



**Program Directory for
Advanced Communication Function (ACF)
System Support Programs (SSP)**

Version 4 Release 8, **Service Level SMC0019**

Program Number 5654-009

for Use with
VM/ESA

Document Date: July 2000

GI10-6608-00

Note!

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

This program directory, dated July 2000, applies to System Support Programs V4R8 for VM (SSP V4R8 VM), Service Level SMC0019, Program Number 5654-009 for the following:

<u>COMP ID</u>	<u>Rel</u>	<u>Feature Numbers</u>	<u>System Names</u>
565400900	480	5801, 5802, 5700	VM/ESA

and to all subsequent releases and modifications until otherwise indicated in new editions.

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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.

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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 SSP V4R8 VM. 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:

- Section 2.0, "Program Materials" on page 5 identifies the basic and optional program materials and documentation for SSP V4R8 VM.
- Section 3.0, "Program Support" on page 11 describes the IBM support available for SSP V4R8 VM.
- Section 4.0, "Program and Service Level Information" on page 13 lists the program and service level information incorporated into SSP V4R8 VM.
- Section 5.0, "Installation Requirements and Considerations" on page 15 identifies the resources and considerations for installing and using SSP V4R8 VM.
- Section 6.0, "Installation Instructions" on page 27 provides detailed installation instructions for SSP V4R8 VM.
- Section 7.0, "Service Instructions" on page 39 provides detailed servicing instructions for SSP V4R8 VM.
- Appendix A, "APARs Incorporated into this Program" on page 49 lists the APARs incorporated into SSP V4R8 VM.

This program directory is for SSP V4R8 VM Service Level 0019. See Appendix A, "APARs Incorporated into this Program" on page 49 for a list of APARs.

Throughout this program directory, SSP V4R8 VM Service Level 0019 is referred to as SSP V4R8 VM. SSP V4R8 VM has been updated to a new service level and assigned a new SOURCEID, SMC0019.

When installing this service level of SSP V4R8 for VM, you should also consider installing the same service level of NCP for VM, NCP V7R8 for VM, Service Level 0019.

Before installing SSP V4R8 VM, read section 3.1, "Preventive Service Planning" on page 11. This section tells you how to find any updates to the information and procedures in this program directory.

This release builds the ASM3705 assembler. A link to the CMSTOOLS (193) disk is added.

Starting with ACF/NCP V7R7, important changes have been made to the NCP generation assembler support. Beginning with ACF/SSP V4R7, the Network Definition Facility (NDF) will offer exclusive support for the High Level Assembler (HLAS) program product, 5696-234. Prior to ACF/SSP V4R7, two different assemblers were shipped with ACF/SSP. Support for the IFZ assembler (VSE) and IHR90 assembler (MVS and VM) will be discontinued starting with ACF/NCP V7R7. You will now be required to use the High Level Assembler for generating NCP V7R7 and later load modules.

If the High Level Assembler does not come installed on your system, you will need to order it.

Figure 1 shows the operating systems and indicates whether the High Level Assembler is integrated.

<i>Figure 1. High Level Assembler Integrated with Operating System</i>		
Operating System	High Level Assembler V1R2	High Level Assembler V1R3
MVS/ESA V5R1 and later (5655-068, 5655-069)	Order separately	Order separately
OS/390 R1, R2, R3 (5645-001)	Integrated	Order separately
OS/390 V2R4, V2R5, V2R6 (5647-A01)	Integrated	Order separately
OS/390 V2R7, V2R8 (5647-A01)	n/a	Integrated
VM/ESA V2R2, V2R3 (5654-030)	Order separately	Order separately
VM/ESA V2R4 (5654-030)	n/a	Order separately
VSE/ESA V1R4.3, V1R4.4 (5750-ACD)	Order separately	Order separately
VSE/ESA V2R2, V2R3 (5690-VSE)	Integrated	Order separately
VSE/ESA V2R4 (5690-VSE)	n/a	Integrated

In addition to the High Level Assembler requirements, the APARs listed in Figure 36 on page 23 are required.

The IFZ and IHR90 assemblers will still be shipped with ACF/SSP V4R8 for use with levels of ACF/NCP prior to NCP V7R7.

A good place to start any task regarding this program is *NCP V7R8, SSP V4R8, and EP R14 Library Directory*, SC30-4025. 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.

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

2.0 Program Materials

An IBM program is identified by a program number and a feature number. The program number for SSP V4R8 VM is 5654-009. Feature numbers associated with this release are provided in the following sections.

The program announcement material describes the features supported by SSP V4R8 VM. Ask your IBM marketing 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
- Basic, optional, and associated publications available for this program
- Publications useful during installation

2.1 Basic Machine-Readable Material

This section describes the basic machine-readable material for SSP V4R8 VM.

The distribution medium for this program is a 9-track magnetic tape (written at 6250 bpi), a 3480 tape cartridge, or a 4 mm cartridge. The tape or cartridge contains all programs and data needed for installation. SSP V4R8 VM is installed using VMSES/E. See 6.0, "Installation Instructions" on page 27 for more information about how to install the program.

Figure 2 describes the program tape or cartridge for the SSP V4R8 VM program. Figure 3 describes the file content of the program tape or cartridge for the SSP V4R8 VM program.

Medium	Feature Number	Physical Volume	Tape Content	External Tape Label
6250 tape	5801	1	SSP V4R8 VM Refresh	SSP V4R8 VM R
3480 cart.	5802	1	SSP V4R8 VM Refresh	SSP V4R8 VM R
4 mm cart.	5700	1	SSP V4R8 VM Refresh	SSP V4R8 VM R

Tape File	Content
1	Tape Header
2	Tape Header
3	Product Header
4	Product Memo

Figure 3 (Page 2 of 2). Program Tape: File Content

Tape File	Content
5	Service Apply Lists
6	PTFPARTs
7	SSP V4R8 VM Service
8	SSP V4R8 VM Service
9	SSP V4R8 VM Base Code
10	SSP V4R8 VM Executable Code

2.2 Optional Machine-Readable Material

There are no optional machine-readable materials for SSP V4R8 VM.

2.3 Program Publications

The following sections identify the basic, optional, and associated publications for SSP V4R8 VM.

2.3.1 Basic Program Publications

Figure 4 identifies the basic *unlicensed* program publications for SSP V4R8 VM. One copy of each of these publications is included when you order the basic materials. For additional copies, contact your IBM representative. A fee is charged for additional copies.

Figure 4. Basic Material: Unlicensed Publications

Publication Title	Form Number
Network Control Program, System Support Programs, and Emulation Program Generation and Loading Guide	SC31-6221
Network Control Program, System Support Programs, and Emulation Program Messages and Codes	SC31-6222
Licensed Program Specifications: System Support Programs Version 4 Release 8 for VM	GC31-6227
Network Control Program Version 7 Release 8, System Support Programs Version 4 Release 8, and Emulation Program Release 14 Library Directory	SC30-4025
NCP and 3745/46 Today	G325-3426

Figure 5 on page 7 identifies the basic *licensed* program publications for SSP V4R8 VM. The first copy is available at no charge to licensees of the basic material by ordering the 7xxx feature number. Order additional copies using the 8xxx feature number. A fee is charged for additional copies.

An asterisk (*) next to the form number indicates that it contains “Restricted Materials of IBM.”

<i>Figure 5. Basic Material: Licensed Publications</i>		
Publication Title	Form Number	Feature Number
Network Control Program, System Support Programs, and Emulation Program Diagnosis Guide	LY43-0033*	8010
Network Control Program, System Support Programs, and Emulation Program Trace Analysis Handbook	LY43-0037*	8140

2.3.2 Optional Program Publications

There is no optional unlicensed program publications for SSP V4R8 VM.

Figure 6 identifies the optional licensed program publications for SSP V4R8 VM. The first copy is available at no charge to licensees of the basic material by ordering the 7xxx feature number. Order additional copies using the 8xxx feature number. A fee is charged for additional copies.

An asterisk (*) next to the form number indicates that it contains “Restricted Materials of IBM.”

<i>Figure 6. Optional Material: Licensed Publications</i>		
Publication Title	Form Number	Feature Number
Network Control Program and System Support Programs Customization Guide	LY43-0031*	7011-8011
Network Control Program and System Support Programs Customization Reference	LY43-0032*	7012-8012

2.3.3 Softcopy Publications

All SSP V4R8 VM manuals, licensed and unlicensed, except for *SSP Licensed Program Specifications*, are offered in displayable softcopy form on the media listed in Figure 7. The first copy is available at no charge to licensees of the basic material by ordering the 7xxx feature number. Order additional copies using the 8xxx feature number. A fee is charged for additional copies.

An asterisk (*) next to the form number indicates that it contains “Restricted Materials of IBM.”

Figure 7. Softcopy Publications

Title	Form Number	Feature Number
ACF/NCP, ACF/SSP, EP, NPSI, and NTuneMON Softcopy Collection Kit	LK2T-0414*	7110-8110
Note: Order this collection kit under the NCP product. (It is not orderable under SSP.)		

2.3.4 Publications Associated with SSP V4R8 VM

Figure 8 identifies publications that may be helpful when you use SSP V4R8 VM. To order copies, contact your IBM representative. A fee is charged for each copy of these publications.

Figure 8. Publications Associated with SSP V4R8 VM

Publication Title	Order/Form Number
Network Control Program Version 7 Release 8 Migration Guide	SC30-4024
Network Control Program, System Support Programs, and Emulation Program Resource Definition Guide	SC31-6223
Network Control Program, System Support Programs, and Emulation Program Resource Definition Reference	SC31-6224
Planning for NetView, NCP, and VTAM	SC31-8063
Planning for Integrated Networks	SC31-8062

2.4 Program Source Materials

Microfiche program listings are not provided with SSP V4R8 VM. Customers with access to View Program Listings (VPL), such as through SoftwareXcel Extended, can access program listings formerly provided through microfiche.

Those customers without access to VPL can contact their IBM representative.

The VPL facility provides online viewing of program listings that are available to customers.

2.5 Publications Useful During Installation

The publications listed in Figure 9 or Figure 10 on page 9, depending on your VM/ESA release, may be useful during the installation of SSP V4R8 VM. To order copies, contact your IBM representative.

<i>Figure 9. Publications Useful During Installation / Service on VM/ESA V2R2</i>	
Publication Title	Form Number
<i>VM/ESA: VMSES/E Introduction and Reference</i>	SC24-5747
<i>VM/ESA: Service Guide</i>	SC24-5749
<i>VM/ESA: Planning and Administration</i>	SC24-5750
<i>VM/ESA: CMS Command Reference</i>	SC24-5776
<i>VM/ESA: CMS File Pool Planning, Administration, and Operation</i>	SC24-5751
<i>VM/ESA: System Messages and Codes</i>	SC24-5784

<i>Figure 10. Publications Useful During Installation / Service on VM/ESA V2R3 and V2R4</i>	
Publication Title	Form Number
<i>VM/ESA: VMSES/E Introduction and Reference</i>	GC24-5837
<i>VM/ESA: Service Guide</i>	GC24-5838
<i>VM/ESA: Planning and Administration</i>	SC24-5750
<i>VM/ESA: CMS Command Reference</i>	SC24-5776
<i>VM/ESA: CMS File Pool Planning, Administration, and Operation</i>	SC24-5751
<i>VM/ESA: System Messages and Codes</i>	GC24-5841

3.0 Program Support

This section describes the IBM support available for SSP V4R8 VM.

3.1 Preventive Service Planning

Before installing SSP V4R8 VM, check with your IBM Support Center or use IBMLink (Service Link) to determine if there is additional Preventive Service Planning (PSP) information. To obtain this information, specify the following UPGRADE and SUBSET values:

<i>Figure 11. PSP Upgrade and Subset ID</i>			
Retain			
COMPID	Release	Upgrade	Subset
565400900	480	SSP480	480/0019

3.2 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 provide the address to which any needed documentation can be sent.

Figure 12 identifies the component ID (COMPID), RETAIN Release, and Field Engineering Service Number (FESN) for SSP V4R8 VM.

<i>Figure 12. Component IDs</i>			
Retain			
COMPID	Release	Component Name	FESN
565400900	480	SSP V4R8 VM Refresh	0466643

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of SSP V4R8 VM. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs shipped with this program. Information about the cumulative service tape is also provided.

4.1 Program Level Information

The program level refers to the APAR fixes incorporated into SSP V4R8 VM.

See Appendix A, "APARs Incorporated into this Program" on page 49, for a complete listing of the APARs incorporated into this program.

4.2 Service Level Information

The service level refers to the PTFs integrated into the program. See A.1, "PTFs and APARs Incorporated into This Service Level" on page 49 for a list of PTFs that are incorporated into this service level and their corresponding APARs.

Check the SSP480 PSP bucket for any additional PTFs that should be installed or any additional install information.

4.3 Cumulative Service Tape

Cumulative service for SSP V4R8 VM is available through a monthly corrective service tape, Expanded Service Option (ESO).

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing SSP V4R8 VM.

5.1 Hardware Requirements

There are no special hardware requirements for SSP V4R8 VM.

5.2 Program Considerations

The following sections list the programming considerations for installing SSP V4R8 VM.

5.2.1 Operating System Requirements

SSP V4R8 VM supports the following VM operating systems for as long as program services are available for the particular version and release.

- VM/ESA V2R2 or later.
- VMSES/E on VM/ESA V2R2 or later. Prior to installing SSP V4R8 VM, the following must be applied:
 - For VM/ESA V2R2, RSU 9904 with PTF UM29440
 - For VM/ESA V2R3, RSU 9905 with PTF UM29441
 - For VM/ESA V2R4, RSU 9904 with PTF UM29442
- High Level Assembler V1R2 or later (5696-234).

5.2.2 Other Program Product Requirements

5.2.2.1 Programming Requirements:

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 VM or MVS versions, refer to the IBM BookManager home page at <http://booksrv2.raleigh.ibm.com>.

5.2.3 Machine Requirements

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

5.2.3.1 Minimum Requisites:

A minimum requisite is defined as 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.
- *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.

VM/ESA APAR VM61534 is required to use the High Level Assembler.

SSP V4R8 VM supports the following licensed VM programs at the function level of the version and release for as long as program services are available for the particular version and release.

- NCP V7R1 or later
- NCP V6R3
- NCP V5R4
- NCP V4R3.1

5.2.3.2 Functional Requisites:

The IFWNET CLIST requires NetView V2R3, or later, with REXX support.

SSP V4R8 VM supports the following licensed VM programs at the function level of the version and release for as long as program services are available for the particular version and release.

- Emulation Program R14
- Emulation Program R12
- Emulation Program R11
- Emulation Program R9
- Emulation Program R8
- Emulation Program R6.1

5.2.3.3 Compatibility Requisites:

The following sections describe cross product service considerations for NCP, NPSI, DFSMS, and VSE.

5.2.3.4 NCP:

The NCP APARs listed in Figure 13 are required to generate NCP with SSP NDF.

<i>Figure 13. NCP APARs Required to Generate NCP with SSP NDF</i>	
Product Name	APAR
NCP V4R3.1	IR82746
	IR83237
	IR83303
	IR83307
	IR83826
	IR83952
	IR86790
	IR89297

The NCP APAR listed in Figure 14 is required if you want to code RNRLIMIT on a NTRI logical GROUP definition statement in NCP V5R4.

<i>Figure 14. NCP APAR Required to Code RNRLIMIT</i>	
Product Name	APAR
NCP V5R4	IR99583

The NCP APARs listed in Figure 15 are required if your generation definition contains frame-relay boundary access node (BAN) connections.

<i>Figure 15. NCP APARs Required to Code BAN Connections</i>	
Product Name	APAR
NCP V7R1	IR28397
NCP V7R2	IR28239

The NCP APAR listed in Figure 16 is required to code a default TCP/IP route in NCP V7R1.

<i>Figure 16. NCP APAR required to Code a Default TCP/IP Route in NCP V7R1</i>	
Product Name	APAR
NCP V7R1	IR26000

The NCP APARs listed in Figure 17 are required if you use the ADDIFG keyword to increase the inter-frame gap for IBM 3746 Model 900 frame relay, SDLC, or X.25 physical lines.

<i>Figure 17. NCP APARs Required to Increase the Inter-Frame Gap</i>	
Product Name	APAR
NCP V6R3	IR27091
NCP V7R1	IR27090

The NCP APARs listed in Figure 18 are required if you want NCP to initiate the deactivation of an out-of-sequence virtual route (VR).

<i>Figure 18. NCP APARs Required to Initiate Deactivation of an Out-of-Sequence Virtual Route (VR)</i>	
Product Name	APAR
NCP V7R1	IR35146
NCP V7R2	IR35146
NCP V7R3	IR35146
NCP V7R4	IR35146
NCP V7R5	IR35146

The NCP APAR listed in Figure 19 is required if you want to use a duplicate TIC configuration for subarea connections.

<i>Figure 19. NCP APAR Required to Use a Duplicate TIC Configuration for Subarea Connections</i>	
Product Name	APAR
NCP V7R5	IR35842

The NCP APAR listed in Figure 20 is required if you generate backup channel connections for the NCP-NCPROUTE IP interface.

<i>Figure 20. NCP APAR Required to Generate Backup Channel Connections for NCP-NCPROUTE IP Interface</i>	
Product Name	APAR
NCP V7R5	IR33961

The NCP APAR listed in Figure 21 is required if you generate INN connections using LIC16 ISDN to ISDN TA.

<i>Figure 21. NCP APAR Required to Generate INN Connections</i>	
Product Name	APAR
NCP V7R5	IR34013

The NCP APAR listed in Figure 22 is required if you code MAXDLCI for an ISDN physical line (D-Channel).

<i>Figure 22. NCP APAR Required to Code MAXDLCI for D-Channel</i>	
Product Name	APAR
NCP V7R5	IR33979

The NCP APARs listed in Figure 23 are required if you code USGTIER=1, 2, 2.5, or 3 and have only channel links defined, and you wish to take advantage of the higher limits regarding the number of channel links that can be defined.

<i>Figure 23. NCP APARs Required If You Code USGTIER=1, 2, 2.5, or 3</i>	
Product Name	APAR
NCP V7R1	IR34014
NCP V7R2	IR34014
NCP V7R3	IR34014
NCP V7R4	IR34014
NCP V7R5	IR34014

The NCP APAR listed in Figure 24 is required if you code QSZALERT on the BUILD statement to determine if a session or station is using an inordinate number of buffers.

<i>Figure 24. NCP APAR Required to Include QSZALERT Function in NCP V7R5.</i>	
Product Name	APAR
NCP V7R5	IR36167

The NCP APARs listed in Figure 25 are required if you want to use CIR (Committed Information Rate) for bandwidth management of the 3746 Model 900 frame-relay lines.

<i>Figure 25. NCP APARs Required for Committed Information Rate (CIR)</i>	
Product Name	APAR
NCP V7R3	IR36380
NCP V7R4	IR36380
NCP V7R5	IR36380
NCP V7R6	IR36484

The NCP APAR listed in Figure 26 is required if you want to code TRANSBUF to indicate the number of transmission head buffers allocated for 3745 frame-relay physical lines.

<i>Figure 26. NCP APAR Required for Transmission Head Buffers</i>	
Product Name	APAR
NCP V7R6	IR36886

The NCP APARs listed in Figure 27 are required to support up to 32 ESCON stations on the 3746 Model 900.

<i>Figure 27. NCP APARs Required to Support 32 ESCON Stations</i>	
Product Name	APAR
NCP V7R7 MVS, VM	IR40131
NCP V7R6 MVS, VM	IR40131
NCP V7R7 VSE	IR40134
NCP V7R6 VSE	IR40134

The NCP APARs listed in Figure 28 are required to support 3746 Model 900 Token Ring (TIC 3) connection balancing.

<i>Figure 28. NCP APARs Required to Support TIC 3 Connection Balancing</i>	
Product Name	APAR
NCP V7R7 MVS, VM	IR40132
NCP V7R6 MVS, VM	IR40132
NCP V7R7 VSE	IR40135
NCP V7R6 VSE	IR40135

The NCP APARs listed in Figure 29 are required to support 3746 Model 900 Frame Relay BAN connection balancing.

<i>Figure 29. NCP APARs Required to Support Frame Relay BAN Connection Balancing</i>	
Product Name	APAR
NCP V7R7 MVS, VM	IR40133
NCP V7R7 VSE	IR40136

The NCP APARs listed in Figure 30 are required if you generate EP R14 standalone with NCP V7R7.

<i>Figure 30. NCP APARs Required to Generate EP R14 Standalone with NCP V7R7</i>	
Product Name	APAR
NCP V7R7 MVS, VM	IR41021
NCP V7R7 VSE	IR41022

The NCP APARs listed in Figure 31 are required if you predefine a bridged Token Ring 3745 subarea route.

<i>Figure 31. NCP APARs Required to Predefine a bridged TR 3745 subarea route</i>	
Product Name	APAR
NCP V7R8 MVS, VM	IR42305
NCP V7R8 VSE	IR42306

The NCP APARs listed in Figure 32 are required if you want to validate the state of DYNPOOL control blocks when they are placed on the dispatching queue.

Figure 32. NCP APARs Required for DYNPOOL control blocks validation

Product Name	APAR
NCP V7R2 MVS	IR42308
NCP V7R3 MVS, VM	IR42308
NCP V7R4 MVS, VM	IR42308
NCP V7R4 VSE	IR42321
NCP V7R5 MVS, VM	IR42308
NCP V7R5 VSE	IR42321
NCP V7R6 MVS, VM	IR42308
NCP V7R6 VSE	IR42321
NCP V7R7 MVS, VM	IR42308
NCP V7R7 VSE	IR42321
NCP V7R8 MVS, VM	IR42308
NCP V7R8 VSE	IR42321

The NCP APARs listed in Figure 33 are required if you code PLPIGGYB or NETTYPE=3 for 3746 Model 900 X.25 lines.

Figure 33. NCP APARs Required to code PLPIGGYB or NETTYPE for 3746 Model 900 X.25

Product Name	APAR
NCP V7R8 MVS, VM	IR42600
NCP V7R8 VSE	IR42602

The NCP APARs listed in Figure 34 are required if you code the dw or dwc suboperand on the DYNWIND keyword for 3746 Model 900 Token Ring resources.

Figure 34. NCP APARs Required to use DYNWIND enhancements for 3746 Model 900 TR

Product Name	APAR
NCP V7R8 MVS, VM	IR42608
NCP V7R8 VSE	IR42611

5.2.3.5 NPSI:

The NPSI APARs shown in Figure 35 are required to generate NPSI V3R8 with NCP V7R4, NCP V7R5, or NCP V7R6.

Figure 35. NPSI APARs Required to Generate NPSI V3R8 with NCP V7R4, NCP V7R5, or NCP V7R6

Product Name	APAR
NCP NPSI V3R8	IR32271 IR37825

5.2.3.6 DFSMS:

The APARs listed in Figure 36 are required to use the High Level Assembler.

Figure 36. APARs Required to Use the High Level Assembler

Product Name	APAR
DFSMS/MVS Binder	OW26738
DFSMS/MVS Linkage Editor	OW27802
VM/ESA Linkage Editor	VM61534

5.2.3.7 VSE:

The APARs listed in Figure 37 are required to use SSP V4R8.

<i>Figure 37. APARs Required to Use the High Level Assembler</i>	
Product Name	APAR
VSE/ESA V2	DY45166
VSE/ESA V1R4	DY45163

5.2.3.8 EP/PEP:

The EP APAR shown in Figure 38 is required to generate EP/PEP R14 with SSP NDF.

<i>Figure 38. EP APAR Required to Generate EP/PEP R14 with SSP NDF.</i>	
Product Name	APAR
EP/PEP R14	IR39913

5.3 Program Installation and Service Considerations

This section describes items that should be considered before you install or service SSP V4R8 VM.

- VMSES/E is required to install and service this product.
- If multiple users install and maintain licensed products on your system, there may be a problem getting the necessary access to MAINT's 51D disk. If you find there is contention for write access to the 51D disk, you can eliminate it by converting the Software Inventory from minidisk to Shared File System (SFS). Refer to *VMSES/E Introduction and Reference*, "Changing the Software Inventory to an SFS Directory" section, for information about how to make this change.
- Customers will no longer install and service SSP V4R8 VM strictly using the MAINT user ID, but will use a new user ID, P654009F. This is the IBM suggested user ID name. You are free to change this to any user ID name you wish; however, a PPF override must be created.

Note: It may be easier to make the changes during the installation procedure 6.2, "Plan Your Installation For SSP V4R8 VM," step 6 on page 29, than after you have installed this product.

5.4 DASD Storage and User ID Requirements

Figure 39 on page 25 lists the user IDs and minidisks that are used to install and service SSP V4R8 VM.

Important Installation Notes:

- User ID(s) and minidisks and SFS directories will be defined in 6.2, “Plan Your Installation For SSP V4R8 VM” on page 28 and are listed here so that you can get an idea of the resources that you will need prior to allocating them.
- P654009F is a default user ID and can be changed. If you choose to change the name of the installation user ID, you need to create a Product Parameter Override (PPF) to change the name. This can be done in 6.2, “Plan Your Installation For SSP V4R8 VM,” step 6 on page 29 .

Note: If you choose to install SSP V4R8 VM on a common user ID, the default minidisk addresses for SSP V4R8 VM may already be defined. If any of the default minidisks required by SSP V4R8 VM are already in use, you have to create an override to change the default minidisks for SSP V4R8 VM so they are unique.

- This release builds the ASM3705 assembler. A link to the CMSTOOLS (193) disk has been added to the Prodpart file.

<i>Figure 39 (Page 1 of 2). DASD Storage Requirements for Target Minidisks</i>						
Minidisk owner (user ID)	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4-K Blocks	Usage
		DASD	CYLS			Default SFS Directory Name
P654009F	2B2	3390 3380 9345	37 45 45	53500	6700	Contains all the base code shipped with SSP V4R8 VM VMSYS:P654009F.SSP.OBJECT
P654009F	2C2	3390 3380 9345	4 5 5	6000	750	Contains customization files. This disk may also be used for local modifications. VMSYS:P654009F.SSP.LOCAL
P654009F	2D2	3390 3380 9345	16 20 20	36000	4500	Contains serviced files VMSYS:P654009F.SSP.DELTA
P654009F	2A6	3390 3380 9345	16 20 20	24000	3000	Contains AUX files and software inventory tables that represent the test service level of SSP V4R8 VM VMSYS:P654009F.SSP.APPLYALT
Note: Cylinder values defined in this table are based on a 4-K block size. FB-512 block and SFS values are derived from the 3380 cylinder values in this table. The FBA blocks are listed as 1/2-K but should be CMS formatted at 1-K size. 31 450 4-K blocks are needed for SFS install.						

Figure 39 (Page 2 of 2). DASD Storage Requirements for Target Minidisks

Minidisk owner (user ID)	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4-K Blocks	Usage
		DASD	CYLS			Default SFS Directory Name
P654009F	2A2	3390 3380 9345	16 20 20	24000	3000	Contains AUX files and software inventory tables that represent the service level of SSP V4R8 VM that is currently in production. VMSYS:P654009F.SSP.APPLYPRD
P654009F	400	3390 3380 9345	25 30 30	36000	4500	Test BUILD disk. This code will be copied to a production disk. VMSYS:P654009F.SSP.TRUN
P654009F	401	3390 3380 9345	25 30 30	36000	4500	Production BUILD disk. Files from the test BUILD disk are copied here for application use. VMSYS:P654009F.SSP.RUN
P654009F	191	3390 3380 9345	25 30 30	36000	4500	P654009F user ID's 191 minidisk VMSYS:P654009F.

Note: Cylinder values defined in this table are based on a 4-K block size. FB-512 block and SFS values are derived from the 3380 cylinder values in this table. The FBA blocks are listed as 1/2-K but should be CMS formatted at 1-K size. 31 450 4-K blocks are needed for SFS install.

6.0 Installation Instructions

This section describes the installation methods and the step-by-step procedures to install SSP V4R8 VM.

The step-by-step procedures are in two column format. The steps to be performed are in bold large numbers. Commands for these steps are on the left hand side of the page in bold print. Additional information for a command may exist to the right of the command. For more information about the two column format refer to "Understanding Dialogs with the System" in *VM/ESA Installation Guide* (SC24-5526).

Each step of the installation instructions must be followed. Do not skip any step unless directed otherwise.

Throughout these instructions, the use of IBM-supplied default minidisk addresses and user IDs is assumed. If you use different user IDs, minidisk addresses, or SFS directories to install SSP V4R8 VM, adapt these instructions as needed for your environment.

Note!

The sample console output presented throughout these instructions was produced on a VM/ESA R2.2.0 system. If you are installing SSP V4R8 VM on a different VM/ESA system, the results obtained for some commands may differ from those depicted here.

6.1 VMSES/E Installation Process Overview

The following is a brief description of the main steps in installing SSP V4R8 VM using VMSES/E.

- Plan Your Installation

Use the VMFINS command to load several VMSES/E files from the product tape and to obtain SSP V4R8 VM resource requirements.

- Allocate Resources

The information obtained from the previous step is used to allocate the appropriate minidisks (or SFS directories) and user IDs needed to install and use SSP V4R8 VM.

- Install the SSP V4R8 VM Product

Use the VMFINS command to load the SSP V4R8 VM product files from tape to the test BUILD and BASE minidisks/directories. VMFINS is used to update the VM SYSBLDS file used by VMSES/E for software inventory management.

- Place SSP V4R8 VM Files into Production

Once the product files have been installed and the operation of SSP V4R8 VM is satisfactory, the product files are copied from the test BUILD disk to the production BUILD disk.

For a complete description of all VMSES/E installation options refer to *VMSES/E Introduction and Reference*.

6.2 Plan Your Installation For SSP V4R8 VM

The VMFINS command will be used to plan the installation. This section has 2 main steps that will:

- load the first tape file, containing installation files
- generate a “PLANINFO” file listing
 - all user ID and minidisk/SFS directory requirements
 - required products

To obtain planning information for your environment:

1 Log on as SSP V4R8 VM installation planner.

This user ID can be any ID that has read access to MAINT’s 5E5 minidisk and write access to the MAINT 51D minidisk.

2 Mount the SSP V4R8 VM installation tape and attach it to the user ID at virtual address 181. The VMFINS EXEC requires the tape drive to be at virtual address 181.

3 Establish read access to the VMSES/E code.

**link MAINT 5e5 5e5 rr
access 5e5 b**

The MAINT 5E5 disk contains the VMSES/E code.

4 Establish write access to the Software Inventory disk.

**link MAINT 51d 51d mr
access 51d d**

The MAINT 51D disk is where the VMSES/E system-level Software Inventory and other dependent files reside.

Note: If another user already has the MAINT 51D minidisk linked in write mode (R/W), you only obtain read access (R/O) to this minidisk. If this occurs, you need to have that user re-link the 51D in read-only mode (RR), and re-issue the above LINK and ACCESS commands. Do not continue with these procedures until a R/W link is established to the 51D minidisk.

5 Load the SSP V4R8 VM product control files to the 51D minidisk.

vmfins install info (nomemo)

The NOMEMO option will load the memos from the tape but will not issue a prompt to send them to the system printer. Specify the MEMO option if you want to be prompted for printing the memo.

This command will perform the following:

- load Memo-to-Users
- load various product control files, including the Product Parameter File (PPF) and the PRODPART files
- create VMFINS PRODLIST on your A-disk. The VMFINS PRODLIST contains a list of products on the installation tape.

```
VMFINS2760I VMFINS processing started
VMFINS1909I VMFINS PRODLIST created on your A-disk
VMFINS2760I VMFINS processing completed successfully
Ready;
```

6 Obtain resource planning information for SSP V4R8 VM.

Notes:

- a. The product will **not** be loaded by the VMFINS command at this time.

vmfins install ppf 5654009F {SSP | SSPSFS} (plan nomemo)

Use **SSP** for installing on minidisks or **SSPSFS** for installing in Shared File System directories.

The PLAN option indicates that VMFINS will perform requisite checking, plan system resources, and provide an opportunity to override the defaults in the product parameter file.

You can override any of the following:

- the name of the product parameter file
- the default user IDs
- minidisk/directory definitions

Notes:

- a. If you change the PPF name, a default user ID, or other parameters via a PPF override, you need to use your changed values instead of those indicated (when appropriate), throughout the rest of the installation instructions, as well as the instructions for servicing SSP V4R8 VM. For example, you need to specify your PPF override file name instead of 5654009F for certain VMSES/E commands.
- b. If you are not familiar with creating PPF overrides using VMFINS, you should review the “Using the Make Override Panel” section in the *VMSES/E Introduction and Reference* before you continue.
- c. For more information about changing the VMSYS file pool name, refer to *VMSES/E Introduction and Reference*.

```
VMFINS2760I VMFINS processing started
VMFREQ2805I Product 5654009F component SSP passed requisite checking
Do you want to create an override for 5654009F SSP (prodid 5654009F)?
Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFRMT2760I VMFRMT processing started
VMFRMT2760I VMFRMT processing completed successfully
VMFPLA1909I 5654009F PLANINFO created on your A-disk
VMFINS2760I VMFINS processing completed successfully
```

- 7** Review the install message log (\$VMFINS \$MSGLOG). If necessary, correct any problems before proceeding. For information about handling specific error messages, refer to *VM/ESA: System Messages and Codes*, or use on-line HELP.

vmfview install

6.3 Allocate Resources for Installing SSP V4R8 VM

Use the planning information in the 5654009F PLANINFO file, created in the **PLAN** step, to:

- Create the P654009F user directory for minidisk install

OR

- Create the P654009F user directory for SFS install

6.3.1 Installing SSP V4R8 VM on Minidisk

1 Obtain the user directory from the 5654009F PLANINFO file.

Note: The user directory entry is located at the bottom of the PLANINFO file of the resource section; these entries will contain all of the links and privilege classes necessary for the P654009F user ID. Use the directory entry found in PLANINFO as a model for input to your system directory.

2 Add the MDISK statements to the directory entry for P654009F. Use Figure 39 on page 25 to obtain the minidisk requirements.

3 If you are installing SSP V4R8 VM on a VM/ESA 370 system, the following directory entry change must be made:

- For the P654009F directory entry:
 - Change the user ID storage from 24M to 16M.
 - Comment out or remove the MACHINE XA statement from the directory entry.

4 Add the P654009F directory to the system directory. Change the password for P654009F from xxxxx to a valid password, in accordance with your security guidelines.

5 Place the new directories on-line using VM/Directory Maintenance (DIRMAINT) or an equivalent CP directory maintenance method.

Note

All minidisks for the P654009F user ID must be formatted before installing SSP V4R8 VM.

6.3.2 Installing SSP V4R8 VM in SFS Directories

1 Obtain the user directory from the 5654009F PLANINFO file.

Note: The user directory entry is located at the bottom of the PLANINFO file of the resource section; these entries contain all of the links and privilege classes necessary for the P654009F user ID. Use the directory entry found in PLANINFO as a model for input to your system directory.

2 If you are installing SSP V4R8 VM on a VM/ESA 370 Feature system, the following directory entry change must be made:

- For the P654009F directory entry:
 - Change the user ID storage from 24M to 16M.

- Comment out or remove the MACHINE XA statement from the directory entry.
- 3** Add the P654009F directory to the system directory. Change the password for P654009F from xxxxx to a valid password, in accordance with your security guidelines.
- 4** Place the new directories on-line using VM/Directory Maintenance (DIRMAINT) or an equivalent CP directory maintenance method.
- 5** An SFS install also requires the following steps:
 - a** Determine the number of 4K blocks that are required for SFS directories by adding up the 4K blocks required for each SFS directory you plan to use.

If you intend to use all of the default SSP V4R8 VM SFS directories, the 4K block requirements for each SSP V4R8 VM are summarized in Figure 39 on page 25.

This information is used when enrolling the P654009F to the VMSYS filepool.
 - b** Enroll user P654009F in the VMSYS filepool using the ENROLL USER command:

```
ENROLL USER P654009F VMSYS: (BLOCKS blocks
```

where *blocks* is the number of 4K blocks that you calculated in the previous step.

Note: This must be done from a user ID that is an administrator for VMSYS: filepool.
 - c** Determine if there are enough blocks available in the filepool to install SSP V4R8 VM. This information can be obtained from the QUERY FILEPOOL STATUS command. Near the end of the output from this command is a list of minidisks in the filepool and the number of blocks free. If the number of blocks free is smaller than the total 4K blocks needed to install SSP V4R8 VM, you need to add space to the filepool. Refer to *VM/ESA SFS/CRR Planning, Administration, and Operation* for information about adding space to a filepool.
 - d** Create the necessary subdirectories listed in the 5654009F PLANINFO file using the CREATE DIRECTORY command.

set filepool vmsys:
create directory *dirid*

dirid is the name of the SFS directory you're creating, such as:

```
create directory vmsys:P654009F.SSP
create directory vmsys:P654009F.SSP.object
:
```

If necessary, refer to *VM/ESA CMS Command Reference* for more information about the CREATE DIRECTORY command.

A complete list of default SSP SFS directories is provided in Figure 39 on page 25.

- e** If you intend to use an SFS directory as the work space for the P654009F user ID, include the following IPL control statement in the P654009F directory entry:

```
IPL CMS PARM FILEPOOL VMSYS
```

This will cause CMS to automatically access the P654009F's top directory as file mode A.

6.4 Install SSP V4R8 VM

The *ppfname* used throughout these installation instructions is **5654009F**, which assumes you are using the PPF supplied by IBM for SSP V4R8 VM. If you have your own PPF override file for SSP V4R8 VM, you should use your file's *ppfname* instead of **5654009F**. The *ppfname* you use should be used **throughout** the rest of this procedure.

- 1** Log on to the installation user ID **P654009F**.
- 2** Create a PROFILE EXEC that will contain the ACCESS commands for MAINT 5E5 and 51D minidisks.

```
xedit profile exec a
====> input /**/
====> input 'access 5e5 b'
====> input 'access 51d d'
====> file
```

If either 5E5 or 51D is in a shared file system (SFS) then substitute your SFS directory name in the access command.

- 3** Execute the profile to access MAINT's minidisks.

profile

- 4** Establish write access to the Software Inventory disk, if it is not already linked R/W.

Note: If the MAINT 51D minidisk was accessed R/O, you need to have the user who has it linked R/W link it as R/O. You can then issue the following commands to obtain R/W access to it.

**link MAINT 51d 51d mr
access 51d d**

5 Have the SSP V4R8 VM installation tape mounted and attached to P654009F at virtual address 181. The VMFINS EXEC requires the tape drive to be at virtual address 181.

6 Install SSP V4R8 VM.

Notes:

If you have already created a PPF override file, you should specify your override file name after the **PPF** keyword for the following VMFINS command.

You may be prompted for additional information during VMFINS INSTALL processing depending on your installation environment. If you are unsure how to respond to a prompt, refer to “Installing Products with VMFINS” and “Install Scenarios” chapters in *VMSES/E Introduction and Reference* to decide how to proceed.

vmfins install ppf 5654009F {SSP | SSPSFS} (nomemo nolink

Use **SSP** for installing on minidisks or **SSPSFS** for installing in Shared File System directories.

The NOLINK option indicates that you don't want VMFINS to link to the appropriate minidisks, only access them if not accessed.

```

VMFINS2760I VMFINS processing started
VMFREQ2805I Product 5654009F component SSP passed requisite checking
Do you want to create an override for 5654009F SSP (prodid 5654009F)?
Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINT2760I VMFINST processing started
VMFSET2760I VMFSETUP processing started
VMFUTL2205I Minidisk|Directory Assignments:
          String      Mode  Stat  Vdev  Label/Directory
VMFUTL2205I LOCALSAM  E     R/W  2C2   SES2C2
VMFUTL2205I APPLY      F     R/W  2A6   SES2A6
VMFUTL2205I              G     R/W  2A2   SES2A2
VMFUTL2205I DELTA      H     R/W  2D2   SES2D2
VMFUTL2205I BUILD0     I     R/W  400   SES400
VMFUTL2205I BASE1      J     R/W  2B2   SES2B2
VMFUTL2205I -----  A     R/W  191   SES191
VMFUTL2205I -----  B     R/O  5E5   MNT5E5
VMFUTL2205I -----  D     R/W  51D   SES51D
VMFUTL2205I -----  S     R/O  190   MNT190
VMFUTL2205I -----  Y/S   R/O  19E   MNT19E
VMFSET2760I VMFSETUP processing completed successfully
VMFREC2760I VMFREC processing started
VMFREC1852I Volume 1 of 1 of INS TAPE 9800
VMFREC1851I (1 of 6) VMFRCAXL processing AXLIST
VMFRCX2159I Loading 2 part(s) to DELTA 2D2 (H)
VMFREC1851I (2 of 6) VMFRCPTF processing PARTLST
VMFRCP2159I Loading 15 part(s) to DELTA 2D2 (H)
VMFREC1851I (3 of 6) VMFRCCOM processing DELTA
VMFRCC2159I Loading 36 part(s) to DELTA 2D2 (H)
VMFREC1851I (4 of 6) VMFRCALL processing APPLY
VMFRCA2159I Loading part(s) to APPLY 2A6 (F)
VMFRCA2159I Loaded 5 part(s) to APPLY 2A6 (F)
VMFREC1851I (5 of 6) VMFRCALL processing BASE
VMFRCA2159I Loading part(s) to BASE1 2B2 (J)
VMFRCA2159I Loaded 2448 part(s) to BASE1 2B2 (J)
VMFREC1851I (6 of 6) VMFRCALL processing BUILD
VMFRCA2159I Loading part(s) to BUILD0 400 (I)
VMFRCA2159I Loaded 129 part(s) to BUILD0 400 (I)
VMFREC2760I VMFREC processing completed successfully
VMFINT2603I Product installed
VMFINS2760I VMFINS processing completed successfully

```

- 7** Review the install message log (\$VMFINS \$MSGLOG). If necessary, correct any problems before proceeding. For information about handling specific error messages, refer to *VM/ESA System Messages and Codes*, or use on-line HELP.

vmfview install

6.4.1 Update Build Status Table for SSP V4R8 VM

- 1 Update the VM SYSBLDS software inventory file for SSP V4R8 VM.

vmfins build ppf 5654009F {SSP | SSPSFS} (serviced nolink

Use **SSP** for installing on minidisks or **SSPSFS** for installing in Shared File System directories.

The SERVICED option will build any parts that were not built on the installation tape (if any) and update the Software Inventory build status table showing that the product 5654009F has been built.

- 2 Review the install message log (\$VMFINS \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, refer to *VM/ESA: System Messages and Codes*, or use on-line HELP.

vmfview install

6.5 Place SSP V4R8 VM Into Production

This section describes the procedure to place SSP V4R8 VM into production.

6.5.1 Copy SSP V4R8 VM Files Into Production

- 1 Log on to P654009F user ID. This user ID owns the disk that will contain the "production" level of the SSP V4R8 VM code.

- a If installing using minidisks

access 400 e

access 401 f

vmfcopy * * e = = f2 (prodid 5654009F%SSP olddate replace

The VMFCOPY command will update the VMSES PARTCAT file on the 401 disk.

- b If installing using Shared File System

access P654009F.SSP.trun e

access P654009F.SSP.run f

vmfcopy * * e = = f2 (prodid 5654009F%SSP olddate replace

The VMFCOPY command will update the VMSES
PARTCAT file on the 401 disk.

SSP V4R8 VM is now installed and built on your system.

7.0 Service Instructions

This section contains the procedure to install CORrective service to SSP V4R8 VM. VMSES/E is used to install service for SSP V4R8 VM.

To become more familiar with service using VMSES/E, you should read the introductory chapters in *VMSES/E Introduction and Reference*. This manual also contains the command syntax for the VMSES/E commands listed in the procedure.

Note: Each step of the service instructions must be followed. Do not skip any step unless otherwise directed. All instructions showing accessing of disks assume the use of default minidisk addresses. If different minidisk addresses are used, or if using a shared file system, change the instructions appropriately.

7.1 VMSES/E Service Process Overview

The following is a brief description of the main steps in servicing SSP V4R8 VM using VMSES/E.

- Setup Environment
Access the software inventory disk. Use VMFSETUP command to establish the correct minidisk access order.
- Merge Service
Use the VMFMRDSK command to clear the alternate apply disk before receiving new service. This allows you to easily remove the new service if a serious problem is found.
- Receive Service
The VMFREC command receives service from the delivery media and places it on the Delta disk.
- Apply Service
The VMFAPPLY command updates the version vector table (VVT), which identifies the service level of all the serviced parts. In addition, AUX files are generated from the VVT for parts that require them.
- Reapply Local Service (if applicable)
All local service (mods) must be entered into the software inventory to allow VMSES/E to track the changes and build them into the system. Refer to Chapter 7 in the *VM/ESA Service Guide* for this procedure.
- Build New Levels
The build task generates the serviced level of an object and places the new object on a test BUILD disk.
- Place the New Service into Production

Once the service is satisfactorily tested, it should be put into production by copying the new service to the production disk, re-saving the NSS (Named Saved System).

7.2 Servicing SSP V4R8 VM

This section describes the procedure to service SSP V4R8 VM.

7.2.1 Prepare to Receive Service

The *ppfname* used throughout these servicing instructions is **5654009F**, which assumes you are using the PPF supplied by IBM for SSP V4R8 VM. If you have your own PPF override file for SSP V4R8 VM, you should use your file's *ppfname* instead of **5654009F**. The *ppfname* you use should be used **throughout** the rest of this procedure, unless otherwise stated differently.

1 Log onto SSP V4R8 VM service user ID **P654009F**

2 Establish access to the software inventory disk.

Note: If the MAINT 51D minidisk was accessed R/O, you need to have the user that has it accessed R/W link it R/O. You can then issue the following commands to obtain R/W access to it.

**link MAINT 51d 51d mr
access 51d d**

The 51D minidisk is where the VMSES/E Software Inventory files and other product dependent files reside.

3 Have the SSP V4R8 VM CORrective service tape mounted and attached to **P654009F**.

4 Establish the correct minidisk access order.

vmfsetup 5654009F {SSP | SSPSFS}

5654009F is the PPF that was shipped with the product. If you have your own PPF override, you should substitute your PPF name for 5654009F.

Use **SSP** for installing on minidisks or **SSPSFS** for installing in Shared File System directories.

5 Receive the documentation. VMFREC, with the INFO option, loads the documentation and displays a list of all the products on the tape.

Electronic Service

If you are receiving service from Service Link (electronic service), refer to Appendix A, "Receiving Service for VMSES Envelopes", section "Receive Service Documentation", in the *VM/ESA Service Guide*. Remember to substitute the *ppfname* and *compname* used for servicing SSP V4R8 VM in the instructions shown in that Appendix. Then return back to this program directory and continue with step 7 on page 41 below.

vmfrec info

This command will load the service memo to the 191 disk.

- 6 Check the receive message log (\$VMFREC \$MSGLOG) for warning and error messages.

vmfview receive

Also make note of which products and components have service on the tape. To do this, use the PF5 key to show all status messages which identify the products on the tape.

- 7 Clear the alternate APPLY disk to ensure that you have a clean disk for new service.

vmfmrdsd 5654009F {SSP | SSPSFS} apply

Use **SSP** for installing on minidisks or **SSPSFS** for installing in Shared File System directories.

This command clears the alternate APPLY disk.

- 8 Review the merge message log (\$VMFMRD \$MSGLOG). If necessary, correct any problems before proceeding. For information about handling specific error messages, refer to *VM/ESA System Messages and Codes*, or use on-line HELP.

vmfview mrd

7.2.2 Receive the Service

Note: If you are installing multiple service tapes, you can receive all of the service for this prodid before applying and building it.

Electronic Service

If you are receiving service from Service Link (electronic service), refer to Appendix A, "Receiving Service for VMSES Envelopes", section "Receive the Service", in the *VM/ESA Service Guide*. Remember to substitute the *ppfname* and *compname* used for servicing SSP V4R8 VM in the instructions shown in that Appendix. Then return back to this program directory and continue with section 7.2.3, "Apply the Service."

For **each** service tape you want to receive, do the following:

- 1 Receive the service.

vmfrec ppf 5654009F {SSP | SSPSFS}

Use **SSP** for installing on minidisks or **SSPSFS** for installing in Shared File System directories.

This command receives service from your service tape. All new service is loaded to the DELTA disk.

- 2 Review the receive message log (\$VMFREC \$MSGLOG). If necessary, correct any problems before proceeding. For information about handling specific error messages, refer to *VM/ESA System Messages and Codes*, or use on-line HELP.

vmfview receive

7.2.3 Apply the Service

- 1 Apply the new service.

vmfapply ppf 5654009F {SSP | SSPSFS}

Use **SSP** for installing on minidisks or **SSPSFS** for installing in Shared File System directories.

This command applies the service that you just received. The version vector table (VVT) is updated with all serviced parts and all necessary AUX files are generated on the alternate apply disk.

You must review the VMFAPPLY message log if you receive a return code (RC) of a 4, as this may indicate that you have local modifications that need to be reworked.

- 2** Review the apply message log (\$VMFAPP \$MSGLOG). If necessary, correct any problems before proceeding. For information about handling specific error messages, refer to *VM/ESA System Messages and Codes*, or use on-line HELP.

vmfview apply

Note

If you get message VMFAPP2120W, re-apply any local modifications before building the new SSP V4R8 VM. Refer to Chapter 7 in *VM/ESA Service Guide*. Follow the steps that are applicable to your local modification.

The following substitutions need to be made:

- **esalcl** should be **5654009F**
- **esa** should be **5654009F**
- *compname* should be **SSP** or **SSPSFS** (minidisk or SFS)
- *appid* should be **5654009F**
- *fm-local* should be the fm of 2C2
- *fm-applyalt* should be the fm of 2A6

If you have changed any of the installation parameters through a PPF override, you need to substitute your changed values where applicable.

Keep in mind when you get to the “Rebuilding Objects” step in *VM/ESA Service Guide*, you should return to this program directory at 7.2.4, “Update the Build Status Table.”

7.2.4 Update the Build Status Table

- 1 Update the Build Status Table with serviced parts.

vmfbld ppf 5654009F {SSP | SSPSFS} (status

Use **SSP** for installing on minidisks or **SSPSFS** for installing in Shared File System directories.

This command updates the Build Status Table.

Note

If the \$PPF files have been serviced, you get the following prompt:

VMFBLD2185R The following source product parameter files
have been serviced:

VMFBLD2185R 5654009F \$PPF

VMFBLD2185R When source product parameter files are serviced,
all product parameter files built from them must
be recompiled using VMFPPF before VMFBLD
can be run.

VMFBLD2185R Enter zero (0) to have the serviced source
product parameter files built to your A-disk
and exit VMFBLD so you can recompile your
product parameter files with VMFPPF.

VMFBLD2185R Enter one (1) to continue only if you have
already recompiled your product parameter files with VMFPPF.

0

Enter a 0 and complete the following steps
before you continue.

VMFBLD2188I Building 5654009F \$PPF
on 191 (A) from level \$PFnnnnn

vmfppf 5654009F {SSP | SSPSFS}

Note: If you created your own PPF override,
use your PPF name instead of 5654009F.

Use **SSP** for installing on minidisks or
SSPSFS for installing in Shared File System
directories.

**copyfile 5654009F \$PPF a = = d (olddate replace
erase 5654009F \$PPF a**

Note: **Do not** use your own PPF name in
place of 5654009F for the COPYFILE and
ERASE commands.

vmfbld ppf 5654009F {SSP | SSPSFS} (status

1

Re-issue VMFBLD to complete updating the
build status table.

Use **SSP** for installing on minidisks or
SSPSFS for installing in Shared File System
directories. When you receive the prompt that
was previously displayed, enter a 1 to
continue.

- 2 Use VMFVIEW to review the build status messages, and see what objects need to be built.

vmfview build

7.2.5 Build Serviced Objects

- 1 Rebuild SSP V4R8 VM serviced parts.

vmfblid ppf 5654009F {SSP | SSPSFS} (serviced

Use **SSP** for installing on minidisks or **SSPSFS** for installing in Shared File System directories.

Note: If your software inventory disk (51D) is not owned by the MAINT user ID then make sure the VMSESE PROFILE reflects the correct owning user ID.

- 2 Review the build message log (\$VMFBLD \$MSGLOG). If necessary, correct any problems before proceeding. For information about handling specific error messages, refer to *VM/ESA System Messages and Codes*, or use on-line HELP.

vmfview build

7.3 Place the New SSP V4R8 VM Service Into Production

This section describes the procedure to place the new SSP V4R8 VM Service into production.

7.3.1 Copy the New SSP V4R8 VM Serviced Files Into Production

- 1 Log on to P654009F user ID. This user ID owns the disk that will contain the “production” level of the SSP V4R8 VM code.
 - a If installing using minidisks

access 400 e
access 401 f
vmfcopy * * e = = f2 (prodid 5654009F%SSP olddate replace

The VMFCOPY command will update the VMSES
PARTCAT file on the 401 disk.

b If installing using Shared File System

access P654009F.SSP.trun e
access P654009F.SSP.run f
vmfcopy * * e = = f2 (prodid 5654009F%SSP olddate replace

The VMFCOPY command will update the VMSES
PARTCAT file on the 401 disk.

You have finished servicing SSP V4R8 VM.

Appendix A. APARs Incorporated into this Program

The following SSP V4R7 APARs are incorporated into this program:

IR39171	IR39828
IR39413	IR39834
IR39477	IR39846
IR39535	IR39879
IR39540	IR39986
IR39545	IR40067
IR39653	IR40080
IR39684	IR40162
IR39689	IR40250
IR39695	IR40488
IR39709	IR40515
IR39755	

A.1 PTFs and APARs Incorporated into This Service Level

The following SSP V4R8 PTFs and their corresponding APARs are incorporated into this service level.

Figure 40. SSP V4R8 PTFs and Corresponding APARs for Service Level 0019

PTF	CORRESPONDING APAR(S)
UR51790	IR41497,IR41514
UR51800	IR41517,IR41799
UR51839	IR41847
UR51904	IR41933
UR51963	IR42170
UR52104	IR42376
UR52191	IR42378
UR52194	IR42562
UR52195	IR42636
UR52198	IR42638
UR52199	IR42640
UR52229	IR42618
UR52231	IR42662
UR52232	IR42664
UR52238	IR42855

Reader's Comments

Program Directory for System Support Programs Version 4 Release 8, Service Level 0019, for VM

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Ease of product installation	1	2	3	4	5	N
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Time to install the product	1	2	3	4	5	N
Readability and organization of program directory tasks	1	2	3	4	5	N
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Accuracy of the definition of the installation tasks	1	2	3	4	5	N
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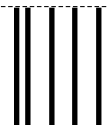
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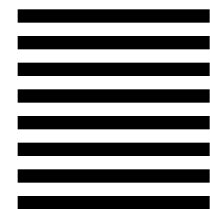
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