



**Program Directory for  
IBM IMS Configuration Manager for z/OS**

V02.03.00

Program Number 5655-WR2

FMID HAAF230

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 24.

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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 IMS Configuration Manager for z/OS. This publication refers to IBM IMS Configuration Manager for z/OS as IMS Configuration Manager.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 3 identifies the basic program materials and documentation for IMS Configuration Manager.
- 3.0, “Program Support” on page 5 describes the IBM support available for IMS Configuration Manager.
- 4.0, “Program and Service Level Information” on page 7 lists the APARs (program level) and PTFs (service level) that have been incorporated into IMS Configuration Manager.
- 5.0, “Installation Requirements and Considerations” on page 8 identifies the resources and considerations that are required for installing and using IMS Configuration Manager.
- 6.0, “Installation Instructions” on page 16 provides detailed installation instructions for IMS Configuration Manager. It also describes the procedures for activating the functions of IMS Configuration Manager, or refers to appropriate publications.

Before installing IMS Configuration Manager, 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 5 tells you how to find any updates to the information and procedures in this program directory.

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

Do not use this program directory if you install IMS Configuration Manager with a SystemPac or ServerPac. When you use one of those offerings, use the jobs and documentation supplied with the offering. The offering will point you to specific sections of this program directory as needed.

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### 1.1 IMS Configuration Manager Description

**IBM IMS Configuration Manager for z/OS, V2.3 (5655-WR2)** allows you to create, edit, audit, and compare IMS parameters across your IMS environment. For new system programmers and those wanting more structure and additional IMS configuration analysis capabilities, the facilities provided in IMS Configuration Manager can reduce configuration errors, save time, and identify potential configuration problems that may otherwise have gone unnoticed.

IMS Configuration Manager for z/OS, V2.3 key functions and highlights include:

- Automatic discovery of your entire IMS topology. Detect IMSplexes, IMS systems, IMS Connect, Common Service Layer (CSL) components and system parameters. Start your analysis of potentially hundreds of systems within minutes of initial set up.
- Powerful ISPF-based parameter editor. Quickly create, edit, and review change history of hundreds of IMS parameters. View a list of active IMS parameter members and learn more about each parameter using context sensitive help. Avoid making mistakes using parameter models and the syntax checker.
- Enterprise parameter management. Intelligent comparison of parameter members in all your discovered systems across multiple sysplexes using the z/OS Explorer plug-in.

The Dynamic Resource Definition (DRD) function previously in IMS Configuration Manager for z/OS V2.2 is no longer available in V2.3. The DRD function is available in IBM IMS High Performance System Generation Tools for z/OS (5655-P43.) For more information on IMS HP Sysgen Tools, visit the IMS High Performance System Generation Tools for z/OS website.

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## 1.2 IMS Configuration Manager FMID

IMS Configuration Manager consists of the following FMIDs:

HAAF230

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## 2.0 Program Materials

An IBM program is identified by a program number. The program number for IMS Configuration Manager is 5655-WR2.

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 IMS Configuration Manager. Ask your IBM representative for this information if you have not already received a copy.

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### 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 16 for more information about how to install the program.

You can find information about the physical media for the basic machine-readable materials for IMS Configuration Manager in the *CBPDO Memo To Users Extension*.

*Figure 1. Program File Content*

<b>Name</b>	<b>O R G</b>	<b>R E C M</b>	<b>L R E C L</b>	<b>BLK SIZE</b>
SMPMCS	SEQ	FB	80	6400
IBM.HAAF230.F1	PDS	FB	80	8800
IBM.HAAF230.F2	PDSE	FB	80	8800
IBM.HAAF230.F3	PDSE	FB	80	8800
IBM.HAAF230.F4	PDSE	U	0	6144
IBM.HAAF230.F5	PDSE	FB	80	8800
IBM.HAAF230.F6	PDSE	FB	80	8800
IBM.HAAF230.F7	PDSE	FB	80	8800
IBM.HAAF230.F8	PDSE	FB	80	8800
IBM.HAAF230.F9	PDSE	FB	80	8800

## 2.1.1 Optional Program Publications

No optional publications are provided for IMS Configuration Manager.

*Figure 2. Optional Material: Unlicensed Publications*

<b>Publication Title</b>	<b>Form Number</b>	<b>Media Format</b>
IBM IMS Configuration Manager for z/OS License Information	GC19-3229	<a href="http://www.ibm.com/software/sla/sladb.nsf">http://www.ibm.com/software/sla/sladb.nsf</a>
IBM IMS Configuration Manager for z/OS User's Guide	SC27-8789	<a href="http://www.ibm.com/support/docview.wss?uid=swg27020942">http://www.ibm.com/support/docview.wss?uid=swg27020942</a>

## 2.2 Program Source Materials

No program source materials or viewable program listings are provided for IMS Configuration Manager.

## 2.3 Publications Useful During Installation

You might want to use the publications listed in Figure 3 during the installation of IMS Configuration Manager.

*Figure 3. Publications Useful During Installation*

<b>Publication Title</b>	<b>Form Number</b>	<b>Media Format</b>
<i>IBM SMP/E for z/OS User's Guide</i>	SA23-2277	<a href="http://www.ibm.com/shop/publications/order/">http://www.ibm.com/shop/publications/order/</a>
<i>IBM SMP/E for z/OS Commands</i>	SA23-2275	<a href="http://www.ibm.com/shop/publications/order/">http://www.ibm.com/shop/publications/order/</a>
<i>IBM SMP/E for z/OS Reference</i>	SA23-2276	<a href="http://www.ibm.com/shop/publications/order/">http://www.ibm.com/shop/publications/order/</a>
<i>IBM SMP/E for z/OS Messages, Codes, and Diagnosis</i>	GA32-0883	<a href="http://www.ibm.com/shop/publications/order/">http://www.ibm.com/shop/publications/order/</a>



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## 3.0 Program Support

This section describes the IBM support available for IMS Configuration Manager.

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### 3.1 Program Services

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

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### 3.2 Preventive Service Planning

Before you install IMS Configuration Manager, make sure that you have reviewed the current Preventive Service Planning (PSP) information. Review the PSP Bucket for General Information, Installation Documentation, and the Cross Product Dependencies sections. For the Recommended Service section, instead of reviewing the PSP Bucket, it is recommended you use the `IBM.PRODUCTINSTALL-REQUIRESERVICE` fix category in SMP/E to ensure you have all the recommended service installed. Use the **FIXCAT(IBM.PRODUCTINSTALL-REQUIRESERVICE)** operand on the **APPLY CHECK** command. See 6.1.10, "Perform SMP/E APPLY" on page 20 for a sample APPLY command

If you obtained IMS Configuration Manager as part of a CBPDO, HOLDDATA is included.

If the CBPDO for IMS Configuration Manager is older than two weeks by the time you install the product materials, you can obtain the latest PSP Bucket information by going to the following website:

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

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

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

PSP Buckets are identified by UPGRADEs, which specify product levels; and SUBSETs, which specify the FMIDs for a product level. The UPGRADE and SUBSET values for IMS Configuration Manager are included in Figure 4.

*Figure 4. PSP Upgrade and Subset ID*

UPGRADE	SUBSET	Description
5655WR2	HAAF230	IMS Configuration Manager

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### 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 5 on page 6 identifies the component IDs (COMPID) for IMS Configuration Manager.

<i>Figure 5. Component IDs</i>			
<b>FMID</b>	<b>COMPID</b>	<b>Component Name</b>	<b>RETAIN Release</b>
HAAF230	5655L6900	IMS CONFIG MGR	230

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## 4.0 Program and Service Level Information

This section identifies the program and relevant service levels of IMS Configuration Manager. 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.

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### 4.1 Program Level Information

The following APAR fixes against previous releases of IMS Configuration Manager have been incorporated into this release. They are listed by FMID.

- FMID HAAF210

PI08303	PM74549	PM82911
PI21444	PM74550	PM95032
PI24874	PM75879	PM95429
PM63371		

- FMID HAAF220

PI46168  
PI75644

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### 4.2 Service Level Information

No PTFs against this release of IMS Configuration Manager have been incorporated into the product package.

Frequently check the IMS Configuration Manager 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.

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## 5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating IMS Configuration Manager. 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.

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### 5.1 Driving System Requirements

This section describes the environment of the driving system required to install IMS Configuration Manager.

#### 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 6. Driving System Software Requirements

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

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

**Note:** Installation might require migration to new z/OS releases to be service supported. See [https://www-01.ibm.com/software/support/lifecycle/index\\_z.html](https://www-01.ibm.com/software/support/lifecycle/index_z.html).

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## 5.2 Target System Requirements

This section describes the environment of the target system required to install and use IMS Configuration Manager.

IMS Configuration Manager installs in the DBS (P115) 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 7. Target System Mandatory Installation Requisites

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
5655-CSL	IBM Common Services Library for z/OS*	V01.01.00 or higher	APAR AI91657 / PTF UI54366	No

\*Refer to 5.4, “Special Considerations” on page 14 for more details regarding Common Services Library and migration considerations.

**Note:** Installation might require migration to new z/OS releases to be service supported. See [http://www-03.ibm.com/systems/z/os/zos/support/zos\\_eos\\_dates.html](http://www-03.ibm.com/systems/z/os/zos/support/zos_eos_dates.html).

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

IMS Configuration Manager has no conditional installation requisites.

### 5.2.2.2 Operational Requisites

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

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

Figure 8 (Page 1 of 2). Target System Mandatory Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level
Any <b>one</b> of the following:	
5653-A04	IMS V13.01.00
5655-DSM	IBM IMS Database Value Unit Edition V13.01.00
5655-TM2	IBM IMS Transaction Manager Value Unit Edition V13.01.00
5653-A05	IMS V14.01.00
5655-DSE	IBM IMS Database Value Unit Edition V14.01.00
5655-TM3	IBM IMS Transaction Manager Value Unit Edition V14.01.00
5653-A06	IMS V15.01.00

<i>Figure 8 (Page 2 of 2). Target System Mandatory Operational Requisites</i>	
<b>Program Number</b>	<b>Product Name and Minimum VRM/Service Level</b>
5655-DS5	IBM IMS Database Value Unit Edition V15.01.00
5655-TM4	IBM IMS Transation Manager Value Unit Edition V15.01.00

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

<i>Figure 9. Target System Conditional Operational Requisites</i>	
<b>Program Number</b>	<b>Product Name and Minimum VRM/Service Level</b>
5655-CSL	IBM Common Services Library for z/OS V1.1 or later with APAR AI91657 or PTF UI54366
5655-EX1	IBM Explorer for z/OS Aqua (z/OS Explorer), V3.0.1 or later

### 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.

IMS Configuration Manager 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.

IMS Configuration Manager has no negative requisites.

## 5.2.3 DASD Storage Requirements

IMS Configuration Manager libraries can reside on all supported DASD types.

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

Figure 10. Total DASD Space Required by IMS Configuration Manager

Library Type	Total Space Required in 3390 Trks	Description
Target	6886	
Distribution	3074	

**Notes:**

1. 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.
2. 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 19.

3. All target and distribution libraries listed have the following attributes:
  - The default name of the data set can be changed.
  - The default block size of the data set can be changed.
  - The data set can 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.
4. 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.

5. 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 value in the "Member Type" column specifies "LPA", it is advised to place the data set in the LPA.
- These data sets can be in the LNKLIST.
- These data sets are not required to be APF-authorized, with some exceptions. If the value in the "Member Type" column specifies "APF", the data set must be APF-authorized.

The following figures describe the target and distribution libraries and file system paths required to install IMS Configuration Manager. The storage requirements of IMS Configuration Manager must be added to the storage required by other programs that have data in the same library or path.

**Note:** Use the data in these tables to determine which libraries can be merged into common data sets. In addition, since some ALIAS names may not be unique, ensure that no naming conflicts will be introduced before merging libraries.

*Figure 11. Storage Requirements for IMS Configuration Manager Target Libraries*

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C O M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SGPLBASE	Sample	any	U	PDSE	FB	80	4	n/a
SGPLEXEC	Exec	any	U	PDSE	FB	80	3	n/a
SGPLLINK	LMOD	any	U	PDSE	U	0	6375	n/a
SGPLMENU	Message	any	U	PDSE	FB	80	6	n/a
SGPLPENU	Panel	any	U	PDSE	FB	80	369	n/a
SGPLSAMP	Sample	any	U	PDSE	FB	80	12	n/a
SGPLSENU	Skel	any	U	PDSE	FB	80	3	n/a
SGPLTENU	Table	any	U	PDSE	FB	80	3	n/a

*Figure 12 (Page 1 of 2). Storage Requirements for IMS Configuration Manager Distribution Libraries*

Library DDNAME	T Y P E	O R G	R E C O M	L R E C L	No. of 3390 Trks	No. of DIR Blks
AGPLBASE	U	PDSE	FB	80	4	n/a
AGPLEXEC	U	PDSE	FB	80	3	n/a

Figure 12 (Page 2 of 2). Storage Requirements for IMS Configuration Manager 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
AGPLLINK	U	PDSE	U	0	2563	n/a
AGPLMENU	U	PDSE	FB	80	6	n/a
AGPLPENU	U	PDSE	FB	80	395	n/a
AGPLSAMP	U	PDSE	FB	80	12	n/a
AGPLSENU	U	PDSE	FB	80	3	n/a
AGPLTENU	U	PDSE	FB	80	3	n/a

### 5.3 FMIDs Deleted

Installing IMS Configuration Manager 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 IMS Configuration Manager into separate SMP/E target and distribution zones.

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

### 5.4 Special Considerations

#### Upgrading to the latest version of IMS Configuration Manager

The IMS Configuration Manager repository has been renamed to IMS Configuration Manager definitions repository. IMS Configuration Manager definitions repositories created using IMS Configuration Manager V2.2 can be used, however the resource, resource group, and change package definitions will no longer be available. It is highly recommended that users create new definitions repositories using the autodiscovery feature to ensure that they contain only those definitions which will be used by the product.

IMS Configuration Manager offers an Eclipse plug-in for IBM Explorer for z/OS (z/OS Explorer) for managing parameters across your enterprise. Refer to the IBM IMS Configuration Manager for z/OS, V2.3 User's Guide (SC27-6746) chapter "Installing the plug-in" for additional information. The IMS Configuration Manager Eclipse plug-in communicates with IMS Configuration Manager via the Common Services Library server supplied with IBM Common Services Library for z/OS (5655-CSL), a no-charge offering. Refer to the IBM Common Services Library for z/OS, V1.1 User's Guide, SC27-6753, for information on installing the server.

**Non-z/OS Hardware Requirements:**

Refer to documentation supplied for IBM Explorer for z/OS (z/OS Explorer) for more information.

**Non-z/OS Software Requirements:**

Refer to documentation supplied for IBM Explorer for z/OS (z/OS Explorer) for more information.

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## 6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of IMS Configuration Manager.

Please note the following points:

- If you want to install IMS Configuration Manager 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.
- You can use the SMP/E dialogs instead of the sample jobs to accomplish the SMP/E installation steps.

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### 6.1 Installing IMS Configuration Manager

#### 6.1.1 SMP/E Considerations for Installing IMS Configuration Manager

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of IMS Configuration Manager.

#### 6.1.2 SMP/E Options Subentry Values

The recommended values for certain SMP/E CSI subentries are shown in Figure 13. Using values lower than the recommended values can result in failures in the installation. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. See the SMP/E manuals for instructions on updating the global zone.

*Figure 13. SMP/E Options Subentry Values*

Subentry	Value	Comment
DSSPACE	(200,200,500)	3390 DASD tracks
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

### 6.1.3 SMP/E CALLLIBS Processing

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

- SCEELKED
- SCEELIB
- SCEELKEX
- SCEECPP

**Note:** CALLLIBS uses the previous DDDEFs only to resolve the link-edit for IMS Configuration Manager. These data sets are not updated during the installation of IMS Configuration Manager.

### 6.1.4 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install IMS Configuration Manager:

<i>Figure 14. Sample Installation Jobs</i>			
Job Name	Job Type	Description	RELFILE
GPLALA	SMP/E	Sample job to allocate and initialize a new SMP/E CSI data set <b>(Optional)</b>	IBM.HAAF230.F2
GPLALB	SMP/E	Sample job to allocate SMP/E data sets <b>(Optional)</b>	IBM.HAAF230.F2
GPLRECEV	RECEIVE	Sample RECEIVE job	IBM.HAAF230.F2
GPLALLOC	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HAAF230.F2
GPLDDDEF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HAAF230.F2
GPLAPPLY	APPLY	Sample APPLY job	IBM.HAAF230.F2
GPLACCEP	ACCEPT	Sample ACCEPT job	IBM.HAAF230.F2

You can access the sample installation jobs by performing an SMP/E RECEIVE (refer to 6.1.7, “Perform SMP/E RECEIVE” on page 19) then copy the jobs from the RELFILES to a work data set for editing and submission. See Figure 14 to find the appropriate refile data set.

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

```

//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//*****
//* Make the //TAPEIN DD statement below active if you install*
//* from a CBPDO tape by uncommenting the DD statement below. *
//*****
//*TAPEIN DD DSN=IBM.HAAF230.F2,UNIT=tunit,
//* VOL=SER=volser,LABEL=(x,SL),
//* DISP=(OLD,KEEP)
//*****
//* Make the //TAPEIN DD statement below active if you install*
//* from a product tape received outside the CBPDO process *
//* (using the optional SMP/E RECEIVE job) by uncommenting *
//* the DD statement below. *
//*****
//*TAPEIN DD DSN=IBM.HAAF230.F2,UNIT=tunit,
//* VOL=SER=AAF230,LABEL=(3,SL),
//* DISP=(OLD,KEEP)
//*****
//* Make the //FILEIN DD statement below active for *
//* downloaded DASD files. *
//*****
//*FILEIN DD DSN=IBM.HAAF230.F2,UNIT=SYSALLDA,DISP=SHR,
//* VOL=SER=filevol
//OUT DD DSNAME=jcl-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,
// SPACE=(TRK,(20,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*

```

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

**TAPEIN:**

- tunit** is the unit value that matches the product package.
- volser** is the volume serial that matches the product package.
- x** is the tape file number that indicates the location of the data set name on the tape.
- See the documentation that is provided by CBPDO for the location of IBM.fmid.Fy on the tape.

**FILEIN:**

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

**OUT:**

- jcl-library-name** is the name of the output data set where the sample jobs are stored.
- dasdvol** is the volume serial of the DASD device where the output data set resides.

**SYSIN:**

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

## 6.1.5 Allocate SMP/E CSI (Optional)

If you are using an existing CSI, do not execute this job.

If you are allocating a new SMP/E data set for this install, edit and submit sample job GPLALA to allocate the SMP/E data set for IMS Configuration Manager. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:** You will receive a return code of 0 if this job runs correctly.

## 6.1.6 Initialize CSI zones (Optional)

If you are using an existing CSI, do not execute this job.

Edit and submit sample job GPLALB to initialize SMP/E zones for IMS Configuration Manager. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:** You will receive a return code of 0 if this job runs correctly.

## 6.1.7 Perform SMP/E RECEIVE

If you have obtained IMS Configuration Manager as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the IMS Configuration Manager 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 sample job GPLRECEV to perform the SMP/E RECEIVE for IMS Configuration Manager. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:** You will receive a return code of 0 if this job runs correctly.

## 6.1.8 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job GPLALLOC allocate the SMP/E target and distribution libraries for IMS Configuration Manager. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:** You will receive a return code of 0 if this job runs correctly.

## 6.1.9 Create DDDEF Entries

Edit and submit sample job GPLDDDEF to create DDDEF entries for the SMP/E target and distribution libraries for IMS Configuration Manager. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:** You will receive a return code of 0 if this job runs correctly.

## 6.1.10 Perform SMP/E APPLY

1. Ensure that you have the latest HOLDDATA; then edit and submit sample job GPLAPPLY to perform an SMP/E APPLY CHECK for IMS Configuration Manager. Consult the instructions in the sample job for more information.

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

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

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

Here are sample APPLY commands:

- a. 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.

- b. 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.

2. 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.

**Expected Return Codes and Messages from APPLY CHECK:** You will receive a return code of 0 if this job runs correctly.

**Expected Return Codes and Messages from APPLY:** You will receive a return code of 0 if this job runs correctly.

## 6.1.11 Perform SMP/E ACCEPT

Edit and submit sample job GPLACCEP to perform an SMP/E ACCEPT CHECK for IMS Configuration Manager. 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 book for details.

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.

**Expected Return Codes and Messages from ACCEPT CHECK:** You will receive a return code of 0 if this job runs correctly.

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:** You will receive a return code of 0 if this job runs correctly.

## 6.1.12 Run REPORT CROSSZONE

The SMP/E REPORT CROSSZONE command identifies requisites for products that are installed in separate zones. This command also creates APPLY and ACCEPT commands in the SMPPUNCH data set. You can use the APPLY and ACCEPT commands to install those cross-zone requisites that the SMP/E REPORT CROSSZONE command identifies.

After you install IMS Configuration Manager, it is recommended that you run REPORT CROSSZONE against the new or updated target and distribution zones. REPORT CROSSZONE requires a global zone with ZONEINDEX entries that describe all the target and distribution libraries to be reported on.

For more information about REPORT CROSSZONE, see the SMP/E manuals.

## 6.1.13 Cleaning Up Obsolete Data Sets, Paths, and DDDEFs

The following data sets, which were allocated and used by previous releases of this product, are no longer used in this release. You can delete these obsolete data sets after you delete the previous release from your system.

- AGPLNOTC
- SGPLNOTC
- AGPLGENU
- SGPLGENU
- AGPLLOAD

The following DDDEF entries, which were created and used by previous releases of this product, are no longer used in this release. You can delete these obsolete DDDEF entries after you delete the previous release from your system.

- AGPLNOTC
- SGPLNOTC
- AGPLGENU

- SGPLGENU
- AGPLLOAD

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## **6.2 Activating IMS Configuration Manager**

### **6.2.1 Product Customization**

The publication *IBM IMS Configuration Manager for z/OS User's Guide* (SC27-8789) contains the necessary information to customize and use IMS Configuration Manager.

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