



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

Version 4 Release 7

Program Number 5686-064

for Use with  
VSE/ESA

Document Date: October 1998

GI10-0991-00

**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 October 1998, applies to System Support Programs Version 4 Release 7 for VSE (SSP V4R7 VSE), program number 5686-064 for the following:

<b>CLC</b>	<b>Feature Numbers</b>	<b>System Names</b>
47F	5801/5802/5700	VSE/ESA

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

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# Contents

<b>Notices</b> . . . . .	vii
Notice to Users of Online Versions of This Book . . . . .	viii
Trademarks . . . . .	viii
<b>1.0 Introduction</b> . . . . .	1
<b>2.0 Program Materials</b> . . . . .	3
2.1 Basic Machine-Readable Material . . . . .	3
2.2 Optional Machine-Readable Material . . . . .	4
2.3 Program Publications . . . . .	4
2.3.1 Basic Program Publications . . . . .	4
2.3.2 Optional Basic Program Publications . . . . .	4
2.3.3 Optional Licensed Program Publications . . . . .	4
2.3.4 Softcopy Publications . . . . .	5
2.3.5 Publications Associated with SSP V4R7 VSE . . . . .	5
2.4 Program Source Materials . . . . .	6
2.5 Publications Useful During Installation . . . . .	6
<b>3.0 Program Support</b> . . . . .	7
3.1 Preventive Service Planning . . . . .	7
3.2 Statement of Support Procedures . . . . .	7
<b>4.0 Program and Service Level Information</b> . . . . .	9
4.1 Program Level Information . . . . .	9
4.2 Service Level Information . . . . .	9
4.3 Cumulative Service Tape . . . . .	9
<b>5.0 Installation Requirements and Considerations</b> . . . . .	11
5.1 Target System Requirements . . . . .	11
5.1.1 Operating System Requirements . . . . .	11
5.1.2 Machine Requirements . . . . .	11
5.1.3 Programming Requirements . . . . .	11
5.1.4 DASD Storage Requirements . . . . .	11
5.2 Program Considerations . . . . .	12
5.2.1 Operating System Requirements . . . . .	12
5.2.2 Machine Requirements . . . . .	12
5.2.3 Programming Requirements . . . . .	12
5.2.3.1 Minimum Requisites . . . . .	12
5.2.3.2 Functional Requisites . . . . .	12
5.2.3.3 Compatibility Requisites . . . . .	13
5.2.3.3.1 NCP . . . . .	13
5.2.3.3.2 NPSI . . . . .	16

5.2.3.3.3 DFSMS	16
5.2.4 System Considerations	16
5.2.5 Special Considerations	16
<b>6.0 Installation Instructions</b>	<b>17</b>
6.1 Installing SSP V4R7 VSE	17
6.1.1 Step 1: Define VSE Product Library	17
6.1.2 Step 2: Install Production Sublibrary	17
6.2 Installation Using the VSE Interactive Interface	18
<b>Appendix A. APARs Incorporated into this Program</b>	<b>19</b>
<b>Reader's Comments</b>	<b>21</b>

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## Figures

1. High Level Assembler Integrated with Operating System	2
2. Basic Material: Program Tape	3
3. Program Tape: File Content	3
4. Basic Material: Program Publications	4
5. Optional Material: Licensed Program Publications	5
6. Softcopy Publications	5
7. Publications Associated with SSP V4R7 VSE	5
8. Publications Useful During Installation	6
9. PSP Information	7
10. Component ID	7
11. Space Requirements for Installing SSP V4R7 VSE	12
12. NCP APARs Required to Generate NCP with SSP NDF	13
13. NCP APAR Required to Code a Default TCP/IP Route in NCP V7R1	13
14. NCP APAR Required to Code RNRLIMIT	13
15. NCP APARs Required to Code BAN Connections	14
16. NCP APARs Required to Use ADDIFG Keyword	14
17. NCP APARs Required to Initiate Deactivation of an Out-of-Sequence Virtual Route	14
18. NCP APAR Required to Use Duplicate TIC Configuration for Subarea Connections	14
19. NCP APAR Required to Generate Backup Channel Connections for NCP-NCROUTE IP Interface	14
20. NCP APAR Required to Generate INN Connections	15
21. NCP APAR Required to Code MAXDLCI for D-Channel	15
22. NCP APARs Required if you code USGTIER=1, 2, 2.5, or 3	15
23. NCP APAR Required to Include QSZALERT Function in NCP V7R5.	15
24. NCP APARs Required for Committed Information Rate (CIR)	15
25. NCP APAR Required for Transmission Head Buffers	16

26.	NPSI APARs Required to Generate NPSI V3R8 with NCP V7R4, NCP V7R5, or NCP V7R6 . . .	16
27.	APARs Required to Use the High Level Assembler . . . . .	16
28.	Sample JCL to Define a VSE Library . . . . .	17
29.	Sample JCL to Install Production Sublibraries . . . . .	18



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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 V4R7 VSE. You should read all of this program directory before installing the program and then keep it for future reference.

This directory contains the following sections:

- 2.0, "Program Materials" on page 3 identifies the basic and optional program materials and documentation for SSP V4R7 VSE.
- 3.0, "Program Support" on page 7 describes the IBM support available for SSP V4R7 VSE.
- 4.0, "Program and Service Level Information" on page 9 lists the program and service level information incorporated into SSP V4R7 VSE.
- 5.0, "Installation Requirements and Considerations" on page 11 identifies the resources and considerations for installing SSP V4R7 VSE.
- 6.0, "Installation Instructions" on page 17 provides detailed installation instructions for SSP V4R7 VSE.
- Appendix A, "APARs Incorporated into this Program" on page 19 lists the APARs incorporated into SSP V4R7 VSE.

There is no longer a separate generation sublibrary. The generation sublibrary is now contained in the production sublibrary.

Before installing SSP V4R7 VSE, read 3.1, "Preventive Service Planning" on page 7. This section tells you how to find any updates to the information and procedures in this program directory.

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 on the ACF/NCP V7R7 platform. You will now be required to use the High Level Assembler for generating NCP V7R7 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.

Figure 1. High Level Assembler Integrated with Operating System

<b>Operating System</b>	<b>High Level Assembler V1R2 (5696-234)</b>
MVS/ESA V5R1 and later	Order separately
VSE/ESA V1R4.3 and V1R4.4	Order separately
VM/ESA V2R2 and V2R3	Order separately
OS/390 R1, R2, R3	Integrated
OS/390 R4, R5	Integrated
VSE/ESA V2R2 and V2R3	Integrated

In addition to the High Level Assembler requirements, the APARs listed in Figure 27 on page 16 are required.

The IFZ and IHR90 assemblers will still be shipped with ACF/SSP V4R7 for use with levels of ACF/NCP prior to NCP V7R7.

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 this program directory and make installation easier.

A good place to start any task regarding this program is *NCP V7R7, SSP V4R7, and EP R14 Library Directory*, SC30-3971. 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.

---

## 2.0 Program Materials

An IBM program is identified by a program number and a feature number. The program number for SSP V4R7 VSE is 5686-064. The feature numbers associated with this release are provided in the following sections.

The program announcement material describes the features supported by SSP V4R7 VSE. 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
- Program publications
- Program source materials
- Publications useful during installation.

---

### 2.1 Basic Machine-Readable Material

This section describes the basic machine-readable materials for SSP V4R7 VSE.

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. SSP V4R7 VSE is installed using MSHP. See section 6.0, "Installation Instructions" on page 17 for more information about how to install the program.

Figure 2 describes the tape or cartridge.

*Figure 2. Basic Material: Program Tape*

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<b>Medium</b>	<b>Feature Number</b>	<b>Physical Volume</b>	<b>External Label Identification</b>
6250 tape	5801	1	SSP V4R7 VSE
3480 cart.	5802	1	SSP V4R7 VSE
4 mm cart.	5700	1	SSP V4R7 VSE

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Figure 3 describes the file content of the program tape or cartridge.

*Figure 3. Program Tape: File Content*

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<b>File</b>	<b>Name</b>
1	Header
2	Product ID & History file
3	Product Production Libraries

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## 2.2 Optional Machine-Readable Material

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

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## 2.3 Program Publications

The following sections identify the basic, optional, and associated publications for this program.

### 2.3.1 Basic Program Publications

Figure 4 identifies the basic program publications for this program. 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: Program Publications*

Publication Title	Form Number
Network Control Program, System Support Programs, and Emulation Program Diagnosis Guide	LY43-0033#
Network Control Program, System Support Programs, and Emulation Program Messages and Codes	SC31-6222
Network Control Program Version 7 Release 7, System Support Programs Version 4 Release 7, and Emulation Program Release 14 Library Directory	SC30-3971
Licensed Program Specifications for SSP Version 4 Release 7 for VSE	GC31-6230
Network Control Program, System Support Programs, and Emulation Program Generation and Loading Guide	SC31-6221
Network Control Program, System Support Programs, and Emulation Program Trace Analysis Handbook	LY43-0037#

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

### 2.3.2 Optional Basic Program Publications

There are no optional basic program publications for SSP V4R7 VSE.

### 2.3.3 Optional Licensed Program Publications

Figure 5 identifies the optional licensed program publications for SSP V4R7 VSE. 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.

Figure 5. Optional Material: Licensed Program Publications

Publication Title	Form Number	Feature Number (First Copy)	Feature Number (Additional Copies)
Network Control Program and System Support Programs Customization Guide	LY43-0031#	7201	8201
Network Control Program and System Support Programs Customization Reference	LY43-0032#	7202	8202

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

### 2.3.4 Softcopy Publications

All NCP/SSP manuals, licensed and unlicensed, except for *Licensed Program Specifications*, are offered in displayable softcopy form on the media listed in Figure 6.

Figure 6. 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:** Order this collection kit under the NCP product. (It is not orderable under SSP.) A number sign symbol (#) beside the Form Number indicates it contains "Restricted Materials of IBM."

### 2.3.5 Publications Associated with SSP V4R7 VSE

Figure 7 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 7. Publications Associated with SSP V4R7 VSE

Publication Title	Form Number
Network Control Program Version 7 Release 7 Migration Guide	SC30-3889
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

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## 2.4 Program Source Materials

Microfiche is not provided with SSP V4R7 VSE. 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 8 may be useful during the installation of this program. To order copies, contact your IBM representative. A fee is charged for each publication.

*Figure 8. Publications Useful During Installation*

<b>Publication Title</b>	<b>Form Number</b>
VSE/ESA V2R2 Planning	SC33-6603
VSE/ESA V2R3 Planning	SC33-6603
VSE/ESA V2R1 Installation	SC33-6604
VSE/ESA V2R1 Administration	SC33-6605
VSE/ESA V2R1 Operation	SC33-6606
VSE/ESA V2R1 System Control Statements	SC33-6613
VSE/ESA POWER V6R1 Administration and Operation	SC33-6633
VSE/ICCF V6R1 User's Guide	SC33-6639

---

## 3.0 Program Support

This section describes the IBM support available for SSP V4R7 VSE.

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### 3.1 Preventive Service Planning

Before installing SSP V4R7 VSE, check with your IBM Support Center or use either Information/Access or SoftwareXcel Extended to see whether there is additional Preventive Service Planning (PSP) information. To obtain this information, specify the following UPGRADE and SUBSET values:

Figure 9. PSP Information

UPGRADE	SUBSET	RETAIN Release
SSP470	47F	47F

If you have received SSP V4R7 VSE from IBM Software Distribution, then before installing SSP V4R7 VSE, you should also check with your IBM Support Center or use either Information/Access or SoftwareXcel Extended to see if there is additional PSP information.

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### 3.2 Statement of Support Procedures

For help with problem determination and problem source identification, refer to *NCP, SSP, and EP Diagnosis Guide*. 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 10 identifies the component ID (COMPID) and release for SSP V4R7 VSE.

Figure 10. Component ID

COMP ID	Component Name	REL
568606400	SSP V4R7 VSE	47F





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## **4.0 Program and Service Level Information**

This section identifies the program and service level of this program. 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 A, "APARs Incorporated into this Program" on page 19 for a list of APAR fixes against previous releases incorporated into this release.

---

### **4.2 Service Level Information**

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

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### **4.3 Cumulative Service Tape**

A cumulative service tape, containing PTFs not incorporated into this release, may be included with this program.



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## 5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing SSP V4R7 VSE. In most cases, you can install SSP V4R7 VSE on a running system (target system). However, sometimes two systems may be required. If two systems are required, then the following terminology is used:

1. The system used to install the program (driving system).  
(There is no driving system in an SSP V4R7 VSE environment.)
2. The system on which the program is installed (target system).

---

### 5.1 Target System Requirements

This section describes the environment of the target system required to install SSP V4R7 VSE.

#### 5.1.1 Operating System Requirements

SSP V4R7 VSE operates under the following VSE/ESA operating system:

- VSE/ESA V2R2 or later

for as long as program services are available for the particular version and release.

#### 5.1.2 Machine Requirements

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

#### 5.1.3 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>.

#### 5.1.4 DASD Storage Requirements

Figure 11 provides the space requirements for installing this program. Space requirements are larger than needed for installation to allow for PTF service which may be applied at a later date.

Figure 11. Space Requirements for Installing SSP V4R7 VSE

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Device Type	Tracks	Blocks
3380	710	N/A
3390	670	N/A
FBA	N/A	44 020

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## 5.2 Program Considerations

This following sections list the programming considerations for installing SSP V4R7 VSE.

### 5.2.1 Operating System Requirements

SSP V4R7 VSE operates in the following VSE/ESA system environment:

- VSE/ESA V2R2 or later

for as long as program services are available for the particular version and release.

### 5.2.2 Machine Requirements

This program operates with at least one locally attached IBM 3725, IBM 3720, or IBM 3745 Communication Controller.

### 5.2.3 Programming Requirements

#### 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.

#### 5.2.3.2 Functional Requisites:

SSP V4R7 VSE supports the following licensed 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 V7R2 or later
- NCP V6R2 or later
- NCP V5R4
- NCP V4R3.1

- EP R14
- EP R12
- EP R9
- EP R6.1

### 5.2.3.3 Compatibility Requisites:

The following section contains system considerations for NCP, NPSI, and DFSMS.

#### 5.2.3.3.1 NCP:

The NCP APARs shown in Figure 12 are required to generate the NCP product with the SSP NDF.

*Figure 12. NCP APARs Required to Generate NCP with SSP NDF*

Product Name	APAR
NCP V4R3.1	IR82746
	IR83237
	IR83303
	IR83307
	IR83826
	IR83952
	IR86790
	IR89297

The NCP APAR shown in Figure 13 is required if you want to code a default TCP/IP route in NCP V7R1.

*Figure 13. NCP APAR Required to Code a Default TCP/IP Route in NCP V7R1*

Product Name	APAR
NCP V7R1	IR26000

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.

*Figure 14. NCP APAR Required to Code RNRLIMIT*

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.

Figure 15. NCP APARs Required to Code BAN Connections

Product Name	APAR
NCP V7R1	IR28397
NCP V7R2	IR28239

The NCP APARs shown in Figure 16 are required if you want to use the ADDIFG keyword to increase the inter-frame gap for IBM 3746 Model 900 frame-relay, SDLC, or X.25 physical lines.

Figure 16. NCP APARs Required to Use ADDIFG Keyword

Product Name	APAR
NCP V6R3	IR27091
NCP V7R1	IR27090

The NCP APAR listed in Figure 17 is required if you want NCP to initiate the deactivation of an out-of-sequence virtual route (VR).

Figure 17. NCP APARs Required to Initiate Deactivation of an Out-of-Sequence Virtual Route

Product Name	APAR
NCP V7R1	IR35146
NCP V7R2	IR35146
NCP V7R3	IR35146
NCP V7R4	IR35146
NCP V7R5	IR35146

The NCP APAR listed in Figure 18 is required if you want to use duplicate TIC configuration for subarea connections.

Figure 18. NCP APAR Required to Use Duplicate TIC Configuration for Subarea Connections

Product Name	APAR
NCP V7R5	IR35842

The NCP APAR listed in Figure 19 is required if you generate backup channel connections for the NCP-NCROUTE IP interface.

Figure 19. NCP APAR Required to Generate Backup Channel Connections for NCP-NCROUTE IP Interface

Product Name	APAR
NCP V7R5	IR33961

The NCP APAR listed in Figure 20 is required if you generate INN connections using LIC16 ISDN to ISDN TA.

Figure 20. NCP APAR Required to Generate INN Connections

Product Name	APAR
NCP V7R5	IR34013

The NCP APAR listed in Figure 21 is required if you code MAXDLCI for an ISDN physical line (D-Channel).

Figure 21. NCP APAR Required to Code MAXDLCI for D-Channel

Product Name	APAR
NCP V7R5	IR33979

The NCP APARs listed in Figure 22 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.

Figure 22. NCP APARs Required if you code USGTIER=1, 2, 2.5, or 3

Product Name	APAR
NCP V7R1	IR34014
NCP V7R2	IR34014
NCP V7R3	IR34014
NCP V7R4	IR34014
NCP V7R5	IR34014

The NCP APAR listed in Figure 23 is required if you code QSZALERT on the BUILD statement to determine if a session or station is using an inordinate number of buffers.

Figure 23. NCP APAR Required to Include QSZALERT Function in NCP V7R5.

Product Name	APAR
NCP V7R5	IR36167

The NCP APARs listed in Figure 24 are required if you want to use CIR (Committed Information Rate) for bandwidth management of the 3746 Model 900 frame-relay lines.

Figure 24. NCP APARs Required for Committed Information Rate (CIR)

Product Name	APAR
NCP V7R3	IR36380
NCP V7R4	IR36380
NCP V7R5	IR36380
NCP V7R6	IR36484

The NCP APAR listed in Figure 25 is required if you want to code TRANSBUF to indicate the number of transmission head buffers allocated for 3745 frame-relay physical lines.

*Figure 25. NCP APAR Required for Transmission Head Buffers*

<b>Product Name</b>	<b>APAR</b>
NCP V7R6	IR36886

#### **5.2.3.3.2 NPSI:**

The NPSI APARs shown in Figure 26 are required to generate NPSI V3R8 with NCP V7R4, NCP V7R5, or NCP V7R6.

*Figure 26. NPSI APARs Required to Generate NPSI V3R8 with NCP V7R4, NCP V7R5, or NCP V7R6*

<b>Product Name</b>	<b>APAR</b>
X.25 NPSI V3R8	IR32271 IR37825

#### **5.2.3.3.3 DFSMS:**

The Apars listed in Figure 27 are required to use the High Level Assembler.

*Figure 27. APARs Required to Use the High Level Assembler*

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

## **5.2.4 System Considerations**

There are no system considerations for SSP V4R7 VSE.

## **5.2.5 Special Considerations**

There are no special considerations for SSP V4R7 VSE.



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## 6.0 Installation Instructions

This program is installed in a VSE/ESA operating system. It is supplied as a copy of the production library, which includes modules and macros belonging to this program. In addition, a history file containing installation records for this program is supplied. Installation restores the production sublibrary and updates the VSE system history file.

Because VSE/ESA supports multiple releases of the same product, it is not necessary to delete earlier levels of SSP already installed on your system.

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### 6.1 Installing SSP V4R7 VSE

Complete the following steps to install this product:

1. Define the VSE product library.
2. Install the production sublibrary.

#### 6.1.1 Step 1: Define VSE Product Library

This step is unnecessary if you want to install this program into an existing VSE library. Run the JCL sample shown in Figure 28 if you want to define a new library for this program. Labels and library names in the following JCL are arbitrary.

```
// JOB DEFINE A VSE PRODUCT LIBRARY
// DLBL vvvv,'vse.ssp.lib',2099/365,SD
// EXTENT ,xxxxxx,1,0,yyyy,zzzz
// EXEC LIBR
//   DEFINE LIB=vvvv
/*
/&
xxxxxx = VOLID OF LIBRARY PACK
yyyy   = STARTING TRACK OF LIBRARY
zzzz   = SIZE OF THE LIBRARY IN TRACKS
vvvv   = VSE PRODUCT LIBRARY
```

Figure 28. Sample JCL to Define a VSE Library

#### 6.1.2 Step 2: Install Production Sublibrary

The target library must be online during installation procedures, and label information must be available in the label area. Installation of the production sublibrary is required.

Figure 29 provides sample JCL to install production sublibrary using MSHP.

```

// JOB INSTALL PRODUCT
// OPTION CATAL
// ASSGN SYS006,cuu
// MTC REW,SYS006
// EXEC MSHP
  INSTALL PRODUCT FROMTAPE PRODUCTION INTO=vvvv.ssss
/*
/&
cuu      =INPUT TAPE ADDRESS
vvvv     =PRODUCT LIBRARY NAME
ssss     =PRODUCT SUBLIB  NAME

```

Figure 29. Sample JCL to Install Production Sublibraries

If an earlier level of SSP is already installed, the following message is displayed:

M231D INSTALLATION WILL SUPERSEDE PRODUCT xxxxxx.

Respond by entering KEEP if you want to keep the old version or DELETE if you want to delete it.

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## 6.2 Installation Using the VSE Interactive Interface

This product can also be installed using the VSE/ICCF installation dialogues. From the VSE FUNCTION SELECTION panel, select menu item 1, INSTALLATION. From the INSTALLATION panel, select menu item 1 to access the INSTALL PROGRAMS panel. You will be prompted for information required by the dialogues to create the product installation job. Note that the default target sublibrary is PRD2.PROD and the default history file is the VSE System History file.

If you wish to modify the default installation parameters, it is necessary to change these values in the appropriate panels, as well as in the JCL generated by the JOB DISPOSITION panel. The installation job may be executed immediately or saved in an ICCF library for verification and later execution.

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## Appendix A. APARs Incorporated into this Program

The following SSP V4R6 APARs are incorporated into this program:

IR34809	IR36861	IR37116	IR37727
IR36502	IR36903	IR37125	IR37749
IR36508	IR36925	IR37164	IR37758
IR36560	IR36972	IR37169	IR37801
IR36618	IR36980	IR37171	IR37830
IR36623	IR36988	IR37181	IR37917
IR36659	IR37006	IR37216	IR37926
IR36750	IR37008	IR37278	IR37946
IR36752	IR37039	IR37330	IR37966
IR36754	IR37068	IR37404	IR38018
IR36756	IR37071	IR37454	IR38041
IR36759	IR37074	IR37470	IR38271
IR36826	IR37077	IR37472	
IR36860	IR37113	IR37559	



# Reader's Comments

## Program Directory for System Support Programs Version 4 Release 7 for VSE

You may use this form to comment about this document, its organization, or subject matter with the understanding that IBM may use or distribute whatever information you supply in any way it believes appropriate without incurring any obligation to you.

For each of the topics below please indicate your satisfaction level by circling your choice from the rating scale. If a statement does not apply, please circle N.

RATING SCALE					
very satisfied	<=====			=====	very dissatisfied
1	2	3	4	5	not applicable N

	Satisfaction					
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

Did you order this product as an independent product or as part of a package?

- Independent
- Package

If this product was ordered as part of a package, what type of package was ordered?

- CustomPac
  - FunctionPac
  - SystemPac
- System Delivery Offering (SDO)
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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 these products?

\_\_\_ Yes

\_\_\_ No

If yes, how many years? \_\_\_

If you have any comments to make about your ratings above, or any other aspect of the product installation, please list them below:

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Please provide the following contact information:

\_\_\_\_\_  
Name and Job Title

\_\_\_\_\_  
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\_\_\_\_\_  
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Thank you for your participation.

Please send the completed form to (or give it to your IBM representative who will forward it to the SSP V4R7 VSE Development group):

Design & Information Development  
Dept. CGF/Bldg. 656  
International Business Machines Corporation  
PO Box 12195  
RESEARCH TRIANGLE PARK NC 27709-9990





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