



**Program Directory for
Information Management System
(IMS)
Transaction and Database Servers**

V13.01.00

Program Number 5635-A04

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 45.

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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 IMS Transaction and Database Servers, V13.01.00. This publication refers to IMS Transaction and Database Servers, V13.01.00 as IMS V13.01.00.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 5 identifies the basic and optional program materials and documentation for IMS V13.01.00.
- 3.0, “Program Support” on page 12 describes the IBM support available for IMS V13.01.00.
- 4.0, “Program and Service Level Information” on page 14 points to the information that contains the APARs (program level) and PTFs (service level) that have been incorporated into IMS V13.01.00.
- 5.0, “Installation Requirements and Considerations” on page 15 identifies the resources and considerations that are required for installing and using IMS V13.01.00.
- 6.0, “Installation Instructions” on page 31 provides detailed installation instructions for IMS V13.01.00. It also describes the procedures for activating the functions of IMS V13.01.00, or refers to appropriate publications.

Before installing IMS V13.01.00, read the *CBPDO Memo To Users* and the *CBPDO Memo To Users Extension* that are supplied with this program in softcopy format and this Program Directory; then keep them for future reference. Section 3.2, “Preventive Service Planning” on page 12 tells you how to find any updates to the information and procedures in this Program Directory.

IMS V13.01.00 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 V13.01.00 are included on the CBPDO tape.

Do not use this program directory if you install IMS V13.01.00 with a SystemPac or ServerPac. When you use one of those offerings, use the jobs and documentation supplied with the offering. The offering will point you to specific sections of this program directory as needed.

1.1 IMS V13.01.00 Description

IMS 13 (5635-A04) delivers on its tradition of high-performance, low-cost transaction processing with multiple enhancements that improve IMS efficiency, reduce MIPs usage, and therefore reduce clients' total cost of ownership. The synergy of IMS with IBM System z and IBM z/OS allows IMS to exploit new hardware and software enhancements, including specified System z Integrated Information Processor (zIIP) utilization.

By relentlessly focusing on delivering performance that keeps the world in business, IBM has broken new ground with IMS 13 by achieving an unprecedented milestone for a Fast Path benchmark: High Volume Transaction Processing reaching 100,000 transactions per second on a single system. IMS 13 is performance charged and production ready.

IMS 13 Transaction Manager enhancements

- IBM IMS Connect, the TCP/IP gateway to IMS transactions, operations, and data, offers improved IMS flexibility, availability, resilience, and security.
- TCP/IP support for Intersystem Communication (ISC) links between IMS and CICS can help reduce maintenance costs and complexities.
- Synchronous program switch and enhanced callout support ease IMS application development and connectivity to assist developers with business transformation.
- Enhanced commands, security, repository, and open transaction manager access (OTMA) support simplify operations, improve availability, and can help reduce total cost of ownership.

IMS 13 Database Manager enhancements

- Online Alter function for IMS High-Availability Large Databases (HALDB) and Fast Path data entry databases (DEDB) simplifies database changes and enhances availability.
- Database versioning offers greater flexibility for implementing database changes and speeding new program deployments without the need to roll out changes to existing programs.
- DBRC enhancements include migration and coexistence support for RECON records that changed in IMS 13, changes that support the DEDB alter and HALDB alter functions, and changes to the DELETE.LOG command.
- Enhanced log, storage, and infrastructure support reduce total cost of ownership, improve performance, and enable growth.
- Native SQL support for COBOL enables SQL in COBOL programs to access IMS databases and provides SQL processing natively in IMS.
- Enhanced support for Distributed Relational Database Architecture (DRDA) distributed data management (DDM) command for native SQL in order to improve Open Database flows.
- Additional support for Java, SQL, and tools ease IMS development and access to IMS data.

To learn more about IMS products and tools, visit <http://www.ibm.com/ims>

1.2 IMS V13.01.00 FMIDs

IMS V13.01.00 consists of the following FMIDs:

- HMK1300 (System Services)
- JMK1301 (Database Manager)
- JMK1302 (Transaction Manager)

JMK1303 (Extended Terminal Option)
 JMK1304 (Recovery Level Tracking)
 JMK1305 (DB Level Tracking)
 JMK1306 (Java On Demand feature)
 HIR2230 (IRLM V2 R3)

Figure 1. FMIDs for IMS V13.01.00

FMID and Description	DB Batch	DBCTL	DB/DC	DB/DC w/ XRF ¹	DCCTL
HMK1300 ² (System Services)	R	R	R	R	R
JMK1301 (Database Manager)	R	R	R	R	N
JMK1302 (Transaction Manager)	N	N	R	R	R
JMK1303 (Extended Terminal Option)	N	N	O	O	O
JMK1304 (RSR Recovery-Level Tracking)	O	O	O	O	O
JMK1305 (RSR Database-Level Tracking)	O	O	O	O	O
JMK1306 (Java On Demand feature)	N	O	O	O	O
HIR2230/1239 (IRLM V2 R3)	O	O	O	O	N

Where:

- R** FMID installation is required.
- O** FMID installation is optional.
- N** The FMID is not applicable to this environment.

Notes:

1. The DB/DC w/XRF column refers to DB/DC with XRF. Although DCCTL w/XRF is a supported combination, it is not included as an IVP option.
2. FMID installation is required even if the primary function provided by this FMID is not used.

NOTE!

IMS TM Resource Adapter is a component of the Java On Demand feature, FMID JMK1306.

IMS Connect is a component in the system services FMID HMK1300.

The IMS Universal Drivers are components of the Java On Demand feature, FMID JMK1306.

2.0 Program Materials

An IBM program is identified by a program number. The program number for IMS V13.01.00 is 5635-A04.

Basic Machine-Readable Materials are materials that are supplied under the base license and feature numbers, and are required for the use of the product. Optional Machine-Readable Materials are orderable under separate feature numbers, and are not required for the product to function.

The program announcement material describes the features supported by IMS V13.01.00. 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 31 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 V13.01.00 in the *CBPDO Memo To Users Extension*.

The following figures describe the file contents for IMS V13.01.00:

- Figure 2 on page 5
- Figure 3 on page 6
- Figure 4 on page 7
- Figure 5 on page 7
- Figure 6 on page 7
- Figure 7 on page 8
- Figure 8 on page 8
- Figure 9 on page 8

You can refer to the *CBPDO Memo To Users Extension* to see where the files reside on the tape.

Notes:

1. The data set attributes in this table must be used in the JCL of jobs that read the data sets. However, because the data sets are in IEBCOPY unloaded format, their actual attributes might be different.
2. If any RELFILEs are identified as PDSEs (such as IBM.JMK1306.F4, which is listed in Figure 8 on page 8), ensure that SMPTLIB data sets are allocated as PDSEs.

Figure 2. Program File Content for HMK1300 - IMS V13 System Services

Name	O R G	R E C F M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	6400
IBM.HMK1300.F1	PDS	FB	80	8800
IBM.HMK1300.F2	PDS	FB	80	8800
IBM.HMK1300.F3	PDS	FB	80	8800
IBM.HMK1300.F4	PDS	FB	80	8800
IBM.HMK1300.F5	PDS	FB	80	8800
IBM.HMK1300.F6	PDS	FB	80	8800
IBM.HMK1300.F7	PDS	FB	80	8800
IBM.HMK1300.F8	PDS	FB	80	8800
IBM.HMK1300.F9	PDS	FB	80	8800
IBM.HMK1300.F10	PDS	U	0	6144
IBM.HMK1300.F11	PDS	FB	80	8800
IBM.HMK1300.F12	PDS	FB	80	8800
IBM.HMK1300.F13	PDS	FB	80	8800
IBM.HMK1300.F14	PDS	FB	80	8800
IBM.HMK1300.F15	PDS	FB	80	8800

Figure 3. Program File Content for JMK1301 - IMS V13 Database Manager

Name	O R G	R E C F M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	6400
IBM.JMK1301.F1	PDS	FB	80	8800
IBM.JMK1301.F2	PDS	U	0	6144
IBM.JMK1301.F3	PDS	FB	80	8800
IBM.JMK1301.F4	PDS	FB	80	8800
IBM.JMK1301.F5	PDS	FB	80	8800

Figure 4. Program File Content for JMK1302 - IMS V13 Transaction Manager

Name	O R G	R E C F M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	6400
IBM.JMK1302.F1	PDS	FB	80	8800
IBM.JMK1302.F2	PDS	FB	80	8800
IBM.JMK1302.F3	PDS	U	0	6144
IBM.JMK1302.F4	PDS	FB	80	8800
IBM.JMK1302.F5	PDS	FB	80	8800

Figure 5. Program File Content for JMK1303 - IMS V13 Extended Terminal Option

Name	O R G	R E C F M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	6400
IBM.JMK1303.F1	PDS	FB	80	8800
IBM.JMK1303.F2	PDS	U	0	6144

Figure 6. Program File Content for JMK1304 - IMS V13 Recovery-Level Tracking

Name	O R G	R E C F M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	6400
IBM.JMK1304.F1	PDS	FB	80	8800
IBM.JMK1304.F2	PDS	U	0	6144

Figure 7. Program File Content for JMK1305 - IMS V13 DB-Level Tracking

Name	O R G	R E C F M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	6400
IBM.JMK1305.F1	PDS	FB	80	8800
IBM.JMK1305.F2	PDS	U	0	6144

Figure 8. Program File Content for JMK1306 - IMS V13 Java On Demand feature

Name	O R G	R E C F M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	6400
IBM.JMK1306.F1	PDS	FB	80	8800
IBM.JMK1306.F2	PDS	VB	255	6160
IBM.JMK1306.F3	PDS	FB	80	8800
IBM.JMK1306.F4	PDSE	U	0	6144
IBM.JMK1306.F5	PDS	VB	255	6160
IBM.JMK1306.F6	PDS	VB	255	6160
IBM.JMK1306.F7	PDS	VB	255	6160
IBM.JMK1306.F8	PDS	VB	255	6160
IBM.JMK1306.F9	PDS	VB	255	6160
IBM.JMK1306.F10	PDS	VB	255	6160

Figure 9. Program File Content for HIR2230 - IRLM 2.3

Name	O R G	R E C F M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	6400
IBM.HIR2230.F1	PDS	FB	80	8800
IBM.HIR2230.F2	PDS	U	0	6144
IBM.HIR2230.F3	PDS	FB	80	8800

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for IMS V13.01.00.

2.3 Program Publications

The following sections identify the basic publications for IMS V13.01.00.

All the publications for IMS V13.01.00 are unlicensed.

2.3.1 Basic Program Publications

Figure 10 identifies the basic unlicensed program publications for IMS V13.01.00. One copy of each of these publications is included when you order the basic materials for IMS V13.01.00. Additional copies can be obtained from the IBM Publications Website at URL: <http://www.ibm.com/shop/publications/order/> or go to the IMS web site at www.ibm.com/ims and click on the “Library” link. Contact your IBM representative for further assistance.

Publication Title	Form Number
<i>IMS Version 13 Licensed Program Specifications</i>	GC19-3663
<i>Program Directory for Information Management System (IMS) Transaction and Database Servers V13.01.00</i>	GI10-8914
<i>IMS V13R1 Product Kit (CDROM)</i>	SK5T-8864

The basic unlicensed publications are available through the Internet or other media for IMS V13.01.00.

2.3.2 Optional Program Publications

Figure 11 identifies the optional unlicensed program publications for IMS V13.01.00. To order copies of these publications, contact your IBM representative or go to the IMS web site at www.ibm.com/ims and click on the “Library” link.

All of the documentation for IMS V13.01.00 can also be found in the Information Management Software for z/OS Solutions Information Center at: <http://pic.dhe.ibm.com/infocenter/dzichelp/v2r2/index.jsp>

Publication Title	Form Number
<i>IMS Version 13 Application Programming</i>	SC19-3646

Figure 11 (Page 2 of 2). Optional Material: Unlicensed Publications

Publication Title	Form Number
<i>IMS Version 13 Application Programming APIs</i>	SC19-3647
<i>IMS Version 13 Command Reference, Volume 1: IMS Commands A-M</i>	SC19-3648
<i>IMS Version 13 Command Reference, Volume 2: IMS Commands N-V</i>	SC19-3649
<i>IMS Version 13 Command Reference, Volume 3: IMS Component and z/OS Commands</i>	SC19-3650
<i>IMS Version 13 Communications and Connections</i>	SC19-3651
<i>IMS Version 13 Database Administration</i>	SC19-3652
<i>IMS Version 13 Database Utilities</i>	SC19-3653
<i>IMS Version 13 Diagnosis</i>	GC19-3654
<i>IMS Version 13 Exit Routines</i>	SC19-3655
<i>IMS Version 13 Installation</i>	GC19-3656
<i>IMS Version 13 Product Kit (CD-ROM)</i>	SK5T-8864
<i>IMS Version 13 Licensed Program Specifications</i>	GC19-3663
<i>IMS Version 13 Messages and Codes Reference, Volume 1: DFS Messages</i>	GC18-9712
<i>IMS Version 13 Messages and Codes Reference, Volume 2: Non-DFS Messages</i>	GC18-9713
<i>IMS Version 13 Messages and Codes Reference, Volume 3: IMS Abend Codes</i>	GC18-9714
<i>IMS Version 13 Messages and Codes Reference, Volume 4: IMS Component Codes</i>	GC18-9715
<i>IMS Version 13 Operations and Automation</i>	SC19-3657
<i>IMS Version 13 Release Planning</i>	GC19-3658
<i>IMS Version 13 System Administration</i>	SC19-3659
<i>IMS Version 13 System Definition</i>	GC19-3660
<i>IMS Version 13 System Programming APIs</i>	SC19-3661
<i>IMS Version 13 System Utilities</i>	SC19-3662
<i>IRLM Messages and Codes for IMS and DB2 for z/OS</i>	GC19-2666

2.4 Program Source Materials

Customers with access to View Program Listings (VPL), such as through S/390 SoftwareXcel, can use the VPL facility for online viewing of available program listings. Customers without access to VPL can contact their IBM representative for available program listings.

2.5 Publications Useful During Installation

You might want to use the publications listed in Figure 12 on page 11 during the installation of IMS V13.01.00.

<i>Figure 12. Publications Useful During Installation</i>	
Publication Title	Form Number
<i>IBM SMP/E for z/OS User's Guide</i>	SA22-7773
<i>IBM SMP/E for z/OS Commands</i>	SA22-7771
<i>IBM SMP/E for z/OS Reference</i>	SA22-7772
<i>IBM SMP/E for z/OS Messages, Codes, and Diagnosis</i>	GA22-7770

3.0 Program Support

This section describes the IBM support available for IMS V13.01.00.

3.1 Program Services

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

3.2 Preventive Service Planning

Before you install IMS V13.01.00, it is VERY IMPORTANT that you review the current Preventive Service Planning (PSP) information. Review the PSP Bucket for General Information, Installation, Documentation, and the Cross Product Dependencies sections. The IMS V13.01.00 PSP bucket names are listed in Figure 13.

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 38 for a sample APPLY command

If you obtained IMS V13.01.00 as part of a CBPDO, HOLDDATA is included.

If the CBPDO for IMS V13.01.00 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 Web site at <http://www.ibm.com/software/support/>.

PSP Buckets are identified by UPGRADEs, which specify product levels; and SUBSETs, which specify the FMIDs for a product level. The UPGRADE and SUBSET values for IMS V13.01.00 are included in Figure 13.

UPGRADE	SUBSET	Description
IMS1300	HMK1300/GA	IMS V13.01.00 System Services
IMS1300	JMK1301/GA	IMS V13.01.00 Database Manager
IMS1300	JMK1302/GA	IMS V13.01.00 Transaction Manager

Figure 13 (Page 2 of 2). PSP Upgrade and Subset ID

UPGRADE	SUBSET	Description
IMS1300	JMK1303/GA	IMS V13.01.00 Extended Terminal Option
IMS1300	JMK1304/GA	IMS V13.01.00 Recovery Level Tracking
IMS1300	JMK1305/GA	IMS V13.01.00 DB Level Tracking
IMS1300	JMK1306/GA	IMS V13.01.00 Java On Demand feature
IMS1300	HIR2230/1239	Internal Resource Lock Manager (IRLM) V2.3

3.3 Statement of Support Procedures

Report any problems that you think 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 14 identifies the component IDs (COMPID) for IMS V13.01.00.

Figure 14. Component IDs

FMID	COMPID	Component Name	RETAIN Release
HMK1300	5635A0400	System Services	300
JMK1301	5635A0400	Database Manager	301
JMK1302	5635A0400	Transaction Manager	302
JMK1303	5635A0400	Extended Terminal Option	303
JMK1304	5635A0400	Recovery Level Tracking	304
JMK1305	5635A0400	DB Level Tracking	305
JMK1306	5635A0400	IMS Java On Demand feature	306
HIR2230	569516401	Internal Resource Lock Manager V02.03.00	230

4.0 Program and Service Level Information

This section identifies the program and relevant service levels of IMS V13.01.00. 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

Refer to the PSP Facility for IMS V13.01.00 APAR information.

4.2 Service Level Information

PTFs containing APAR fixes against this release of IMS V13.01.00 have been incorporated into this product package. For a list of included PTFs, examine the ++VER statement in the product's SMPMCS.

Recommendation: Frequently check the IMS V13.01.00 PSP Bucket for HIPER and SPECIAL Attention PTFs against all FMIDs that you must install. You can also receive the latest HOLDDATA, then ensure the **FIXCAT(IBM.PRODUCTINSTALL-REQUIRESERVICE)** operand is 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 IMS V13.01.00. 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 IMS V13.01.00.

5.1.1 Machine Requirements

Although the driving system can run in any hardware environment that supports the required software, IMS V13.01.00 must be run on 64-bit IBM processors capable of running z/OS V1.13, or later, and support the Long Displacement Facility of the z/Architecture.

5.1.2 Programming Requirements

Figure 15. Driving System Software Requirements

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
Any one of the following:				
5694-A01	z/OS	V01.13.00	N/A	No
5650-ZOS	z/OS	V02.01.00 or higher	N/A	No
5655-G44	IBM SMP/E for z/OS	V03.05.00 or higher	N/A	No

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

IMS Java On Demand feature is installed into a file system, either HFS or zFS. Before installing IMS Java On Demand feature, 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 system data sets must be mounted on the driving system.

If you plan to install IMS Java On Demand feature 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 IMS V13.01.00.

IMS V13.01.00 installs in the DBS (P115) SREL.

5.2.1 Machine Requirements

Although the target system can run in any hardware environment that supports the required software, IMS V13.01.00 operates on 64-bit IBM processors capable of running z/OS V1.13, or later, and supports the Long Displacement Facility of the z/Architecture.

Sysplex data sharing (including data caching and VSO data sharing) with Internal Resource Lock Manager (IRLM) V2.3 requires a coupling facility level 9 or higher. Shared queues, shared-EMH support, and the OM Audit trail also require a coupling facility level 9 or higher. System-Managed Duplexing requires a coupling facility level 12 or higher, and bidirectional CF-to-CF links (such as HiperLink, ICB link, or IC link).

When the physical Multiple Systems Coupling (MSC) is channel-to-channel and is dedicated to IMS, MSC requires the System/370 CTC adapter or a logical channel on the IBM 3088, ESCON, or fiber channel connection (FICON). MSC FICON CTC support requires that at least one IMS system be installed on an

IBM zSeries machine with the FICON channel and FICON CTC microcode. The other side (IMS) can be any processor with a FICON channel.

Basic Remote Site Recovery (RSR) functions require:

- A Sysplex Timer (if either data sharing or workload is spread across multiple CPCs)
- A high bandwidth control unit (such as a 3172)
- At least one tape unit at the tracking site

RSR Coordinated Disaster Recovery support for IMS and DB2 requires that the DB2 logs reside on devices that support Extended Remote Copy (XRC).

IMS Database Image Copy 2 (IC2) utility (DFSDMT0) concurrent copy support requires concurrent copy-capable DASD controllers. IC2 Fast Replication support requires either the concurrent copy feature of DFSMS, the FlashCopy feature of the IBM Enterprise Storage Server (ESS), or the Snapshot feature of the IBMRAMAC Virtual Array (RVA) storage system. For all other system libraries and working storage space, any device supported by the operating system is allowed.

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.

IMS V13.01.00 has no mandatory installation requisites.

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.

IMS V13.01.00 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 16. Target System Mandatory Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level
5696-234	High Level Assembler Toolkit V01.05.00 or higher, a separately orderable feature of z/OS
Any one of the following:	
5694-A01	z/OS V01.13.00 with APARs/PTFs OA36172/UA61786 and OA39392/UA66823 installed.
5650-ZOS	z/OS V02.01.00 or higher

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

Figure 17 (Page 1 of 8). Target System Conditional Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
5635-A04	Internal Resource Lock Manager (IRLM) V2.3 or higher	To take advantage of the IMS data sharing function.
5724-T07	Rational Developer for System z V8	To take advantage of IMS Connect XML Adapter support. For web services, use with IMS Enterprise Suite SOAP Gateway or Web 2.0 applications that access IMS transactions.
5655-W32	IBM Enterprise COBOL for z/OS V05.01.00 with APAR PM92523	IMS Native SQL Support for COBOL.
5655-R36	WebSphere MQ for z/OS V7.0.1 or higher	To run IMS transactions using the Open Transaction Manager Access (OTMA), through the MQ-IMS bridge. To use the application MQGET/MQPUT interface to attach to IMS via the External Subsystem Attach Facility (ESAF).
Any one of the following:		
5655-T62	IMS Enterprise Suite V2.2 SOAP Gateway	To support the IMS callout function, one of the following components is required: IMS Enterprise Suite V2.2 SOAP Gateway, IMS TM Resource Adapter Version 10.3 or higher, or user-written IMS Connect clients (TCP/IP applications).
5655-TDA	IMS Enterprise Suite V3.1 or higher SOAP Gateway	To support the IMS callout function, one of the following components is required: IMS Enterprise Suite V3.1 SOAP Gateway, IMS TM Resource Adapter Version 10.3 or higher, or user-written IMS Connect clients (TCP/IP applications).

Figure 17 (Page 2 of 8). Target System Conditional Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
Any one of the following:		
5694-A01	z/OS V01.13.00 RACF or equivalent, if security is used	Security. RACF is available with the IBM SecureWay Security Server for z/OS (a separately orderable feature of z/OS).
5650-ZOS	z/OS V02.01.00 or higher RACF or equivalent, if security is used	Security. RACF is available with the IBM SecureWay Security Server for z/OS (a separately orderable feature of z/OS).
Any one of the following:		
5694-A01	z/OS V01.13.00 DFSMS Transactional VSAM	To take advantage of parallel access to the DBRC RECON data set.
5650-ZOS	z/OS V02.01.00 or higher DFSMS Transactional VSAM	To take advantage of parallel access to the DBRC RECON data set.
Any one of the following:		
5694-A01	z/OS V01.13.00 Communications Server IP Version 6 higher (TCP/IP)	To use the IMS Connect function. For more information, see <i>IMS Version 13 Release Planning</i> , GC19-3658. To use the IMS Intersystem Communication (ISC) communications support for TCP/IP.
5650-ZOS	z/OS V02.01.00 or higher Communications Server IP Version 6 higher (TCP/IP)	To use the IMS Connect function. For more information, see <i>IMS Version 13 Release Planning</i> , GC19-3658. To use the IMS Intersystem Communication (ISC) communications support for TCP/IP.
Any one of the following:		
5694-A01	z/OS V01.13.00 with APAR OA39392	IMS zIIP Utilization support.
5650-ZOS	z/OS V02.01.00 or higher	IMS zIIP Utilization support.
Any of the following are for IMS Universal driver support:		
5655-N02	WebSphere Application Server for z/OS Version 7.0.1 or higher with APAR PK89274 installed	IMS Universal JDBC driver runtime for access to IMS databases from WebSphere-hosted application programs.
5724-J08	WebSphere Application Server for distributed platforms, Version 7.0.1 or higher with APAR PK89274 installed	IMS Universal JDBC driver runtime for access to IMS databases from WebSphere-hosted application programs.
Any one of the following:		

Figure 17 (Page 3 of 8). Target System Conditional Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
5655-R31 or 5655-R32	IBM SDK, Java Technology Edition, Version 6.0.1 or higher (31-bit or 64-bit)	Support for Java application programs that run in a standalone Java Standard Edition (SE) runtime using the IMS Universal JDBC driver or the IMS Universal DL/I driver.
5655-W43 or 5655-W44	IBM SDK, Java Technology Edition, Version 7.0.1 or higher (31-bit or 64-bit)	Support for Java application programs that run in a standalone Java Standard Edition (SE) runtime using the IMS Universal JDBC driver or the IMS Universal DL/I driver.
Any one of the following:		
5635-DB2	DB2 for z/OS, V09.01.00	Access to IMS DB using the IMS Universal JDBC driver or the IMS Universal DL/I driver for DB2 for z/OS stored procedures.
5635-P12	DB2 for z/OS Value Unit Edition, V09.01.00	Access to IMS DB using the IMS Universal JDBC driver or the IMS Universal DL/I driver for DB2 for z/OS stored procedures.
5605-DB2	DB2 for z/OS, V10.01.00	Access to IMS DB using the IMS Universal JDBC driver or the IMS Universal DL/I driver for DB2 for z/OS stored procedures.
5635-P31	DB2 for z/OS Value Unit Edition, V10.01.00	Access to IMS DB using the IMS Universal JDBC driver or the IMS Universal DL/I driver for DB2 for z/OS stored procedures.
5615-DB2	DB2 for z/OS, V11.01.00	Access to IMS DB using the IMS Universal JDBC driver or the IMS Universal DL/I driver for DB2 for z/OS stored procedures.
5697-P43	DB2 for z/OS Value Unit Edition, V11.01.00	Access to IMS DB using the IMS Universal JDBC driver or the IMS Universal DL/I driver for DB2 for z/OS stored procedures.
5655-S97	CICS Transaction Server for z/OS V4.1 or higher	Access to IMS DB using the IMS Universal JDBC driver or the IMS Universal DL/I driver for CICS V4.1 or higher.
Any one of the following:		
5655-G53	IBM Enterprise COBOL for z/OS V03.04.00 or higher	Java-COBOL interoperation.
5655-S71	IBM Enterprise COBOL for z/OS V04.01.00 or higher	Java-COBOL interoperation.
5655-W32	IBM Enterprise COBOL for z/OS V05.01.00	Java-COBOL interoperation.
Any one of the following:		
5655-H31	IBM Enterprise PL/I for z/OS V03.09.00 or higher	Java-PL/I interoperation.

Figure 17 (Page 4 of 8). Target System Conditional Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
5655-W67	IBM Enterprise PL/I for z/OS V04.01.00 or higher	Java-PL/I interoperation.
Any one of the following:		
5694-A01	z/OS V01.13.00 UNIX System Services (USS) available at runtime	UNIX System Services is needed to access the USS file system on z/OS.
5650-ZOS	z/OS V02.01.00 or higher UNIX System Services (USS) available at runtime	UNIX System Services is needed to access the USS file system on z/OS.
Any one of the following:		
5694-A01	z/OS V01.13.00 USS file system	The Java class libraries, database metadata classes, and XML schemas that are used by IMS Universal drivers at runtime are stored in the USS file system.
5650-ZOS	z/OS V02.01.00 or higher USS file system	The Java class libraries, database metadata classes, and XML schemas that are used by IMS Universal drivers at runtime are stored in the USS file system.
Any of the following are for IMS classic driver support:		
5655-M15	CICS Transaction Server for z/OS V3.2 or higher	JDBC access to IMS DB for CICS V3.2 or higher.
5655-N02	IBM WebSphere Application Server for z/OS V7.0.1 or higher	IMS DB Resource Adapter runtime WebSphere Application Server for z/OS.
Any one of the following:		
5635-DB2	DB2 for z/OS, V09.01.00	JDBC access to IMS DB for DB2 for z/OS.
5635-P12	DB2 for z/OS Value Unit Edition, V09.01.00	JDBC access to IMS DB for DB2 for z/OS.
5605-DB2	DB2 for z/OS, V10.01.00	JDBC access to IMS DB for DB2 for z/OS.
5635-P31	DB2 for z/OS Value Unit Edition, V10.01.00	JDBC access to IMS DB for DB2 for z/OS.
5615-DB2	DB2 for z/OS, V11.01.00	JDBC access to IMS DB for DB2 for z/OS.
5697-P43	DB2 for z/OS Value Unit Edition, V11.01.00	JDBC access to IMS DB for DB2 for z/OS.
Any one of the following:		
5655-G53	IBM Enterprise COBOL for z/OS V03.04.00 or higher	Java-COBOL interoperation.
5655-S71	IBM Enterprise COBOL for z/OS V04.01.00 or higher	Java-COBOL interoperation.
5655-W32	IBM Enterprise COBOL for z/OS V05.01.00	Java-COBOL interoperation.
Any one of the following:		

Figure 17 (Page 5 of 8). Target System Conditional Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
5655-H31	IBM Enterprise PL/I for z/OS V03.09.00 or higher	Java-PL/I interoperation.
5655-W67	IBM Enterprise PL/I for z/OS V04.01.00 or higher	Java-PL/I interoperation.
Any one of the following:		
5694-A01	z/OS V01.13.00 UNIX System Services (USS) available at runtime	UNIX System Services is needed to access the USS file system on z/OS.
5650-ZOS	z/OS V02.01.00 or higher UNIX System Services (USS) available at runtime	UNIX System Services is needed to access the USS file system on z/OS.
Any one of the following:		
5694-A01	z/OS V01.13.00 USS file system	The Java class libraries, database metadata classes, and XML schemas that are used by IMS Universal drivers at runtime are stored in the USS file system.
5650-ZOS	z/OS V02.01.00 or higher USS file system	The Java class libraries, database metadata classes, and XML schemas that are used by IMS Universal drivers at runtime are stored in the USS file system.
Any of the following are for IMS classic driver Java Remote Database Services:		
5724-J08	IBM WebSphere Application Server for Distributed Platforms, V7.0.7, or higher	IMS DB Distributed Resource Adapter for remote database services.
Any one of the following:		
5694-A01	z/OS V01.13.00 Resource Recovery Services (RRS)	RRS is used to coordinate 2-phase commit when applications are operating in the WebSphere, DB2 Stored Procedure, and CICS environments. RRS is used in Java dependent regions when applications are accessing a DB2 database.
5650-ZOS	z/OS V02.01.00 or higher Resource Recovery Services (RRS)	RRS is used to coordinate 2-phase commit when applications are operating in the WebSphere, DB2 Stored Procedure, and CICS environments. RRS is used in Java dependent regions when applications are accessing a DB2 database.
Any one of the following is for Java dependent region support:		
5655-T62	IMS Enterprise Suite V02.01.00 or higher JMS API	To issue a synchronous callout request from JBP or JMP address spaces.
5655-TDA	IMS Enterprise Suite V03.01.00 or higher JMS API	To issue a synchronous callout request from JBP or JMP address spaces.

Figure 17 (Page 6 of 8). Target System Conditional Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
Any of the following is for IMS TM Resource Adapter support:		
5655-N02	IBM WebSphere Application Server for z/OS V7.0.1 or higher	IMS TM Resource Adapter runtime support for WebSphere Application Server for z/OS.
5724-J08	IBM WebSphere Application Server for Distributed Systems V7.0.1 or higher	IMS TM Resource Adapter runtime support for WebSphere Application Server for distributed platforms.
Any of the following is for CICS subsystems support:		
5655-M15	CICS Transaction Server for z/OS V3.2 or higher	IMS DB connection to CICS Transaction Server V3.2 or higher using the IMS Database Resource Adapter (DRA). If you are going to use the DRA enhancement, introduced in IMS Version 10, that allows IMS to allocate the PCB list that the DRA passes to applications in 31-bit addressable storage, you must apply APAR PK54100/UK30299/UK30300.
5655-S97	IBM CICS Transaction Server for z/OS Version 4.2	Support the CICS open transaction environment (threadsafe).
5655-Y04	IBM CICS Transaction Server for z/OS Version 5.1 or higher	ISC TCP/IP function.
Any of the following is for DB2 Subsystem support:		
5635-DB2	DB2 for z/OS, V09.01.00	IMS V13.01.00 connection to DB2 using subsystem routine communication.
5635-P12	DB2 for z/OS Value Unit Edition, V09.01.00	IMS V13.01.00 connection to DB2 using subsystem routine communication.
5605-DB2	DB2 for z/OS, V10.01.00	IMS V13.01.00 connection to DB2 using subsystem routine communication.
5635-P31	DB2 for z/OS Value Unit Edition, V10.01.00	IMS V13.01.00 connection to DB2 using subsystem routine communication.
5615-DB2	DB2 for z/OS, V11.01.00	IMS V13.01.00 connection to DB2 using subsystem routine communication.
5697-P43	DB2 for z/OS Value Unit Edition, V11.01.00	IMS V13.01.00 connection to DB2 using subsystem routine communication.
Any of the following is for Intersystem support:		
5635-A04	IMS V13.01.00	IMS V13.01.00 TM connected to another IMS V13.01.00 using ISC.
5635-A03	IMS V12.01.00	IMS V13.01.00 TM connected to an IMS V12.01.00 using ISC.

Figure 17 (Page 7 of 8). Target System Conditional Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
5635-A02	IMS V11.01.00	IMS V13.01.00 TM connected to IMS V11.01.00 using ISC.
5655-M15	CICS Transaction Server for z/OS V3.2 or higher	IMS V13.01.00 TM connected to CICS using ISC.
Any of the following is for Multiple Systems Coupling support:		
5635-A04	IMS V13.01.00	IMS V13.01.00 TM connected to another IMS V13.01.00 using MSC.
5635-A03	IMS V12.01.00	IMS V13.01.00 TM connected to an IMS V12.01.00 using MSC.
5635-A02	IMS V11.01.00	IMS V13.01.00 TM connected to IMS V11.01.00 using MSC.
Any of the following is for SPEs used for DBRC Migration/Coexistence:		
5635-A04	IMS V12.01.00 with SPE/PTF PM53139/UK80027	DBRC coexistence SPE.
5635-A02	IMS V11.01.00 with SPE/PTF PM53134/UK80026	DBRC coexistence SPE.
Any of the following is for Coexistence		
5635-A02	IMS V11.01.00 with APAR/PTF PM31791/UK67485	For HALDB online reorganization (OLR) compatibility.
5635-A02	IMS V11.01.00 with the following APARs/PTFs: PM19026/UK63964 PM32766/UK68882	For IMS repository function compatibility.
5635-A02	IMS V11.01.00 with the following SPEs/PTFs: PM23843/UK64013 PM32390/UK65495 PM35639/UK66632	To enable IMS V11.01.00 DL/I batch jobs to process an IMS Version 13 PSB library.
5635-A02	IMS V11.01.00 with APAR/PTF PM37033/UK67281	For Database Change Accumulation utility (DFSUCUM0) compatibility.
Any of the following is for IMS-DB2 Interoperability from a Java Dependent Region:		
5635-DB2	DB2 for z/OS, V09.01.00	IMS-DB2 Interoperability.
5635-P12	DB2 for z/OS Value Unit Edition, V09.01.00	IMS-DB2 Interoperability.
5605-DB2	DB2 for z/OS, V10.01.00	IMS-DB2 Interoperability.
5635-P31	DB2 for z/OS Value Unit Edition, V10.01.00	IMS-DB2 Interoperability.
5615-DB2	DB2 for z/OS, V11.01.00	IMS-DB2 Interoperability.

Figure 17 (Page 8 of 8). Target System Conditional Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
5697-P43	DB2 for z/OS Value Unit Edition, V11.01.00	IMS-DB2 Interoperability.

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 V13.01.00 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 V13.01.00 has no negative requisites.

5.2.3 DASD Storage Requirements

IMS V13.01.00 libraries can reside on all supported DASD types.

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

Figure 18. Total DASD Space Required by IMS V13.01.00

Library Type	Total Space Required in 3390 Trks
Target	8988 3390 tracks
Distribution	9725 3390 tracks
USS file system	375 3390 tracks

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 6.1.9, "Allocate SMP/E Target and Distribution Libraries" on page 36.

3. 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.

4. 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, except for SDFSJLIB and ADFSJLIB, which must be PDSEs.

5. All target libraries listed have the following attributes:

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

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

- These data sets must **NOT** be in the LPA.
- These data sets can be in the LNKLIST.
- SDFSRESL, SDFSJLIB, and SDXRRESL require APF authorization.
- IMS V13.01.00 requires that the SMPLTS data set must be a PDSE. If your existing SMPLTS is a PDS, you will need to allocate a new PDSE and copy your existing SMPLTS into it and then change the SMPLTS DDDEF entry to indicate the new PDSE data set.

The following figures describe the target and distribution libraries and file system paths required to install IMS V13.01.00. The storage requirements of IMS V13.01.00 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 19. Storage Requirements for IMS V13.01.00 Target Libraries

Library DDNAME	Member Type	Target Volume	TYP	ORG	RECFM	RECL	No. of 3390 Trks	No. of DIR Blks
SDFSRESL	LMOD	Any	U	PDS	U	0	1350	507
SDFSBASE	Sample	Any	U	PDS	FB	80	9	3
SDFSMAC	Macro	Any	U	PDS	FB	80	2180	170
SDFSCLST	Clist	Any	U	PDS	FB	80	26	5
SDFSEEXEC	EXEC	Any	U	PDS	FB	80	135	15
SDFSRRTRM	Text	Any	U	PDS	FB	80	170	70
SDFSMLIB	MSG	Any	U	PDS	FB	80	10	6
SDFSPLIB	Panel	Any	U	PDS	FB	80	430	120
SDFSSLIB	SKEL	Any	U	PDS	FB	80	160	40
SDFSTLIB	Table	Any	U	PDS	FB	80	14	5
SDFSSMPL	Sample	Any	U	PDS	FB	80	95	10
SDFSDDATA	Data	Any	U	PDS	FB	80	23	3
SDFSSSRC	Source	Any	U	PDS	FB	80	4210	149
SDFSISRC	Sample	Any	U	PDS	FB	80	105	15
SDFSJLIB	LMOD	Any	U	PDSE	U	0	20	-
SDFSJSID	Sample	Any	U	PDS	FB	80	3	3
SDXRRESL	LMOD	Any	S	PDS	U	0	42	4
SDXRSAMP	Sample	Any	S	PDS	FB	80	6	3

Figure 20 (Page 1 of 2). IMS V13.01.00 File System Paths

DDNAME	TYP	Path Name
SDFSIC4J	N	/usr/lpp/ims/ims13/ico/IBM

Figure 20 (Page 2 of 2). IMS V13.01.00 File System Paths

DDNAME	T Y P E	Path Name
SDFSJHFS	N	/usr/lpp/ims/ims13/imsjava/IBM/
SDFSJRAR	N	usr/lpp/ims/ims13/imsjava/rar/IBM
SDFSJ2CI	N	/usr/lpp/ims/ims13/imsjava/cics/IBM
SDFSJCIC	N	/usr/lpp/ims/ims13/imsjava/classic/cics/IBM/
SDFSJCPI	N	/usr/lpp/ims/ims13/imsjava/classic/IBM/
SDFSJSAM	N	/usr/lpp/ims/ims13/imsjava/ivp/IBM/
SDFSJCPS	N	/usr/lpp/ims/ims13/imsjava/classic/ivp/IBM/

Figure 21 (Page 1 of 2). Storage Requirements for IMS V13.01.00 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
ADFSLOAD	U	PDS	U	0	1660	1050
ADFSBASE	U	PDS	FB	80	9	3
ADFSMAC	U	PDS	FB	80	2180	170
ADFSCLST	U	PDS	FB	80	26	5
ADFSEXEC	U	PDS	FB	80	135	15
ADFSIC4J	U	PDS	VB	255	85	3
ADFSRTRM	U	PDS	FB	80	170	70
ADFSMLIB	U	PDS	FB	80	10	6
ADFSPLIB	U	PDS	FB	80	430	120
ADFSSLIB	U	PDS	FB	80	160	40
ADFSTLIB	U	PDS	FB	80	14	5
ADFSSMPL	U	PDS	FB	80	95	10
ADFSDATA	U	PDS	FB	80	23	3
ADFSSRC	U	PDS	FB	80	4210	149
ADFSISRC	U	PDS	FB	80	105	15
ADFSJCIC	U	PDS	VB	255	12	4
ADFSJCPI	U	PDS	VB	255	70	3

Figure 21 (Page 2 of 2). Storage Requirements for IMS V13.01.00 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
ADFSJCPS	U	PDS	VB	255	6	3
ADFSJHFS	U	PDS	VB	255	50	3
ADFSJJCL	U	PDS	FB	80	3	3
ADFSJLIB	U	PDSE	U	0	20	-
ADFSJRAR	U	PDS	VB	255	165	3
ADFSJSAM	U	PDS	VB	255	5	3
ADXRLOAD	S	PDS	U	0	76	65
ADXRSAMP	S	PDS	FB	80	6	3

The following figure lists data sets that are not used by SMP/E, but are required for IMS V13.01.00 to run.

Figure 22. Storage Requirements for IMS V13.01.00 Non-SMP/E Data Sets

Data Set Name	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
MODBLKS	U	PDS	U	0	407	280
OPTIONS	U	PDS	FB	80	3	2
INSTALIB	U	PDS	FB	80	121	190
INSTATBL	U	PDS	FB	80	119	60

5.3 FMIDs Deleted

Installing IMS V13.01.00 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 V13.01.00 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

PDSE Considerations:

IMS V13.01.00 uses the "partitioned data set extended" or PDSE format for the SDFSJLIB target library. There are some operational differences between PDS and PDSE data sets. The PDS format can be shared by more than one z/OS system and no special precautions are necessary. However the PDSE format can be shared only by z/OS systems that are part of a sysplex or that are connected using Global Resource Serialization (are in a GRS complex). If z/OS systems share the use of a PDSE data set outside of a sysplex or GRS environment, you may experience severe problems when the data set is updated. PDSE directory information is cached in storage. Therefore, when one system updates the the data set, the other systems do not know about the update, and their cached directory information will be incorrect.

Do not share the SDFSJLIB data set between z/OS systems unless they are in a sysplex or are connected in a GRS complex. If you need to share the content of the SDFSJLIB data set, a separate copy must be created for each z/OS system.

Java On Demand feature - FMID JMK1306

Before you install the IMS Java On Demand feature FMID, you must prepare your USS file system environment. See the *IMS Version 13 Communications and Connections* for information about installing and configuring the IMS Java On Demand feature.

The drivers, adapters and APIs included in the Java On Demand feature FMID provide IMS middleware functions and tools that support your IMS on demand systems and your distributed IMS application environment. With these tools, you can modernize your existing IMS applications by using IMS technology for connectivity, data representation, and application development, enable Web access to your IMS data and applications, and do ad hoc queries.

IMS Java drivers and resource adapters

IMS provides two generations of Java drivers and resource adapters: the IMS Universal drivers, which is the most recent generation, and the drivers and resource adapters provided by the classic Java APIs for IMS (delivered with IMS V10.01.00 and earlier, but are also delivered with and supported in IMS V13.01.00).

Recommendation: IMS V13.01.00 is the last version of IMS that will support the classic Java APIs. It is recommended to use the IMS Universal drivers for Java applications that access IMS.

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 V13.01.00.

Please note the following points:

- Read the PSP information at 3.2, “Preventive Service Planning” on page 12 before attempting to install IMS V13.01.00.
- If you want to install IMS V13.01.00 into its own SMP/E environment, consult the SMP/E manuals for instructions on creating and initializing the SMP/CSI 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. The installation and activation of IMS V13.01.00 consists of the following steps:
 1. The installation is accomplished by running the sample jobs that are shown in Figure 24 on page 32.
 2. 6.2, “Activating IMS V13.01.00” on page 44 refers to the instructions necessary to activate IMS V13.01.00.

6.1 Installing IMS V13.01.00

6.1.1 SMP/E Considerations for Installing IMS V13.01.00

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of IMS V13.01.00. The SMP/E dialogs can be used to accomplish the SMP/E installation steps.

6.1.2 SMP/E Options Subentry Values

The recommended values for certain SMP/E CSI subentries are shown in Figure 23. 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.

Subentry	Value	Comment
DSSPACE	240,240,850	3390 DASD tracks
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

6.1.3 SMP/E CALLLIBS Processing

IMS V13.01.00 uses the CALLLIBS function provided in SMP/E to resolve external references during installation. When IMS V13.01.00 is installed, ensure that DDDEFs exist for the following libraries:

- SCEELKED
- SCEESPC
- SCEECPP
- CSSLIB
- SDFSRESL
- SCEEBND2
- SCEELIB

Note: CALLLIBs use the previous DDDEFs only to resolve the link-edit for IMS V13.01.00. These data sets are not updated during the installation of IMS V13.01.00.

6.1.4 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install IMS V13.01.00:

<i>Figure 24 (Page 1 of 2). Sample Installation Jobs</i>			
Job Name	Job Type	Description	RELFILE
DFSALA	SMP/E	Sample job to allocate and initialize a new SMP/E CSI data set (Optional)	IBM.HMK1300.F2
DFSALB	SMP/E	Sample job to allocate SMP/E data sets (Optional)	IBM.HMK1300.F2
DFSRECV1	SMP/E	Sample RECEIVE job for System Services	IBM.HMK1300.F2
DFSRECV2	SMP/E	Sample RECEIVE job for IRLM	IBM.HMK1300.F2
DFSRECV3	SMP/E	Sample RECEIVE job for Database Manager	IBM.HMK1300.F2
DFSRECV4	SMP/E	Sample RECEIVE job for Transaction Manager	IBM.HMK1300.F2
DFSRECV5	SMP/E	Sample RECEIVE job for Extended Terminal Option	IBM.HMK1300.F2
DFSRECV6	SMP/E	Sample RECEIVE job for Recovery Level Tracking	IBM.HMK1300.F2
DFSRECV7	SMP/E	Sample RECEIVE job for DB Level Tracking	IBM.HMK1300.F2
DFSRECV8	SMP/E	Sample RECEIVE job for Java On Demand	IBM.HMK1300.F2
DFSALLOC	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HMK1300.F2
DFSZFSAL	ALLOMZFS	Sample job to allocate an ZFS file system (Optional)	IBM.HMK1300.F2

Figure 24 (Page 2 of 2). Sample Installation Jobs

Job Name	Job Type	Description	RELFILE
DFSJSMKD	MKDIR	Sample job to invoke the supplied DFSJMKDR EXEC to allocate HFS or zFS paths for IMS Java On Demand feature	IBM.HMK1300.F2
DFSDDEF1	DDDEF	Sample job to define SMP/E DDDEFs for IMS	IBM.HMK1300.F2
DFSDDEF2	DDDEF	Sample job to define SMP/E DDDEFs for IMS Java On Demand feature	IBM.HMK1300.F2
DFSAPPLY	APPLY	Sample APPLY job	IBM.HMK1300.F2
DFSACCEP	ACCEPT	Sample ACCEPT job	IBM.HMK1300.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 35) then copy the jobs from the RELFILES to a work data set for editing and submission. See Figure 24 on page 32 to find the appropriate relfile data set.

You can also copy the sample installation jobs from the tape or product files by submitting the following job. Depending on your distribution medium, use either the //TAPEIN or the //FILEIN DD statement and comment out or delete the other statement.

The job below will not run without customization. Make one of the two commented DD statements (//TAPEIN DD or //FILEIN DD) in the sample job below active by uncommenting one DD statement and filling in the parameters as required.

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.HMK1300.F2,UNIT=tunit,
/* VOL=SER=volser,LABEL=(X,SL),
/* DISP=(OLD,KEEP)
//*****
/* Make the //FILEIN DD statement below active for *
/* downloaded DASD files. *
//*****
/*FILEIN DD DSN=IBM.HMK1300.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,(20,10,10))
//SYSUT3   DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN    DD *
          COPY INDD=xxxxxx,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.HMK1300.F2 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:

xxxxxx 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 new SMP/E data sets for this install, edit and submit sample job DFSALA to allocate SMP/E CSI data sets for IMS V13.01.00. 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 with its SMP/E zones already initialized, **do not** execute this job.

Note: If you do not run the optional jobs to set up your CSI, do the following:

- You must set the PEMAX value to its SMP/E default. If not, you might get error messages of GIM25901E during SMP/E processing.
- You must set the ACCJCLIN indicator in the distribution zone prior to running the SMP/E ACCEPT processing. **GENERATE processing, as documented in the process described in informational APAR I113024, will not run properly without it.** This will cause entries produced from JCLIN to be saved in the distribution zone whenever a SYSMOD containing inline JCLIN is ACCEPTed. For more information on the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E manuals.
- If you install the IMS Java On Demand feature, your SMPLTS **MUST** be a PDSE.

Note: If you have an existing SMPLTS which is not a PDSE, you will need to allocate a new PDSE and copy your existing SMPLTS into it. Then change your SMPLTS DDDEF entry to indicate the new PDSE data set.

- **Suggestion:** Create separate SMP/E UTILITY entries for both the binder (linkage editor) and assembler (ASMA90) because the system default might not be the best selection for IMS.

These UTILITY entries should have the following characteristics:

Binder - The highest acceptable return code from the binder for APPLY processing is 0 and for ACCEPT processing is 4. Separate SMP/E OPTIONS entries are needed to point to these different SMP/E UTILITY entries.

Assembler - The assembler utility should contain the following entry:

```
PARM(NOOBJECT,DECK,SIZE(MAX,ABOVE),FLAG(NOPUSH),COMPAT(NOCASE))
```

Tip: IMS requires the NODBCS setting for assemblies. If the assembler is installed to use double-byte character set (DBCS) as the default, the NODBCS parameter must be specified in the SMP/E UTILITY entry.

Edit and submit sample job DFSALB to initialize SMP/E zones for IMS V13.01.00. 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 V13.01.00 as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the IMS V13.01.00 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 DFSRECV1 to perform the SMP/E RECEIVE for the System Services FMID for IMS V13.01.00. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will get a condition code of 0 if the job runs correctly.

You can also choose to edit and submit sample job DFSRECV2 to perform the SMP/E RECEIVE for the IRLM FMID for IMS V13.01.00. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will get a condition code of 0 if the job runs correctly.

You can also choose to edit and submit sample job DFSRECV3 to perform the SMP/E RECEIVE for the Database Manager FMID for IMS V13.01.00. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will get a condition code of 0 if the job runs correctly.

You can also choose to edit and submit sample job DFSRECV4 to perform the SMP/E RECEIVE for the Transaction Manager FMID for IMS V13.01.00. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will get a condition code of 0 if the job runs correctly.

You can also choose to edit and submit sample job DFSRECV5 to perform the SMP/E RECEIVE for the Extended Terminal Option FMID for IMS V13.01.00. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will get a condition code of 0 if the job runs correctly.

You can also choose to edit and submit sample job DFSRECV6 to perform the SMP/E RECEIVE for the Recovery Level Tracking FMID for IMS V13.01.00. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will get a condition code of 0 if the job runs correctly.

You can also choose to edit and submit sample job DFSRECV7 to perform the SMP/E RECEIVE for the DB Level Tracking FMID for IMS V13.01.00. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will get a condition code of 0 if the job runs correctly.

You can also choose to edit and submit sample job DFSRECV8 to perform the SMP/E RECEIVE for the Java On Demand FMID for IMS V13.01.00. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will get a condition code of 0 if the job runs correctly.

6.1.8 Allocate, create and mount zFS Files (Optional)

If you are allocating a new zFS data set for this install, edit, and submit sample job DFSZFSA to allocate, format and mount a zFS file system for the Java On Demand feature.

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 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job DFSALLOC to allocate the SMP/E target and distribution libraries for IMS V13.01.00. 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 Allocate File System Paths

The target system HFS or zFS data set must be mounted on the driving system when running the sample DFSJSMKD job since the job will create paths in the HFS or zFS file system for the IMS Java On Demand feature.

Before running the sample job to create the paths in the file system, you must ensure that OMVS is active on the driving system and that the target system's HFS or zFS file system is mounted to the driving system. zFS must be active on the driving system if you are installing IMS Java On Demand feature into a file system that is zFS.

If you plan to install the IMS Java On Demand feature into a new file system, create the mountpoint and mount the new file system to the driving system.

For the IMS Java On Demand feature, the recommended mountpoint is: `/usr/lpp/ims/ims13`.

Edit and submit sample job DFSJSMKD to allocate the file paths system for IMS V13.01.00. Consult the instructions in the sample job for more information.

If you create a new file system for this product, 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: You will receive a **return code of 0** if this job runs correctly.

6.1.11 Create DDDEF Entries

Edit and submit sample job DFSDDEF1 to create DDDEF entries for the SMP/E target and distribution libraries for IMS V13.01.00. 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.

6.1.12 Create DDDEF Entries for the IMS Java On Demand feature

If you are installing the IMS Java On Demand feature, edit and submit sample job DFSDDEF2 to create DDDEF entries for the SMP/E target and distribution libraries. 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.

6.1.13 Perform SMP/E APPLY

1. Ensure that you have the latest HOLDDATA; then edit and submit sample job DFSAPPLY to perform an SMP/E APPLY CHECK for IMS V13.01.00. 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 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)) .
```

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: You will receive a return code of 4 if this job runs correctly. The following messages can be ignored: GIM43401W, GIM44402W, and GIM61903W.

Note: All 'NOT SEL' messages in the ELEMENT SUMMARY REPORT are expected and can be ignored.

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: You will receive a return code of 4 if this job runs correctly. The following messages can be ignored: GIM43401W, GIM44402W, and GIM61903W.

Note: All 'NOT SEL' messages in the ELEMENT SUMMARY REPORT are expected and can be ignored.

If PTFs containing SYSTEM HOLDDATA are being applied, SMP/E APPLY processing will indicate the subject HOLDDATA is bypassed, resulting in a return code of 4 from the APPLY step. These messages do not affect the success of the APPLY step and can be ignored, however, you must take any action described by the HOLDDATA.

Note: The processing of applying IMS Java On Demand feature, FMID JMK1306, will automatically invoke UNIX shell scripts (SHELLSCRs) that will issue commands as required.

6.1.14 Perform SMP/E ACCEPT

If you ever want to re-build the target environment from the distribution environment, using GENERATE processing, you MUST set the ACCJCLIN indicator in the Distribution Zone before running the ACCEPT (see 6.1.6, "Initialize CSI zones (Optional)" on page 34 for more information).

1. Edit and submit sample job DFSACCEP to perform an SMP/E ACCEPT CHECK for IMS V13.01.00. Consult the instructions in the sample job for more information.

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

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

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

2. 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 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.

The following message can be ignored: GIM61903W.

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

If no PTFs are being accepted and if this job runs correctly, you will receive a **return code of 0**. If PTFs are being accepted and if this job runs correctly, you will receive a **return code of 4**.

The following message can be ignored: GIM61903W.

6.1.15 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 V13.01.00, 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.

6.1.16 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.

- ADFSJDC8
- ADFSJDOC
- ADFSJHF8
- ADFSJIVP
- ADFSJTOL
- ADFSJXQY
- AHWSBASE
- AHWSCLST
- AHWSLOAD
- AHWSMAC
- AHWSPLIB
- AHWSSMPL
- AHWSSRC
- AHWSTLIB
- AICOBIN
- AICOCCF
- AICOJ2C
- AICORDME
- AICOTXT
- SDFSJDC8
- SDFSJHF8
- SDFSJHF9
- SDFSJJCL
- SDFSJLB9
- SHWSBASE
- SHWSCLST
- SHWSMAC
- SHWSPLIB

- SHWSRESL
- SHWSSMPL
- SHWSSRC
- SHWSTLIB

The following file system paths, which were created and used by previous releases of this product, 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/ims/ico101/
- /usr/lpp/ims/ico101/IBM
- /usr/lpp/ims/ico101/V1011
- /usr/lpp/ims/ico101/V1020
- /usr/lpp/ims/ico101/V1021
- /usr/lpp/ims/ico101/V1030
- /usr/lpp/ims/ico101/V1031
- /usr/lpp/ims/ico101/V1032
- /usr/lpp/ims/ico101/V1033
- /usr/lpp/ims/ico101/V1040
- /usr/lpp/ims/ico101/V1041
- /usr/lpp/ims/ims10
- /usr/lpp/ims/ims10/imsjava
- /usr/lpp/ims/ims10/imsjava/IBM
- /usr/lpp/ims/ims10/imsjava/lib
- /usr/lpp/ims/ims10/imsjava/rar
- /usr/lpp/ims/ims10/imsjava/rar/IBM
- /usr/lpp/ims/imsjava10
- /usr/lpp/ims/imsjava10/IBM
- /usr/lpp/ims/imsjava10/cics
- /usr/lpp/ims/imsjava10/cics/IBM
- /usr/lpp/ims/imsjava10/dlimodel/
- /usr/lpp/ims/imsjava10/dlimodel/IBM
- /usr/lpp/ims/imsjava10/samples
- /usr/lpp/ims/imsjava10/samples/IBM

- /usr/lpp/ims/ims11/ico/IBM/
- /usr/lpp/ims/ims11/imsjava/IBM/
- /usr/lpp/ims/ims11/imsjava/rar/IBM/
- /usr/lpp/ims/ims11/imsjava/classic/cics/IBM/
- /usr/lpp/ims/ims11/imsjava/classic/IBM/
- /usr/lpp/ims/ims11/imsjava/classic/dlimodel/IBM/
- /usr/lpp/ims/ims11/imsjava/ivp/IBM/
- /usr/lpp/ims/ims11/imsjava/classic/ivp/IBM/
- /usr/lpp/ims/ims11/hws/IBM/
- /usr/lpp/ims/ims11/iog/IBM/
- /usr/lpp/ims/ims12/ico/IBM/
- /usr/lpp/ims/ims12/imsjava/IBM/
- /usr/lpp/ims/ims12/imsjava/rar/IBM/
- /usr/lpp/ims/ims12/imsjava/classic/cics/IBM/
- /usr/lpp/ims/ims12/imsjava/classic/IBM/
- /usr/lpp/ims/ims12/imsjava/ivp/IBM/
- /usr/lpp/ims/ims12/imsjava/classic/ivp/IBM/

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.

- ADFSJDC8
- ADFSJDOC
- ADFSJHF8
- ADFSJHF9
- ADFSJIVP
- ADFSJLB9
- ADFSJTOL
- ADFSJXQY
- AHWSBASE
- AHWSCLST
- AHWSLOAD
- AHWSMAC

- AHWSP LIB
- AHWSSMPL
- AHWSTLIB
- SDFSJDC8
- SDFSJDOC
- SDFSJHF9
- SDFSJIVP
- SDFSJJCL
- SDFSJLB9
- SHWSBASE
- SHWSCLST
- SHWSMAC
- SHWSPLIB
- SHWSRESL
- SHWSSMPL
- SHWSTLIB

6.2 Activating IMS V13.01.00

6.2.1 File System Execution

The information in the USS file system on z/OS from the installation must be available to the execution environment.

6.2.2 Running the IMS Installation Verification Program (IVP) Dialog

The IVP Dialog:

- Contains step-by-step procedures to complete the activation, customization, and testing for the sample IMS system.
- Is documented in *IMS Version 13 Installation*, GC19-3656.
- Should be used to complete and verify the implementation and testing of IMS V13.01.00.
- Is an excellent educational tool for learning how to install and customize IMS.

7.0 Notices

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Reader's Comments

Program Directory for IMS Transaction and Database Servers, V13.01.00, October 2013

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