IBM

Program Directory for

Information Management System

Database Value Unit Edition

(IMS DB VUE)

V13.01.00

Program Number 5655-DSM

for Use with
z/OS
on System z New Application License Charges (zNALC)

Service Updated 26 August 2013

Document Date: October 2013

> **Note**
>
> Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 44.

Contents

Figures

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 Database Value Unit Edition, V13.01.00. This publication refers to IMS Database Value Unit Edition, V13.01.00 as IMS DB VUE, V13.01.00.

The Program Directory contains the following sections:

- 2.0, "Program Materials" on page 4 identifies the basic and optional program materials and documentation for IMS DB VUE, V13.01.00.

- 3.0, "Program Support" on page 10 describes the IBM support available for IMS DB VUE, V13.01.00.

- 4.0, "Program and Service Level Information" on page 12 points to the information that contains the APARs (program level) and PTFs (service level) that have been incorporated into IMS DB VUE, V13.01.00.

- 5.0, "Installation Requirements and Considerations" on page 13 identifies the resources and considerations that are required for installing and using IMS DB VUE, V13.01.00.

- 6.0, "Installation Instructions" on page 28 provides detailed installation instructions for IMS DB VUE, V13.01.00. It also describes the procedures for activating the functions of IMS DB VUE, V13.01.00, or refers to appropriate publications.

Before installing IMS DB VUE, 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 10 tells you how to find any updates to the information and procedures in this Program Directory.

IMS DB VUE, 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 DB VUE, V13.01.00 are included on the CBPDO tape.

Do not use this program directory if you install IMS DB VUE, 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

1.1 IMS DB VUE, V13.01.00 Description

IBM IMS DATABASE VALUE UNIT EDITION, V13 (5655-DSM) delivers an OTC price metric for a database product offering based on IBM IMS V13.

IMS clients on IBM System z are facing the following challenges:

- Significant workload growth through the rapid and pervasive adoption of smartphones, tablets, and devices worldwide

- New ways to manage the cost of this growth

- Comprehensive business analytics results that include IMS operational data

- Identification of Java as a strategic language and implementation of new production-level Java applications that access IMS data using SQL

As these trends continue to accelerate, more mobile devices drive more transactions. More transactions drive the need not only for analytics that will inform business decisions, but also for applications built to deliver on those decisions.

IBM supports mobile applications that interact with transactional and data services through the use of lightweight data-interchange format JavaScript Object Notation (JSON). This support, plus the revolutionary IMS open access capabilities, prompted IBM to offer attractive OTC pricing for new qualified IMS workloads on zNALC LPARs.

To learn more about IMS products, visit www.ibm.com/ims.

1.2 IMS DB VUE, V13.01.00 FMIDs

IMS DB VUE, V13.01.00 consists of the following FMIDs:

HMK1300 (System Services)
JMK1301 (Database Manager)
JMK1306 (Java On Demand feature)
JMK131Z (Value Unit Edition, exclusive to 5655-DSM, IMS DB VUE, V13.1)
HIR2230 (IRLM V2 R3)

Figure 1 (Page 1 of 2). FMIDs for IMS DB VUE, V13.01.00		
FMID and Description	**DB Batch**	**DBCTL**
HMK1300 (System Services)	R	R
JMK1301 (Database Manager)	R	R

Figure 1 (Page 2 of 2). FMIDs for IMS DB VUE, V13.01.00		
FMID and Description	**DB Batch**	**DBCTL**
JMK1306 (Java On Demand feature)	N	O
JMK131Z (Value Unit Edition)	R	R
HIR2230/1239 (IRLM V2 R3)	O	O

Where:

R   FMID installation is required.

O   FMID installation is optional.

N   The FMID is not applicable to this environment.

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 DB VUE, V13.01.00 is 5655-DSM.

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 DB VUE, 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 28 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 DB VUE, V13.01.00 in the *CBPDO Memo To Users Extension*.

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

- Figure 2 on page 4
- Figure 3 on page 5
- Figure 4 on page 6
- Figure 5 on page 6
- Figure 6 on page 6

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 4 on page 6), ensure that SMPTLIB data sets are allocated as PDSEs.

Figure 2. Program File Content for HMK1300 - IMS V13 System Services				
Name	**ORG**	**RECFM**	**LRECL**	**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	**ORG**	**RECFM**	**LRECL**	**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 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 5. Program File Content for JMK131Z - IMS DB VUE, V13.01.00 Value Unit Edition				
Name	**O R G**	**R E C F M**	**L R E C L**	**BLK SIZE**
SMPMCS	SEQ	FB	80	6400
IBM.JMK131Z.F1	PDS	FB	80	8800
IBM.JMK131Z.F2	PDS	FB	80	8800
IBM.JMK131Z.F3	PDS	FB	80	8800
IBM.JMK131Z.F4	PDS	FB	80	8800
IBM.JMK131Z.F5	PDS	U	0	6144

Figure 6 (Page 1 of 2). 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

Figure 6 (Page 2 of 2). Program File Content for HIR2230 - IRLM 2.3				
Name	**O R G**	**R E C F M**	**L R E C L**	**BLK SIZE**
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 DB VUE, V13.01.00.

2.3 Program Publications

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

All the publications for IMS DB VUE, V13.01.00 are unlicensed.

2.3.1 Basic Program Publications

Figure 7 identifies the basic unlicensed program publications for IMS DB VUE, V13.01.00. One copy of each of these publications is included when you order the basic materials for IMS DB VUE, 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.

Figure 7. Basic Material: Unlicensed Publications	
Publication Title	**Form Number**
IMS Version 13 License Information	GC19-4113
Progam Directory for Information Management System Database Value Unit Edition (IMS DB VUE) V13.01.00	GI10-8966
IMS V13R1 Product Kit (CDROM)	SK5T-8864

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

2.3.2 Optional Program Publications

Figure 8 on page 8 identifies the optional unlicensed program publications for IMS DB VUE, 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 DB VUE, 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

Figure 8. Optional Material: Unlicensed Publications	
Publication Title	**Form Number**
IMS Version 13 Application Programming	SC19-3646
IMS Version 13 Application Programming APIs	SC19-3647
IMS Version 13 Command Reference, Volume 1: IMS Commands A-M	SC19-3648
IMS Version 13 Command Reference, Volume 2: IMS Commands N-V	SC19-3649
IMS Version 13 Command Reference, Volume 3: IMS Component and z/OS Commands	SC19-3650
IMS Version 13 Communications and Connections	SC19-3651
IMS Version 13 Database Administration	SC19-3652
IMS Version 13 Database Utilities	SC19-3653
IMS Version 13 Diagnosis	GC19-3654
IMS Version 13 Exit Routines	SC19-3655
IMS Version 13 Installation	GC19-3656
IMS Version 13 Product Kit (CD-ROM)	SK5T-8864
IMS Version 13 License Information	GC19-4113
IMS Version 13 Messages and Codes Reference, Volume 1: DFS Messages	GC18-9712
IMS Version 13 Messages and Codes Reference, Volume 2: Non-DFS Messages	GC18-9713
IMS Version 13 Messages and Codes Reference, Volume 3: IMS Abend Codes	GC18-9714
IMS Version 13 Messages and Codes Reference, Volume 4: IMS Component Codes	GC18-9715
IMS Version 13 Operations and Automation	SC19-3657
IMS Version 13 Release Planning	GC19-3658
IMS Version 13 System Administration	SC19-3659
IMS Version 13 System Definition	GC19-3660
IMS Version 13 System Programming APIs	SC19-3661
IMS Version 13 System Utilities	SC19-3662
IRLM Messages and Codes for IMS and DB2 for z/OS	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 9 during the installation of IMS DB VUE, V13.01.00.

Figure 9. Publications Useful During Installation	
Publication Title	**Form Number**
IBM SMP/E for z/OS User's Guide	SA22-7773
IBM SMP/E for z/OS Commands	SA22-7771
IBM SMP/E for z/OS Reference	SA22-7772
IBM SMP/E for z/OS Messages, Codes, and Diagnosis	GA22-7770

3.0 Program Support

This section describes the IBM support available for IMS DB VUE, 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 DB VUE, 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 DB VUE, V13.01.00 PSP bucket names are listed in Figure 10.

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 35 for a sample APPLY command

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

If the CBPDO for IMS DB VUE, 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 DB VUE, V13.01.00 are included in Figure 10.

Figure 10 (Page 1 of 2). PSP Upgrade and Subset ID		
UPGRADE	**SUBSET**	**Description**
IMS1300	HMK1300/GA	IMS DB VUE, V13.01.00 System Services
IMS1300	JMK1301/GA	IMS DB VUE, V13.01.00 Database Manager
IMS1300	JMK1306/GA	IMS DB VUE, V13.01.00 Java On Demand feature

Figure 10 (Page 2 of 2). PSP Upgrade and Subset ID		
UPGRADE	**SUBSET**	**Description**
IMS1300	JMK131Z/GA	IMS DB VUE, V13.01.00 Value Unit Edition
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 11 identifies the component IDs (COMPID) for IMS DB VUE, V13.01.00.

Figure 11. Component IDs			
FMID	**COMPID**	**Component Name**	**RETAIN Release**
HMK1300	5635A0400	System Services	300
JMK1301	5635A0400	Database Manager	301
JMK1306	5635A0400	IMS Java On Demand feature	306
JMK131Z	5635A0400	Value Unit Edition	31Z
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 DB VUE, 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 DB VUE, V13.01.00 APAR information.

4.2 Service Level Information

PTFs containing APAR fixes against this release of IMS DB VUE, 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 DB VUE, 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-REQUIREDSERVICE)** 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 DB VUE, 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 DB VUE, V13.01.00.

5.1.1 Machine Requirements

Although the driving system can run in any hardware environment that supports the required software, IMS DB VUE, 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 12. 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 DB VUE, V13.01.00.

IMS DB VUE, 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 DB VUE, 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).

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 DB VUE, 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 DB VUE, 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 13. 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 on zNALC with APARs/PTFs OA36172/UA61786 and OA39392/UA66823 installed
5650-ZOS	z/OS V02.01.00 or higher on zNALC.

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 14 (Page 1 of 6). Target System Conditional Operational Requisites		
Program Number	**Product Name and Minimum VRM/Service Level**	**Function**
5655-DSM	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.
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 *IMS Version 13 Release Planning*, 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 *IMS Version 13 Release Planning*, 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:		

Program Number	Product Name and Minimum VRM/Service Level	Function
Figure 14 (Page 2 of 6). Target System Conditional Operational Requisites		
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:		
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 Edtion (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 Edtion (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:		

Program Number	Product Name and Minimum VRM/Service Level	Function
Figure 14 (Page 3 of 6). Target System Conditional Operational Requisites		
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.
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.

Figure 14 (Page 4 of 6). Target System Conditional Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
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.
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.

Figure 14 (Page 5 of 6). Target System Conditional Operational Requisites		
Program Number	**Product Name and Minimum VRM/Service Level**	**Function**
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.
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 DB VUE, V13.01.00 connection to DB2 using subsystem routine communication.
5635-P12	DB2 for z/OS Value Unit Edition, V09.01.00	IMS DB VUE, V13.01.00 connection to DB2 using subsystem routine communication.
5605-DB2	DB2 for z/OS, V10.01.00	IMS DB VUE, V13.01.00 connection to DB2 using subsystem routine communication.
5635-P31	DB2 for z/OS Value Unit Edition, V10.01.00	IMS DB VUE, V13.01.00 connection to DB2 using subsystem routine communication.
5615-DB2	DB2 for z/OS, V11.01.00	IMS DB VUE, V13.01.00 connection to DB2 using subsystem routine communication.
5697-P43	DB2 for z/OS Value Unit Edition, V11.01.00	IMS DB VUE, V13.01.00 connection to DB2 using subsystem routine communication.
Any of the following is for SPEs used for DBRC Migration/Coexistence:		

Figure 14 (Page 6 of 6). Target System Conditional Operational Requisites		
Program Number	**Product Name and Minimum VRM/Service Level**	**Function**
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
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 DB VUE, 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 DB VUE, V13.01.00 has no negative requisites.

5.2.3 DASD Storage Requirements

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

Figure 15 on page 22 lists the total space that is required for each type of library.

Figure 15. Total DASD Space Required by IMS DB VUE, 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 34.

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 LNKLST.
- SDFSRESL, SDFSJLIB, and SDXRRESL require APF authorization.
- IMS DB VUE, 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 DB VUE, V13.01.00. The storage requirements of IMS DB VUE, 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 16 (Page 1 of 2). Storage Requirements for IMS DB VUE, V13.01.00 Target Libraries

Library DDNAME	Member Type	Target Volume	TYPE	ORG	RECFM	LRECL	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
SDFSEXEC	EXEC	Any	U	PDS	FB	80	135	15
SDFSRTRM	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

Figure 16 (Page 2 of 2). Storage Requirements for IMS DB VUE, V13.01.00 Target Libraries								
Library DDNAME	Member Type	Target Volume	TYPE	ORG	RECFM	LRECL	No. of 3390 Trks	No. of DIR Blks
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
SDFSDATA	Data	Any	U	PDS	FB	80	23	3
SDFSSRC	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 17. IMS DB VUE, V13.01.00 File System Paths		
DDNAME	TYPE	Path Name
SDFSIC4J	N	/usr/lpp/ims/ims13/ico/IBM
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 18 (Page 1 of 2). Storage Requirements for IMS DB VUE, V13.01.00 Distribution Libraries							
Library DDNAME		TYPE	ORG	RECFM	LRECL	No. of 3390 Trks	No. of DIR Blks
ADFSLOAD		U	PDS	U	0	1660	1050

Library DDNAME	TYPE	ORG	RECFM	LRECL	No. of 3390 Trks	No. of DIR Blks
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
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

Figure 18 (Page 2 of 2). Storage Requirements for IMS DB VUE, V13.01.00 Distribution Libraries

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

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
Figure 19. Storage Requirements for IMS DB VUE, V13.01.00 Non-SMP/E Data Sets						
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 DB VUE, 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 DB VUE, 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 DB VUE, 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 DB VUE, V13.01.00).

Recommendation: IMS DB VUE, V13.01.00 is the last version of IMS that will suport 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 DB VUE, V13.01.00.

Please note the following points:

- Read the PSP information at 3.2, "Preventive Service Planning" on page 10 before attempting to install IMS DB VUE, V13.01.00.

- If you want to install IMS DB VUE, V13.01.00 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. The installation and activation of IMS DB VUE, V13.01.00 consists of the following steps:

  1. The installation is accomplished by running the sample jobs that are shown in Figure 21 on page 29.

  2. 6.2, "Activating IMS DB VUE, V13.01.00" on page 42 refers to the instructions necessary to activate IMS DB VUE, V13.01.00.

6.1 Installing IMS DB VUE, V13.01.00

6.1.1 SMP/E Considerations for Installing IMS DB VUE, V13.01.00

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of IMS DB VUE, 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 20. 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 20. SMP/E Options Subentry Values		
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 DB VUE, V13.01.00 uses the CALLLIBS function provided in SMP/E to resolve external references during installation. When IMS DB VUE, 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 DB VUE, V13.01.00. These data sets are not updated during the installation of IMS DB VUE, 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 DB VUE, V13.01.00:

Figure 21 (Page 1 of 2). Sample Installation Jobs			
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
DFSRECV8	SMP/E	Sample RECEIVE job for Java On Demand	IBM.HMK1300.F2
DFSDRECV	SMP/E	Sample RECEIVE job for Value Unit Edition	IBM.JMK131Z.F1
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
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

Job Name	Job Type	Description	RELFILE
		Figure 21 (Page 2 of 2). Sample Installation Jobs	
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
DFSDAPLY	APPLY	Sample APPLY job for IMS Value Unit Edition	IBM.JMK131Z.F1
DFSACCEP	ACCEPT	Sample ACCEPT job	IBM.HMK1300.F2
DFSDACEP	ACCEPT	Sample ACCEPT job for IMS Value Unit Edition	IBM.JMK131Z.F1

You can access the sample installation jobs by performing an SMP/E RECEIVE (refer to 6.1.7, "Perform SMP/E RECEIVE" on page 33) then copy the jobs from the RELFILES to a work data set for editing and submission. See Figure 21 on page 29 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
/*
//STEP2    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.JMK131Z.F1,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.JMK131Z.F1,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
/*f
```

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 and
   IBM.JMK131Z.F1 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 DB VUE, 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 II13024, 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 that 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 DB VUE, 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 DB VUE, V13.01.00 as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the IMS DB VUE, 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 DB VUE, 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 DB VUE, 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 DB VUE, 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 DB VUE, 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 DFSDRECV to perform the SMP/E RECEIVE for the Value Unit Edition FMID for IMS DB VUE, 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 DFSZFSAL 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 DB VUE, 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 DB VUE, 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 DB VUE, 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 DB VUE, 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 resove 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.

3. Upon successful APPLY from job DFSAPPLY, edit and submit sample job DFSDAPLY to perform an SMP/E APPLY CHECK for IMS Value Unit Edition, FMID JMK131Z. Consult the instructions in the sample job for more information.

   Expected Return Codes and Messages from APPLY CHECK: You will receive a return code of 4 if this job runs correctly. The following message can be ignored: GIM43401W.

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

4. After you have taken any actions indicated by the APPLY CHECK, remove the CHECK operand and run DFSDAPLY again to perform the APPLY.

   Expected Return Codes and Messages from APPLY: You will receive a return code of 4 if this job runs correctly. The following message can be ignored: GIM43401W.

   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.

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 32 for more information).

1. Edit and submit sample job DFSACCEP to perform an SMP/E ACCEPT CHECK for IMS DB VUE, 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.

3. Edit and submit sample job DFSDACEP to perform an SMP/E ACCEPT CHECK for IMS Value Unit Edition, FMID JMK131Z. Consult the instructions in the sample job for more information.

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

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

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

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 DB VUE, 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

- AHWSPLIB

- AHWSSMPL

- AHWSTLIB

- SDFSJDC8

- SDFSJDOC

- SDFSJHF9

- SDFSJIVP

- SDFSJJCL

- SDFSJLB9

- SHWSBASE

- SHWSCLST

- SHWSMAC

- SHWSPLIB

- SHWSRESL

- SHWSSMPL

- SHWSTLIB

6.2 Activating IMS DB VUE, 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 Enabling Value Unit Edition (VUE)

To enable the VUE feature of IMS DB VUE, V13.01.00, you must install FMID JMK131Z in the SMP/e libraries used by the IMS subsystem that will operate under the terms of the IMS DB VUE, V13.01.00 license. FMID JMK131Z adds SMP/e jobs, special ISPF panels, and an activation CLIST that enables you to indicate whether a particular IMS subsystem is to operate under the terms of the IMS DB VUE, V13.01.00 license.

Note that IMS DB VUE, V13.01.00 will operate only on a zNALC z/OS operating system. Any Logical Partition (LPAR) that is designated as a zNALC LPAR must identify itself in one of two ways:

- By using the naming convention "ZNALxxxx" where xxxx may be any letters or numbers

- By using the "LICENSE=ZNALC" IPL parameter.

To enable the IMS DB VUE, V13.01.00, complete the following steps:

1. Open an ISPF application dialog

2. Issue the following TSO EXEC command in the ISPF panel, option 6:

```
EXEC 'qqq.SDFSCLST(DFSVUEDB)' 'HLQ(qqq)'
```

qqq is the high-level qualifier for the target libaries.

The pop-up panel DFSVUEP1 is displayed, to indicate whether the OTC (one-time-charge) license will be used to operate the subsystem you are installing, migrating, or updating.

3. Specify Yes (2) on the pop-up panel. Panel DFSVUEP2 (Notice and acceptance of the OTC license) is displayed so that you can review the terms of the license.

4. Use the ISFP Down and Up keys to scroll the license terms. You must confirm that you will abide by the terms of the license before you can proceed.

   - If you do not agree to the terms of the license, exit the panels.

   - If you agree to the terms of the license, enter YES in the LICENSE TERMS ACCEPTED field, and press the Enter key to continue.

An ISPF panel will be presented with job DFSDBVUE in qqq.INSTALIB. This job contains instructions for its customization and must be run. Job DFSDBVUE will both create load module DFSVUDB0 in qqq.SDFSRESL and run the SMP/e JCLIN command for load module DFSVUDB0. Module DFSVUDB0 is required to enable the OTC license that allows the IMS DB VUE, V13.01.00 subsystem to execute in a z/OS zNALC environment.

If you want to discontinue using the IMS DB VUE, V13.01.00 license, or if you no longer agree to the terms, you must remove module DFSVUDB0 from the IMS execution library qqq.SDFSRESL, and then stop and restart the IMS subsystem in order for the change to take effect.

6.2.3 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 DB VUE, V13.01.00.

- Is an excellent educational tool for learning how to install and customize IMS.

7.0 Notices

References in this document to IBM products, programs, or services do not imply that IBM intends to make these available in all countries in which IBM operates. Any reference to an IBM product, program, or service is not intended to state or imply that only IBM's product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe on any of IBM's intellectual property rights may be used instead of the IBM product, program, or service. Evaluation and verification of operation in conjunction with other products, except those expressly designated by IBM, is the user's responsibility.

APAR numbers are provided in this document to assist in locating PTFs that may be required. Ongoing problem reporting may result in additional APARs being created. Therefore, the APAR lists in this document may not be complete. To obtain current service recommendations and to identify current product service requirements, always contact the IBM Customer Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

IBM may have patents or pending patent applications covering subject matter in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to the

> IBM Director of Licensing
> IBM Corporation
> North Castle Drive
> Armonk, New York 10504-1785
> USA

For online versions of this book, we authorize you to:

- Copy, modify, and print the documentation contained on the media, for use within your enterprise, provided you reproduce the copyright notice, all warning statements, and other required statements on each copy or partial copy.

- Transfer the original unaltered copy of the documentation when you transfer the related IBM product (which may be either machines you own, or programs, if the program's license terms permit a transfer). You must, at the same time, destroy all other copies of the documentation.

You are responsible for payment of any taxes, including personal property taxes, resulting from this authorization.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Some jurisdictions do not allow the exclusion of implied warranties, so the above exclusion may not apply to you.

Your failure to comply with the terms above terminates this authorization. Upon termination, you must destroy your machine readable documentation.

7.1 Trademarks

IBM, the IBM logo, ibm.com, and IMS are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both. If these and other IBM trademarked terms are marked on their first occurrence in this information with a trademark symbol (® or ™), these symbols indicate U.S. registered or common law trademarks owned by IBM at the time this information was published. Such trademarks may also be registered or common law trademarks in other countries. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at www.ibm.com/legal/copytrade.shtml.

The following terms are trademarks of other companies as follows:

Java   Oracle
Java Virtual Machine   Oracle
JDBC   Oracle

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

Microsoft, Windows, Windows NT, the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Note: COBOL is used to represent the IBM COBOL language.

Reader's Comments

Program Directory for IMS Database Value Unit Edition, V13.01.00, October 2013

We appreciate your input on this publication. Feel free to comment on the clarity, accuracy, and completeness of the information or give us any other feedback that you might have.

Use one of the following methods to send us your comments:

1. Send an email to comments@us.ibm.com

2. Use the form on the Web at:

   www.ibm.com/software/ad/rcf/

When you send information to IBM, you grant IBM a nonexclusive right to use or distribute the information in any way it believes appropriate without incurring any obligation to you.

IBM or any other organizations will only use the personal information that you supply to contact you about the issues that you submit.

Thank you for your participation.

IBM ®

Printed in U.S.A.