KN3ACBS	KN3ACBU	KN3ACCCZ
KN3ACE1	KN3ACE2	KN3ACE3	KN3ACIB	KN3ACIC	KN3ACIN
KN3ACIV	KN3ACLA	KN3ACLT	KN3ACNC	KN3ACPC	KN3ACPM
KN3ACRA	KN3ACRB	KN3ACRD	KN3ACRG	KN3ACRH	KN3ACRI
KN3ACRL	KN3ACRP	KN3ACRR	KN3ACRT	KN3ACRU	KN3ACRV
KN3ACRX	KN3ACRY	KN3ACRZ	KN3ACSOS	KN3ACTCA	KN3ACTCB
KN3ACTCC	KN3ACTCD	KN3ACTCE	KN3ACTCF	KN3ACTCG	KN3ACTCH
KN3ACTCI	KN3ACTCJ	KN3ACTCK	KN3ACTCM	KN3ACTCO	KN3ACTCP
KN3ACTCQ	KN3ACTCR	KN3ACTCT	KN3ACTC0	KN3ACTC1	KN3ACTC2
KN3ACTC3	KN3ACTC4	KN3ACTC5	KN3ACTC6	KN3ACTC8	KN3ACTC9
KN3ACTD	KN3ACTDI	KN3ACTDS	KN3ACTDT	KN3ACTFP	KN3ACTM
KN3ACTMN	KN3ACTMO	KN3ACTM2	KN3ACTN	KN3ACTNM	KN3ACTN1
KN3ACTN2	KN3ACTP	KN3ACTR	KN3ACTS	KN3ACTSI	KN3ACTS1
KN3ACTS2	KN3ACTT	KN3ACTTR	KN3ACTV1	KN3ACTV3	KN3ACT1
KN3ACT2	KN3ACT3	KN3ACT4	KN3ACVC6	KN3ACVL	KN3ACVM
KN3ACVP	KN3ACVR	KN3ACVS	KN3ACVU	KN3ACV2	KN3ACXC
KN3ACXE	KN3ACXI	KN3ACXO	KN3ACXW	KN3AFACT	KN3AFNDM
KN3AFNUT	KN3AGAMS	KN3AGCMP	KN3AGENT	KN3AGFPF	KN3AGLOD
KN3AGNPB	KN3AGNSB	KN3AGNTS	KN3AGRRT	KN3AGRSS	KN3AGSRC

Figure 59 (Page 17 of 32). SMP/E Elements Not Selected

KN3AGVAA	KN3AHCF0	KN3AHCF3	KN3AHEM0	KN3AHEM3	KN3AHEV0
KN3AHEV3	KN3AHFCH	KN3AHFCI	KN3AHFD1	KN3AHFD2	KN3AHFD3
KN3AHFPF	KN3AHFT1	KN3AHFT2	KN3AHFT3	KN3AHL0D	KN3AHNDM
KN3AHNPB	KN3AHNTS	KN3AHNTX	KN3AHOF0	KN3AHOF3	KN3AHRRT
KN3AHSRC	KN3AHTRM	KN3AHVAA	KN3AHWEL	KN3AITDC	KN3AITDD
KN3AITDE	KN3AITDF	KN3AITDI	KN3AITDS	KN3AITXB	KN3AITXH
KN3AITXI	KN3AITXP	KN3AITXR	KN3AITXS	KN3AJCD	KN3AJFR
KN3AJLV	KN3AJSC	KN3AJTA	KN3AJTC	KN3AKAF	KN3AKAR
KN3AKAS	KN3AKBG	KN3AKBI	KN3AKBS	KN3AKBU	KN3AKCB
KN3AKDC	KN3AKDE	KN3AKFE	KN3AKGC	KN3AKHN	KN3AKHT
KN3AKLI	KN3AKMV	KN3AKNA	KN3AKNI	KN3AKNT	KN3AKNX
KN3AKPV	KN3AKRE	KN3AKRF	KN3AKRG	KN3AKRH	KN3AKRL
KN3AKRM	KN3AKRN	KN3AKRO	KN3AKRQ	KN3AKRS	KN3AKRT
KN3AKRU	KN3AKRV	KN3AKRW	KN3AKRX	KN3AKSL	KN3AKSR
KN3AKTL	KN3AKTM	KN3AKTR	KN3AKTRP	KN3AKTR2	KN3AKT1
KN3AKT2	KN3AKVT	KN3AKXF	KN3AKXG	KN3AKXH	KN3AKXS
KN3AKXV	KN3ALFR	KN3ALLK	KN3ALPM	KN3ALRST	KN3ALSP
KN3ALSPO	KN3ALSV	KN3ALUD	KN3ALUL	KN3ALVR	KN3ALVT
KN3AMCFE	KN3AMCFR	KN3AMCGM	KN3AMCPP	KN3AMCRM	KN3AMCSR
KN3AMVPX	KN3ANAPF	KN3ANIDS	KN3ANINS	KN3ANLDI	KN3ANLDR
KN3ANMLM	KN3ANMVS	KN3ANNDL	KN3ANPD	KN3ANPM	KN3ANPWK
KN3ANRCI	KN3ANRCX	KN3ANREM	KN3ANSPI	KN3ANSPM	KN3ANSPN
KN3ANSPR	KN3ANSUI	KN3ANSUR	KN3ANUSI	KN3ANUSR	KN3ANVTM
KN3APAS	KN3APDEQ	KN3APENQ	KN3APID	KN3APIS	KN3APKEY
KN3APRM	KN3APRMT	KN3APSD	KN3APSS	KN3APSTT	KN3APTR
KN3APTXE	KN3APXS	KN3APZAP	KN3ATR	KN3ATVCL	KN3ATVCU
KN3ATVEX	KN3ATVMR	KN3ATVOP	KN3ATVRE	KN3ATVRR	KN3ATVST
KN3ATVTE	KN3ATVTP	KN3AYDSD	KN3AYDSP	KN3AYDSS	KN3AYFCV
KN3AYOCH	KN3AYOLP	KN3AYOPO	KN3AYRAG	KN3AYRAN	KN3AYTAP
KN3AYTAS	KN3AYTCO	KN3AYTDV	KN3AYTGA	KN3AYTGW	KN3AYTIF
KN3AYTLK	KN3AZAV	KN3AZBV	KN3AZCV	KN3AZD1A	KN3AZD1B
KN3AZD1C	KN3AZD1D	KN3AZD1E	KN3AZD1F	KN3AZD1G	KN3AZD2A
KN3AZD2B	KN3AZD2C	KN3AZD2D	KN3AZD2E	KN3AZD2F	KN3AZD2G

Figure 59 (Page 18 of 32). SMP/E Elements Not Selected

KN3AZD4A	KN3AZD4B	KN3AZJV	KN3AZKV	KN3AZLV	KN3AZMV
KN3AZNV	KN3AZPRM	KN3AZPV	KN3BAR	KN3CAT	KN3DATA
KN3DOC	KN3ENTMN	KN3ENTM2	KN3ENTOM	KN3ENTTM	KN3ENTVT
KN3FNDC	KN3FNDFS	KN3FNDFT	KN3FNDM	KN3FNDMS	KN3FNDTN
KN3GICO	KN3GTCD	KN3HISTC	KN3H0001	KN3H0002	KN3H0003
KN3H0004	KN3H0005	KN3H0006	KN3H0007	KN3H0008	KN3H0009
KN3H0010	KN3H0011	KN3H0012	KN3H0013	KN3H0014	KN3H0015
KN3H0016	KN3H0017	KN3H0018	KN3H0019	KN3H0020	KN3H0021
KN3H0022	KN3H0023	KN3H0024	KN3H0025	KN3H0026	KN3H0027
KN3H0028	KN3H0029	KN3H0030	KN3H0031	KN3H0032	KN3H0033
KN3H0034	KN3H0035	KN3H0036	KN3H0037	KN3H0038	KN3H0039
KN3H0040	KN3H0041	KN3H0042	KN3H0043	KN3H0044	KN3H0045
KN3H0046	KN3H0047	KN3H0048	KN3H0049	KN3H0050	KN3H0051
KN3H0052	KN3H0053	KN3H0054	KN3H0055	KN3H0056	KN3H0057
KN3H0058	KN3H0059	KN3H0060	KN3H0061	KN3H0062	KN3H0063
KN3H0064	KN3H0065	KN3H0066	KN3H0067	KN3H0068	KN3H0069
KN3H0070	KN3H0071	KN3H0072	KN3H0073	KN3H0074	KN3H0075
KN3H0076	KN3H0077	KN3H0078	KN3H0079	KN3H0080	KN3H0081
KN3H0082	KN3H0083	KN3H0084	KN3H0085	KN3H0086	KN3H0087
KN3H0088	KN3H0089	KN3H0090	KN3H0091	KN3H0092	KN3H0093
KN3H0094	KN3IFSD	KN3IFSO	KN3IFSO2	KN3IFSO3	KN3INDEX
KN3JSTMS	KN3JSTPS	KN3JSTPW	KN3LLIST	KN3MAP	KN3MEMO
KN3MSMAN	KN3PDICT	KN3PRMLB	KN3SMCI	KN3SMCO	KN3SMCO1
KN3SMCO2	KN3SMC1G	KN3SMC1I	KN3SMC1L	KN3SMC2I	KN3SMC2L
KN3STRTH	KN3STRTI	KN3TAB1	KN3TAERR	KN3TAPD	KN3TAPO
KN3TAP1H	KN3TASD	KN3TASO	KN3TCIO	KN3TCLI	KN3TCLO
KN3TCLO2	KN3TCLS	KN3TCLS3	KN3TCPD	KN3TCZD	KN3TCZD1
KN3TCZD2	KN3TCZD3	KN3TCZD4	KN3TCZO	KN3TCZO1	KN3TCZO2
KN3TCZO3	KN3TCZO4	KN3THES	KN3THES2	KN3VARS	KN3VRTMS
KN341HC	KN341HCA	KN341HCB	KN341HCC	KN341HCD	KN341HI
KN341HIA	KN341HIB	KN341HIC	KN341HID	KN341HJ	KN341HJA
KN341HJB	KN341HJC	KN341HJD	KN341HT	KN341HTA	KN341H1
KN341H1A	KN341H1B	KN341H1C	KN341H2	KN341H2A	KN341H2B

Figure 59 (Page 19 of 32). SMP/E Elements Not Selected

KN341H2C	KN341H3	KN341H3A	KN341H3B	KN341H4	KN341H4A
KN341H4B	KN341H4C	KN341H4D	KN341H5	KN341H5A	KN341H5B
KN341H6	KN341H6A	KN341H6B	KN342HK	KN342HKA	KN342HKB
KN342HKC	KN342HKD	KN342H3	KN342H3A	KN342H3B	KN37SCD
KN37SED	KN37SEO	KN37SPD	KN37SSD	KN37STD	KOB\$VERT
KOBABOUT	KOBAG2	KOBALIAS	KOBALTCK	KOBAPPS	KOBBASEM
KOBBCM1M	KOBLOGM	KOBMSGM	KOBRR##M	KOBCALLM	KOBATTC
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	KOBCUNIS	KOBCUST	KOBCUXIO	KOBCVSTG
KOBCWTOL	KOBCZDIO	KOBDATA1	KOBDELFM	KOBDEV#T	KOBDFMTM
KOBDIR#T	KOBDSNCK	KOBDSPT	KOBDSQZM	KOBENUS	KOBENV#T
KOBERROR	KOBESAIS	KOBEXCDM	KOBEXECS	KOBFILTD	KOBFILTH
KOBFILTN	KOBFILTS	KOBGATW0	KOBGDEL2	KOBGDFNM	KOBGEN1W
KOBGROUP	KOBGWCND	KOBGWCV\$	KOBGWCV#	KOBGWCV@	KOBGWCVA
KOBGWLPA	KOBGWOBV	KOBGWRE\$	KOBGWRE@	KOBGWREG	KOBHASH1
KOBHBCOL	KOBHBDRA	KOBHBGET	KOBHBHDR	KOBHBMSL	KOBHBMSN
KOBHBSTO	KOBHBTPO	KOBHBUSE	KOBHELP	KOBHISB1	KOBHISB2
KOBHISB3	KOBHISNR	KOBHISN1	KOBHISN2	KOBHISTB	KOBHISTC
KOBHISTD	KOBHISTL	KOBHLCMD	KOBHLDIR	KOBHLNAV	KOBHLPDF
KOBHLPEX	KOBHLPFK	KOBHLPGL	KOBHLPMT	KOBHLPRR	KOBHLRRT
KOBHTTP\$	KOBHTTP#	KOBHTTP@	KOBHTTPL	KOBHTTSP	KOBHTTPW
KOBHUBCK	KOBHUBMP	KOBHUBM1	KOBHUBPR	KOBHUBS	KOBHUB01
KOBHUB02	KOBHUB03	KOBHUB04	KOBHUB05	KOBHUB06	KOBHUB07
KOBHUB08	KOBHUB10	KOBHUB12	KOBHUB2M	KOBHUB8M	KOBH0011
KOBH0012	KOBICMDM	KOBICM1M	KOBICM2M	KOBICM3M	KOBILCSM
KOBILC1M	KOBINITM	KOBINPWM	KOBINP20	KOBINT#M	KOBINTXT

Figure 59 (Page 20 of 32). SMP/E Elements Not Selected

KOBINT1M	KOBINT2T	KOBIPRFM	KOBIPROM	KOBISSSM	KOBITMLG
KOBIVCMM	KOBJAPO	KOBJCA0	KOBJCC0	KOBJCD0	KOBJCG0
KOBJCIO	KOBJCLS	KOBJCM0	KOBJCR0	KOBJCT0	KOBJCW0
KOBJCX0	KOBJLF	KOBJLF00	KOBJLF01	KOBJLG0	KOBJMC0
KOBJMP0	KOBJMS0	KOBJMT0	KOBSLOD	KOBJ640	KOBLEXCM
KOBLGINI	KOBLGSND	KOBLGSRV	KOBLGWTO	KOBLISTN	KOBLOFLT
KOBLOGCM	KOBLOGON	KOBLOG10	KOBMEMSA	KOBMOBEC	KOBMOBE1
KOBMODS	KOBMTCON	KOBMTCUS	KOBMTGRP	KOBMULTI	KOBM5IN1
KOBNAVE5	KOBOBVA\$	KOBOBVA@	KOBOBVAP	KOBODAPP	KOBODCOL
KOBODENM	KOBODI	KOBODIL\$	KOBODIL@	KOBODILD	KOBODISC
KOBODTAB	KOBODUTL	KOBOECC0	KOBOECC1	KOBOECC2	KOBOECC3
KOBOECC4	KOBOECC5	KOBOEDD0	KOBOEDD2	KOBOEDD3	KOBOEDN
KOBOEDN1	KOBOEDTF	KOBOEDT1	KOBOESB0	KOBOESB1	KOBOESB3
KOBOESD0	KOBOESD1	KOBOESE0	KOBOESE1	KOBOESE2	KOBOESE3
KOBOESE6	KOBOESG0	KOBOESG1	KOBOESG2	KOBOESG3	KOBOESG4
KOBOESG5	KOBOESG6	KOBOESS3	KOBOESS4	KOBOMIOM	KOBO4SRV
KOBPARS	KOBPDEVT	KOBPDHST	KOBPDS	KOBPDSI0	KOBPDSS
KOBPEEKT	KOBPPRFM	KOBPRFAU	KOBPRFEX	KOBPRFFI	KOBPRFHB
KOBPRFHS	KOBPRFIS	KOBPRFJS	KOBPRFND	KOBPRFPB	KOBPRFSA
KOBPRFSS	KOBPRFTB	KOBPRFU1	KOBPRFU2	KOBPRFVF	KOBPRFWN
KOBPROFS	KOBPR2TB	KOBPR3TB	KOBREGAP	KOBREGR	KOBREGRF
KOBRMFAR	KOBRMFBR	KOBRMFCR	KOBRMF5X	KOBRMF6S	KOBRMF7S
KOBRMF8R	KOBRMF9R	KOBROUTM	KOBRRUI\$	KOBRRUI@	KOBRRUIA
KOBRRWK\$	KOBRRWK@	KOBRRWKR	KOBRSMGR	KOBRSMG1	KOBRXFMT
KOBAXFM0	KOBAXGCV	KOBAXGDR	KOBAXGM	KOBAXGM0	KOBAXPDR
KOBAXQRY	KOBAXSET	KOBZFM0	KOBZFNL	KOBZGDM	KOBZGDR
KOBZGFC	KOBZGM0	KOBZGNV	KOBZHS	KOBZHS	KOBZLDR
KOBZPDR	KOBZSHW	KOBZSNV	KOBZVSR	KOBZAFX0	KOBZAFY0
KOBSCICS	KOBSCGT	KOBSDB2	KOBSEDA	KOBSEDA	KOBSEDA
KOBSEDA	KOBSEDAE	KOBSEDAF	KOBSEDA	KOBSEDA	KOBSEDA
KOBSEDA	KOBSEDCB	KOBSEDC	KOBSEDCN	KOBSEDCV	KOBSEDD2
KOBSEDD3	KOBSEDEA	KOBSEDEB	KOBSEDEC	KOBSEDED	KOBSEDEE
KOBSEDEF	KOBSEDEG	KOBSEDFE	KOBSEDEV	KOBSEDEPA	KOBSEDEPD

Figure 59 (Page 21 of 32). SMP/E Elements Not Selected

KOBSEDPJ	KOBSEDPK	KOBSEDPL	KOBSEDPM	KOBSEDPX	KOBSEDPZ
KOBSEDP0	KOBSEDP1	KOBSEDP2	KOBSEDP3	KOBSEDP5	KOBSEDP6
KOBSEDP7	KOBSEDP8	KOBSEDP9	KOBSEDSA	KOBSEDS0	KOBSEDTA
KOBSEDTD	KOBSEDTE	KOBSEDTF	KOBSEDTH	KOBSEDTN	KOBSEDTQ
KOBSEDR	KOBSEDTU	KOBSEDTZ	KOBSEDT2	KOBSEDXB	KOBSED1
KOBSED5A	KOBSED5B	KOBSED6A	KOBSED6B	KOBSED7A	KOBSED7B
KOBSED9A	KOBSED9B	KOBSELLM	KOBSEPAM	KOBSEUPM	KOBSEVTS
KOBSHART	KOBSHOWD	KOBSIMS	KOBSITD3	KOBSITD4	KOBSITFL
KOBSITLM	KOBSITMN	KOBSITS	KOBSITST	KOBSIT00	KOBSIT02
KOBSJVM	KOBSMFN	KOBSMQ	KOBSPATM	KOBSPAUM	KOBSPF#M
KOBSPSWM	KOBSPVTM	KOBSRBDM	KOBSSIM1	KOBSSNEW	KOBSSOR
KOBSS03A	KOBSTATB	KOBSTBLD	KOBSTUBM	KOBSUB#M	KOBSUBET
KOBSUBXM	KOBSUB1M	KOBSUB2T	KOBSUB3M	KOBSUB4T	KOBZSOS
KOBTBAPP	KOBTCBFA	KOBTCBS	KOBTCLL\$	KOBTCLLA	KOBTERRM
KOBTTHRMT	KOBTTHRSH	KOBTKJLF	KOBTKMEM	KOBTTCUI	KOBTREET
KOBTREEU	KOBTREEZ	KOBTSO#M	KOBUICM0	KOBUICS0	KOBUIEP0
KOBUIFD0	KOBUIGD0	KOBUIGL0	KOBUIGO0	KOBUIGP0	KOBUIGS0
KOBUIHL0	KOBUIHS0	KOBUILG0	KOBUILO0	KOBUIMA0	KOBUIMB0
KOBUIMC0	KOBUIMD0	KOBUIME0	KOBUIMG0	KOBUIML0	KOBUIM10
KOBUIM20	KOBUIM30	KOBUIM40	KOBUIM50	KOBUIM60	KOBUIM70
KOBUIM80	KOBUIM90	KOBUINI0	KOBUINTM	KOBUINV0	KOBUIPA0
KOBUIPS0	KOBUIPT0	KOBUISC0	KOBUISD0	KOBUITK0	KOBUITR0
KOBUIVI0	KOBUIVS0	KOBUIWG0	KOBUPFCM	KOBUPFDM	KOBUPFIM
KOBUPFSM	KOBUSER	KOBUSERD	KOBUSERS	KOBVDRVM	KOBVEXIM
KOBVGETM	KOBVINIM	KOBVLOGM	KOBVPUTM	KOBVTERM	KOBVTM1M
KOBVTSRM	KOBVUTLM	KOBVZAPM	KOBWENUS	KOBWIZNI	KOBWIZRD
KOBWIZTB	KOBWIZ01	KOBWZATB	KOBWZCOL	KOBWZDGS	KOBWZDRA
KOBWZDRG	KOBWZEXI	KOBWZEXN	KOBWZEXP	KOBWZHUB	KOBWZMSL
KOBWZMSN	KOBWZRRD	KOBWZTAB	KOBXACBM	KOBXASBT	KOBXGSWM
KOBXMEMS	KOBXMSDM	KOBXMZPM	KOB3270S	KOCABL00	KOCADAA8
KOCADAVI	KOCADAV7	KOCADAV8	KOCAIDMS	KOCAID12	KOCASTA0
KOCASTB0	KOCASTC0	KOCASTD0	KOCATFA0	KOCATFB0	KOCATFC0
KOCATFD0	KOCATL00	KOCAUE1	KOCBINA0	KOCBINB0	KOCBINC0

Figure 59 (Page 22 of 32). SMP/E Elements Not Selected

KOCBIND0	KOCCOL00	KOCCPR00	KOCD832	KOCDINA0	KOCDINB0
KOCDINC0	KOCDIND0	KOCDSC00	KOCGBR00	KOCGDR00	KOCGMP00
KOCGVR00	KOCGWR00	KOCIDMSN	KOCIDMSX	KOCILIA0	KOCILIB0
KOCILIC0	KOCILID0	KOCIND00	KOCINNA0	KOCINNBO	KOCINNC0
KOCINND0	KOCINO00	KOCIN200	KOCLUEA0	KOCLUEB0	KOCLUEC0
KOCLUED0	KOCMNTA	KOCNCC00	KOCNDC00	KOCNDV00	KOCOLL00
KOCPCT00	KOCPGAA0	KOCPGAB0	KOCPGAC0	KOCPGAD0	KOCPGTA0
KOCPGTB0	KOCPGTC0	KOCPGTD0	KOCRLM00	KOCRUEA0	KOCRUEB0
KOCRUEC0	KOCRUED0	KOCRYCA0	KOCRYCB0	KOCRYCC0	KOCRYCD0
KOCSAA00	KOCSAC00	KOCSR2A0	KOCSR2B0	KOCSR2C0	KOCSR2D0
KOCSU27A	KOCSU27B	KOCTASA0	KOCTASB0	KOCTASC0	KOCTASD0
KOCTPCA0	KOCTPCB0	KOCTPCC0	KOCTPCD0	KOCUFO00	KOCVCO00
KOCXRLA0	KOCXRLB0	KOCXRLC0	KOCXRLD0	KOEEMCS	KOEEX07
KOI#18	KOI#18D	KOIAM000	KOIAOEM0	KOIAOEN0	KOIAOEO0
KOIAOEP0	KOIAOERM	KOIAOE00	KOIAOX00	KOIAATSPH	KOIAV000
KOICBCA	KOICBCAI	KOICBCB	KOICBCBI	KOICBCC	KOICBCCI
KOICBCD	KOICBCDI	KOICBCE	KOICBCEI	KOICBCF	KOICBCFI
KOICBC1	KOICBC1I	KOICBC2	KOICBC2I	KOICBC3	KOICBC3I
KOICBC4	KOICBC4I	KOICBC5	KOICBC5I	KOICBC6	KOICBC6I
KOICBC7	KOICBC7I	KOICBC8	KOICBC8I	KOICBC9	KOICBC9I
KOICQC00	KOICRC00	KOICSC00	KOICTC00	KOICUC00	KOICVC00
KOICWC00	KOIDB0M0	KOIDB0N0	KOIDB0O0	KOIDB0P0	KOIDCBCE
KOIDCBCF	KOIDCBC1	KOIDCBC2	KOIDCBC3	KOIDCBC4	KOIDCBC5
KOIDCBC6	KOIDCBC7	KOIDM0M0	KOIDM0N0	KOIDM0O0	KOIDM0P0
KOIDWKL	KOIEDI	KOIE0MQ	KOIE0NQ	KOIE0OQ	KOIE0PQ
KOIE0MQ	KOIE0NQ	KOIE0OQ	KOIE0PQ	KOIFP0M0	KOIFP0N0
KOIFP0O0	KOIFP0P0	KOIGL000	KOIHLP	KOIIA000	KOIIB000
KOII0OQ	KOIID0MQ	KOIID0NQ	KOIID0OQ	KOIID0PQ	KOII0GM0
KOII0GN0	KOII0GO0	KOII0GP0	KOII0GRM	KOII0XM0	KOII0XN0
KOII0XO0	KOII0XP0	KOII0PCM0	KOII0PCN0	KOII0PCO0	KOII0PCP0
KOII0PRM0	KOII0PRN0	KOII0PRO0	KOII0PRP0	KOII0P0M0	KOII0P0N0
KOII0P0O0	KOII0P0P0	KOII0R0M0	KOII0R0N0	KOII0R0O0	KOII0R0P0
KOII0S0M0	KOII0S0N0	KOII0S0O0	KOII0S0P0	KOII0TKM0	KOII0TKN0

Figure 59 (Page 23 of 32). SMP/E Elements Not Selected

KOITKO0	KOITKP0	KOIT000	KOIIU000	KOIV00Q	KOIMENU
KOIMG000	KOIMIZIB	KOIMI0MQ	KOIMIONQ	KOIMI0OQ	KOIMI0PQ
KOIMLI00	KOIMON00	KOIMS0M0	KOIMS0N0	KOIMS0O0	KOIMS0P0
KOIOPTNH	KOIoT0M0	KOIoT0N0	KOIoT0O0	KOIoT0P0	KOIPLOMQ
KOIPLO0Q	KOIPLO0Q	KOIPLOPQ	KOIPT0M0	KOIPT0N0	KOIPT0O0
KOIPT0P0	KOIPWIMQ	KOIPWINQ	KOIPWIOQ	KOIPWIPQ	KOIRG0MQ
KOIRG0N0	KOIRG0OQ	KOIRG0PQ	KOISUPDI	KOITHRD	KOITHRDH
KOITHRS	KOITHRSH	KOITH0M0	KOITH0N0	KOITH0O0	KOITH0P0
KOITX0M0	KOITX0N0	KOITX0O0	KOITX0P0	KOIWKLD	KOIZINWS
KOIZMENU	KOLOPS	KOMAS5	KOMAUTH5	KOMCACH	KOMCHNM5
KOMCMDT5	KOMCMSR5	KOMCPUM	KOMCSAA5	KOMDSN	KOMFMDX5
KOMFMOD5	KOMFNDU5	KOMHDSP5	KOMHEX5	KOMINSP	KOMLCPU
KOMLPAM5	KOMLPAX5	KOMMDEX5	KOMMISC5	KOMMPAG5	KOMMSCM5
KOMMSMT5	KOMNCLV5	KOMOMSG	KOMPART5	KOMPBM0	KOMPBM15
KOMPBM2	KOMPBM3	KOMPEEK	KOMPGRP5	KOMPQRY5	KOMPWAI5
KOMRACFX	KOMRMIR3	KOMRTA1	KOMSART5	KOMSCPU5	KOMSEEK5
KOMSRCT5	KOMSR24	KOMSTAT5	KOMSUPDI	KOMSYS5	KOMTRAC5
KOMTSO5	KOMUPF1	KOMUPF2	KOMUVECT	KOMWBAK5	KOMWLM5
KOMWPF5	KOMWTRK5	KOMXAS5	KOMXDEV5	KOMXMSR5	KOMXQCB5
KOMXS5	KONAAAES	KONAAAPI	KONAAARM	KONAAABEG	KONAAABPC
KONAACT	KONAADRE	KONAADRV	KONAADV2	KONAAERE	KONAAIDQ
KONAAINI	KONAAINQ	KONAAINS	KONAAIP	KONAAIPC	KONAAIPG
KONAAIPL	KONAAIPN	KONAAIPS	KONAAIRG	KONAAIS	KONAAIUC
KONAAIUG	KONAAIUL	KONAAIUN	KONAAIUR	KONAAIUS	KONAAIWF
KONAAANCC	KONAAANIP	KONAAANUI	KONAAANXP	KONAAANXX	KONAAOP
KONAAOPD	KONAAOPF	KONAAOPG	KONAAOPN	KONAAOPT	KONAAOPV
KONAAPDQ	KONAAPER	KONAAPNQ	KONAAFVW	KONAAARIP	KONAAARSS
KONAAASMD	KONAAASMG	KONAAATCC	KONAAATIP	KONAAATLC	KONAAATMG
KONAAATMS	KONAAATNC	KONAAATOD	KONAAATPC	KONAAATPX	KONAAATUI
KONAAUDQ	KONAAUNQ	KONAAVRC	KONAAXPB	KONAAAXPC	KONAAAXPG
KONAAAXPL	KONAAAXPN	KONAAAXPS	KONAAAXPV	KONAAAXSW	KONAAAXWF
KONAAAXWG	KONABAPI	KONABCAL	KONABCRB	KONABHEX	KONABLKE
KONABLKU	KONABLOC	KONABONA	KONABRAD	KONABRCB	KONABRCD

Figure 59 (Page 24 of 32). SMP/E Elements Not Selected

KONABRCE	KONABRCF	KONABRCN	KONABRCP	KONABRCR	KONABRCS
KONABRCT	KONABRDL	KONABRDR	KONABRSM	KONABSNP	KONABSPO
KONABSVT	KONABTOD	KONABT4D	KONABUWI	KONABUWR	KONABVEC
KONABXMS	KONACAA	KONACAB	KONACAC	KONACAD	KONACAE
KONACAF	KONACAG	KONACAI	KONACAJ	KONACAL	KONACAM
KONACAR	KONACAS	KONACAT	KONACAU	KONACBA	KONACBE
KONACBI	KONACBJ	KONACBR	KONACBS	KONACBU	KONACCZ
KONACE1	KONACE2	KONACE3	KONACIB	KONACIC	KONACIN
KONACIV	KONACLA	KONACLT	KONACNC	KONACPC	KONACPM
KONACRA	KONACRB	KONACRD	KONACRG	KONACRH	KONACRI
KONACRL	KONACRP	KONACRR	KONACRT	KONACRU	KONACRV
KONACRX	KONACRY	KONACRZ	KONACSOS	KONACTCA	KONACTCB
KONACTCC	KONACTCD	KONACTCE	KONACTCF	KONACTCM	KONACTC0
KONACTC1	KONACTC2	KONACTC3	KONACTC4	KONACTC5	KONACTC6
KONACTC7	KONACTC8	KONACTC9	KONACTM	KONACTR	KONACTS
KONACTTR	KONACT1	KONACT2	KONACT3	KONACT4	KONACVL
KONACVM	KONACVP	KONACVR	KONACVS	KONACVU	KONACV2
KONACXC	KONACXE	KONACXI	KONACXO	KONACXW	KONAFACT
KONAFI00	KONAFI01	KONAFI02	KONAFI03	KONAFI04	KONAFI05
KONAFI06	KONAFI07	KONAFI08	KONAFI09	KONAFI10	KONAFI11
KONAFI12	KONAFI13	KONAFI14	KONAFI15	KONAFI16	KONAFI17
KONAFI18	KONAFI22	KONAFMSC	KONAFNDM	KONAFNDU	KONAFNI0
KONAFNI1	KONAFNI2	KONAFNI3	KONAFNI4	KONAFNI5	KONAFNI6
KONAFNI7	KONAFNI8	KONAFNMI	KONAFNM0	KONAFNM1	KONAFNM2
KONAFNM3	KONAFNM4	KONAFNM5	KONAFNM6	KONAFNM7	KONAFNM8
KONAFNM9	KONAFNSB	KONAFNTA	KONAFNTB	KONAFNTC	KONAFNTD
KONAFNTE	KONAFNTF	KONAFNTG	KONAFNTH	KONAFNTS	KONAFNTT
KONAFNTU	KONAFNUT	KONAFNVW	KONAFNXB	KONAFNXC	KONAFNXD
KONAFNX0	KONAFNX1	KONAFNX2	KONAFNX5	KONAFNX6	KONAFNX7
KONAFNX8	KONAFNX9	KONAFN01	KONAFN02	KONAFN03	KONAFN04
KONAFN05	KONAFN06	KONAFN17	KONAFN30	KONAFN34	KONAFN35
KONAFN36	KONAFN37	KONAFN38	KONAFN39	KONAFN60	KONAFOP1
KONAFPMI	KONAFRA	KONAFTCC	KONAFTI	KONAFTM	KONAFTMI

Figure 59 (Page 25 of 32). SMP/E Elements Not Selected

KONAFTS	KONAFTVM	KONAFVL	KONAFVMI	KONAFXC	KONAFXL1
KONAFXVW	KONAFXW1	KONAFXW2	KONAGAMS	KONAGCMP	KONAGFPF
KONAGLOD	KONAGNDM	KONAGNPA	KONAGNPB	KONAGNSB	KONAGNTS
KONAGRRT	KONAGRSS	KONAGSRC	KONAGVAA	KONAHCF0	KONAHCF3
KONAHCMP	KONAHEM0	KONAHEM3	KONAHEV0	KONAHEV3	KONAHFCI
KONAHFD1	KONAHFD2	KONAHFD3	KONAHFPF	KONAHFSN	KONAHFT1
KONAHFT2	KONAHFT3	KONAHLC0	KONAHLOD	KONAHLS1	KONAHLS2
KONAHNDA	KONAHNDB	KONAHNDC	KONAHNDD	KONAHNDE	KONAHNDF
KONAHNDG	KONAHNDH	KONAHNDI	KONAHNDJ	KONAHNDK	KONAHNDM
KONAHND0	KONAHND1	KONAHND2	KONAHND3	KONAHND4	KONAHND5
KONAHND6	KONAHND7	KONAHND8	KONAHND9	KONAHNPA	KONAHNPB
KONAHNP0	KONAHNP1	KONAHNP2	KONAHNP3	KONAHNSB	KONAHNTS
KONAHNTX	KONAHNT0	KONAHNT1	KONAHNT2	KONAHNT3	KONAHN00
KONAHN01	KONAHN02	KONAHN04	KONAHN05	KONAHN06	KONAHN07
KONAHN08	KONAHN09	KONAHN12	KONAHN13	KONAHN16	KONAHN17
KONAHOF0	KONAHOF3	KONAHRRRT	KONAHRSS	KONAHSRC	KONAHTRM
KONAHVAA	KONAHWEL	KONAITDC	KONAITDD	KONAITDE	KONAITDF
KONAITDI	KONAITDS	KONAITXB	KONAITXH	KONAITXI	KONAITXP
KONAITXR	KONAITXS	KONAJCD	KONAJFR	KONAJLV	KONAJSC
KONAJTA	KONAJTC	KONAKAF	KONAKAR	KONAKAS	KONAKBG
KONAKBI	KONAKBS	KONAKBU	KONAKCB	KONAKDC	KONAKDE
KONAKFE	KONAKGC	KONAKHN	KONAKHT	KONAKLI	KONAKMV
KONAKNA	KONAKNI	KONAKNT	KONAKNX	KONAKPV	KONAKRE
KONAKRF	KONAKRG	KONAKRH	KONAKRL	KONAKRM	KONAKRN
KONAKRO	KONAKRQ	KONAKRS	KONAKRT	KONAKRU	KONAKRV
KONAKRW	KONAKRX	KONAKSL	KONAKSR	KONAKTL	KONAKTM
KONAKTR	KONAKTRP	KONAKTR2	KONAKT1	KONAKT2	KONAKVT
KONAKXF	KONAKXG	KONAKXH	KONAKXS	KONAKXV	KONALFR
KONALLK	KONALPM	KONALRST	KONALSP	KONALSPO	KONALSV
KONALUD	KONALUL	KONALVR	KONALVT	KONAMCFE	KONAMCFR
KONAMCGM	KONAMCPP	KONAMCRM	KONAMCSR	KONAMVPX	KONANAPF
KONANINS	KONANLDI	KONANLDR	KONANMVS	KONANNDL	KONANPD
KONANPM	KONANPWK	KONANRCI	KONANRCX	KONANREM	KONANSPI

Figure 59 (Page 26 of 32). SMP/E Elements Not Selected

KONANSPM	KONANSPN	KONANSPR	KONANSUI	KONANSUR	KONANUSI
KONANUSR	KONANVTM	KONAPDEQ	KONAPENQ	KONAPKEY	KONAPRM
KONAPRMT	KONAPSTT	KONAPTR	KONAPTXE	KONAPZAP	KONATVCL
KONATVCU	KONATVEX	KONATVMR	KONATVOP	KONATVRE	KONATVRR
KONATVST	KONATVTE	KONATVTP	KONAYACT	KONAYCCB	KONAYFCV
KONAYNAH	KONAYNGA	KONAYOCB	KONAYPWK	KONAYTAP	KONAYTAS
KONAYTAW	KONAYTCO	KONAYTDV	KONAYTGA	KONAYTGW	KONAYTLK
KONAZAV	KONAZBV	KONAZCV	KONAZD1A	KONAZD1B	KONAZD1C
KONAZD1D	KONAZD1E	KONAZD1F	KONAZD1G	KONAZD2A	KONAZD2B
KONAZD2C	KONAZD2D	KONAZD2E	KONAZD2F	KONAZD2G	KONAZD4A
KONAZD4B	KONAZJV	KONAZKV	KONAZLCM	KONAZLSM	KONAZLV
KONAZMV	KONAZNV	KONAZPRM	KONAZPV	KONDATA	KONHNST
KONHNSTA	KONHNSTB	KONHNSTC	KONHNSTD	KONHNSTE	KONHNSTF
KONHNSTG	KONHNSTH	KONHNSTI	KONHNSTJ	KONHNSW	KONHNSWA
KONHNSWB	KONHNSWC	KONHNSWD	KONHNSWE	KONHNSWF	KONHNSWG
KONHNSWH	KONPNSTW	KON56HA	KON56HAA	KON56HD	KON56HDA
KON56HG	KON56HH	KON56HHA	KON56HL	KON56HLA	KON56HR
KON56HU	KON56HUA	KON56HUB	KON56HUC	KON56HUD	KON56HUE
KON56HUF	KON56HUG	KON56H1	KON56H1A	KON56H1B	KON56H1C
KON56H1D	KON56H1E	KON56H1F	KON56H1G	KON56H1H	KON56H1I
KON56H2	KON56H2A	KON56H3	KON56H3A	KON56H3B	KON56H5
KON56H6	KON56H8	KON56H8A	KON56H8B	KOSASRSE	KOSASRSL
KOSCFMML	KOSCFLOC	KOSCFMML	KOSCFOML	KOSCFMML	KOSCFMML
KOSCPHML	KOSDASML	KOSDCMML	KOSECTLL	KOSECTLU	KOESGXL
KOSFACTI	KOSGGRSL	KOSGNQRE	KOSGNQRL	KOSGNQTL	KOSGQSCA
KOSKFA	KOSOEKNL	KOSPXSML	KOSSTART	KOSWAIOL	KOSWANQL
KOSWASCL	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	KO2ABROW	KO2ACAFB
KO2ACAFS	KO2ACAF2	KO2ACINB	KO2ACONB	KO2AFLTF	KO2AFSAM
KO2AHLR	KO2AINIB	KO2AOMBB	KO2APCAA	KO2APCAS	KO2APCA2

Figure 59 (Page 27 of 32). SMP/E Elements Not Selected

KO2APCBA	KO2APCBS	KO2APCB2	KO2APCCA	KO2APCCS	KO2APCC2
KO2APCEA	KO2APCES	KO2APCE2	KO2APCFA	KO2APCFS	KO2APCF2
KO2APCGA	KO2APCGS	KO2APCG2	KO2APCHA	KO2APCHS	KO2APCH2
KO2APCIA	KO2APCIS	KO2APCI2	KO2APCJA	KO2APCJS	KO2APCJ2
KO2APCKA	KO2APCKS	KO2APCK2	KO2APCLA	KO2APCLS	KO2APCL2
KO2APCMA	KO2APCMS	KO2APCM2	KO2APCNA	KO2APCNS	KO2APCN2
KO2APCOA	KO2APCOS	KO2APCO2	KO2APCPA	KO2APCPS	KO2APCP2
KO2APCQA	KO2APCQS	KO2APCQ2	KO2APC1A	KO2APC1S	KO2APC12
KO2APC2A	KO2APC2S	KO2APC22	KO2APC3A	KO2APC3S	KO2APC32
KO2APC4A	KO2APC4S	KO2APC42	KO2APC5A	KO2APC5S	KO2APC52
KO2APC6A	KO2APC6S	KO2APC62	KO2APC7A	KO2APC7S	KO2APC72
KO2APC8A	KO2APC8S	KO2APC82	KO2APC9A	KO2APC9S	KO2APC92
KO2APHLR	KO2APINA	KO2APINS	KO2APIN2	KO2ARECB	KO2ATABL
KO2ATBMB	KO2ATD1B	KO2ATQXB	KO2ATRCB	KO2BHLR	KO2CCAFB
KO2CCAPB	KO2CCINB	KO2CDCNB	KO2CDINA	KO2CDINS	KO2CDIN2
KO2CDSCB	KO2CIFAB	KO2CIFBB	KO2CIFCB	KO2CIFDB	KO2CIFEB
KO2CIFIA	KO2CIFIS	KO2CIFI2	KO2CIF1A	KO2CIF1S	KO2CIF12
KO2CIF2A	KO2CIF2S	KO2CIF22	KO2CIF3A	KO2CIF3S	KO2CIF32
KO2CIF4A	KO2CIF4S	KO2CIF42	KO2CIF5A	KO2CIF5S	KO2CIF52
KO2CIF6A	KO2CIF6S	KO2CIF62	KO2CIF7A	KO2CIF7S	KO2CIF72
KO2CIF8A	KO2CIF8S	KO2CIF82	KO2CIF9A	KO2CIF9S	KO2CIF92
KO2CIMSC	KO2CIMSD	KO2CIMSE	KO2CMRWB	KO2CMVIF	KO2CMVSF
KO2CPCSB	KO2CPC5A	KO2CPC5S	KO2CPC52	KO2CPC6A	KO2CPC6S
KO2CPC62	KO2CPC7A	KO2CPC7S	KO2CPC72	KO2CRLIC	KO2CRLID
KO2CRLIE	KO2CRLIF	KO2CSTRH	KO2CST5A	KO2CST5S	KO2CST52
KO2CSY2A	KO2CSY2S	KO2CSY22	KO2CSY3A	KO2CSY3S	KO2CSY32
KO2CTHBA	KO2CTHBS	KO2CTHB2	KO2CTHCA	KO2CTHCS	KO2CTHC2
KO2CTHDA	KO2CTHDS	KO2CTHD2	KO2CTHEA	KO2CTHES	KO2CTHE2
KO2CTHIA	KO2CTHIS	KO2CTHI2	KO2CTHJA	KO2CTHJS	KO2CTHJ2
KO2CTHNA	KO2CTHNS	KO2CTHN2	KO2CTHOA	KO2CTHOS	KO2CTHO2
KO2CTRDH	KO2CT2SA	KO2CT2SS	KO2CT2S2	KO2CVTIC	KO2CVTIF
KO2CVTIG	KO2DATA	KO2DBCIB	KO2DCINB	KO2DHINB	KO2DINTB
KO2DSIAA	KO2DSIAS	KO2DSIA2	KO2DSIFA	KO2DSIFS	KO2DSIF2

Figure 59 (Page 28 of 32). SMP/E Elements Not Selected

KO2DXSTB	KO2ECTLF	KO2EDSDH	KO2EDSNH	KO2EIXMF	KO2EOJSA
KO2EOJSS	KO2EOJS2	KO2ERMGB	KO2HCAPB	KO2HDTIB	KO2HDTPB
KO2HHCPB	KO2HHDIB	KO2HHQIB	KO2HHRCB	KO2HHTPB	KO2HINTB
KO2HPR1B	KO2HSINB	KO2HSVIB	KO2HSVPB	KO2HWLMB	KO2ICSTH
KO2ICSUH	KO2IINIA	KO2IINIS	KO2IINI2	KO2IINTB	KO2ITABB
KO2LCAPB	KO2NCSTB	KO2NDRVB	KO2OAPIB	KO2OBUFB	KO2OCMCB
KO2OCMDB	KO2ODBGB	KO2ODB1B	KO2ODCNB	KO2ODINB	KO2OEDAB
KO2OEDBB	KO2OEDCB	KO2OEDSB	KO2OED0B	KO2OED1B	KO2OED2B
KO2OED3B	KO2OED4B	KO2OED5B	KO2OED6B	KO2OED7B	KO2OED8B
KO2OED9B	KO2OENDB	KO2OEVCB	KO2OIDAB	KO2OINTB	KO2OMEMB
KO2ONAPB	KO2ONA2B	KO2OQALA	KO2OQALS	KO2OQAL2	KO2ORCVB
KO2OSNPB	KO2OSTAB	KO2OSTSB	KO2OST2B	KO2OTHAB	KO2OTHGB
KO2OTHJB	KO2OTHMB	KO2OTHRB	KO2OTH8B	KO2OTRCB	KO2OZM2B
KO2O225B	KO2PDRVF	KO2PLIOF	KO2POTHH	KO2PUTLF	KO2PWHCB
KO2RDUMP	KO2STORB	KO2TDTLH	KO2TEST	KO2TZOTH	KO2UKEY
KO2WINTB	KO2WTCAA	KO2WTCAS	KO2WTCA2	KO2XCINB	KO2XCISA
KO2XCISS	KO2XCIS2	KO2XDDSA	KO2XDDS4	KO2XDDS5	KO2XDDS6
KO2XDDS7	KO2XDDS8	KO2XDINA	KO2XDINS	KO2XDIN2	KO2XIMSC
KO2XIMSD	KO2XIMSE	KO2XRCI2	KO2XRLIC	KO2XRLID	KO2XRLIE
KO2XRLIF	KO2XSY2A	KO2XSY2S	KO2XSY22	KO2XTHSA	KO2XTHSS
KO2XTHS2	KO2XVTIF	KO2XVTIG	KO2ZABN	KO2ZAPI	KO2ZASY
KO2ZIFI	KO2ZISX	KO2ZLOG	KO2ZOMI	KO2ZOPC	KO2ZOPT
KO2ZOPU	KO2ZREQ	KO2ZRTO	KO2ZSOP	KO2ZSYN	KO2ZTOP
KO2ZWTO	KO2ZXPC	KO2ZZRM	KO25HACT	KO25HBAC	KO25LOCK
KO25QDST	KO25QTST	KO25ZPRM	KPQALLOC	KPQBITIX	KPQBSIND
KPQBTRIE	KPQBTRIX	KPQCOLLS	KPQCSI0	KPQCTGSA	KPQCTMSG
KPQDMTLI	KPQDYNAL	KPQDYNAR	KPQHINIT	KPQHPARM	KPQHSICP
KPQHSMGR	KPQHSODI	KPQHSPDT	KPQHUTIL	KPQIDXT0	KPQMACIR
KPQMACIW	KPQMACON	KPQMACRD	KPQMACUP	KPQMADIS	KPQMADSC
KPQMAEXT	KPQMAFMT	KPQMAUMX	KPQMMAIN	KPQMMGR0	KPQMPOOL
KPQMTLIO	KPQMTLOS	KPQMUTIL	KPQQSAM0	KPQSORT0	KPQSPCMD
KPQSPCMT	KPQSPDSH	KPQSPINI	KPQSPIPR	KPQSPISU	KPQSPITD
KPQSPLPR	KPQSPLSU	KPQSPLTD	KPQSPMGT	KPQSPTRM	KPQSTSYS

Figure 59 (Page 29 of 32). SMP/E Elements Not Selected

KQIAGBKS	KQIAGENT	KQIAGEVS	KQIATR	KQIAUCMP	KQIAZCMP
KQIBAR	KQIBHELP	KQIBRACT	KQIBRSTS	KQIBRSTT	KQICAT
KQIDDICT	KQIDOC	KQIHISTC	KQIH0001	KQIH0002	KQIH0003
KQIH0004	KQIH0005	KQIH0006	KQIH0008	KQIH0009	KQIH0010
KQIH0017	KQIH0019	KQIH0020	KQIH0021	KQIH0022	KQIH0023
KQIH0024	KQIH0025	KQIH0026	KQIH0027	KQIH0028	KQIH0029
KQIH0030	KQIH0031	KQIH0032	KQIINDEX	KQIJCMP	KQIJCMPR
KQIJSETA	KQIJSLOD	KQIJSTMS	KQIJSTPS	KQIJSTPW	KQIJSUSU
KQIJSUS6	KQILBEVS	KQILBKSS	KQILMFSS	KQILMFTS	KQILSVJS
KQILSVSS	KQIMAP	KQIMFACT	KQIMFEWS	KQIMFIRD	KQIMFISD
KQIMFMFR	KQIMFMFS	KQIMFMFX	KQIMFMSR	KQIMFNDS	KQIMFNDX
KQIMFSTS	KQIMFTHR	KQIMFTHS	KQIMFTSR	KQIMSENU	KQIMSMAN
KQINDATS	KQINDNDR	KQINDNDS	KQINDNSR	KQINDSTT	KQINDTRR
KQINDTRS	KQINDTSR	KQIPDICT	KQIPNODE	KQIPRMLB	KQIQMSWX
KQISTAGS	KQISTART	KQISTBHO	KQISTBKS	KQISTLIS	KQISTRTI
KQISTRTX	KQISTTBT	KQISVACT	KQISVAMP	KQISVAMS	KQISVCCS
KQISVFLS	KQISVGCS	KQISVJDS	KQISVJMS	KQISVJVS	KQISVODS
KQISVOSS	KQISVPSS	KQISVSPS	KQISVSTS	KQISVSVS	KQISVTCS
KQISVTSS	KQISYSP	KQITACTX	KQITAMXS	KQIUIUSS	KQIUSS
KQIXML	KQMM	KRALIB	KRANDREG	KRGPRMLB	KRHPRMLB
KRIBB0M0	KRIBB0N0	KRIBB0O0	KRIBB0P0	KRIDA0MQ	KRIDA0NQ
KRIDA0OQ	KRIDA0PQ	KRIFLGX0	KRIGPX00	KRIHD0MQ	KRIHD0NQ
KRIHD0OQ	KRIHD0PQ	KRILGXM0	KRILGXN0	KRILGXO0	KRILGXPO
KRILP0MQ	KRILP0NQ	KRILP0OQ	KRILP0PQ	KRIRI0MQ	KRIRI0NQ
KRIRI0OQ	KRIRI0PQ	KRIXP0MQ	KRIXP0NQ	KRIXP0OQ	KRIXP0PQ
KRJPRMLB	KRKPRMLB	KRNPRMLB	KRTAHELP	KRTBHELP	KRTDDICT
KRTDDICX	KRTREXIT	KRVPRMLB	KSMOMS	KS3\$AGVR	KS3\$VER
KS3#ADBAM	KS3#ADBU	KS3#AGDF	KS3#AGVR	KS3#ASUP	KS3#ASVA
KS3#ASVU	KS3#CA1U	KS3#DAGU	KS3#G	KS3#GOKY	KS3#GVA
KS3#GVU	KS3#SGAD	KS3#ZCD	KS3@ADBAM	KS3@CAVS	KS3@CCS
KS3@CPSC	KS3@CPSF	KS3@CPSV	KS3ADBFV	KS3ADBM	KS3ADBNT
KS3ADCMD	KS3ADDSC	KS3ADSRB	KS3ADSRM	KS3ADSU	KS3ADWB4
KS3AGVER	KS3AG1	KS3AINIT	KS3ALLOC	KS3ALLO4	KS3ANTRQ

Figure 59 (Page 30 of 32). SMP/E Elements Not Selected

KS3ANTR4	KS3APPNN	KS3APSNN	KS3ARDSP	KS3AS	KS3ATR
KS3AVSU	KS3BAR	KS3BER4	KS3BGIN4	KS3BTIX4	KS3BTRE4
KS3CACMD	KS3CAT	KS3CA1CS	KS3CA1DD	KS3CA1DS	KS3CA1RD
KS3CA1S	KS3CA1SD	KS3CA1VD	KS3CA1VS	KS3CCMGR	KS3CCVC
KS3CDSRB	KS3CGSMF	KS3CHSE4	KS3COLLS	KS3COLL4	KS3CORO4
KS3CPCMD	KS3CPSLS	KS3CPSPC	KS3CPSPV	KS3CPSXS	KS3CS
KS3CSCTX	KS3CSI	KS3CSID4	KS3CTDS4	KS3CTGSA	KS3CTGS4
KS3CTMEM	KS3CTME4	KS3CTMSG	KS3CTMS4	KS3CTSYN	KS3CTSY4
KS3C1TMC	KS3C1UTL	KS3DACMD	KS3DACTL	KS3DAD	KS3DAEXT
KS3DAEX2	KS3DAG	KS3DAGDF	KS3DAGS	KS3DAGSC	KS3DASS
KS3DATA	KS3DATSS	KS3DBCMD	KS3DCBS	KS3DCISS	KS3DCMIC
KS3DCMII	KS3DCMIP	KS3DCMIT	KS3DDLT4	KS3DEBUG	KS3DEVPD
KS3DFD	KS3DFSRD	KS3DGCTL	KS3DGOPS	KS3DGOP4	KS3DGP
KS3DGPV	KS3DGPVC	KS3DGRD	KS3DGUTL	KS3DGVV	KS3DGVV
KS3DHCRQ	KS3DINIT	KS3DJSE4	KS3DMTLI	KS3DMTLT	KS3DOC
KS3DPCCU	KS3DPCHP	KS3DPDEV	KS3DPLCU	KS3DPSUM	KS3DPSYC
KS3DPSYD	KS3DPSYV	KS3DPTSA	KS3DPTSC	KS3DPTSR	KS3DPTSX
KS3DQCMD	KS3DQRY4	KS3DRCIN	KS3DRCIT	KS3DRCMD	KS3DRCTL
KS3DRLSC	KS3DRLSI	KS3DRSUM	KS3DS	KS3DSCBR	KS3DSCMD
KS3DSCTL	KS3DSD	KS3DSG	KS3DSMSI	KS3DSMSP	KS3DSMSS
KS3DSMSU	KS3DSPCS	KS3DSSEI	KS3DSTKT	KS3DSTMR	KS3DSUM4
KS3DTDS	KS3DTERM	KS3DTSET	KS3DUTL4	KS3DWEB4	KS3DXCMD
KS3DYNAL	KS3DYNA4	KS3DYNL4	KS3FCCMD	KS3FCDUT	KS3FICDP
KS3FICDU	KS3FVER	KS3GAAC	KS3HISTC	KS3HLP20	KS3HLP21
KS3HTTP4	KS3H0012	KS3H0027	KS3H0042	KS3H0043	KS3H0044
KS3H0046	KS3H0047	KS3H0048	KS3H0049	KS3H0064	KS3H0065
KS3H0067	KS3H0068	KS3H0069	KS3H0075	KS3H0076	KS3H0078
KS3H0080	KS3H0167	KS3H0168	KS3H0169	KS3IDXT4	KS3IMPE4
KS3INDEX	KS3JSON4	KS3JSTMS	KS3JSTPS	KS3JSTPW	KS3LDID
KS3LDSUM	KS3LESQI	KS3LE4	KS3LOGI4	KS3LVC	KS3MAP
KS3MDAD	KS3MIO42	KS3MLOS4	KS3MPAR	KS3MPDS	KS3MPOL4
KS3MSMAN	KS3MTLIO	KS3MTLI4	KS3MTLOS	KS3MTSKT	KS3MTSK4
KS3MTXML	KS3MUTE4	KS3MUTIL	KS3MUTI4	KS3ODI4	KS3OXAGT

Figure 59 (Page 31 of 32). SMP/E Elements Not Selected

KS3OXCCT	KS3OXCNT	KS3OXCTM	KS3OXDEA	KS3OXDST	KS3OXHLP
KS3OXITM	KS3OXMSG	KS3OXRNT	KS3OXVEC	KS3PDICT	KS3PRMLB
KS3PVGP	KS3QSAM	KS3QSAM4	KS3QTIX4	KS3RBLD	KS3RBTR4
KS3RDMPZ	KS3RDMVR	KS3RECO4	KS3RLSCU	KS3SACOL	KS3SACO2
KS3SACO3	KS3SADBC	KS3SADBR	KS3SADBT	KS3SADBU	KS3SADLU
KS3SADSC	KS3SADSD	KS3SADSK	KS3SADSS	KS3SADST	KS3SADSU
KS3SAMDC	KS3SASUM	KS3SAUTL	KS3SAUT2	KS3SAVOL	KS3SAVO2
KS3SAVO3	KS3SAXCG	KS3SAXCM	KS3SAXCN	KS3SAXPD	KS3SCA1C
KS3SCA1I	KS3SCA1R	KS3SCA1T	KS3SCCOL	KS3SCHE4	KS3SCISS
KS3SCMG4	KS3SCMII	KS3SCMIS	KS3SCPSC	KS3SCPSI	KS3SCPSR
KS3SCPST	KS3SCPSU	KS3SDADF	KS3SDADI	KS3SDADK	KS3SDADR
KS3SDADT	KS3SDADX	KS3SDXC	KS3SDXST	KS3SDXT	KS3SERI4
KS3SFCDL	KS3SFCDT	KS3SFCDU	KS3SFMEM	KS3SGCAT	KS3SGCOL
KS3SGCSI	KS3SGMEM	KS3SGPRF	KS3SGSPC	KS3SGSUM	KS3SGVTC
KS3SHCRO	KS3SHCRQ	KS3SHCRR	KS3SHTT4	KS3SJCLI	KS3SMTLI
KS3SORT4	KS3SRACI	KS3SRACS	KS3SRACT	KS3SRLAH	KS3SRLDC
KS3SRLDI	KS3SRLDR	KS3SRLDT	KS3SRLPC	KS3SRLPI	KS3SRLPR
KS3SRLPT	KS3SRLTC	KS3SRLTI	KS3SRLTR	KS3SRLTT	KS3SRMFI
KS3SSGP	KS3SSGS	KS3SSGVP	KS3SSGVS	KS3SSTKV	KS3STCB4
KS3STRTK	KS3STSYS	KS3SUDGV	KS3SYNC	KS3TIME4	KS3TKS99
KS3TKUDS	KS3TMUTL	KS3TMUT4	KS3TRIE4	KS3UUIIDT	KS3VRLAH
KS3VRLDC	KS3VRLPC	KS3VRLTC	KS3VRTMS	KS3VSAM	KS3VXNOD
KS3VXPDS	KS3VXVCT	KS3XLAT4	KS3XML4	KS3ZCD	KS3ZSUMM
KS3ZSUM2	KS32APCL	KS32APDD	KS32APPL	KS32APPR	KS32APVP
KS32APVS	KS32CHSM	KS32CHUB	KS32CINI	KS32CRMM	KS32CRQX
KS32CSYS	KS32CUC	KS32DAGS	KS32DTKS	KS32EDEV	KS32EDSU
KS32EHFD	KS32EHFS	KS32EHRE	KS32EHST	KS32ENOD	KS32HCQX
KS32HQXD	KS32HSMA	KS32IAPD	KS32LCCU	KS32LCDE	KS32LCHP
KS32LCUC	KS32LDAD	KS32LDEV	KS32LDSU	KS32LHCQ	KS32LHCR
KS32LHCS	KS32LHFD	KS32LHFH	KS32LHFS	KS32LHHD	KS32LHPS
KS32LHQL	KS32LHRE	KS32LHWR	KS32LLCU	KS32LRRN	KS32LSNA
KS32LSPL	KS32LSSU	KS32LSSY	KS32LSTC	KS32LSTM	KS32LSTQ
KS32LSTR	KS32LSTS	KS32LSYC	KS32LSYI	KS32LSYS	KS32LSYV

<i>Figure 59 (Page 32 of 32). SMP/E Elements Not Selected</i>					
KS32LTSA	KS32LTSC	KS32LTSR	KS32LTSS	KS32LTSX	KS32PCHP
KS32PHVL	KS32PLCU	KS32RAIN	KS32RAPD	KS32RATM	KS32RLAR
KS32SGST	KS32SQLT	KS32TKS1	KS32VLST	KS32XSUM	KS32XSYS
KS33LSYS	KXDCMDEX	KXDCMDIR	KXDCMDSH	KXDCMDS1	KXDDELAY
KXDFDCON	KXDMAIN	KXDM3KCO	KXDM3ZF	KXDSEV	KXDSub
KXDTRAP	KXDWLCON	KYNAGENT	KYNATR	KYNBHELP	KYNCAT
KYNCTBEX	KYNDICT	KYNDINFO	KYNDoc	KYNDRNEW	KYNJSALO
KYNJSTPW	KYNJSUSU	KYNMSMAN	KYNPDICT	KYNPRMLB	KYNRKCFG
KYNSBATO	KYNTAR	KYN71CGV	KYN71HE	KYN71HEA	KYN71HL
KYN71HLA	KYN71HLB	KYN71PPL	KYN710CB	KYN710RN	KYN710SC
KYN710SP	KYN710VA				

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.

6.1.14 Perform SMP/E ACCEPT

Edit and submit the generated job KCIJGACC to perform an SMP/E ACCEPT CHECK for Z Monitoring 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: 4

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

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

```
GIM24701W SMP/E COULD NOT OBTAIN LINK-EDIT PARAMETERS FOR LOAD  
        MODULE loadmod FOR SYSMOD sysmod. DEFAULTS WERE USED.
```

Figure 59 on page 77 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.

6.1.15 Cleaning Up Obsolete Data Sets, Paths, DDDEFs, and FMIDs

The following data sets and system paths, which were allocated and used by a previous release of OMEGAMON XE for CICS TG on z/OS 4.2.0, are no longer used in this release. You can delete these obsolete data sets and paths after you delete the previous release from your system.

- #dsthlq.DKGWJAR
- #hfmdir/usr/lpp/kgw/v420/bin/IBM
- #hfmdir/usr/lpp/kgw/v420/bin
- #hfmdir/usr/lpp/kgw/v420
- #hfmdir/usr/lpp/kgw

The following file system paths, which were created and used by a previous release of ITCAM for Application Diagnostics on z/OS, are no longer used in this release. You can delete these obsolete file system paths after you delete the previous release from your system.

- /usr/lpp/itcam/wsam/was_instance/bin/IBM
- /usr/lpp/itcam/wsam/was_instance/lib/boot/IBM
- /usr/lpp/itcam/wsam/was_instance/codeset/IBM
- /usr/lpp/itcam/wsam/doc/IBM
- /usr/lpp/itcam/wsam/was_instance/etc/IBM
- /usr/lpp/itcam/wsam/was_instance/lib/IBM
- /usr/lpp/itcam/wsam/was_instance/msg/pt_BR/IBM
- /usr/lpp/itcam/wsam/was_instance/msg/zh_CN/IBM
- /usr/lpp/itcam/wsam/was_instance/msg/de/IBM
- /usr/lpp/itcam/wsam/was_instance/msg/es/IBM
- /usr/lpp/itcam/wsam/was_instance/msg/fr/IBM
- /usr/lpp/itcam/wsam/was_instance/msg/it/IBM
- /usr/lpp/itcam/wsam/was_instance/msg/ja/IBM
- /usr/lpp/itcam/wsam/was_instance/msg/ko/IBM
- /usr/lpp/itcam/wsam/was_instance/msg/C/IBM
- /usr/lpp/itcam/wsam/was_instance/msg/zh_TW/IBM
- /usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/was60/esb60/IBM
- /usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/was60/prs60/IBM
- /usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/was61/esb61/IBM
- /usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/was61/prs61/IBM

- /usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/wps6/IBM
- /usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/wps51/IBM
- /usr/lpp/itcam/WebSphere/DC/itcamdc/etc/was/wps60/IBM
- /usr/lpp/itcam/WebSphere/DC/itcamdc/lib/ext/was/was51/IBM
- /usr/lpp/itcam/WebSphere/DC/itcamdc/lib/ext/was/was70/IBM

The following DDDEF entries, which were created and used by previous releases of OMEGAMON XE for CICS TG on z/OS and ITCAM for Application Diagnostics on z/OS, are no longer used in this release. You can delete these obsolete DDDEF entries after you delete the previous release from your system.

- SCYNZBOT
- SCYNZCOD
- SCYNZDOC
- SCYNZMBR
- SCYNZMCN
- SCYNZMDE
- SCYNZMES
- SCYNZMFR
- SCYNZMIT
- SCYNZMJA
- SCYNZMKO
- SCYNZMSC
- SCYNZMTW
- SCYNZWE6
- SCYNZWP6
- SCYNZW6E
- SCYNZW6P
- SCYNZP6
- SCYNZP51
- SCYNZP60
- SCYNZLW5
- SCYNZL70
- TKGWJAR
- DKGWJAR

The following file system paths, which were created and used by previous releases of OMEGAMON for Db2 PE with FMID HPMZ<xxx> (for example HPMZ540), are no longer used in this release. You can delete these obsolete file system paths after you delete the respective FMID HPMZ<xxx>, for example HPMZ540 when upgrading from OMEGAMON for Db2 PE 5.4.0. from your system.

- #hfmdir/usr/lpp/opmei/v<xxx>/lib/IBM
- #hfmdir/usr/lpp/opmei/v<xxx>/lib
- #hfmdir/usr/lpp/opmei/v<xxx>

Note: <xxx> can be 510, 511, 520, 530 or 540.

Example: Steps to remove HPMZ540 from an OMEGAMON for Db2 PE 5.5.0 CSI

Receive the delete statement.

```
// JOB CARD
//RECEIVE EXEC PGM=GIMSMP,REGION=0M
//SMPCSI DD DSN=<hlq>.CSI,DISP=SHR
//SMPOUT DD SYSOUT=*
//SMRPT DD SYSOUT=*
//SMPHOLD DD DUMMY
//SMPCNTL DD *
SET BDY(GLOBAL).
//SMPPTFIN DD *
++FUNCTION(DELZ540) REWORK(2023105) .
++VER(Z038)
DELETE(HPMZ540) .
/*
```

Apply the delete statement. Use CHECK first. Should get return code 0. Then run without CHECK.

```
// JOB CARD
//APPLY EXEC PGM=GIMSMP,REGION=0M
//SMPCSI DD DSN=<hlq>.CSI,DISP=SHR
//SMPOUT DD SYSOUT=*
//SMRPT DD SYSOUT=*
//SMPCNTL DD *
SET BDY(TZONE) .
APPLY GROUPEXTEND RETRY(YES) COMPRESS(ALL) REDO
SELECT(DELZ540)
CHECK /* Use CHECK first */
.
```

Accept the delete statement. Use CHECK first. Should get return code 0. Then run without CHECK.

```
//ACCEPT EXEC PGM=GIMSMP,REGION=0M
//SMPCSI DD DSN=<hlq>.CSI,DISP=SHR
//SMPOUT DD SYSOUT=*
//SMRPT DD SYSOUT=*
//SMPCNTL DD *
  SET BDY(DZONE) .
  ACCEPT GROUPEXTEND RETRY(YES) COMPRESS(ALL) REDO
  SELECT(DELZ540)
  CHECK /* Use CHECK First */
  .
```

Now the DDDEFs can be removed from the CSI.

```
// JOB CARD
//DDDEF1 EXEC PGM=GIMSMP,REGION=0M
//SMPCSI DD DSN=<hlq>.CSI,DISP=SHR
//SMPCNTL DD *
  SET BDY(TZONE) .
  UCLIN .
  DEL DDDEF(AEIWLIB) .
  DEL DDDEF(AEIWPKGI) .
  DEL DDDEF(SEIWLIB) .
  ENDUCL .
  SET BDY(DZONE) .
  UCLIN .
  DEL DDDEF(AEIWLIB) .
  DEL DDDEF(AEIWPKGI) .
  ENDUCL .
/*
```

Datasets <hlq>. AEIWLIB. <hlq>.AEIWPKGI can now be deleted.

Path defined by SEIWLIB and files in that path can now be deleted.

6.1.16 Dynamic Enablement - IFAPRD00 PARMLIB update

To enable the RMF feature of Z Monitoring Suite, use the IFAPRD00 parmlib member to define the enablement policy:

```
PRODUCT OWNER('IBM CORP')
  NAME('z/OS')
  ID(5650-ZOS)
  VERSION(*) RELEASE(*) MOD(*)
  FEATURENAME(RMF)
  STATE(ENABLED)
```

IBM supplies a tailored IFAPRD00 member of SYS1.PARMLIB. This tailored member enables RMF which is entitled for your systems when you order Z Monitoring Suite for z/OS.

To enable an optional product or feature, you add it to the policy; that is, you add the product to an IFAPRDxx member, then activate the member.

6.2 Activating Z Monitoring Suite

Prior to activating the products included in Z Monitoring Suite, IBM recommends you review the Quick Start Guide, **First time deployment guide (FTU installation and configuration tasks)** as well as 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.

Activating the products included in Z Monitoring Suite requires you to use the OMEGAMON shared publications and the configuration guides for each product listed in Figure 1 on page 10.

This documentation can be found online at:

<https://www.ibm.com/docs/en/om-zmon-suite/2.1.1/>

6.2.1 File System Execution

If you mount the file system in which you have installed OMEGAMON for CICS TG, OMEGAMON Data Provider, ITCAM for Application Diagnostics on z/OS, OMEGAMON AI for JVM, Apache Kafka for IBM Z, and IBM Z Common Data Provider Base and Liberty components in read-only mode during execution, then you do not have to take further actions.

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