



Program Directory for Emulation Program (EP)

Release 14

Program Number 5735-XXB

FMID HEP1E00

for Use with
MVS/ESA
OS/390

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Note!

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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 EP R14 MVS. This publication refers to Emulation Program R14 for MVS as EP R14 MVS. You should read all of this program directory before installing the program, and then keep it for future reference.

The program directory contains the following sections:

- 2.0, "Program Materials" on page 3 identifies the basic and optional program materials and documentation for EP R14 MVS.
- 3.0, "Program Support" on page 7 describes the IBM* support available for EP R14 MVS.
- 4.0, "Program and Service Level Information" on page 9 describes the program and service level information incorporated into this program.
- 5.0, "Installation Requirements and Considerations" on page 11 identifies the resources and considerations for installing and using EP R14 MVS.
- 6.0, "Installation Instructions" on page 15 provides detailed installation instructions for EP R14 MVS.
- Appendix A, "Install Logic" on page 23 provides the installation logic for this program.
- Appendix B, "APARs Incorporated into this Program" on page 25 provides a list of APARs incorporated into this program.

Before installing EP R14 MVS, read 3.2, "Preventive Service Planning (PSP)" on page 7. This section tells you how to find any updates to the information and procedures in this program directory.

Prior to EP R14 you were required to order and install two separate releases of Emulation Program when you needed Partitioned Emulation Programming (PEP) (with NCP) and standalone (without NCP). EP R14 has combined these two capabilities to offer you the convenience of a single installation.

Users who require PEP only will experience no difference in the EP R14 installation process. For EP standalone environments the installation process will be different. EP standalone will no longer be installed in its own target and distribution zones with unique distribution libraries. All EP R14 users will now install EP in the NCP distribution libraries, ANCPMAC1 and ANCPMOD1, using the NCP target and distribution zones. If you do not have NCP installed currently and you are using EP standalone, you must install NCP. A single EP installation can now be used in environments requiring both PEP and EP standalone.

IBM recommends that you use an OS/390 ServerPac to install this level of EP. If you use a ServerPac, you get the service integrated in the product. ServerPac is available at no additional charge when you have an OS/390 license.

Do not use this program directory if you are installing EP R14 MVS with an MVS Custom-Built Installation Process Offering (CBIPO), 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.

If you are installing EP R14 MVS using the MVS Custom-Built Product Delivery Offering (CBPDO) (5751-CS3), use the softcopy program directory provided on the CBPDO tape. Your CBPDO contains a softcopy Preventive Service Planning (PSP) upgrade for this product. All service and HOLDDATA for EP R14 MVS are included on the CBPDO tape.

To facilitate the installation of EP R14 MVS, all JCL statements that appear in this program directory are also in machine-readable format on the product tape. The JCL is contained in Relative File 2, DLIB=ANCPSAMP, MEMBER=CYKINJCL. The JCL to unload the installation JCL is in 6.1.3, "Unload the Sample JCL from the Product Tape" on page 15.

In the JCL examples shown in this program directory, all occurrences of lowercase variables must be changed to the appropriate uppercase values in order for the JCL to execute properly.

At the end of this program directory you will find a Reader's Comment Form. Please take the time to complete this form and return it to the address shown on the form. Your comments and suggestions help improve the program directory and make installation easier.

A good place to start any task regarding this program is the *NCP V7R7, SSP V4R7, and EP R14 Library Directory*. This directory introduces the enhancements for the current release and shows where these enhancements are described in the NCP library. It gives you an overview of NCP, SSP, and EP and directs you to a variety of tasks related to these programs.

1.1 EP R14 MVS FMIDs

EP R14 MVS consists of FMID HEP1E00.

2.0 Program Materials

An IBM program is identified by a program number and feature numbers. The program number for EP R14 MVS is 5735-XXB. The feature numbers associated with this release are provided in the following sections.

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

The program announcement material describes the features supported by EP R14 MVS. Ask your IBM representative for this information if you have not already received a copy.

The following sections identify:

- Basic and optional program materials available with this program
- Program publications
- Program source materials
- Publications associated with this program
- Publications useful during installation

2.1 Basic Machine-Readable Material

The distribution medium for this program is a 9-track magnetic tape, (written at 6250 BPI), a 3480 cartridge, or a 4 mm cartridge. The tape or cartridge contains all the programs and data needed for installation. EP R14 MVS is installed using SMP/E, and is in SMP/E RELFILE format. See section 6.0, "Installation Instructions" on page 15 for more information about how to install the program.

Figure 1 describes the tape or cartridge.

Note: If you are installing EP R14 MVS using the MVS Custom-Built Product Delivery Offering (CBPDO) (5751-CS3), some of the information in these figures may not be valid. Consult the CBPDO documentation for actual values.

Figure 1. Basic Material: Program Tape

Medium	Feature Number	Physical Volume	External Label Identification	VOLSER
6250 tape	5901	1	MVSOBJ HEP1E00	EP1E00
3480 cart.	5902	1	MVSOBJ HEP1E00	EP1E00
4 mm cart.	5709	1	MVSOBJ HEP1E00	EP1E00

Figure 2 describes the file content of the program tape or cartridge.

Figure 2. Program Tape: File Content

VOLSER	File	Name	Dist Library	RECFM	LRECL	BLK SIZE
EP1E00	1	SMPMCS	FB	80	6400	
EP1E00	2	IBM.HEP1E00.F1	AMACLIB (JCLIN)	FB	80	8800
EP1E00	3	IBM.HEP1E00.F2	ANCPMAC1 ANCPSAMP	FB	80	8800
EP1E00	4	IBM.HEP1E00.F3	ANCPMOD1	U	0	6144

2.2 Optional Machine-Readable Material

There are no optional machine-readable materials for this program.

2.3 Program Publications

The following sections identify the basic, optional, and associated publications for EP R14 MVS.

2.3.1 Basic Program Publications

Figure 3 identifies the basic program publication for EP R14 MVS. One copy of each of these publications is included when you order the basic materials for EP R14 MVS. For additional copies, contact your IBM representative.

Figure 3. Basic Material: Program Publications

Publication Title	Form Number
Emulation Program Licensed Program Specifications	GC31-6201

2.3.2 Optional Program Publications

There are no optional program publications for this program.

2.3.3 Softcopy Publications

All EP R14 MVS manuals, licensed and unlicensed, except for *NCP Licensed Program Specifications*, are offered in displayable softcopy form on the media listed in Figure 4.

Figure 4. Softcopy Publications

Title	Form Number	Feature Number First Copy	Feature Number Additional Copy
ACF/NCP, ACF/SSP, EP, NPSI, and NTuneMON Softcopy Collection Kit CD-ROM	LK2T-0414#	7110	8110

Note: A pound symbol (#) beside the Form Number indicates it contains "Restricted Materials of IBM."

2.3.4 Publications Associated with EP R14 MVS

Figure 5 lists publications that may be helpful when you use this program. To order copies, contact your IBM representative. A fee is charged for each publication.

Figure 5. Publications Associated with Emulation Program

Publication Title	Form Number
Network Control Product, System Support Programs, and Emulation Program Resource Definition Guide	SC31-6223
Network Control Product, System Support Programs, and Emulation Program Resource Definition Reference	SC31-6224
Network Control Product, System Support Programs and Emulation Program Generation and Loading Guide	SC31-6221
Network Control Product, System Support Programs, and Emulation Program Messages and Codes	SC31-6222
Network Control Product, System Support Programs, and Emulation Program Diagnosis Guide	LY43-0033#
Network Control Product and Emulation Program Reference	LY43-0029#
Network Control Product and Emulation Program Reference Summary and Data Areas	LY43-0030#
NCP, SSP, and EP Trace Analysis Handbook	LY43-0037#

Note: A pound symbol (#) beside the form number indicates that the publication is available only to licensed customers.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for EP R14 MVS.

2.5 Publications Useful During Installation

The publications listed in Figure 6 may be useful during installation of EP R14 MVS. To order copies, contact your IBM representative. A fee is charged for each publication.

Figure 6. Publications Useful During Installation

Publication Title	Form Number
MVS Software Manufacturing Offerings General Information	GC23-0351
MVS/ESA JCL Reference	GC28-1829
MVS/ESA JCL User's Guide	GC28-1830
MVS/ESA System Codes	GC28-1815
MVS/ESA System Messages Volume 1	GC28-1812
MVS/ESA System Messages Volume 2	GC28-1813
OS/390 MVS JCL Reference	GC28-1757
OS/390 MVS JCL User's Guide	GC28-1758
OS/390 MVS System Codes	GC28-1780
OS/390 MVS System Messages, Vol 1 (ABA-ASA)	GC28-1784
OS/390 MVS System Messages, Vol 2 (ASB-EWX)	GC28-1785
OS/390 MVS System Messages, Vol 3 (GDE-IEB)	GC28-1786
OS/390 MVS System Messages, Vol 4 (IEC-IFD)	GC28-1787
OS/390 MVS System Messages, Vol 5 (IGD-IZP)	GC28-1788
OS/390 SMP/E Commands	SC28-1805
OS/390 SMP/E Messages and Codes	SC28-1738
OS/390 SMP/E Reference	SC28-1806
OS/390 SMP/E User's Guide	SC28-1740
SMP/E: Messages and Codes	SC28-1108
SMP/E: Reference Guide	SC28-1107
SMP/E: User's Guide	SC28-1302

3.0 Program Support

This section describes the IBM support available for this program.

3.1 Program Services

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

3.2 Preventive Service Planning (PSP)

Before installing EP R14 MVS, you should review the current Preventive Service Planning (PSP) information. If you obtained EP R14 MVS as part of a CBPDO, there is HOLDDATA and PSP information included on the CBPDO tape.

If you obtained EP R14 MVS on a product tape, or if the CBPDO is more than two weeks old when you install it, you should contact the IBM Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

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 EP R14 MVS are:

Figure 7. PSP Upgrade and Subset ID

UPGRADE	SUBSET	Description
EP1E0	HEP1E00	EP R14 MVS

3.3 Statement of Support Procedures

For help with problem determination and problem source identification, refer to *Network Control Program, System Support Programs, and Emulation Program Diagnosis Guide*. Report any difficulties you have using this program to your IBM Support Center.

Figure 8 identifies the component ID (COMPID) and RETAIN Release for EP R14 MVS.

Figure 8. Program Identifiers

FMID	COMP ID	Component Name	REL
HEP1E00	5748EP115	EP Release 14 MVS	E00

4.0 Program and Service Level Information

This section identifies the program and service level of EP R14 MVS. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated into the product. Information about the cumulative service tape is also provided.

4.1 Program Level Information

See Appendix B, "APARs Incorporated into this Program" on page 25 for a list of APAR fixes against previous releases of EP incorporated into this release.

4.2 Service Level Information

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

4.3 Cumulative Service Tape

A cumulative service tape, containing PTFs not incorporated into this release, might be included with this program. If this tape is included, it will be used in section 6.2, "Post-Installation Information" on page 20. Installation instructions for cumulative service tapes can be found in the SMP/E publications.

If you received this product as part of a CBPDO or a ProductPac, PTFs not incorporated into this release are provided on the tape, and a separate cumulative service tape will not be provided.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing EP R14 MVS. The following terminology is used:

- *Driving system*: the system used to install the program.
- *Target system*: the system on which the program is installed.

In many cases, the same system can be used as both a driving system and a target system.

5.1 Driving System Requirements

This section describes the environment of the driving system required to install EP R14 MVS.

5.1.1 Operating System Requirements

The operating system requirements are defined by SSP V4R7 licensed program number 5655-041.

5.1.2 Machine Requirements

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

5.1.3 Programming Requirements

Figure 9. Driving System Software Requirements

Program Number	Product Name and Minimum VRM/Service Level
5668-949	System Modification Program/Extended (SMP/E) Release 8.1 or higher

A platform-dependent BookManager product is required to display softcopy publications on CD-ROM. Limited function DOS, Windows, and OS/2 versions of these products are available on your CD-ROM. For more information or to order full-function releases of these products, or MVS versions, refer to the IBM BookManager home page at <http://booksrv2.raleigh.ibm.com>.

5.2 Target System Requirements

This section describes the environment of the target system required to install EP R14 MVS.

5.2.1 Machine Requirements

This program operates on any IBM 3745 Communication Controller.

5.2.2 Programming Requisites

5.2.2.1 Minimum Requisites:

A minimum requisite is one of the following:

- *Installation Requisite:* A product that is required at installation time. i.e. this product **will not install** successfully unless this requisite is met. This includes products that are specified as REQs, PREs, or CALLLIBs.
- *Run Time Requisite:* A product that is **not** required for the successful installation of this product, but **is** needed at run time in order for this product to work.

NCP V7R7 for MVS is required to operate this program.

SSP V4R7 for MVS is required to generate this program.

Figure 10. Minimum Requisites

Program Number	Product Name and Minimum VRM/Service Level	Install Req?
5655-041	System Support Program Version 4 Release 7	No
5648-063	Network Control Program Version 7 Release 7	Yes

5.2.2.2 Functional Requisites:

A functional requisite is a product that is *not* required for the successful installation of this product or for the base function of the product, but one or more of the products *may be* needed at run time for a specific function of this product to work depending upon the specific customer installation.

There are no functional requisites required.

5.2.2.3 Compatibility Requisites:

There are no compatibility requisites required.

5.2.2.4 Toleration/Coexistence Requisites:

There are no toleration/coexistence requisites required.

5.2.2.5 Incompatibility (Negative) Requisites:

There are no incompatible products associated with this product.

5.3 DASD Storage Requirements

Space requirements for SMP/E libraries (data sets) must take into consideration other programs that may use these libraries. The following products share data sets:

- NCP V7R7
- EP R14
- NTO R11
- NRF R9
- NTuneMON V2R5

Note: Abbreviations used for the data set type are:

- U** Unique data set used by only the FMIDs listed. In order 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 used by more than the FMIDs listed. In order 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.

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 setup of the SMP/E environment, including the target libraries and distribution libraries, please refer to the NCP V7R7 MVS Program Directory.

NCP, EP, NTO, NRF, and NTuneNCP share target and distribution libraries (data sets). If you install these products, you must allocate additional space for these data sets. Refer to the appropriate program directory for storage requirements for these products.

The storage requirements of this program must be added to the storage required by other programs having data in the same data set (library). An estimate of required space is the data set's current allocation plus the storage required by this program.

Figure 11 lists the target libraries (data sets) and the attributes required to install this program.

Figure 11. Storage Requirements for EP R14 MVS Target Libraries

Library DDNAME	T Y P E	D S R G	R E C M	L R E C L	BLK SIZE	No. of Blks	No. of 3380/ 9345 Trks	No. of 3390 Trks	No. of DIR Blks
SNCPMAC1	S	PO	FB	80	8800	20	4	4	1
SNCPMOD1	S	PO	U	0	6144	62	9	7	6

Figure 12 lists the distribution libraries (data sets) and the attributes required to install this program.

Figure 12. Storage Requirements for EP R14 MVS Distribution Libraries

Library DDNAME	T Y P E	D S R G	R E C M	L R E C L	BLK SIZE	No. of Blks	No. of 3380/ 9345 Trks	No. of 3390 Trks	No. of DIR Blks
ANCPMAC1	S	PO	FB	80	8800	20	4	4	1
ANCPMOD1	S	PO	U	0	6144	62	9	7	6
ANCP SAMP	S	PO	FB	80	8800	2	1	1	2

5.4 FMIDs Deleted

Please see the SMPMCS file in Appendix A for the FMIDs deleted by EP R14 MVS.

5.5 Special Considerations

EP R14 MVS has no special considerations for the target system.

6.0 Installation Instructions

This section describes the installation method and the step-by-step procedures to install EP R14 MVS.

6.1.1 SMP/E Considerations for Installing EP R14 MVS

This release of EP R14 MVS 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 Environment

All SMP/E installation jobs provided assume that all necessary DD statements for the execution of SMP/E are defined using DDDEFs.

Sample jobs are provided to assist you in installing EP R14 MVS. The JCL samples in this section use lowercase character strings to represent items that must be changed to uppercase names for your specific environment. Figure 13 provides a description of each character string.

Figure 13. Character String Descriptions

Character string	Description
xxxxxx	Volume ID of the library pack
ncpzzzz	High-level qualifier for data sets
ncptgt	SMP/E target zone used for NCP
ncpdlib	SMP/E distribution zone used for NCP
tape	Tape unit type

Notes:

1. The SMP/E data sets used for the NCP installation should be used for this EP installation.
2. The target and distribution libraries used for the NCP installation will be used for the installation of EP.

6.1.3 Unload the Sample JCL from the Product Tape

Sample installation jobs are provided on the distribution tape to help you install EP R14 MVS. The following sample JCL will copy the EP R14 MVS jobs from the tape. See Figure 14 on page 16 for the JCL to unload the sample JCL from the tape.

```

//CYKINJCL JOB (account info),'pgmrs name',MSGLEVEL=(1,1)
//*
/** NOTE 1) UPDATE DATA SET NAME, UNIT FIELDS,
/**      AND VOL=SER AS REQUIRED
/** NOTE 2) NORMAL JOB CONDITION CODE IS ZERO(0)
/**
//COPY      EXEC PGM=IEBCOPY
//SYSPRINT DD  SYSOUT=A
//TAPEIN   DD  DSN=IBM.HEP1E00.F2,VOL=SER=EP1E00,
//          UNIT=tape,DISP=OLD,LABEL=(3,SL)
//DISKOUT  DD  DSN=HEP1E00.INSTALL.JCL,VOL=SER=xxxxxx,
//          UNIT=SYSDA,DISP=(NEW,CATLG),
//          SPACE=(CYL,(1,1,3))
//SYSUT3   DD  UNIT=SYSDA,SPACE=(80,(15,1))
//SYSIN    DD  *
//          COPY I=TAPEIN,0=DISKOUT
//          SELECT MEMBER=CYKINJCL
/**

```

Figure 14. JCL to Unload the Installation JCL

Expected Return Codes and Messages:

CYKINJCL job ends with return code equal zero (RC=0). The JCL is contained in Relative File 2, DLIB=ANCPSAMP, MEMBER=CYKINJCL.

You can also access the sample installation jobs after performing an SMP/E RECEIVE for FMID HEP1E00, and then copying the jobs from dataset **hlq.IBM.HEP1E00.F2** to a work dataset for editing and submission.

EP R14 MVS uses the same SMP/E procedure as provided in the corresponding NCP for MVS program directory.

6.1.4 Perform SMP/E RECEIVE

Edit and submit sample job EPREC to perform the SMP/E RECEIVE for EP R14 MVS. See Figure 15 on page 17 for the JCL to receive the data from the product tape.


```

//EPREC JOB (account info),'pgmrs name',MSGLEVEL=(1,1)
/**
/** RECEIVE THE DATA FROM THE PRODUCT TAPE
/**
//RECV EXEC PGM=GIMSMP,PARM='DATE=U',REGION=4096K,
// TIME=1440
//SMPOUT DD SYSOUT=A
//SYSPRINT DD SYSOUT=A
//SMPCSI DD DSN=ncpzxxxx.GLOBAL.CSI,DISP=SHR
//SMPTLIB DD UNIT=SYSDA,DISP=OLD,VOL=SER=xxxxxx
//SMPPTFIN DD UNIT=tape,DISP=OLD,VOL=SER=EP1E00,
// LABEL=(,SL),DSN=SMPMCS
//SMPCNTL DD *
SET BDY(GLOBAL) .
RECEIVE SELECT(HEP1E00) SYSMODS LIST .
/**

```

Figure 15. JCL to Perform SMP/E RECEIVE

Note: If you obtained EP R14 MVS as part of a CBPDO, you can use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the EP R14 MVS FMIDs as well as any service, HOLDDATA, or preventive service planning (PSP) information included on the CBPDO tape. For more information, refer to the documentation included with the CBPDO.

Expected Return Codes and Messages:

EPREC job ends with return code equal zero (RC=0).

6.1.5 Perform SMP/E APPLY CHECK

Edit and submit sample job EPAPCK to perform an SMP/E APPLY CHECK for EP R14 MVS. See Figure 16 for the JCL to perform SMP/E APPLY CHECK.

```

//EPAPCK JOB (account info),'pgmrs name',MSGLEVEL=(1,1)
/**
/** BEFORE ACTUALLY UPDATING THE TARGET LIBRARIES CHECK FOR
/** ERRORS, THE LIBRARIES AFFECTED, AND ANY SYSMODS THAT WOULD
/** BE REGRESSED
/**
//APPCK EXEC PGM=GIMSMP,PARM='DATE=U',REGION=4096K,
// TIME=1440
//SMPCSI DD DSN=ncpzxxxx.GLOBAL.CSI,DISP=SHR
//SMPCNTL DD *
SET BDY(ncptgt) .
APPLY SELECT(HEP1E00) CHECK .
/**

```

Figure 16. JCL to Perform SMP/E APPLY CHECK

Expected Return Codes and Messages:

EPAPCK job ends with return code equal zero (RC=0).

6.1.6 Perform SMP/E APPLY

Edit and submit sample job EPAPP to perform an SMP/E APPLY for EP R14 MVS. See Figure 17 for the JCL to perform SMP/E APPLY.

```
//EPAPP JOB (account info),'pgmrs name',MSGLEVEL=(1,1)
/**
/** UPDATE THE TARGET LIBRARIES
/**
//APPLY EXEC PGM=GIMSMP,PARM='DATE=U',REGION=4096K,
//      TIME=1440
//SMPCSI DD DSN=ncpzxxxx.GLOBAL.CSI,DISP=SHR
//SMPCNTL DD *
//      SET BDY(ncptgt) .
//      APPLY SELECT(HEP1E00) .
/**
```

Figure 17. JCL to Perform SMP/E APPLY

Expected Return Codes and Messages:

EPAPP job ends with return code equal zero (RC=0).

6.1.7 Perform SMP/E ACCEPT CHECK

Edit and submit sample job EPACCK to perform an SMP/E ACCEPT CHECK for EP R14 MVS. See Figure 18 for the JCL to perform ACCEPT CHECK.

```
//EPACCK JOB (account info),'pgmrs name',MSGLEVEL=(1,1)
/**
/** BEFORE ACTUALLY UPDATING THE DISTRIBUTION LIBRARIES CHECK FOR
/** ERRORS, THE LIBRARIES AFFECTED, AND ANY SYSMODS THAT WOULD
/** BE REGRESSED
/**
//ACCK EXEC PGM=GIMSMP,PARM='DATE=U',REGION=4096K,
//      TIME=1440
//SMPCSI DD DSN=ncpzxxxx.GLOBAL.CSI,DISP=SHR
//SMPCNTL DD *
//      SET BDY(ncpdlib) .
//      ACCEPT SELECT(HEP1E00) CHECK .
/**
```

Figure 18. JCL to Perform SMP/E ACCEPT CHECK

Expected Return Codes and Messages:

EPACCK job ends with return code equal zero (RC=0).

6.1.8 Perform SMP/E ACCEPT

Edit and submit sample job EPACC to perform an SMP/E ACCEPT for EP R14 MVS. See Figure 19 for the JCL to update the distribution library.

```
//EPACC JOB (account info),'pgmrs name',MSGLEVEL=(1,1)
//**
//* UPDATE THE DISTRIBUTION LIBRARIES
//**
//ACCEPT EXEC PGM=GIMSMP,PARM='DATE=U',REGION=4096K,
// TIME=1440
//SMPCSI DD DSN=ncpzxxxx.GLOBAL.CSI,DISP=SHR
//SMPCNTL DD *
SET BDY(ncpdlib) .
ACCEPT SELECT(HEP1E00) .
//*
```

Figure 19. JCL to Perform SMP/E ACCEPT

Expected Return Codes and Messages:

EPACC job ends with return code equal zero (RC=0).

6.1.9 Rejecting SMPTLIBs

If you kept the NOPURGE option in the sample CSIOPTS JCL that was provided with the NCP installation samples, you can reject the SMPTLIBs using the JCL shown in Figure 20 on page 20.

```

//EPREJ JOB (account info),'pgmrs name',MSGLEVEL=(1,1)
//*****
//*
//* THE SMP/E REJECT JOB WILL DELETE SOME OF THE **
//* CSI ENTRIES FROM THE SMPTLIB DATA SETS. IT DOES **
//* NOT DELETE EP R14 FROM THE CSI. **
//* **
//* THIS JOB WILL DELETE: **
//* GLOBAL ZONE SYSMOD ENTRIES **
//* HOLDATA ENTRIES **
//* SMPPTS MCS ENTRIES **
//* ANY ASSOCIATED SMPTLIB ENTRIES **
//* **
//* THIS JOB WILL GENERATE A NONZERO RETURN CODE **
//* IF THE SMPTLIBS HAVE BEEN PURGED FOR HEP1E00. **
//*****
// EXEC PGM=GIMSMP,PARM='DATE=U',REGION=4096K,
// TIME=1440
//SMPOUT DD SYSOUT=A
//SYSPRINT DD SYSOUT=A
//SMPCSI DD DSN=ncpzxxxx.GLOBAL.CSI,DISP=SHR
//SMPCNTL DD *
SET BDY(GLOBAL) .
REJECT S(HEP1E00)
BYPASS(APPLYCHECK,ACCEPTCHECK) .
//*

```

Figure 20. JCL to Reject SMP/E Entries and SMPTLIBs

Expected Return Codes and Messages:

EPREJ job ends with return code equal zero (RC=0), unless the SMPTLIB data sets have been purged.

6.2 Post-Installation Information

The SSP, NCP, and controller-resident NCP-related products share post-installation procedures. After you install all products needed for the system environment, your system is ready for post-installation maintenance processing. If a PTF cumulative service tape is included with the order, install the maintenance now.

If PTFs containing replacement modules are being ACCEPTed, SMP/E ACCEPT processing will linkedit/bind the modules into the distribution libraries. During this processing, the Linkage Editor or Binder might issue messages documenting unresolved external references, resulting in a return code of 4 from the ACCEPT step. These messages can be ignored because the distribution libraries are not executable and the unresolved external references will not affect the executable system libraries.

To re-linkedit the NCP load modules under SMP/E, you may need to add a LOADNCP DD statement to the DDDEF job. The LOADNCP DD statement must point to the library that contains your NCP load modules. For an example, see the SYSLMOD DD statement in the *Network Control Program, System Support Programs, and Emulation Program Generation and Loading Guide*.

Run the HONE Configurator to determine your new load module size after installation. Storage requirements and load module size usually change from release to release, which affects the number of buffers in the buffer pool. Contact your IBM representative for assistance.

6.3 Post-Installation Considerations

This section contains post-installation considerations for a PEP system and an EP standalone system.

6.3.1 For a PEP (NCP and EP) System

If you are installing a PEP system and have not already installed the SSP product, refer to the appropriate program directory for product information and installation instructions. You should install SSP before generating NCP and PEP. If you have already installed NCP, EP, and SSP, you have completed installation of a PEP system, and you are ready to generate NCP and PEP.

6.3.2 For an EP Standalone System

If you are installing EP for a standalone environment you must install NCP. Refer to the NCP program directory for product information and installation instructions. If you have not installed SSP, refer to the SSP program directory for product information and installation instructions. If you have installed NCP, EP, and SSP, you have completed installation for an EP standalone system and you are ready to generate EP.

Appendix A. Install Logic

A.1 SMP/E Modification Control Statements

The SMP/E Modification Control Statements (SMPMCS) for EP R14 MVS are contained in the SMPMCS file on the installation tape. The SMPMCS for each FMID in the product will be loaded to the SMPPTS dataset, with a member name matching the FMID, when the FMID is SMP/E RECEIVED. You may browse or print these members using TSO/E, ISPF, or IEBGENER (or IEBTPCH).

This appendix contains a portion of the installation logic for this program.

If you ordered this program as an individual product (not in a CBIPO or CBPDO), the entire set of SMP/E modification control statements (MCS) for the installation can be obtained by printing the first file of the product tape.

Figure 21 provides a portion of the SMP/E installation logic for EP R14 MVS.

```
++FUNCTION(HEP1E00) FESN(6509103) REWORK(1998219)
RFDSNPF(IBM)          /* TIME=08.05.02  DATE=08/07/98 */
FILES(3)
 /* COPYRIGHT = LICENSED MATERIAL - PROPERTY OF IBM    */
 /* THIS PRODUCT CONTAINS "RESTRICTED MATERIALS OF IBM"*/
 /* 5735-XXB (C) COPYRIGHT IBM CORP. 1982, 1998        */
 /* ALL RIGHTS RESERVED.                               */
 /* U. S. GOVERNMENT USERS RESTRICTED RIGHTS -        */
 /* USE, DUPLICATION OR DISCLOSURE RESTRICTED BY      */
 /* GSA ADP SCHEDULE CONTRACT WITH IBM CORP.          */
 /* SEE COPYRIGHT INSTRUCTIONS.                       */
.
++VER(P004)
DELETE(EEP0100,EEP0101,EEP0200,EEP0300,HEP1105,HEP1204,HEP1205,
HEP1305,HEP1405,HEP1510,HEP1520,HEP1610,HEP1611,HEP1700,HEP1900,
HEP1005,HEP1B00,HEP1C00)
.
++JCLIN              RELFILE(1) .
```

Figure 21. Installation Logic

You can browse these members using TSO/E or ISPF, or Figure 22 on page 24 provides a sample job to print the SMPMCS.

```
//EPLOGIC JOB (account info),'pgmrs name',MSGLEVEL=(1,1)
//GENER EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=A
//SYSUT1 DD DSN=SMPMCS,VOL=SER=EP1E00,
// UNIT=tape,DISP=OLD,LABEL=(1,SL)
//SYSUT2 DD SYSOUT=A
//SYSIN DD DUMMY
//*
```

Figure 22. Job to Print the SMP/E Modification Control Statements

Expected Return Codes and Messages:

EPLOGIC job ends with return code equal zero (RC=0).

Appendix B. APARs Incorporated into this Program

The following EP R12 APARs are incorporated into this program:

IR26683	IR24915	IR35596
IR24823	IR25440	IR36447
IR24909	IR26379	IR36417
IR24910	IR32543	IR37082
IR24911		

The following EP R8 APARs are incorporated into this program:

IR93585	IR94936	IR95815
IR94133	IR94937	IR96019
IR94286	IR95015	IR96167
IR94635	IR95017	IR98324
IR94762	IR95018	IR99428
IR94793	IR95019	IR99496
IR94795	IR95020	IR25440
IR94839	IR95021	IR37686

Reader's Comments

Program Directory for Emulation Program Release 14 for MVS

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Ease of product installation	1	2	3	4	5	N
Contents of program directory	1	2	3	4	5	N
Installation Verification Programs	1	2	3	4	5	N
Time to install the product	1	2	3	4	5	N
Readability and organization of program directory tasks	1	2	3	4	5	N
Necessity of all installation tasks	1	2	3	4	5	N
Accuracy of the definition of the installation tasks	1	2	3	4	5	N
Technical level of the installation tasks	1	2	3	4	5	N
Ease of getting the system into production after installation	1	2	3	4	5	N

What order media was this product received?

- CBIPO
- CBPDO
- CustomPac
- ServerPac
- Independent
- Other

Is this the first time your organization has installed this product?

- Yes
- No

Were the people who did the installation experienced with the installation of MVS products?

___ Yes
___ No

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