



Program Directory for IBM Migration Utility

V03.02.00

Program Number 5697-N44

FMID HMGU320

for Use with
z/OS
OS/390

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GI10-3374-01

Note!

Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 18.

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1.0 Introduction

This Program Directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of IBM Migration Utility. This publication refers to IBM Migration Utility as IMU.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 3 identifies the basic and optional program materials and documentation for IMU.
- 3.0, “Program Support” on page 5 describes the IBM support available for IMU.
- 4.0, “Program and Service Level Information” on page 6 lists the APARs (program level) and PTFs (service level) incorporated into IMU.
- 5.0, “Installation Requirements and Considerations” on page 7 identifies the resources and considerations required for installing and using IMU.
- 6.0, “Installation Instructions” on page 13 provides detailed installation instructions for IMU. It also describes the procedures for activating the functions of IMU, or refers to appropriate publications.

Before installing IMU, read the *CBPDO Memo To Users* and the *CBPDO Memo To Users Extension* that were supplied with this program in softcopy form as well as this Program Directory and then keep them for future reference. Section 3.2, “Preventive Service Planning” on page 5 tells you how to find any updates to the information and procedures in this Program Directory.

IMU is supplied in a Custom-Built Product Delivery Offering (CBPDO, 5751-CS3). The Program Directory is provided in softcopy form on the CBPDO tape which is identical to the hardcopy form provided with your order. All service and HOLDDATA for IMU are included on the CBPDO tape.

Do not use this Program Directory if you are installing IMU with a SystemPac or ServerPac. When using these offerings, use the jobs and documentation supplied with the offering. This documentation may point you to specific sections of the Program Directory as required.

1.1 IMU Description

The IBM Migration Utility for z/OS and OS/390 enables customers to create reports using the language of CA-Easytrieve Plus from Computer Associates without the need for CA-Easytrieve Plus to be installed, by creating IBM COBOL applications in place of the Easytrieve run-time interpreter.

1.2 IMU FMID

IMU consists of the following FMID:

HMGU320

2.0 Program Materials

An IBM program is identified by a program number. The program number for IMU is 5697-N44.

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 IMU. 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 magnetic tape or downloadable files. It is installed using SMP/E, and is in SMP/E RELFILE format. See 6.0, "Installation Instructions" on page 13 for more information about how to install the program.

Figure 1 describes the program file content for IMU.

Figure 1. Program File Content

Name	O R G	R E C M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	6160
IBM.HMGU320.F1	PDS	FB	80	6160
IBM.HMGU320.F2	PDS	FB	80	6160
IBM.HMGU320.F3	PDS	FB	80	6160
IBM.HMGU320.F4	PDS	VB	256	27998
IBM.HMGU320.F5	PDS	FB	80	6160
IBM.HMGU320.F6	PDS	FB	80	6160
IBM.HMGU320.F7	PDS	FB	80	6160
IBM.HMGU320.F8	PDS	FB	80	6160
IBM.HMGU320.F9	PDS	U	0	6144

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for IMU.

2.3 Program Publications

The following sections identify the basic and optional publications for IMU.

2.3.1 Basic Program Publications

Figure 2 identifies the basic unlicensed program publications for IMU. One copy of each of these publications is included when you order the basic materials for IMU. For additional copies, contact your IBM representative.

<i>Figure 2. Basic Material: Unlicensed Publications</i>	
Publication Title	Form Number
IMU for z/OS License Information	GI11-7912-00
IMU for z/OS Program Directory	GI10-3374-01
IMU for z/OS User's Guide and Reference	SC31-6935-06

2.4 Program Source Materials

No program source materials or viewable program listings are provided for IMU.

2.5 Publications Useful During Installation

The publications listed in Figure 3 may be useful during the installation of IMU. To order copies, contact your IBM representative or visit the IBM Publications Center on the World Wide Web at:
<http://www.ibm.com/shop/publications/order>

<i>Figure 3. 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 IMU.

3.1 Program Services

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

3.2 Preventive Service Planning

Before installing IMU, it is VERY IMPORTANT that you review the current Preventive Service Planning (PSP) information. The PSP buckets maintain current lists (which have been identified since the package was created) of any recommended or required service for this package's installation. This includes software PSP information that contains HIPER, and/or required PTFs against the base release.

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 IMU are:

<i>Figure 4. PSP Upgrade and Subset ID</i>		
UPGRADE	SUBSET	Description
IBMMIGUTIL	HMGU320	IBM Migration Utility

3.3 Statement of Support Procedures

Report any difficulties you have using this program to your IBM Support Center. If an APAR is required, the Support Center will advise how you should submit any needed information or documentation.

Figure 5 identifies the component IDs (COMPID) for IMU.

<i>Figure 5. Component IDs</i>			
FMID	COMPID	Component Name	RETAIN Release
HMGU320	5697N4400	IBM Migration Utility	320

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of IMU. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs incorporated into the program.

4.1 Program Level Information

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

- FMID HMGU320

PK23287
PK28048

PK32286
PK39889

PK47399
PK58489

4.2 Service Level Information

No PTFs against this release of IMU have been incorporated into the product tape.

Over time it is HIGHLY recommended that you frequently check the IMU PSP bucket for HIPER and SPECIAL Attention PTFs against all FMID(s) which should be installed.

5.0 Installation Requirements and Considerations

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

- *Driving system*: the system used to install the program.

The program may have specific operating system or product level requirements for utilizing processes such as binder or assembly utilities during the install.

- *Target system*: the system on which the program is intended to run.

The program may have specific product level requirements such as needing access to another product's library for link-edits that may directly affect the elements during the install or for its basic or enhanced operation. These requirements may be mandatory or optional.

In many cases, the same system can be used as both a driving system and a target system. However, you may want to set up a clone of your system to use as a target system by making a separate IPL-able copy of the running system. The clone should 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.

Some cases where two systems should be used include the following:

- When installing a new level of a product that is already installed, the new product will delete the old one. By installing onto a separate target system, you can test the new product while still keeping the old one in production.
- When installing a product that shares libraries or load modules with other products, the installation can disrupt the other products. Installing onto a test system or clone will allow you to 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 IMU.

5.1.1 Machine Requirements

The driving system can run in any hardware environment that supports the required software.

5.1.2 Programming Requirements

Figure 6 (Page 1 of 2). Driving System Software Requirements

Program Number	Product Name and Minimum VRM/Service Level
Any one of the following:	

Figure 6 (Page 2 of 2). Driving System Software Requirements

Program Number	Product Name and Minimum VRM/Service Level
5694-A01	z/OS V1.08.0 or later
5655-G44	IBM SMP/E for z/OS V3.03.0 or later

5.2 Target System Requirements

This section describes the environment of the target system required to install and use IMU.

IMU installs in the z/OS (Z038) SREL.

5.2.1 Machine Requirements

The target system can run in any hardware environment that supports the required software.

5.2.2 Programming Requirements

5.2.2.1 Installation Requisites

An installation requisite is defined as a product that is required and **must** be present or one that is not required but **should** be present on the system for the successful installation of this product.

A mandatory installation requisite identifies products that are required, without exception, or this product **will not install** on your system. This includes products specified as PREs or REQs.

IMU has no mandatory installation requisites.

A conditional installation requisite identifies products that are **not** required for successful install but may resolve such things as certain warning messages at installation time. They include products that are specified as IF REQs.

IMU has no conditional installation requisites.

5.2.2.2 Operational Requisites

An operational requisite is defined as a product that is required and **must** be present or a product that is not required but **should** be present on the system in order for this product to operate all or some of its functions.

A mandatory operational requisite identifies products that are required, without exception, or this product **will not operate** its basic function unless the requisite is met. This includes products specified as PREs or REQs.

<i>Figure 7. Mandatory Operational Requisites</i>	
Program Number	Product Name and Minimum VRM/Service Level
5694-A01	z/OS V1.09 or later

5.2.2.3 Toleration/Coexistence Requisites

A toleration/coexistence requisite is defined as a product that must be present on a sharing system. 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 at different time intervals.

IMU has no toleration/coexistence requisites.

5.2.2.4 Incompatibility (Negative) Requisites

A negative requisite identifies products that must *not* be installed on the same system as this product.

IMU has no negative requisites.

5.2.3 DASD Storage Requirements

IMU libraries can reside on all supported DASD types.

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

<i>Figure 8. Total DASD Space Required by IMU</i>	
Library Type	Total Space Required in 3390 Trks
Target	322
Distribution	322

Notes:

1. IBM recommends use of system determined block sizes for efficient DASD utilization for all non-RECFM U data sets. For RECFM U data sets, IBM recommends a block size of 32760, which is the most efficient from a performance and DASD utilization perspective.
2. Abbreviations used for the data set type are:
 - U** Unique data set, allocated by this product and used only by this product. To determine the correct storage needed for this data set, this table provides all required information; no other tables (or Program Directories) need to be referenced for the data set size.

- S** Shared data set, allocated by this product and used by this product and others. To determine the correct storage needed for this data set, the storage size given in this table needs to be added to 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 others. This data set is NOT allocated by this product. To determine the correct storage needed for this data set, the storage size given in this table needs to be added to other tables (perhaps in other program directories). This existing data set 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 one and reclaim the space used by the old release and any service that had been installed. You can determine whether or not 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 on the names and sizes of the required data sets, please refer to 6.1.5, "Allocate SMP/E Target and Distribution Libraries" on page 15.

3. All target and distribution libraries listed have the following attributes:
 - The default name of the data set may be changed.
 - The default block size of the data set may be changed.
 - The data set may be merged with another data set that has equivalent characteristics.
 - The data set may be either a PDS or a PDSE.
4. All target libraries listed have the following attributes:
 - The data set may be SMS-managed.
 - It is not required for the data set to be SMS-managed.
 - It is not required for the data set to reside on the IPL volume.
 - The values in the "Member Type" column are not necessarily the actual SMP/E element types identified in the SMPMCS.
5. All target libraries listed which contain load modules have the following attributes:
 - The data set may be in the LPA.
 - It is not required for the data set to be in the LPA.
 - The data set may be in the LNKLIST.
 - It is not required for the data set to be APF-authorized.

The following figures describe the target and distribution libraries and HFS or zFS paths required to install IMU. The storage requirements of IMU must be added to the storage required by other programs having data in the same library or path.

Note: The data in these tables should be used when determining 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 9. Storage Requirements for IMU Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SFSYINST	Sample	Any	U	PDS	FB	80	3	4
SFSYCCLC	Data	Any	U	PDS	FB	80	3	5
SFSYCCLM	Macro	Any	U	PDS	FB	80	26	10
SFSYDOCS	Data	Any	U	PDS	VB	256	6	7
SFSYEZTC	Data	Any	U	PDS	FB	80	4	6
SFSYEZTS	Sample	Any	U	PDS	FB	80	17	10
SFSYFJCC	Macro	Any	U	PDS	FB	80	134	20
SFSYJCLS	Sample	Any	U	PDS	FB	80	34	60
SFSYLOAD	LMOD	Any	U	PDS	U	0	95	40

Figure 10. Storage Requirements for IMU 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
AFSYINST	U	PDS	FB	80	3	4
AFSYCCLC	U	PDS	FB	80	3	5
AFSYCCLM	U	PDS	FB	80	26	10
AFSYDOCS	U	PDS	VB	256	6	7
AFSYEZTC	U	PDS	FB	80	4	6
AFSYEZTS	U	PDS	FB	80	17	10
AFSYFJCC	U	PDS	FB	80	134	20
AFSYJCLS	U	PDS	FB	80	34	60
AFSYLOAD	U	PDS	U	0	95	40

5.3 FMIDs Deleted

Installing IMU may result in the deletion of other FMIDs. To see what FMIDs will be deleted, examine the ++VER statement in the product's SMPMCS.

If you do not wish to delete these FMIDs at this time, you must install IMU into separate SMP/E target and distribution zones.

Note: These FMIDs will not automatically be deleted from the Global Zone. Consult the SMP/E manuals for instructions on how to do this.

5.4 Special Considerations

IMU has no special considerations for the target system.

6.0 Installation Instructions

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

Please note the following:

- If you want to install IMU 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.
- Sample jobs have been provided to help perform some or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries required for SMP/E execution have been defined in the appropriate zones.
- The SMP/E dialogs may be used instead of the sample jobs to accomplish the SMP/E installation steps.

6.1 Installing IMU

6.1.1 SMP/E Considerations for Installing IMU

This release of IMU is installed using the SMP/E RECEIVE, APPLY, and ACCEPT commands. The SMP/E dialogs may be used to accomplish the SMP/E installation steps.

6.1.2 SMP/E Options Subentry Values

The recommended values for some SMP/E CSI subentries are shown in Figure 11. Use of values lower than these may result in failures in the installation process. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. Refer to the SMP/E manuals for instructions on updating the global zone.

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

6.1.3 Sample Jobs

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

Figure 12. Sample Installation Jobs

Job Name	Job Type	Description	RELFILE
FSY1DCSI	DEFCSI	Sample DEFCSI JCL	IBM.HMGU320.F1
FSY2RECV	RECEIVE	Sample RECEIVE JCL	IBM.HMGU320.F1
FSY3ALOC	ALLOCATE	Sample JCL to allocate target and distribution libraries	IBM.HMGU320.F1
FSY4DDEF	DDDEF	Sample JCL to define SMP/E DDDEFs	IBM.HMGU320.F1
FSY5APLY	APPLY	Sample APPLY JCL	IBM.HMGU320.F1
FSY6ACPT	ACCEPT	Sample ACCEPT JCL	IBM.HMGU320.F1

You can access the sample installation jobs by performing an SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 12 on page 13 to find the appropriate relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=**
//TAPEIN DD DSN=IBM.HMGU320.F1,UNIT=tunit,
// VOL=SER=volser,LABEL=(x,SL),
// DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.HMGU320.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,(10,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD **
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

In the sample above, update the statements as noted below:

If using TAPEIN:

tunit is the unit value matching the product tape.

volser is the volume serial matching the product tape.

x is the tape file number where the data set name is on the tape.

Refer to the documentation provided by CBPDO to see where IBM.HMGU320.F1 is on the tape.

If using 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 will be stored.

dasdvol is the volume serial of the DASD device where the output data set will reside.

SYSIN

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

6.1.4 Perform SMP/E RECEIVE

You can also choose to edit and submit sample job FSY2RECV to perform the SMP/E RECEIVE for IMU. Consult the instructions in the sample job for more information.

6.1.5 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job FSY3ALOC to allocate the SMP/E target and distribution libraries for IMU. Consult the instructions in the sample job for more information.

6.1.6 Create DDDEF Entries

Edit and submit sample job FSY4DDEF to create DDDEF entries for the SMP/E target and distribution libraries for IMU. Consult the instructions in the sample job for more information.

6.1.7 Perform SMP/E APPLY

1. Ensure you have the latest Enhanced HOLDDATA, then edit and submit sample job FSY5APLY to perform an SMP/E APPLY CHECK for IMU. Consult the instructions in the sample job for more information.

Perform an SMP/E APPLY CHECK for IMU.

Enhanced HOLDDATA introduces ERROR HOLDS against FMIDs for HIPER APARs. Prior to installing, you should ensure you have the latest Enhanced HOLDDATA (available at url <http://service.software.ibm.com/holdata/390holddata.html>). The FMID(s) should be installed regardless of the status of unresolved HIPERs, however, the software should not be deployed until the unresolved HIPERs have been analyzed to determine applicability.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the following on the APPLY CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of **ERRORS** and not of **WARNINGS** (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

There are two methods to complete an FMID installation where ++HOLDS for HIPERs exist for the FMID(s) being installed:

- a. To ensure that all recommended and critical service is installed with the FMID(s), add the SOURCEIDs of PRP, HIPER, and RSU* to the APPLY command. There may be PE or HIPER APARs that do not have resolving PTFs available yet. You need to analyze the symptom flags to determine if you want to BYPASS the specific ERROR HOLDS and continue the FMID installation.

```
APPLY S(fmid,fmid,...)
FORFMID(fmid,fmid,...)
SOURCEID(PRP,HIPER,RSU*,...)
GROUPEXTEND .
```

This method requires more initial research, but will provide resolution for all HIPERs that have fixes available and are not in a PE chain. There may still be unresolved PEs or HIPERs that will require the use of BYPASS.

- b. To install the FMID(s) as it would have been installed prior to Enhanced HOLDDATA, you can add a BYPASS(HOLDCLASS(HIPER)) operand to the APPLY command. This will allow the FMID to be installed even though there are HIPER ERROR HOLDS against it. Note that not all ERROR HOLDS were bypassed, only the HIPER ERROR HOLDS. After the FMID(s) are installed, the SMP/E REPORT ERRSYSMODS command should be run to identify any missing HIPER maintenance.

```
APPLY S(fmid,fmid,...)
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
GROUPEXTEND
BYPASS(HOLDCLASS(HIPER)) .
..any other parameters documented in the program directory
```

This method is the quicker of the two, but requires subsequent review of the REPORT ERRSYSMODS to investigate any HIPERs.

If you bypass any HOLDS during the installation of the FMID(s) because fixing PTFs were not yet available you can use the APAR Status Tracking (AST) function of ServiceLink or the APAR Tracking function of ResourceLink to be notified when the fixing PTF is available.

2. After you have taken any actions 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 apply all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

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

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

6.1.8 Perform SMP/E ACCEPT

Edit and submit sample job FSY6ACPT to perform an SMP/E ACCEPT CHECK for IMU. 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 following on the ACCEPT CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis

identifies the cause only of **ERRORS** and not of **WARNINGS** (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

Before using SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. 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.

Once you have taken any actions 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 accept all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

6.2 Activating IMU

The publication *IMU User's Guide and Reference, SC31-6935-06* contains the step-by-step procedures to activate the functions of IMU.

7.0 Notices

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