



Program Directory for VSE/ESA Version 2

Version 2 Release 5.0

Program Number 5690-VSE

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GI10-0489-00

Note!

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

This program directory, dated September 2000, applies to VSE/Enterprise Systems Architecture Version 2 (VSE/ESA 2.5.0) Release 5.0 , Program Number 5690-VSE for the following:

Feature Numbers	Content	System Name
2201	VSE/ESA V2 Base on 3480 Cartridge	VSE/ESA V2
2202	VSE/ESA V2 Base on 4MM DAT (2GB uncompressed)	VSE/ESA V2

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Summary of Changes

The following list summarizes VSE/ESA 2.5.0 content changes compared to VSE/ESA 2.4.2

VSE/ESA BASE PROGRAMS:

- 5648-054 CICS/TS 1.1.1 - new modification
- 5686-066 VSE Central Functions 6.5.0 - new release
- 5686-094 LE/VSE 1.4.1 for VSE/ESA - new modification
- 5686-A04 TCP/IP 1.4.0 for VSE/ESA - new release
- 5696-234 High Level Assembler for MVS, VM and VSE 1.4.0 - new release
- 5697-F42 DB2 Server for VSE 7.1.0 - feature of new version, incorporated into VSE/ESA Extended Base

VSE/ESA OPTIONAL PROGRAMS:

- 5686-A06 MQSeries/VSE 2.1.1 - new modification
- 5696-234 HLASM Toolkit 1.4.0 - new release
- 5697-F42 DB2 for VSE 7.1.0 - new version including QMF/VSE and QMF for Windows

REMOVED VSE/ESA Programs/Feature :

- 5648-A70 DB2 Version 6 - including QMF
- 5686-041 VSE/DSNX 2.1.2
- 5686-A04 TCP/IP 1.3.0 Base Pak Feature
- 5735-XXB Emulator Program 1.6.1
- 5735-XXB Emulator Program 1.8.0
- 5746-XC5 VSE/OCCF 1.5.0

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 VSE/ESA 2.5.0. 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 2 identifies the basic and optional program materials and documentation for VSE/ESA 2.5.0.
- 3.0, "Program Support" on page 30 describes the IBM support available for VSE/ESA 2.5.0.
- 4.0, "Program and Service Level Information" on page 31 lists the APARs (program level) and PTFs (service level) incorporated into VSE/ESA 2.5.0.
- 5.0, "Installation Requirements and Considerations" on page 40 identifies the resources and considerations for installing and using VSE/ESA 2.5.0.
- 7.0, "Installation Instructions" on page 58 provides detailed installation instructions for VSE/ESA 2.5.0.
- 8.0, "VSE/ESA 2.5.0 Install Logic" on page 59 provides the install logic for VSE/ESA 2.5.0.

Before installing VSE/ESA 2.5.0, read 3.1, "Preventive Service Planning" on page 30. This section tells you how to find any updates to the information and procedures in this program directory.

2.0 Program Materials

An IBM program is identified by a program number and a feature code. The program number for VSE/ESA 2.5.0 is 5690-VSE.

The program announcement material describes the features supported by VSE/ESA 2.5.0. Ask your IBM marketing representative for this information if you have not already received a copy.

The following sections identify:

- The basic and optional program materials available with this program
- Program Source Materials

Microfiche program listings are not provided with VSE/ESA 2.5.0. 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.

2.1 For Users who have NOT ordered a I I VSE/ESA Base Products

Customers, who have not ordered ALL VSE/ESA Products are requested to delete those products, for which they are not licensed.

2.1.1 General Description

In order to ensure successful installation, all base products are delivered with the VSE/ESA Version 2 system, but if you have specified only some of them to use and to get licensed for, you are requested to delete the others from the system.

2.1.2 Jobstreams included for deleting VSE/ESA Base components

VSE/ESA 2.5.0 provides ready-to-run jobs to delete base products which were not intentionally ordered.

Following is a list of these jobs, stored in ICCF library 59:

- DELDIT to delete DITTO/ESA
- DELVTM to delete ACF/VTAM 4.2
- DELCICS to delete CICS TS 1.1
- DELCICSR to delete CICS TS REPORT CONTROL
- DELTCPIP to delete TCP/IP for VSE/ESA
- DELLECOB to delete the LE/VSE COBOL parts *)
- DELLEPLI to delete the LE/VSE PL/I parts *)

Note: *)The VSE C Run-Time support will remain in the VSE/ESA BASE.

To delete one of these Base Products, access ICCF library 59 and submit the job named in above list.

Note: Since the VSE/ESA System Package is tested and delivered as a full-function, pre-packaged system, any modifications to the system become the user's responsibility. If you are deleting a base component, you should be aware of the consequences of the loss of product function.

1. Since the deletion of a component is treated as altered code, solving problems may cause additional billing, if the alteration is determined to be the cause of a problem.
2. You should be aware that maintenance procedures, including the application of PTFs, may be affected in the event one or more components are deleted.
3. Deleting parts of LE requires updates of the CICS CSD file. Please refer to skeleton SKLE370 in ICCF library 59 for more details.
4. Do not delete the VSE C Run-Time support - without which CICS TS will not come up.

2.1.3 Special considerations when deleting CICS Transaction Server

- ICCF cannot be used - also not with CICS/VSE
- The Interactive User Interface cannot be used - also not with CICS/VSE
- DL/I 1.10.0 does not run with the CICS Transaction Server, it requires CICS/VSE Version 2.3
- DL/I 1.11.0 requires CICS Transaction Server

2.2 VSE/ESA BASE - BASIC Machine Readable Material (MRM)

The **VSE/ESA BASE** is distributed on 3 volumes of either 3480 Cartridges or 4MM DAT. Additionally, the DB2 V7 Help Text is distributed on a separate volume.

Figure 1 describes the **MEDIA and VOLUMES** of the VSE/ESA BASE. These volumes contain all the programs and data needed for installation. VSE/ESA 2.5.0 is installed using the Maintain System History Program (MSHP).

Figure 2 on page 5 describes the **BASE PRODUCTS and COMPONENTS** of the VSE/ESA BASE.

Figure 3 on page 7 and Figure 4 on page 8 describe the **FILES** of the VSE/ESA BASE on cartridge.

See 7.0, "Installation Instructions" on page 58 for more information about how to install the program.

2.2.1 VSE/ESA BASE - MEDIA and VOLUMES

Figure 1. Basic Material - VSE/ESA - MEDIA and VOLUMES

Medium	Feature Number	Physical Volume	External Label Identification
3480 Cart.	2201	1	VSE/ESA2.5.0-xx
		2	VSE/ESA2.5.0-xx2
		3	VSE/ESA2.5.0XBASE
4MM DAT (2GB uncompressed)	2202	1	VSE/ESA2.5.0-xx
		2	VSE/ESA2.5.0-xx2
		3	VSE/ESA2.5.0XBASE

Notes:

1. **xx** defines the LANGUAGE of the VSE/ESA Base, in which the system was ordered:
 - xx = EN English
 - xx = GE German
 - xx = SP Spanish
 - xx = KA Kanji (Japanese)
2. The **XBASE** (Extended Base) contains further VSE/ESA Base Programs. **DO NOT IPL the Extended Base**
3. The 4MM DAT (2GB uncompressed) is delivered for a 3480 Cartridge device driver on a PC Server System /390 and or RS/6000 System/390 Server on Board.

2.2.2 VSE/ESA BASE - PRODUCTS / COMPONENTS

Figure 2 describes the contents of the VSE/ESA 2.5.0 Base.

Figure 2 (Page 1 of 2). VSE/ESA 2.5.0 - BASE Products

Product Description	Program Number	Component-Identifier	CLC
VSE/ESA 2.5.0 (Package)	5690-VSE	n/a	n/a
VSE Central Functions 6.5.0	5686-066	n/a	n/a
VSE/SP UNIQUE CODE	5686-066	568606601	55C
VSE/UNIQUE CODE ENGLISH	5686-066	568606602	55D
KANJI	5686-066	568606602	55E
GERMAN	5686-066	568606602	55A
SPANISH	5686-066	568606602	55H
VSE/POWER	5686-066	568606603	55C
VSE/POWER Macros	5686-066	568606603	55G
VSE/VSAM	5686-066	568606605	55C
VSE/VSAM Macros	5686-066	568606605	55G
VSE/AF SVR & BAM & GDS	5686-066	568606606	55C
VSE/AF Macros	5686-066	568606606	55G
VSE/AF Generation Feature	5686-066	568606606	55J
VSE/AF MSHP	5686-066	568606607	55C
VSE/AF Info/Analysis	5686-066	568606608	55C
VSE/AF IOCP	5686-066	568606609	55C
VSE/ICCF	5686-066	568606610	55C
VSE/FastCopy	5686-066	568606611	55C
REXX/VSE Library	5686-066	568606612	55I
REXX/VSE Kernel & Interface	5686-066	568606616	55I
VSE/OLTEP	5686-066	568606613	55I
OSA/SF	5686-066	568606630	5G7
LE Base ENU + JPN	5686-066	568606632	55K
LE C ENU + JPN	5686-066	568606633	55L
CICS Transaction Server 1.1.1	5648-054	564805400	B0P
TCP/IP for VSE/ESA 1) Application Pak NFS Feature GPS Feature	5686-A04	5686A0400	5IP

Figure 2 (Page 2 of 2). VSE/ESA 2.5.0 - BASE Products

Product Description	Program Number	Component-Identifier	CLC
ACF/VTAM 4.2.0 2) Client/Server MultiDomain InterEnterprise	5686-065	568606501	FE6
High Level Assembler 1.4.0	5696-234	569623400	489
EREP 3.5.0	5656-260	565626001	E00
ICKDSF 1.16.0	5747-DS2	565899201	1G0
DITTO/ESA for VSE	5648-099	564809901	36O
LE COBOL + JPN + CICS	5686-094	568609403	5EW
LE PL/I + JPN	5686-094	568609406	5EZ

Notes:

1. TCP/IP for VSE/ESA consists of several functional features, which are pre installed with the base product. Each feature is key-protected. They have to be activated by entering an activation key together with the customer number, which is provided when TCP/IP for VSE/ESA was ordered.
2. ACF/VTAM V4R2 for VSE/ESA consists of three functional levels which are shipped in the base product. They are activated by entering your customer number and valid password, which is added to your order according to the ordered feature.

2.2.3 VSE/ESA BASE - MRM FILE Contents

The layout of the base tapes changed. Initial Installation will reflect the new layout. FSU will also handle the new layout, provided the prepare step is executed first. The doewnlevel check should not be done prior to the prepare step, but **after the prepare**.

Figure 3 describes the files of the **first volume** of the VSE/ESA Base (labelled: VSE/ESA2.5.0-xx)

Please note that the 4MM DAT must be defined as 3480 Cartridge in the Configuration (Device Map)

Figure 3 (Page 1 of 2). File Content: VSE/ESA 2.5 BASE - 1st volume

File	Name
1	Header and SA Supervisor
2	VSE Standalone Utilities
3	MSHP History File - SYSRES Products
4	SYSRES Library
5	Null File
6	End of Backup Record
7	DTSFILe Header
8	DTSFILe Non-NLS
9	EOF1 - DTSFILe Trailer
10	Header File
11	MSHP History File - PRD1.MACLIB Products
12	PRD1.MACLIB Sublibrary
13	Header File
14	MSHP History File - PRD2.SCEEBASe Products
15	PRD2.SCEEBASe Sublibrary
16	Header File
17	MSHP History File - NLS Products
18	NLS Library
19	Null File
20	End of Backup Record
21	DTSFILe Header
22	DTSFILe NLS
23	EOF1 - DTSFILe Trailer
24	Header File
25	MSHP History File - Generation Features

Figure 3 (Page 2 of 2). File Content: VSE/ESA 2.5 BASE - 1st volume

File	Name
26	Generation Feature
27	Null File
28	End of Tape Record

Figure 4 describes the files of the **second volume** of the VSE/ESA Base (labelled: VSE/ESA2.5.0-xx2)

Figure 4. File Content: VSE/ESA 2.5 BASE - 2nd volume

File	Name
1	Header File
2	MSHP History File - PRD1.BASE Products
3	PRD1.BASE Sublibrary
4	Null File
5	End of Backup Record
6	Online-Message-File
7	Null File
8	End of Tape Record

2.2.4 VSE/ESA Extended BASE - PRODUCTS / COMPONENTS

Figure 5 describes the VSE/ESA 2.5.0 EXTENDED BASE Products / Components.

Figure 5. VSE/ESA 2.5.0 - EXTENDED BASE Products

Product Description	Program Number	ComponentID	CLC
CICS/VSE 2.3 Production	5686-026	568602601	14X
CICS/VSE 2.3 Generation 1)	5686-026	568602601	14V
CICS/VSE 2.3 RCF	5686-026	568602601	14W
OS/390 APIs	5686-066	568606614	55V
CA-Top Secret for VSE/ESA 2)	5686-A05	5686A0501	1LM
LE DBCS Locales	5686-066	568606634	55M
DB2 V7 Server for VSE/ESA 3)	5697-F42	5697F4201	1NN
DB2 V7 DPROPR	5697-F42	5697F4201	1NO

Notes:

1. This feature is only needed if CICS/VSE 2.3 is to be re-generated
2. CA-Top Secret 5686-A05 can be installed from the Extended Base Tape and used in "Demo mode". To use the production version of CA-Top Secret, you need an activation key, which is provided with the CA-Top Secret license when ordered.
See 6.5, "Hints and Tips to CA-Top Secret" on page 53 for more information.
3. For an improved installability of DB2 Server for VSE Version 7.1 (5697-F42), this product is partially packaged and delivered as a key-enabled component of the VSE/ESA 2.5.0 Base. First time DB2 users can take advantage of a free-of-charge 90-day trial period to evaluate the product. An activation key, provided with the DB2 Server for VSE V7.1 license, is required to use the product beyond the 90-day trial period. Packaging info: The DB2 V7 components packaged onto and always distributed with the VSE/ESA Extended Base Tape are DB2 Server for VSE and Data Propagator Capture for VSE. The DB2 Server for VSE Help Tape is always distributed on a separate tape. The DB2 optional features are packaged as optional products and distributed on the VSE/ESA optional product 'stacked tape' if they were ordered.

2.3 VSE/ESA BASE - OPTIONAL Machine-Readable Material

There is Optional Source available for VSE Central Functions 6.5.0.

The distribution media for optional machine-readable material are IBM 3480 cartridge or 4MM DAT.

A separate memorandum is distributed with the Optional Material. It contains a description on how to install the Optional Source Code of VSE Central Functions.

Figure 6 describes the media.

Figure 6. Optional Material: 5686-066 VSE Central Functions 6.5

Feature Number	Medium	Product Name	Product No.	External Tape Label
5237	3480 Cartridge	VSE Central Functions	5686-066	VSE CF 6.5.0 SOURCE
5238	4MM DAT	VSE Central Functions	5686-066	VSE CF 6.5.0 SOURCE

2.4 VSE/ESA BASE - Program Publications

The following sections identify the basic and optional publications for VSE/ESA 2.5.0. For additional copies, contact your IBM representative.

2.4.1 VSE/ESA Base - Basic Publications

Figure 7. VSE/ESA Basic Publications

Publication Title	Form Number
VSE/ESA Licensed Progr. Specifications	GC33-6700
VSE/ESA System Upgrade & Service	SC33-6702
VSE/ESA Planning	SC33-6703
VSE/ESA Installation	SC33-6704
VSE/ESA Administration	SC33-6705
VSE/ESA Release Guide	SC33-6718
VSE/ESA Softcopy Collection Kit	SK2T-0060
VSE/ESA <i>execit-buisness Connectors User's Guide</i>	SC33-6719
DB2 Server CD Doc Kit	SK3T-5257
DB2 Server Overview	GC09-2995
QMF Window Try/Buy Kit	LCD4-3781
Program Directory VSE/VSAM for VM	n/a
DB2 Program Directory	GI10-0499
DB2 Memo to Users DB2 Server	GI10-5008

Figure 8 identifies the basic program publications for CICS Transaction Server

Figure 8. Basic Publications of CICS Transaction Server 5648-054

Publication Title	Form Number
CICS-supplied Transactions	SC33-1655
Customization Guide	SC33-1652
Migration Guide	GC33-1646
System Definition Guide	SC33-1651
Operations and Utilities GD	SC33-1654
Release Guide	SC33-1645
Program Directory	GI10-2508
Licensed Programming Specs	GC34-5464

Note: CICS/VSE 2.3 publications are provided as softcopy only on the VSE/ESA Softcopy Collection Kit SK2T-0060.

Figure 9. Basic Publications of LE/VSE

Publication Title	Form Number
LE Licensed Programming Specs	GC33-6683

Figure 10. Basic Publications of TCP/IP for VSE/ESA

Publication Title	Form Number
TCP/IP Licensed Programming Specs	GC33-6594
TCP/IP Memo to GPS Licensees	GI10-0493
TCP/IP Memo to NFS Licensees	GI10-0482

Figure 11. Basic Publications of DITTO/ESA

Publication Title	Form Number
DITTO/ESA Install and Customization Guide	GC26-9598
DITTO/ESA Licensed Programming Specs	GH19-8223
DITTO/ESA Program Directory	GI10-0433

Figure 12. Basic Publications of ACF/VTAM 4.2.0

Publication Title	Form Number
Network Implementation Guide	SC31-6494
VTAM Operation	SC31-6495
VTAM Resource Definition Reference	SC31-6498
Program Directory	GI10-8112
VTAM Licensed Programming Specs	GC31-6490

Figure 13. Basic Publications of CA-Top Secret 5686-A05

Publication Title	Form Number
Installation Guide	SC33-7974
Command Functions Guide	SC33-7975
Control Options Guide	SC33-7976
Implementation: CICS Guide	SC33-7977
Messages and Codes Guide	SC33-7978
Planning Guide	SC33-7979
Report and Tracking Guide	SC33-7980
User Guide	SC33-7981
Licensed Progr.Specs	SC33-7982
Implementation: Batch & APPC Guide	SC33-7983
Troubleshooting Guide	SC33-7984

2.5 VSE/ESA OPTIONAL PROGRAMS

Optional Programs are independent products, that can be ordered additionally and together with VSE/ESA and which run under the operating system VSE/ESA. They should not be mixed up with the optional material (source code), which is available for both the VSE/ESA BASE and some Optional Programs.

The distribution medium for these Optional Programs are the same as for the VSE/ESA Base. The tapes or cartridges contain all of the programs and data needed for installation using the Maintain System History Program (MSHP). They are on the media in stacked format and can be installed by using the VSE/ESA dialogs.

2.5.1 Optional Programs - Available with VSE/ESA V2

(sorted by Product Number)

Prod.No.	Product Name	V.R.M	remarks
-----	-----	-----	-----
5648-063	ACF/NCP 3745	7.8.0	3746-900 incl. NCP
5648-099	DITTO/ESA for VM feature	1.3.0	VM format
5648-B02	VA Generator Server	1.2.0	NLS available
5648-B33	AFP Font Collection	2.1.0	VSE fonts / NLS
5668-719	X.25 NPSI	2.1.0	
5668-723	GDDM-IVU	1.1.3	
5668-738	ACF/NCP 3745/3720	5.4.0	Tiers available
5668-801	GDDM-IMD	2.1.3	
5668-812	GDDM-PGF	2.1.3	
5668-854	ACF/NCP 3725	4.3.1	
5686-011	CICSVR/VSE	1.2.0	
5686-040	PSF/VSE	2.2.1	with Base fonts
5686-055	NetView for VSE	2.3.0	avail: CSF/DSF, Jap.
5686-057	GDDM/VSE	3.2.0	NLS available
5686-064	ACF/SSP for VSE	4.8.0	
5686-065	ACF/VTAM for VM feature ACF/VTAM APPC Feature	4.2.0	VM format
5686-066	IXFP/Snapshot	6.5.0	Opt.Feat.of VSE CF
5686-068	COBOL for VSE/ESA Workstation Feature	1.1.0	Full/Altern.Function
5686-069	PL/I for VSE/ESA Workstation Feature	1.1.0	Full/Altern.Function
5686-081	VSE/VSAM for VM	6.1.0	VM format
5686-A01	C for VSE/ESA	1.1.0	Full/Altern.Function
5686-A06	MQSeries for VSE/ESA	2.1.1	
5686-A07	CCCA for VSE/ESA	2.1.0	
5686-MLE	VA COBOL MLE	1.1.0	
5686-MLX	VA PL/I MLE	1.1.0	
5688-035	X.25 NPSI 3720/3745	3.4.0	Tiers available
5688-035	X.25 NPSI 3745	3.9.0	Tiers available
5688-190	PPFA/370	1.1.0	
5688-191	OGL/370	1.1.0	incl. NLS
5696-234	HLASM Toolkit	1.4.0	WS feature
5697-B88	DB2 VSAM Transparency	5.1.0	
5697-C85	OPTI-AUDIT	1.1.0	

5697-F42	DB2 V7 Server for VSE	7.1.0	incl. QMF
5735-XXB	EP 3720/3745	1.9.0	
5735-XXB	EP 3745	1.14.0	
5746-RG1	DOS/VS RPG II	1.3.0	
5746-SM3	DFSORT/VSE	3.4.0	
5746-XE7	VSE/ACLR	1.2.1	
5746-XXT	SDF/CICS	1.5.0	
5746-XXT	SDF II VSE	1.6.0	
5746-XX1	DL/I DOS/VS	1.10.0	
5746-XX1	DL/I VSE	1.11.0	

2.5.2 Optional Programs - List of Product Identifiers

The following Optional Programs are available with VSE/ESA 2.5.0. They show the product identifiers as you will find them on the Optional Program tape itself.

BACKUPID	COMPID	CLC	PRODID	
-----	-----	---	-----	
PSF/ACIF...2.2.1	564806201	FW0	062FW0	
PSF/API....2.2.1	564806202	FW1	062FW1	
NCP/V7....7.8.0	564806300	78F	06378F	
DITTO.JPN..1.3.0	564809902	370	099370	
QMF/VSE...7.1.0	566872101	1NR	F421NR	
QMF/VSE.U..7.1.0	564806102	1NS	F421NS	
QMF/VSE.C..7.1.0	564806103	10L	F4210L	Canadian French
QMF/VSE.R..7.1.0	564806104	1NT	F421NT	Simpl.Chinese
QMF/VSE.F..7.1.0	564806107	1NU	F421NU	French
QMF/VSE.D..7.1.0	564806108	1NV	F421NV	German
QMF/VSE.I..7.1.0	564806109	1NW	F421NW	Italian
QMF/VSE.K..7.1.0	564806110	1NX	F421NX	Japanese
QMF/VSE.H..7.1.0	564806111	1NY	F421NY	Korean
QMF/VSE.P..7.1.0	564806112	1NZ	F421NZ	Brazil.Port
QMF/VSE.S..7.1.0	564806113	100	F42100	Spanish
QMF/VSE.Y..7.1.0	564806115	101	F42101	Swiss French
QMF/VSE.Z..7.1.0	564806116	102	F42102	Swiss German
VGEN.BASE..1.2.0	5648B020A	1JI	B021JI	Base
VGEN.ENU...1.2.0	5648B0207	1JF	B021JF	US English
VGEN.ENP...1.2.0	5648B020B	1JJ	B021JJ	UC English
VGEN.DES...1.2.0	5648B0202	1JA	B021JA	Swiss German
VGEN.ESP...1.2.0	5648B0203	1JB	B021JB	Spanish
VGEN.DEU...1.2.0	5648B0204	1JC	B021JC	German
VGEN.CHS...1.2.0	5648B0205	1JD	B021JD	Simpl.Chinese
VGEN.KOR...1.2.0	5648B0206	1JE	B021JE	Korean
VGEN.PTB...1.2.0	5648B0208	1JG	B021JG	Brazil.Portugese
VGEN.JPN...1.2.0	5648B0209	1JH	B021JH	Japanese
AFP_FONT...2.1.0	5648B3300	n/a	n/a	4)
NPSI/3725..2.1.0	566871901	B60	719B60	
GDDM-IVU...1.1.3	566872301	1FF	7231FF	
NCP/3745...5.4.0	566873801	CH0	738CH0	
NCP/UT-2...5.4.0	566873801	CH1	738CH1	
NCP/UT-2.5.5.4.0	566873801	CH2	738CH2	
NCP/UT-3...5.4.0	566873801	CH3	738CH3	
NCP/UT-4...5.4.0	566873801	CH4	738CH4	
NCP/UT-5...5.4.0	566873801	CH5	738CH5	
GDDM-IMD...2.1.3	566880101	1FG	8011FG	
GDDM-PGF...2.1.3	566881201	1F5	8121F5	
NCP/3725...4.3.1	566885401	D34	854D34	
CICSVR/VSE.1.2.0	568601101	1NL	0111NL	
PSF/VSE...2.2.1	568604001	DC0	040DC0	
PSF/COPEPG.B240	568604015	FR9	040FR9	
AFP/COPEPG.B300	568604021	FS0	040FS0	
PSF/COMPAT.B240	568604055	DH1	040DH1	
PSF/COMPAT.U240	568604054	DH0	040DH0	
VSE/DSNX...2.1.2	568604101	E62	041E62	
NETVIEW.B..2.3.0	568605501	3II	0553II	1)

NETVIEW.BE.2.3.0	568605502	3AA	0553AA	1)
NETVIEW.BJ.2.3.0	568605502	3BA	0553BA	1)
NETVIEW.XE.2.3.0	568605503	3AB	0553AB	1)
NETVIEW.XJ.2.3.0	568605503	3BB	0553BB	1)
GDDM/VSE...3.2.0	568605701	1EA	0571EA	
GDDM/VSE.A.3.2.0	568605702	1EP	0571EP	
GDDM/VSE.B.3.2.0	568605702	1EO	0571EO	Brazilian
GDDM/VSE.C.3.2.0	568605702	1EN	0571EN	Simp.Chin.
GDDM/VSE.D.3.2.0	568605702	1EM	0571EM	Danish
GDDM/VSE.S.3.2.0	568605702	1EL	0571EL	Spanish
GDDM/VSE.T.3.2.0	568605702	1EK	0571EK	Trad.Chin
GDDM/VSE.V.3.2.0	568605702	1EJ	0571EJ	Swedish
GDDM/VSE.F.3.2.0	568605702	1EI	0571EI	French
GDDM/VSE.G.3.2.0	568605702	1EH	0571EH	German
GDDM/VSE.H.3.2.0	568605702	1EG	0571EG	Hanguel
GDDM/VSE.I.3.2.0	568605702	1EE	0571EE	Italian
GDDM/VSE.K.3.2.0	568605702	1ED	0571ED	Kanji
GDDM/VSE.N.3.2.0	568605702	1EC	0571EC	Norwegian
GDDM/VSE.Q.3.2.0	568605702	1EQ	0571EQ	Can.French
ACF/SSP...4.8.0	568606400	48F	06448F	
IXFP/SNAP..6.5.0	568606631	55P	06655P	
COB.BASE...1.1.0	568606800	18M	06818M	
COB.ENU...1.1.0	568606801	18N	06818N	
COB.JPN...1.1.0	568606802	18O	06818O	
DTVSE.BASE.1.1.0	5686A0200	1G8	A021G8	3)
DTVSE.JPN..1.1.0	5686A0201	1G9	A021G9	3)
PLI.VSE...1.1.0	568606900	18P	06918P	
DTVSE.BASE.1.1.0	5686A0200	1G8	A021G8	3)
DTVSE.JPN..1.1.0	5686A0201	1G9	A021G9	3)
C/VSE.BASE.1.1.0	5686A0100	1FY	A011FY	
C/VSE.JPN..1.1.0	5686A0101	1G4	A011G4	
DTVSE.BASE.1.1.0	5686A0200	1G8	A021G8	3)
DTVSE.JPN..1.1.0	5686A0201	1G9	A021G9	3)
MQSERIES...2.1.1	5686A0600	1ZZ	A061ZZ	
CCCA.VSE...2.1.0	5686A0700	1JS	A071JS	
COBOLMLE...1.1.0	5686MLE00	1JQ	MLE1JQ	
PLIMLE....1.1.0	5686MLX00	1JR	MLX1JR	
NPSI/3745..3.4.0	568803501	CJ0	035CJ0	
NPSI/UT-2..3.4.0	568803501	CJ1	035CJ1	
NPSI/UT-2.53.4.0	568803501	CJ2	035CJ2	
NPSI/UT-3..3.4.0	568803501	CJ3	035CJ3	
NPSI/UT-4..3.4.0	568803501	CJ4	035CJ4	
NPSI/UT-5..3.4.0	568803501	CJ5	035CJ5	
X_25/NPSI..3.9.0	568803501	9E0	0359E0	
PPFA/370...1.1.0	568819001	A03	190A03	
OGL/370...1.1.0	568819101	A05	191A05	
OGL/370...1.1.0	568819102	AA0	191AA0	
OGL/370...1.1.0	568819103	AA1	191AA1	
OGL/370...1.1.0	568819104	AA2	191AA2	
HLASM.TLKT.1.4.0	569623401	4IM	2344IM	
DB2VSE.XTV.5.1.0	5697B8800	514	B88514	
OPTI.AUDIT.1.1.0	5697C8500	1IY	C851IY	
DB2/NLV...7.1.0	5697F4201	1NN	F421NN	
ASN/VSE...7.1.0	5697F4201	1NO	F421NO	

DB2CC.....7.1.0	5697F4206	1NQ	F421NQ	
DB2VSE.RCV.7.1.0	5697F4205	1NP	F421NP	
RPGII.....1.3.0	5746RG100	042	RG1042	
DFSORT/VSE.3.4.0	5746SM300	34A	SM334A	
VSE/ACLR...1.2.1	5746XE700	H06	XE7H06	
SDF/CICS...1.5.0	5746XXT00	B27	XXTB27	
SDF/JAPAN..1.5.0	5746XXT10	B28	XXTB28	
SDF.II.VSE.1.6.0	5746XXT01	228	XXT228	
SDF.II.GER.1.6.0	5746XXT03	1J7	XXT1J7	
SDF.II.DES.1.6.0	5746XXT04	1J8	XXT1J8	
SDF.II.ESP.1.6.0	5746XXT05	1J9	XXT1J9	
SDF.II.JPN.1.6.0	5746XXT02	229	XXT229	
DL/I-BASE..1.A.0	5746XX100	DB5	XX1DB5	
DL/I-BASE..1.B.0	5746XX100	1I0	XX11I0	
EP/3745....1.9.0	5748EP115	CH6	EP1CH6	2)
EP_R14....1.14.0	5748EP115	4E1	EP14E1	2)

Notes:

1. There is only one NetView 2.3 product, but there are 2 tapes:
 NetView Central System Feature
 NetView Distributed System Feature,
 either in English or Japanese.
2. The program number of EP/3725 (5735-XXB) differs from the COMPONENT-ID.
3. These components define the debugging functions (DEBUG Tool), which are part of the Full Function orders of C for VSE, PL/I for VSE and COBOL for VSE.
4. The AFP Fonts will NOT be stacked. You will get them on separate volumes.

2.5.3 Optional Programs - Program Tapes/Program Cartridges

All ordered Optional Programs will be delivered on stacked tape or cartridge. There will be multiple volumes, if the ordered products will physically not fit onto one volume.

You will get Program Directories of the individual Optional programs ordered with VSE/ESA 2.5.0 for additional information on the particular programs. Please ignore the **ordering information** in these directories, as this part does not apply to these products when ordered within the VSE/ESA package.

The external tape label of the stacked tape/cartridge is:

VSE/ESA 2.5.0 OPT x OF y

2.5.4 Optional Programs - File Content

Figure 14 describes the file content of the Optional Program Tape

Figure 14. Program Tape - 'VSE/ESA 2.5.0 OPT x OF y' File Content

File	Name
1	Null File
2	Start of Stacked Tape Indicator
3	Null File
4	1st Optional Program ordered
5	2nd Optional Program ordered
6	3rd Optional Program ordered
7	nth Optional Program ordered
8	Null File
9	End of Stacked Tape Indicator
10	Null File
11	Null File

Refer to the individual program directories on specific information to the ordered product.

2.5.5 Optional Programs - Basic Publications

The following tables identify the basic publications of the VSE/ESA 2.5.0 Optional Programs, sorted by program number.

Figure 15. BASIC Documentation of ACF/NCP 3745 5648-063 7.8.0

Publication Title	Order/Form Number
NCP Licensed Programming Specs	GC31-6226
NCP, SSP & EP Resource Def. Guide	SC31-6223
NCP, SSP & EP Resource Def. Refer.	SC31-6224
NCP V7R8 Migration Guide	SC30-4024
Planning for NetView, NCP & VTAM	SC31-8062
Planning for Integr. Networks	SC31-8063
NCP...Today, Fall 1998 Magazine	G325-3426
Program Directory	GI10-6596
Memo to Licensees	GI10-6589

Figure 16. BASIC Documentation of VisualAge Generator Server 5648-B02 1.2.0

Publication Title	Order/Form Number
VA Generator Server LPS	GH23-0255
VA Generator Server Guide	SH23-0256
Program Directory	GI10-0813
Memo to Current Licensees	GI10-6776

Figure 17. BASIC Documentation of AFP Font Collection 5648-B33 2.1.0

Publication Title	Order/Form Number
AFP Font Collection LPS	G544-5634
AFP Font Summary	S544-5633
Program Directory VSE Fonts	GI10-0223
PGDIR Japanese Fonts VSE	GI10-0241
PGDIR Korean Fonts VSE	GI10-0242
PGDIR S-Chinese Fonts VSE	GI10-0243
PGDIR T-Chinese Fonts VSE	GI10-0244

Figure 18. BASIC Documentation of X.25 NPSI 5668-719 2.1.0

Publication Title	Order/Form Number
X.25 NCP PSI V2 General Information	GC30-3500
X.25 NCP PSI V2 Planning & Installation	SC30-3501
X.25 NCP PSI V2 Host Programming	SC30-3503
X.25 NCP PSI V2 Licensed Programming Specs	GC30-9616
NCP and Related Products: Directory of Progr.Interfaces for Customers	GC31-6202
Program Directory	n/a

Figure 19. BASIC Documentation of GDDM-IVU 5668-723 1.1.3

Publication Title	Order/Form Number
Image View Utility	SC33-0479
Program Directory	n/a

Figure 20. BASIC Documentation of ACF/NCP for 3745 5668-738 5.4.0

Publication Title	Order/Form Number
Licensed Program Specifications	GC30-9607
NCP Migration Guide	SC31-6204
NCP, SSP & EP Resource Definition Guide	SC30-3447
NCP, SSP & EP Resource Definition Reference	SC30-3448
Planning and Reference for NetView, NCP, and VTAM	SC31-6102
Program Directory	n/a

Figure 21. BASIC Documentation of GDDM-IMD 5668-801 2.1.3

Publication Title	Order/Form Number
Interactive Map Definition	SC33-0338
TNL to Interactive Map Definition	SN33-6360
Program Directory	n/a

Figure 22. BASIC Documentation of GDDM-PGF 5668-812 2.1.3

Publication Title	Order/Form Number
Interactive Chart Utility	SC33-0328
Vector Symbol Editor	SC33-0330
Application Program Guide	SC33-0913
Programming Reference	SC33-0333
TNL: Programming Reference	SN33-6436
OPS Users Guide	SC33-1776
Program Directory	n/a

Figure 23. BASIC Documentation of ACF/NCP for 3725 5668-854 4.3.1.

Publication Title	Order/Form Number
Licensed Program Specifications	GC30-9583
NCP, SSP & EP Resource Definition Guide	SC30-3349
NCP, SSP & EP Resource Definition Reference	SC30-3254
NCP Migration Guide	SC30-3252
Network PPs: Planning	SC30-3351
Network PPs: General Information	GC30-3350
NCP and Related Products: Directory of Progr.	GC31-6202
Interfaces for Customers	
Generation & Loading Guide	SC30-3348
Messages and Codes	SC30-3169
Network PPs: Storage Estimates	SC30-3403
Program Directory	n/a

Figure 24. BASIC Documentation of CICSVR/VSE 5686-011 1.2.0

Publication Title	Order/Form Number
Licensed Program Specifications	GC26-7323
User's Guide and Reference	SC26-7321
Messages & Problem Determination	SC26-7322
Program Directory	GI10-4528
Memo to Licensees	GI10-4534

Figure 25. BASIC Documentation of PSF/VSE 5686-040 2.2.1

Publication Title	Order/Form Number
AFP: Printer Summary	G544-3135
MODCA Reference	SC31-6802
Printer Information	G544-3290
Application Programmer's GD	S544-3666
Licensed Programming Specifications	G544-3667
System Programmer's Guide	S544-3665
Messages & Codes	S544-3664
AFP Font Summary	G544-3810
API Progr. Guide and Reference	S544-3872
API COBOL Language	S544-3873
Program Directory for 2.2.1	GI10-0203

Figure 26. BASIC Documentation of NETVIEW 5686-055 2.3.0

Publication Title	Order/Form Number
Licensed Program Specs	GC31-6107
NetView Operation	SC31-6127
Administration Reference	SC31-6128
Application Programming Guide	SC31-6129
NetView Bridge Implementation	SC31-6131
NetView Customization Guide	SC31-6132
Customization: Using Assembler	SC31-6133
Customization: Using PL/I and C	SC31-6134
Customization: Writing Command Lists	SC31-6135
Resource Alerts Reference	SC31-6136
NetView Tuning Guide	SC31-6137
NetView Messages	SC31-6138
NetView Automation Planning	SC31-6141
Installation & Administration Guide	SC31-6182
NetView Samples (VSE)	SC31-6184
Planning and Ref.for NetView,NCP,VTAM	SC31-6191
NetView at a Glance	GC31-7016
Thanks for your Suggestions	GC31-7064
NetView Storage Estimates	SK2T-6002
Learning about NetView Operation	SK2T-1995
NetView Command Summary	SX75-0071
Program Directory	n/a

Figure 27. BASIC Documentation of GDDM/VSE 5686-057 3.2.0

Publication Title	Order/Form Number
General Information	GC33-0866
Base Application Programming Guide	SC33-0867
Base Application Programming Reference	SC33-0868
Messages	SC33-0869
Diagnosis	SC33-0870
System Customization & Administration	SC33-0871
Users Guide	SC33-0875
Series Licensed Progr Specifications	GC33-0876
Using Image Symbol Editor	SC33-0920
Program Directory	n/a

Figure 28. BASIC Documentation of ACF/SSP f. VSE 5686-064 4.8.0

Publication Title	Order/Form Number
NCP, SSP & EP Gen and Load Guide	SC31-6221
NCP, SSP & EP Messages & Codes	SC31-6222
Licensed Program Specs SSP	GC31-6230
NCP V7R8, SSP V4R8 & EP R14 Library Dir.	SC30-4025
Program Directory	GI10-6599
Memo to Licensees	GI10-6592

Figure 29. BASIC Documentation of ACF/VTAM for VM Feature 5686-065 4.2.0

Publication Title	Order/Form Number
VTAM Migration Guide VM/ESA	GC31-8071
VTAM Release Guide VM/ESA	GC31-8089
APPC Application Suite Users Guide	SC31-6532
APPC Application Suite Administrat.	SC31-6533
VTAM Application Suite Programming	SC31-6534
APPC Program Directory	n/a

Figure 30. BASIC Documentation of IBM COBOL for VSE/ESA 5686-068 1.1.0

Publication Title	Order/Form Number
COBOL/VSE Licensed Programming Specs	GC26-8069
COBOL/VSE Installation & Custom.Guide	SC26-8071
COBOL/VSE Programming Guide	SC26-8072
COBOL/VSE Language Reference	SC26-8073
Debug Tool Users Guide & Reference	SC26-8797
Debug Tool Install & Customizing GD	SC26-8798
Memo to Licensees	GI10-9890
VisualAge for Cobol OS/2	LCD4-0803

Figure 31. BASIC Documentation of IBM PL/I for VSE/ESA 5686-069 1.1.0

Publication Title	Order/Form Number
PL/I VSE Programming Guide	SC26-8053
PL/I VSE Language Reference	SC26-8054
PL/I VSE Licensed Programming Specs	GC26-8055
PL/I VSE Install.& Customization GD	SC26-8057
PL/I VSE Messages & Codes	SC26-8059
Debug Tool Users Guide & Reference	SC26-8797
Debug Tool Install & Customizing GD	SC26-8798
PL/I Enterprise Workstation Feature	SK2T-9087
Memo to Licensees Workstation Feature	n/a

Figure 32. BASIC Documentation of IBM C for VSE/ESA 5686-A01 1.1.0

Publication Title	Order/Form Number
C/VSE LPS	GC09-2421
C/VSE Install & Custom.GD	GC09-2422
C/VSE Diagnosis Guide	GC09-2426
C/VSE Migration Guide	SC09-2423
C/VSE User's Guide	SC09-2424
C/VSE Language Reference	SC09-2425
Debug Tool Users GD & Reference	SC26-8797
Debug Tool Install & Custom Guide	SC26-8798

Figure 33. BASIC Documentation of MQSeries for VSE/ESA 5686-A06 2.1.0

Publication Title	Order/Form Number
MQSeries Clients	GC33-1632
MQSeries VSE/ESA System Mgmt. Guide	GC34-5364
MQSeries VSE/ESA LPS	GC34-5365
Memo to new Licensees	GI10-2512

Figure 34. BASIC Documentation of CCCA for VSE/ESA 5686-A07 2.1.0

Publication Title	Order/Form Number
Users Guide	SC26-9401
Licensed Programming Specifications	GC26-9408
Program Directory	GI10-5079

Figure 35. BASIC Documentation of VA COBOL MLE 5686-MLE 1.1.0

Publication Title	Order/Form Number
COBOL & MLE Install. & Customization Guide	SC26-8071
Licensed Programming Specifications	GC26-9417

Figure 36. BASIC Documentation of VA PL/I MLE 5686-MLX 1.1.0

Publication Title	Order/Form Number
PL/I MLX Install. & Customization Guide	SC26-8057
Licensed Programming Specifications	GC26-9418

Figure 37. BASIC Documentation of X.25 NPSI 5688-035 3.4.0

Publication Title	Order/Form Number
X.25 NCP PSI V3 Planning/Installation	SC30-3470
X.25 NCP PSI V3 Host Programming	SC30-3502
X.25 NCP PSI V3 Licensed Progr Specifications	GC30-9605
X.25 NCP PSI V3 General Information	GC30-3469
X.25 NCP PSI V3 Master Index	GC31-6206
Program Directory	n/a

Figure 38. BASIC Documentation of X.25 NPSI 5688-035 3.9.0

Publication Title	Order/Form Number
X.25 NCP PSI V3 General Information	GC30-3469
X.25 NCP PSI V3 Licensed Progr Specs	GC30-9605
X.25 NCP PSI V3 Host Programming	SC30-3502
X.25 NCP PSI V3 Planning/Installation	SC30-3470
Program Directory	GI10-6558
Memo to Licensees	GI10-6577

Figure 39. BASIC Documentation of PPFA/370 5688-190 1.1.0.

Publication Title	Order/Form Number
Licensed Program Specifications	G544-3696
User's Guide	S544-5284
Command Quick Reference	G544-3701
PPFA Diagnosis Guide & Reference	LH40-0207
Program Directory	GI10-9679

Figure 40. BASIC Documentation of OGL/370 Base and NLS 5688-191 1.1.0

Publication Title	Order/Form Number
OGL/370 User's Guide and Reference	S544-3702
OGL/370 Command Quick Reference	S544-3703
OGL/370 Licensed Progr. Specifications	G544-3697
OGL/370 Getting Started	G544-3691
OGL/370 Diagnosis & Reference Guide	LH40-0208
Program Directory	n/a

Figure 41. BASIC Documentation of HLASM Toolkit 5696-234 1.3.0

Publication Title	Order/Form Number
HLASM Toolkit IDF Users Guide	GC26-8709
HLASM Toolkit Users Guide	GC26-8710
HLASM Toolkit Installation/Customization Guide	GC26-8711
HLASM Toolkit IDF Reference Summary	GC26-8712
Memo to new Licensees	GI10-5051

Figure 42. BASIC Documentation of DB2 VSAM Transparency 5697-B88 5.1.0

Publication Title	Order/Form Number
VSAM Transparency for VSE Users Guide	SC26-8956
How to .. f. VSAM Transparency for VSE	SG24-4931
Program Directory	n/a

Figure 43. BASIC Documentation of OPTI-AUDIT for VSE/ESA 5697-C85 1.1.0

Publication Title	Order/Form Number
OPTI-AUDIT Users Guide & Reference	SC26-9135
Program Directory	n/a

Figure 44. BASIC Documentation of DB2 Server for VSE/ESA 5697-F42 7.1.0

Publication Title	Order/Form Number
DB2 Server Diagnosis Guide & Reference	LC09-2907
DB2 Server F.VM & VSE Licensed Specs	GC09-2982
DB2 Server SNAP-IX Brochure	GC09-4762
DB2 Server Training Brochure	GC09-4768
DB2 Server Universal Developer's Ed	LK3T-5242
Memo to Users DProP VSE	GI10-5010
Program Directory DProp VSE	GI10-5008
Program Directory Control Center	GI10-5003
Memo to Users Control Center	GI10-5012
Program Directory Data Restore	GI10-5005
Memo to Users Data Restore r	GI10-5014
Installation and Managing QMF	GC27-0721
Messages & Codes QMF	GC27-0717
Program Directory QMF for VSE	GI10-8330

Figure 45. BASIC Documentation of EP 5735-XXB 1.9.0

Publication Title	Order/Form Number
Licensed Program Specifications	GC31-6201
Program Directory	n/a

Figure 46. BASIC Documentation of EP 5735-XXB 1.14.0

Publication Title	Order/Form Number
Licensed Progr.Specifications	GC31-6201
NCP V7R7 Migration Guide	SC30-3889
Program Directory	GI10-0996

Figure 47. BASIC Documentation of RPG II 5746-RG1 1.3.0

Publication Title	Order/Form Number
Licensed Program Specifications	GC33-6029
Language Reference	SC33-6031
Installation Reference	SC33-6032
Messages	SC33-6033
Auto Report	SC33-6034
User's Guide	SC33-6074
Program Directory	n/a

Figure 48. BASIC Documentation of DFSORT/VSE 5746-SM3 3.4.0

Publication Title	Order/Form Number
Licensed Progr.Specifications	GC26-7038
General Information Brochure	GC26-7039
Application Programmer's Guide	SC26-7040
Installation & Tuning Guide	SC26-7041
Reference Summary	SX26-6008
Messages, Codes & Diagnosis Guide	SC26-7132
Getting Started with DFSORT	SC26-7101
Program Directory	GI10-4513

Figure 49. BASIC Documentation of VSE/ACLR 5746-XE7 1.2.1

Publication Title	Order/Form Number
Licensed Program Specifications	GH12-5241
Program Reference & Operation	SH12-5336
Program Directory	n/a

Figure 50. BASIC Documentation of SDF/CICS 5746-XXT 1.5.0

Publication Title	Order/Form Number
General Information Manual	GH19-8104
Licensed Program Specifications	GH19-8106
Reference Summary	SX11-6100
Operations Guide	SH19-6094
Primer	SH19-6102
Program Reference	SH19-8105
Messages & Codes	SH19-8107
Program Directory	n/a
Program Directory Kanji	n/a

Figure 51. BASIC Documentation of SDF II VSE 5746-XXT 1.6.0

Publication Title	Order/Form Number
SDF II Administration Guide	SH12-6311
SDF II Prototype RT-Services	SH12-6312
SDF II Primer CICS/BMS Programs	SH12-6313
SDF II Introducing Release 6	GH12-6314
SDF II General Information	SH12-6315
SDF II Licensed Specification	GH12-6318
Program Directory	GI10-0424

Figure 52. BASIC Documentation of DL/I VSE 5746-XX1 1.10.0 and 1.11.0

Publication Title	Order/Form Number
General Information Manual	GH20-1246
Licensed Program Specifications	GH24-5031
Release Guide	SC33-6211
Messages and Codes	SH12-5414
Guide for New Users	SH24-5001
Application Programming: HLPI	SH24-5009
Data Base Administration	SH24-5011
Application & Data Base Design	SH24-5022
Interact. Resource Definition & Utilities	SH24-5029
Application Progr: Call+RQDLI Interf	SH12-5411
Library Guide + Master Index	GH24-5008
Diagnostic Guide	SH24-5002
Recovery/Restart Guide	SH24-5030
Low Lev Code Cont. Check	SH20-9046
Ref Summary: CALL Prog. Interface	SX24-5103
Ref Summary: System Programming	SX24-5104
Ref Summary: HLPI Interface	SX24-5120
Program Directory	GI10-0484

2.5.6 Optional Programs - Licensed Publications and Microfiche

Optionally available publications and microfiches are orderable under the individual Optional program product numbers. Please see the Program Directories of these products for available publications and microfiches.

3.0 Program Support

This section describes the IBM support available for VSE/ESA 2.5.0.

3.1 Preventive Service Planning

Before installing VSE/ESA 2.5.0, 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 that you should know. To obtain this information, specify the following UPGRADE and SUBSET value:

VSEESA2rm

where rm is the current Release/Modification level.

With this upgrade value you will see lists of subset values, one sorted by VSE/ESA BASE programs, and one sorted per VSE/ESA OPTIONAL programs. The subset identifies are derived from the product names, to where the subset identifiers belong.

In addition, there are the following subset values:

BASESERVICE and **OPTPSERVICE**

Using these values, you find the list of APARs and related PTFs per BASE program (BASESERVICE) and OPTIONAL program (OPTPSERVICE). These lists are identified by the products component identifier, which you may find in Chapter 'Optional Programs - List of Product Identifiers.

If you have received VSE/ESA 2.5.0 only from IBM Software Distribution, then before installing VSE/ESA 2.5.0, 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 that you should know.

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. Please refer to Figure 2 on page 5 for component IDs (COMPID) for VSE/ESA 2.5.0

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of VSE/ESA 2.5.0. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated. Information about the cumulative service tape is also provided.

4.1 Program Level Information

The following is a list of APARs fixed with this VSE/ESA version. They are listed by COMPID and have been incorporated into this release.

COMPONENT 568606601, ..02 (UNIQUE CODE)

PN69419	PN70479	PN71260	PN71894	PN71998	PN72472
PN73102	PN73586	PN74426	PN75762	PN76544	PN77315
PN77905	PN78679	PN79272	PN79426	PN80453	PN80594
PN83087	PN83495	PN83604	PN84274	PN84448	PN85061
PN86315	PN87537	PN88522	PN90459	PN90780	PN90871
PN91781	PN91985	PQ00541	PQ02428	PQ03722	PQ05575
PN69434	PN70566	PN71746	PN71961	PN72620	PN72846
PN73654	PN74589	PN77451	PN78356	PN78681	PN84303
PN88523	PN90783	PN91988	PQ03810	PQ05706	PQ06330
PN70566	PN71746	PN72620	PN73654	PN74589	PN86013
PQ03634					
PQ06375	PQ08108	PQ08117	PQ08370	PQ08822	
PQ11084	PQ11242	PQ12177	PQ13049	PQ13655	
PQ13655	PQ15966	PQ13940	PQ16431	PQ16432	
PQ16786	PQ16431	PQ16432	PQ16786	PQ17599	
PQ17620	PQ17625				
PQ11085	PQ12234	PQ18471			
PQ21748	PQ21749	PQ21750	PQ21829	PQ22248	
PQ22537	PQ22539	PQ24641	PQ24808	PQ26062	
PQ26296	PQ26451	PQ26780	PQ27580	PQ28422	
PQ28605	PQ29299	PQ30134	PQ31176	PQ31285	
PQ31932	PQ34249	PQ34694	PQ34718	PQ36445	
PQ36532	PQ36688	PQ36898	PQ38386	PQ38704	
PQ39412	PQ39414				

COMPONENT 568606603 (POWER)

DY43455	DY43458	DY43461	DY43472	DY43499	DY43509
DY43534	DY43535	DY43560	DY43566	DY43580	DY43586
DY43589	DY43598	DY43604	DY43611	DY43671	DY43687
DY43689	DY43690	DY43732	DY43884	DY43889	DY43912
DY43931	DY43934	DY43935	DY43938	DY43978	DY43981
DY43985	DY43991	DY44032	DY44034	DY44051	DY44055
DY44073	DY44087	DY44098	DY44103	DY44112	DY44115
DY44122	DY44134	DY44143	DY44148	DY44153	DY44165
DY44177	DY44208	DY44215	DY44223	DY44225	DY44239
DY44245	DY44258	DY44263	DY44272	DY44274	DY44282
DY44302	DY44308	DY44315	DY44321	DY44335	DY44341
DY44403	DY44406	DY44409	DY44450	DY44459	DY44477
DY44496					
DY44408	DY44431	DY44438	DY44455	DY44467	DY44476
DY44504	DY44546	DY44566	DY44589		
DY43713					
DY44561	DY44563	DY44573	DY44606	DY44608	DY44610
DY44635	DY44636	DY44637	DY44638	DY44648	DY44668
DY44669	DY44717	DY44687	DY44692	DY44669	DY44692
DY44717	DY44846	DY44737	DY44693	DY44685	DY44687
DY44692	DY44693	DY44717	DY44737	DY44846	DY44635
DY44636	DY44637	DY44638	DY44648	DY44668	DY44669
DY44743	DY44766				
DY44844	DY44845	DY44856	DY44863	DY44880	DY44883
DY44941	DY45017	DY45060	DY45073	DY45095	DY45105
DY45112	DY45124	DY45131	DY45161	DY45185	DY45193
DY45215	DY45219	DY45228	DY45235	DY45240	DY45243
DY45251	DY45283	DY45289	DY45291	DY45276	DY45313
DY45323	DY45337	DY45372	DY45375	DY45404	DY45346
DY45413	DY45414	DY45495	DY45437		
DY45444					

COMPONENTs 568606604, ..06, ..07, ..08, ..09 (AF)

DY43456	DY43476	DY43480	DY43490	DY43508	DY43510
DY43537	DY43551	DY43557	DY43585	DY43606	DY43623
DY43684	DY43697	DY43728	DY43734	DY43739	DY43754
DY43757	DY43759	DY43767	DY43768	DY43771	DY43772
DY43775	DY43802	DY43822	DY43823	DY43824	DY43858
DY43882	DY43896	DY43914	DY43919	DY43936	DY43937
DY43953	DY43979	DY43984	DY43998	DY44003	DY44035
DY44052	DY44069	DY44078	DY44117	DY44126	DY44136
DY44144	DY44156	DY44172	DY44201	DY44210	DY44220
DY44241	DY44265	DY44277	DY44303	DY44311	DY44323
DY44325	DY44376	DY44389	DY44393	DY44405	DY44407
DY44425	DY44442	DY44487			
DY43541	DY43651	DY43800	DY43956	DY44173	
DY44059					
DY43581	DY44132	DY44355	DY44481		
DY44364	DY44440	DY44448	DY44456	DY44462	DY44471
DY44479	DY44513				
DY44485	DY44488				
DY44622	DY44596	DY44520	DY44521	DY44525	DY44532
DY44545	DY44600	DY44601	DY44547	DY44604	DY44672
DY44616	DY44628	DY44620	DY44663	DY44673	DY44625
DY44632	DY44634	DY44679	DY44674	DY44671	DY44680
DY44718					
DY44820	DY44851	DY44858	DY44889	DY45037	DY45063
DY45070	DY45076	DY45097	DY45103	DY45114	DY45123
DY45141	DY45166	DY45167	DY45175	DY45182	DY45190
DY45195	DY45196	DY45229	DY45252	DY45253	DY45254
DY45265	DY45266	DY45275	DY45290	DY45299	DY45306
DY45309	DY45324	DY45328	DY45329	DY45338	DY45347
DY45376	DY45383	DY45385	DY45397	DY45438	DY45348
DY45423	DY45424	DY45452	DY45460	DY45462	DY45466
DY45467	DY45475	DY45507			

COMPONENT 568606605 (VSAM)

DY43464	DY43486	DY43531	DY43540	DY43582	DY43652
DY43727	DY43730	DY43799	DY43805	DY43844	DY43895
DY43943	DY43946	DY43951	DY43952	DY43959	DY44006
DY44023	DY44036	DY44040	DY44042	DY44063	DY44070
DY44085	DY44086	DY44091	DY44097	DY44116	DY44138
DY44159	DY44161	DY44168	DY44207	DY44221	DY44233
DY44234	DY44243	DY44252	DY44273	DY44283	DY44449
DY44472					
DY44457	DY44458	DY44516			
DY44537	DY44665	DY44764	DY44767	DY44768	DY44769
DY44771	DY44772	DY44774	DY44776	DY44777	DY44778
DY44779	DY44781	DY44782	DY44783	DY44784	DY44785
DY44786	DY44787	DY44788	DY44796	DY44798	
DY44620					
DY44678	DY44798				
DY44838	DY44859	DY44876	DY45044	DY45075	DY45090
DY45107	DY45135	DY45136	DY45137	DY45255	DY45256
DY45264	DY45336	DY45351	DY45310	DY45311	DY45312
DY45409	DY45349	DY45442	DY45491	DY45425	DY45439
DY45473					

COMPONENT 568606630 (OSA/SF)

PQ06993	PQ06292	PQ03091	PQ11504	PQ16071	
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COMPONENT 565626001 (EREP)

DY40321	DY40517	DY40532	DY40606	DY40608	DY40627
DY40650	DY40718	DY40849	DY40850	DY40879	DY40896
DY40929	DY40956	DY41117	DY41175	DY41184	DY41226
DY41286	DY41321	DY41351	DY41514	DY41523	DY41567
DY41669	DY41677	DY41781	DY41822	DY41823	DY41919
DY41947	DY42145	DY42177	DY42223	DY42226	DY42449
DY42458	DY42468	DY42536	DY42556	DY42586	DY42610
DY42755	DY42774	DY42813	DY42865	DY42896	DY42987
DY43150	DY43281	DY43308	DY43349	DY43423	DY43426
DY43447	DY43462	DY43595	DY43626	DY43683	DY43726
DY43747	DY43923	DY43950	DY44061	DY44164	DY44270
DY44287	DY44291	DY44309	DY44343	DY44415	DY44463
DY44507					

COMPONENT 568606610 (ICCF)

PN73312	PN73314	PN79224	PN80038	PN85665	PN88902
PQ11175					
PQ22701	PQ30054	PQ33539	PQ22257	PQ36354	

COMPONENT 568606611 (FASTCOPY)

DY44060	DY44121	DY44214			
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COMPONENTs 568606612, 568606616 (REXX)

PN71905	PN76368	PN81831	PN86778	PN88688	PN91777
PQ00250	PQ03808				
PQ11196(UQ12116)					
PQ11893(UQ13366)					
PQ16345(UQ18313)					
PQ18399(UQ20923)					
PQ22016	PQ24982	PQ33431	PQ31258		

COMPONENT 568606613 (OLTEP)

DY44219

TCP/IP 1.4 5686-A04

PQ11216	PQ11589	PQ11981	PQ12876	PQ14716	PQ14718
PQ14724	PQ16251	PQ18295	PQ18354	PQ19496	PQ19507
PQ19603	PQ19780	PQ20942	PQ21691	PQ24008	PQ26600
PQ27233	PQ27252	PQ28760	PQ29052	PQ29053	PQ39048
PQ39540	PQ39277				

LE/SE 1.4.1 5686-06632 (LE Base)

PQ24407	PQ24997	PQ26738	PQ27448	PQ28586	PQ28747
PQ29165	PQ31256	PQ31989	PQ35020	PQ36828	PQ38321
PQ21622*					

*) indicates the APAR has been routed from LE/MVS.

LE/SE 1.4.1 5686-06633 (LE C)

PQ24999	PQ27349	PQ30589	PQ31101	PQ32076	PQ33140
PQ34038	PQ34263				

LE/SE 1.4.1 5686-09403 (LE COBOL)

PQ24687	PQ28536	PQ29574	PQ30638	PQ30663	PQ30711
PQ30714	PQ38025				
PQ11742*					

Note: * indicates the APAR has been routed from LE/MVS.

LE/VSE 1.4.1 5686-09406 (LE PL/I)

PQ28824 PQ30907 PQ32442 PQ36650 PQ37297

Note: For APARs of the CICS Transaction Server 1.1.0, please see the 5648-054 Program Directory.

CICS/TS 1.1.1 5648-054

PQ26158	PQ26159	PQ26160	PQ26161	PQ26165	PQ26166
PQ26170	PQ26632	PQ26634	PQ26635	PQ26636	PQ26639
PQ26640	PQ26642	PQ26644	PQ26789	PQ26792	PQ27517
PQ27956	PQ27959	PQ28334	PQ28617	PQ28642	PQ29185
PQ29289	PQ29570	PQ29694	PQ30170	PQ30707	PQ31254
PQ33689	PQ34164	PQ34772	PQ35402	PQ33640	PQ36567
PQ35598					

CICS/VSE 5686-026

PN37731	PN32752	PN33257	PN34750	PN34924	PN35124
PN35286	PN35288	PN35295	PN35297	PN35298	PN35359
PN35360	PN35361	PN35362	PN35363	PN35364	PN35372
PN35379	PN35380	PN35557	PN35575	PN35701	PN35801
PN35877	PN35992	PN36011	PN36092	PN36190	PN36271
PN36292	PN36367	PN36386	PN36568	PN36569	PN36570
PN36571	PN36572	PN36662	PN36712	PN36766	PN37025
PN37151	PN37166	PN37238	PN37389	PN37390	PN37522
PN37524	PN37535	PN37536	PN37648	PN37731	PN37752
PN37880	PN38033	PN38155	PN38293	PN38365	PN38388
PN38459	PN38505	PN38638	PN38886	PN39085	PN39140
PN39224	PN39228	PN39316	PN39568	PN39602	PN39864
PN40061	PN40087	PN40165	PN40199	PN40368	PN40372
PN40378	PN40640	PN40665	PN40708	PN40714	PN40715
PN40948	PN41586	PN41651	PN41766	PN42172	PN42288
PN42386	PN42613	PN42891	PN43023	PN43160	PN43264
PN43309	PN43347	PN43369	PN43485	PN43510	PN43588
PN43751	PN43800	PN44155	PN44207	PN44214	PN45117
PN45135	PN45238	PN45271	PN45647	PN46130	PN46135
PN46281	PN46353	PN46636	PN46904	PN46993	PN47097
PN47102	PN47113	PN47244	PN47591	PN47743	PN47989
PN48028	PN48040	PN48404	PN48410	PN48430	PN48724
PN48941	PN48973	PN49006	PN49231	PN49268	PN49328
PN49371	PN49615	PN49720	PN49943	PN49948	PN50119
PN50346	PN50391	PN50472	PN50485	PN50561	PN50630
PN50729	PN50868	PN50974	PN51142	PN51364	PN51375
PN51394	PN51534	PN51948	PN52420	PN52496	PN52666
PN52755	PN53106	PN53365	PN53386	PN53489	PN53571
PN53693	PN53844	PN53887	PN53965	PN53969	PN54312
PN54952	PN55214	PN55271	PN55325	PN55382	PN55392
PN55452	PN55508	PN55760	PN55875	PN55882	PN55898
PN56816	PN56924	PN57279	PN57411	PN57582	PN58043
PN58236	PN58272	PN58321	PN58578	PN58949	PN58963
PN59628	PN59920	PN60212	PN60293	PN60333	PN60443
PN60539	PN60598	PN60651	PN60656	PN61670	PN61694
PN61744	PN61807	PN61924	PN61994	PN62157	PN62356
PN62548	PN63056	PN63113	PN63525	PN63952	PN64262
PN64283	PN64417	PN64834	PN65164	PN65239	

ACF/VTAM 5686-065

DY41460	DY41461	DY41480	DY41751	DY41869	DY41873
DY41901	DY41916	DY41921	DY41957	DY41981	DY42004
DY42011	DY42038	DY42057	DY42062	DY42071	DY42078
DY42102	DY42124	DY42126	DY42129	DY42167	DY42171
DY42174	DY42176	DY42193	DY42206	DY42214	DY42217
DY42224	DY42236	DY42237	DY42261	DY42265	DY42268
DY42273	DY42275	DY42287	DY42288	DY42289	DY42300
DY42306	DY42308	DY42315	DY42317	DY42318	DY42319
DY42321	DY42339	DY42351	DY42352	DY42367	DY42368
DY42369	DY42381	DY42393	DY42394	DY42395	DY42409
DY42416	DY42422	DY42428	DY42429	DY42430	DY42436
DY42437	DY42444	DY42452	DY42454	DY42461	DY42466
DY42477	DY42478	DY42479	DY42480	DY42484	DY42490
DY42507	DY42511	DY42529	DY42535	DY42544	DY42548
DY42560	DY42562	DY42564	DY42565	DY42583	DY42584
DY42585	DY42608	DY42609	DY42611	DY42617	DY42619
DY42626	DY42636	DY42651	DY42656	DY42660	DY42663
DY42668	DY42669	DY42675	DY42686	DY42687	DY42688
DY42696	DY42702	DY42714	DY42715	DY42716	DY42731
DY42739	DY42751	DY42752	DY42762	DY42765	DY42766
DY42783	DY42784	DY42785	DY42787	DY42788	DY42791
DY42808	DY42810	DY42811	DY42819	DY42832	DY42833
DY42841	DY42842	DY42843	DY42848	DY42851	DY42852
DY42854	DY42870	DY42871	DY42872	DY42873	DY42882
DY42884	DY42885	DY42890	DY42910	DY42919	DY42938
DY42946	DY42973	DY42989	DY42998	DY43002	DY43006
DY43015	DY43016	DY43019	DY43020	DY43021	DY43048
DY43049	DY43055	DY43056	DY43057	DY43058	DY43059
DY43060	DY43064	DY43080	DY43081	DY43082	DY43087
DY43092	DY43094	DY43095	DY43096	DY43097	DY43098
DY43099	DY43105	DY43107	DY43108	DY43109	DY43112
DY43117	DY43125	DY43133	DY43143	DY43144	DY43148
DY43149	DY43152	DY43153	DY43158	DY43174	DY43177
DY43178	DY43186	DY43194	DY43198	DY43199	DY43200
DY43206	DY43212	DY43218	DY43219	DY43227	DY43230
DY43239	DY43249	DY43252	DY43266	DY43267	DY43268
DY43273	DY43274	DY43279	DY43280	DY43284	DY43288
DY43309	DY43310	DY43318	DY43327	DY43330	DY43331
DY43355	DY43358	DY43362	DY43364	DY43365	DY43366
DY43375	DY43376	DY43378	DY43381	DY43382	DY43384
DY43385	DY43386	DY43391	DY43392	DY43394	DY43396
DY43397	DY43398	DY43400	DY43401	DY43402	DY43404
DY43405	DY43409	DY43410	DY43421	DY43432	

Additional DOC APARs

PN51139
VM57309
DY43132
DY43201
DY43283
DY43324
PN65266

4.1.1.1 Fixed Vendor Problems

1. P250V001 SUBSID INQUIRY returns X'060400'
2. P250V002 APAR DY45329 not included
3. P250V003 HLASM with e-decks doesn't work
4. P250V006 Abend when applying MSHP ptf to PHASE=CAKSLIBR
5. P250V007 Max BLKSIZE for DTFMT

4.2 Service Level Information

There is no information for VSE/ESA 2.5.0 at this time.

4.3 Cumulative Service Tape

There is no cumulative service tape for VSE/ESA 2.5.0.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating VSE/ESA 2.5.0.

5.1 System Requirements

5.1.1 Operating System Requirements

VSE/ESA 2.5.0 is an operating system itself and does not require another operating system to run under. Anyway, VSE/ESA 2.5.0 can run as a guest system under the following VM/ESA systems:

VM/ESA Version 2, Release 2.0, 3.0, 4.0

Note that VSE/ESA 2.5.0 runs with supervisor mode ESA only. If you are migrating from a pre VSE/ESA V2 system and running a supervisor with MODE-VM or MODE=VMESA, please see *VSE/ESA Planning*, SC33-6703, Chapter: Planning for Migration.

Additional information is available in *VM/ESA Running Guest Operating Systems*, SC24-5755 and *VSE/ESA Installation*, SC33-6704.

5.1.2 VSE/ESA Processor Support

In general, VSE/ESA supports **uniprocessors** and **multiprocessors** of the following IBM System/390 processor series:

IBM S/390 Multiprise 2000
IBM S/390 Multiprise 3000
IBM S/390 Integrated Server
IBM S/390 Parallel Enterprise Server - Generation 3
IBM S/390 Parallel Enterprise Server - Generation 4
IBM S/390 Parallel Enterprise Server - Generation 5
IBM S/390 Parallel Enterprise Server - Generation 6
IBM S/390 9672 Parallel Enterprise Server
IBM ES/9000

This support includes:

- All uniprocessors of the IBM S/390 Multiprise 2000, and S/390 Multiprise 3000, IBM S/390 G3/G4/G5/G6 Enterprise Server, and IBM S/390 9672 Parallel Enterprise Server series. VSE/ESA provides "n-way" support for the multiprocessor models of these processor series through the VSE/ESA Turbo Dispatcher.
- Any model of the IBM ES/9000 family including uniprocessor models and also multiprocessor models through the VSE/ESA Turbo Dispatcher.

VSE/ESA is also able to run on the following System/390 uniprocessors: IBM PC Server 500 System/390 and IBM RS/6000 with S/390 Server-on-Board feature.

Note that VSE/ESA can run as a guest system under VM/ESA on all processors supported by VM/ESA.

5.1.3 Processor Details

Please refer to *VSE/ESA Planning SC33-6703* for an actual list of the processors supported by VSE/ESA.

5.1.4 Minimum System Configuration

VSE/ESA 2.5.0 requires the following minimum system configuration:

- 16MB of processor (real) storage.

Since the processor storage available is usually much higher, this value is mainly of interest if VSE/ESA is running in LPAR mode or under VM/ESA.

- About 916MB (environment A) or about 1030MB (environment B) of disk device space on two volumes, DOSRES and SYSWK1, as outlined in *VSE/ESA Planning, SC33-6703*.
- A tape or cartridge unit supporting the distribution medium.
- A system printer. This may be a channel-attached or adapter-attached printer controlled by VSE/POWER or a local terminal printer controlled by CICS. A terminal printer should have a minimum speed of 300 lines per minute.
- A display station. This can be a terminal or programmable workstation of any supported type.
- The system console. This can be an integrated console or any display station supported as system console.

5.1.5 DASD Storage Requirements

Please see: *VSE/ESA Planning, SC33-6703* for storage requirements.

6.0 Special Considerations

Information on VSE/ESA base and optional programs

6.1 Tips and Hints for VSE/ESA Base Programs

6.1.1 VSE/ESA Fast Service Upgrade (FSU)

There will be no Fast Service Upgrade provided from release prior to VSE/ESA 2.4.0. For an FSU from VSE/ESA 2.4.0, be aware of the changed tape layout. First run the prepare step, afterwards you may run the FSU installation. **Do not run a downlevel check**. For preparation tasks refer to the *System Upgrade and Service* manual.

After FSU is finished, you should update the CICS TS transaction security settings using the merge key (PF6) on the 'Dialog Definition Transaction Security' (fastpath 28). For additional post-FSU tasks refer to the *System Upgrade and Service* manual.

With VSE/ESA 2.5.0 the system default FCT settings are migrated in the CICS CSD file. After the FSU from VSE/ESA 2.4 message 'DFHAM4803F applid Install failed because an existing definition for file 'FILE' could not be deleted' is displayed. This is due to the fact that the SIT refers to FCT=SP and therefore the FCT definition is used instead of the CICS RDO definition. You should change the SIT to FCT=NO to avoid the message. CICS will use the CSD base file definition.

6.1.2 Unattended Node Support - Environment C

Environment C is only supported if an FSU is performed from a VSE/ESA 2.4 Unattended Node system. Be aware of the fact that VSE/DSNX and VSE/OCCF are not delivered any longer as optional products. Both products are part of the Unattended Node support and need to be re-installed from VSE/ESA 2.4.

6.1.3 OS/390 Library - API

This library contains members for the OS/390 emulation environment. The members contained in this library are not intended for general use by VSE/ESA customers but may be required by vendor products. Vendors who have a need for these interfaces should contact VSE/ESA development by sending a note to VSE@de.ibm.com

6.1.4 Restriction of the MSHP TAILOR Function

The MSHP TAILOR function together with one of the following control statements

```
EXECute ASSEMBLY  
EXECute ASSEMBLY,LNKEDT  
EXECute ASSEMBLY,LIBR
```

for generating library members is no longer supported with VSE/ESA Version 2.

Message

```
0S05I PHASE ASSEMBLY NOT FOUND
```

will be issued if it is attempted to use this function. Starting with VSE/ESA 2.1, the DOS/VSE Assembler (ASSEMBLY) has been replaced by the High Level Assembler for VSE (ASMA90). The MSHP TAILOR function does not work with the High Level Assembler for VSE.

6.1.5 Implementation of LCDD for the 3494 Tape Library Dataserver in the VSE/ESA 2.5.0

base system

APAR DY45195/UD51119 contains the LCDD (Library Device Control Driver for VSE/ESA) source and is included in VSE/ESA 2.5.

For LCDD commands please review GC35-0176, but be aware that LCDD is installed into IJSYSRS.SYSLIB and the sample startup JCL to tailor is in ICCF LIB 59.

6.1.6 Device Support Facilities (ICKDSF 1.16)

Note that the INIT command of the ICKDSF program 1.16 (included since VSE/ESA 2.1.0) no longer supports the MIMIC parameter. For details refer to the manual *Device Support Facilities, User's Guide and Reference, GC35-0033*.

6.2 Language Environment for VSE/ESA (LE/VSE 1.4.1)

6.2.1 LE/VSE 1.4.1 Changes

The most important changes affect the way LE/VSE 1.4.1 is distributed: Except for the DBCS local component, all LE/VSE components are now shipped as part of the VSE/ESA 2.5.0 bas system.

The following table lists the new component identifiers (COMP IDs) and component level codes (CLCs):

Component Id	CLC	Description
5686-066-32	55K	LE Common base, containing information written in: <ul style="list-style-type: none">- uppercase and mixed-case U.S. English- Japanese NLF
5686-066-33	55L	LE C-specific base, containing information written in: <ul style="list-style-type: none">- uppercase and mixed-case U.S. English- Japanese NLF
5686-066-34	55M	Optional LE DBCS Locale component (see note below)
5686-094-03	5EW	LE COBOL-specific base and CICS, containing information written in: <ul style="list-style-type: none">- uppercase U.S. English- Japanese NLF
5686-094-06	5EZ	LE PL/I-specific base, containing information written in: <ul style="list-style-type: none">- uppercase and mixed-case U.S. English- Japanese NLF

Note: The optional LE/VSE 1.4.1 DBCS locale component is shipped on the VSE/ESA 2.5.0 extended base tape.

For more info please see the *LE/VSE Release Guide SC33-6779* which is available on the *VSE/ESA Softcopy Collection Kit SK2T-0060*.

6.2.2 Mixed Language Applications under LE/VSE (involving Assembler)

When creating or maintaining mixed language applications in an LE/VSE environment various supported techniques are available. In general the following macros and services can assist to ensure operating LE/VSE-conform.

- LE/VSE assembler macros (CEEENTRY/CEETERM)
- LE/VSE preinitialization service (CEEPIPI)
- LE/VSE C-specific macros (EDCPRLG/EDCEPIL)

Examples and further details not covered here are available on LE/VSE Home Page via "http://www.s390.ibm.com/le_vse/samples.htm" or VSE/ESA Software Newsletter, Third/Fourth Quarter 1999 (G225-4508-19).

6.2.3 Summary of LE/VSE Customization and IVP-Jobs in IUI

This is a list of LE/VSE related jobs, pre-installed in ICCF library 62 since VSE/ESA 2.3.0. These members can assist you in various verification and customization tasks.

Figure 53 (Page 1 of 2). LE/VSE 1.4 Jobs in ICCF lib 62

ICCF Member	Purpose and Function
CEECCSD	LE/VSE base program definitions (CICS)
CEEWCCSD	Skeleton for enabling LE/VSE program definitions (CICS)
CEEWCEXT	Identify abnormal termination exit to LE/VSE (CICS)
CEEWCOPT	Installation-wide default LE/CICS run-time options
CEEWCXIT	Installation-wide assembler user exit
CEEWDCD0	Card-device run-time LIOCS phase
CEEWDDU0	Diskette-device run-time LIOCS phase
CEEWDEXT	Identify abnormal termination exit to LE/VSE (batch)
CEEWDOPT	Installation-wide default LE/batch run-time options
CEEWDPR0	Printer device run-time LIOCS phase
CEEWDXIT	Installation-wide assembler user exit (batch)
CEEWHLLX	High level language user exit
CEEWINFG	Collect system status information related to LE/VSE
CEEWINFR	Summarize/condense information generated via CEEWINFG

Figure 53 (Page 2 of 2). LE/VSE 1.4 Jobs in ICCF lib 62

ICCF Member	Purpose and Function
CEEWIVP1	Verification of Assembler program interface
CEEWIVP2	Verification of LE/VSE COBOL Component
CEEWIVP3	Verification of LE/VSE PL/I Component
CEEWIVP4	Verification of LE/VSE C Component
CEEWIVP5	Verify the LE/VSE C Prelink Utility
CEEWMSVA	LE/VSE base routines eligible for putting into the SVA
CEEWUOPT	Application specific run-time options
CEEWUXIT	Application specific assembler user exit
EDCCCS	LE/VSE C-specific program definitions (CICS)
EDCLLOCL	Changing the C locale time information
EDCWMSV1	LE/VSE C-specific routines eligible for SVA
IBMCCSD	LE/VSE PL/I-specific program definitions (CICS)
IBMSVA1	LE/VSE PL/I-specific routines eligible for SVA
IGZCCSD	LE/VSE COBOL-specific program definitions (CICS)
IGZWEPC	COBOL COBPACK tailoring
IGZWEPC	COBOL COBPACK tailoring
IGZWEPCO	COBOL COBPACK tailoring
IGZWESV1	LE/VSE COBOL-specific routines eligible for SVA
SKLE370	LE/VSE CICS CSD entries in GROUP(CEE)

Note: Skeleton SKLE370 is located in ICCF lib 59. It reflects a pre-customized status of the shipped CICS region (for VSE/ESA 2.5.0 and higher this is a CICS TS based DBDCCICS). Hence there is no need to run SKLE370 unless LE/VSE definitions are modified or reestablished. For example this may apply when a second CICS region is built. Be aware that you need LE/VSE C-specific support in order to start CICS TS, respectively make use of Debug Tool for VSE/ESA (orderable feature of LE/VSE enabled compilers).

6.2.4 Languages and CICS Transaction Server

CICS Transaction Server for VSE/ESA supports:

- All LE/VSE conforming compilers (C/VSE, COBOL/VSE, PLI/VSE)
- High Level Assembler with LE/VSE
- DOS/VS COBOL and VS COBOL-II (if relinked / using LE run-time)

CICS Transaction Server will not support:

- DOS PL/1 and C/370 applications (recompilation with LE-conforming compiler is required)
- RPG-II (not supported by LE, either)

6.2.5 Generating Applications Capable of Running Under LE/VSE

Be aware of the Interactive Interface support (Primary Library, OPTION 8, translate and compile ...) in order to build your applications.

This will ensure usage of language independent stubs such as CICS DFHELII, related options etc.

Note: Be aware that every CICS TS related transaction needs to be "security-enabled" prior to it's first execution. The Interactive Interface provides associated support via dialog 'Define Transaction Security' fastpath 28.

6.2.6 LE/VSE Performance Improvements and Support for CICS TS

Related enhancements are integral part of VSE/ESA 2.4.0 and provide considerable below-the-line virtual storage relief for applications running in CICS/VSE, CICS TS and batch environments. By the way Debug Tool for VSE/ESA has also been modified to allow debugging LE/VSE-conforming applications under CICS Transaction Server for VSE/ESA.

6.2.7 AMODE 24 Applications in a LE/VSE-initialized CICS Environment

Under CICS, the supplied default LE/VSE run-time options ALL31(ON) and STACK(4K,4K,ANYWHERE,KEEP) are present. Nevertheless, these options must be changed to ALL31(OFF) and STACK(4K,4K,BELOW,KEEP) in order to run AMODE 24 applications successfully. This is also of importance if calling such programs from AMODE 31 applications. Simply saying these settings are required wherever AMODE switching might take place.

Detailed information about run-time option changes are available in *IBM LE/VSE R4 Installation and Customization Guide, SC33-6682* and *IBM LE/VSE Enhancements V1R4, SC33-6778*

6.2.8 Run-Time Options to Use with Caution

You may find these tips valuable in your environment:

- Use LE/VSE run-time option **TERMTHDACT(UADUMP)** for diagnosis in a batch environment. It generates a VSE partition dump and a corresponding LE/VSE dump. For problem determination under both CICS/VSE and CICS TS it is recommended to specify TERMTHDACT(DUMP).
- The default run-time option **HEAP(...,ANYWHERE,..)** is important because of the correlation to COBOL compile options DATA(24/31), RMODE and RENT. Be aware that there is a 64k limit for CICS GETMAIN storage requests below the 16MB line. Avoid HEAP(BELOW), it ignores the COBOL DATA(xx) compile setting for location of dynamic data areas (such as working storage) !
- Setting **TRAP(ON)** ensures LE/VSE's integrity when handling abnormal conditions. TRAP(OFF) should only be activated on request of IBM service personal.
- The **3rd parameter** of the **STORAGE** run-time option can be of importance in PL/I migration environments. It deals with PL/I automatic variable storage and provides an initialization service in case the programming style did not consider start values for variables. However the associated performance impact can be significant (dependent on how the application is coded). Since it deals with the LE/VSE stack it can degrade overall run-time performance for all languages ! Therefore a setting of STORAGE(00,NONE,00,xk) should be used very strictly, respectively application specific (e.g. via tailored CEEUOPT.OBJ or JCL PARM override).

6.2.9 LE/CICS-wide Run-Time Options to VSE Console

You may wish to display active LE/CICS-wide run-time option defaults immediately (without the need on global report option setting via run-time option RPTOPTS(ON)). This is supported via C/VSE-CICS program EDCYCROP which is shipped in CICS GROUP(CEE) since VSE/ESA 2.4.0 or available via PTF **UQ29092**. You can choose the transaction id associated with this program (which needs to be added to CICS CSD, explicitly). Running this transaction will show LE/CICS-wide default options on VSE console.

6.2.10 CICS Table Parameter Settings

Please ensure that you update the following CICS table(s) if you intend to run COBOL/VSE, VS COBOL II, DOS/COBOL or PLI/VSE programs under control of LE/VSE:

CICS System Definition Table (SIT):

- **COBOL2=NO**

LE/VSE will automatically provide you with the necessary run-time support for VS COBOL II.

- **PL1=NO**

This is the recommended setting in order to indicate to CICS/VSE that LE/VSE is going to provide related run-time support. In case of LE/VSE this must be a PLI/VSE compiled program unit. On the contrary PL1=YES assumes involving the obsolete DOS PL/I 1.6.0 run-time library which went out-of-service 06/30/1997.

CICS Processing Program Table (PPT): (VS COBOL II only)

If there are VS COBOL II run-time PPT entries

- Do **not** include copy-book **IGZ9PPT.A** in your PPT
- Recompile your CICS PPT in order to update control information
- Recycle CICS via **cold-start**. This should be done once in conjunction with topic "Member SKLE370 provides LE/VSE support for CICS/VSE".
- If there are CICS CSD entries for VS COBOL II modules IGZCPAC & IGZCPCC (instead of macro definitions) - ensure they are removed

If you plan to use VS COBOL II with the LE/VSE run-time under CICS/VSE, you should observe the following when modifying your CICS/VSE PPT:

- Do **not** include the VS COBOL II copy-book, **IGZ9PPT.A** in your PPT. Instead include the copy-book, **IGZCPPT.A**, supplied in PRD2.SCEECICS.
- Recompile your CICS PPT
- Recycle CICS via **cold-start**

6.2.11 CICS Translator Options Required for COBOL Applications

For COBOL/VSE or VS COBOL II online programs (VS COBOL II must at least be relinked to involve LE/VSE run-time) one of the following CICS/VSE or CICS TS translator options must be used. This will apply to mainline programs as well as to COPY-books that may be translated separately.

- XOPTS(**COBOL2**) was a minimum setting for VS COBOL II type programs, preferable matching the ANSI74 standard. It may also be used in a COBOL/VSE context.
- XOPTS(**ANSI85**) implies COBOL2 and can also be applicable for COBOL/VSE or VS COBOL II compiled program units. However these settings are appropriate in case the application exploits ANSI85 functionality such as nested programs.
- XOPTS(**COBOL3**) is a CICS TS only translator option which you may wish to use as an indicator for a COBOL/VSE or SAA AD/Cycle COBOL/370 cross compile program unit. It implies ANSI85 and COBOL2. By the way CICS TS doesn't support the SIT COBOL2 parameter since the run-time must be LE/VSE. Please refer to CICS Transaction Server documentation for more details.

Note: Sometimes VS COBOL II programs, translated without either of these CICS translator options, executed without error with the former VS COBOL II run-time. However such programs will not execute successfully under LE/VSE and are likely to use the old and obsolete COBOL specific CICS stub DFHECI.

6.2.12 LE/VSE Related Service via Ordering PSP Bucket

Please use VSE/ESA specific PSP buckets for upgrading LE/VSE. This package is named "VSEESA2xy" (where x is the release number > 2 and y the modification level). It can be ordered via IBM service teams. The related subset for LE/VSE is named "IBMLANG/1DS". Of further interest can be CICS subsets ensuring synchronization with LE/VSE.

Further general service assist will be available via the Service Update Facility (SUF): "<http://www.s390.ibm.com/suf/>" or "<http://techsupport.services.ibm.com>".

6.2.13 LE/VSE Documentation Links and Pointers

- http://www.s390.ibm.com/le_vse (LE/VSE Home Page)
- LE/VSE Release Guide SC33-6779-00

Note: The listed books reference the latest manual suffix available. They are accessible via links on the LE/VSE Home Page and reflect most of the changes made available via LE/VSE informational APARs. (corrective information for LE/VSE documentation) which are.

6.3 TCP/IP for VSE/ESA

The functional update of the TCP/IP for VSE/ESA 1.3 program (IBM program number 5686-A04) to release level 1.4 is available with APAR PQ29053. This APAR is included in VSE/ESA 2.5.0 and represents the initial code level for CLC 51P of TCP/IP for VSE/ESA in VSE/ESA 2.5.0.

The documentation for TCP/IP 1.4 for VSE/ESA is available on the VSE/ESA 2.5.0 Softcopy Collection CD-ROM SK2T-0060.

On the CD-ROM you will find 6 books with the original program description from Connectivity Systems Incorporated, the provider of the TCP/IP for VSE 1.4 program, plus one manual describing the setup of the TCP/IP for VSE/ESA program IBM is providing. The books are as follows:

- TCP/IP for VSE/ESA - IBM Program Setup and Supplementary Information
- TCP/IP for VSE 1.4 Installation Guide
- TCP/IP for VSE 1.4 User's Guide
- TCP/IP for VSE 1.4 Commands
- TCP/IP for VSE 1.4 Programmer's Reference
- TCP/IP for VSE 1.4 Messages and Codes
- TCP/IP for VSE 1.4 Optional Products

The manual 'TCP/IP for VSE/ESA - IBM Program Setup and Supplementary Information' (SC33-6601) replaces the former 'TCP/IP for VSE/ESA User's Guide'. All the available documentation for the TCP/IP for VSE/ESA 1.4 program is described in that manual in Chapter 1.

All the documentation on the CD-ROM is available in PDF format only. You can use the Adobe Acrobat Reader to view and print the documentation. If you do not already have an Acrobat Reader installed, or if you need information on installing and using an Acrobat Reader, see the Adobe Web site at

<http://www.adobe.com>

You will find the documentation for this new release of TCP/IP for VSE/ESA also on the VSE Home Page at

<http://www.s390.ibm.com/products/vse/vsehtmls/tcphome.htm>

For a detailed description of

- How to install TCP/IP Keys
- The TCP/IP Demomode
- Dependencies when you already have got a license from Connectivity Systems

please see the manual *TCP/IP for VSE/ESA IBM Program Setup and Supplementary Information* SC33-6601.

6.4 Known Impact on Vendor Software

If you are using products from Computer Associates - FAQs or EPIC, please make sure that you apply the following PTFs:

LO05042 for FAQs/PCS
EP51270 for EPIC

6.5 Hints and Tips to CA-Top Secret

6.5.1 CA-Top Secret for VSE/ESA

CA-Top Secret for VSE/ESA (Version 1 Release 3), is always shipped with your VSE/ESA 2.5.0 order. It is key protected and requires a unique user access key. However, the user access key is only generated and delivered automatically from IBM as well as the entitled product publications, when CA-Top Secret for VSE/ESA is explicitly ordered. The license order for CA-Top Secret for VSE/ESA can be placed together with any other product with the VSE/ESA 2.5.0 product set or alone at a later point in time.

6.5.1.1 CA-Top Secret for VSE/ESA - Prerequisite CA90s

CA90s renamed to CA-CIS

CAI Inc. has renamed "CA90s Services for VSE" to "CA Common Infrastructure Services for VSE" or "CA-CIS". This name change does not affect the contents nor Version/Release nor the described handling of the deliverable.
In the following, please read "CA90s" as "CA-CIS".

CA-Top Secret for VSE/ESA, V1R3, requires CA90s Services for VSE (CA90s), Version 1 Release 4, or higher as prerequisite.

Ordering CA90s from CAI Inc. can be performed by providing:

- customer name,
- shipping address (no Post Office Boxes),
- customer contact,
- phone number,
- preferred medium,
- request statement "CA90s Services to support CA-Top Secret VSE, including ENF"

via one of the following alternatives:

- Visit the URL provided by CAI Inc. for this purpose at:
http://www.cai.com/solutions/os390/vse/ca90_service_form.htm
- Send an e-mail to:
danda01@mail.cai.com
- If not e-Mail/Web-enabled:
Phone: USA (516)342-2181
Fax: USA (516)342-4873

The customer will receive CA90s Services for VSE, Version 1 Release 4, (CA90s) with the required documentation and a License Agreement form directly from CAI Inc.. The customer must return the signed License Agreement form directly to CAI Inc..

The customer will be registered and licensed for CA90s by CAI Inc. who will also provide service for CA90s. CA90s is a Computer Associates International, Inc. product, not an IBM product. IBM does not assume any responsibility for CA90s either expressed or implied.

CA90s is provided at no additional charge.

6.5.1.2 CA-Top Secret for VSE/ESA - Demo Mode: CA-Top Secret for VSE/ESA can run in “demo mode” without user access keys but still requiring CA90s. “Demo mode” means all functions in CA-Top Secret for VSE/ESA can be used, however, resources are not protected. If a security violation occurs, it will be reported with console messages only.

6.6 Publication Updates

6.6.1 Accessing VSE/ESA Performance Documentation

You can receive up-to-date performance information for VSE/ESA from your IBM representative or from the Internet.

Your IBM rep can request the following packages for you:

PACKAGE	CONTENTS
VE13PERF	VSE/ESA 1.3/1.4, Performance Considerations
VE21PERF	VSE/ESA 2.1-2.5 Performance Considerations, containing <ul style="list-style-type: none">• IBM VSE/ESA V2 Performance Considerations• VSE/ESA TCP/IP Performance Considerations• IBM VSE/ESA VM Guest Performance Considerations• IBM VSE/ESA Turbo Dispatcher Performance• IBM VSE/ESA I/O Subsystem Performance Considerations• IBM VSE/ESA Hints for Performance Activities• IBM VSE/ESA CICS Transaction Server Performance• IBM DFSORT/VSE Performance Considerations

Both packages are on the IBMVSE tools disk and can be obtained via

```
TOOLS SENDTO BOEVM3 VMT0OLS IBMVSE GET VExyPERF PACKAGE
```

You can also obtain this information from the Internet via the VSE/ESA homepage
<http://www.ibm.com/s390/vse/>

The following files are available there:

FILE	CONTENTS
VE13PERF.PDF	IBM VSE/ESA 1.3/1.4 Performance Considerations
VETCPPER.PDF	VSE/ESA TCP/IP Performance Considerations
VEVMPERF.PDF	IBM VSE/ESA VM Guest Performance Considerations
VE21PERF.PDF	IBM VSE/ESA V2 Performance Considerations
VE21TDP.PDF	IBM VSE/ESA Turbo Dispatcher Performance
VEIOPERF.PDF	IBM VSE/ESA I/O Subsystem Performance Considerations
VEPERACT.PDF	IBM VSE/ESA Hints for Performance Activities
VECICSTS.PDF	IBM VSE/ESA CICS Transaction Server Performance Considerations
VESORTP.PDF	IBM DFSORT/VSE Performance Considerations

These files are in PDF format (ADOBE Acrobat Reader). Use the File Transfer Program (FTP) to transfer them from IBM.

To obtain copies of these files from an FTP server, you can follow these instructions:

1. FTP to "ftp.s390.ibm.com"
2. Logon as "anonymous"
3. Change to the "/vse/docs" directory.
4. Download the files you want to your local drive in Binary mode.

6.7 Tips and Hints for VSE/ESA Optional Programs

6.7.1 DOS/VS COBOL withdrawal

DOS/VS COBOL is no longer available as individual product. DOS/VS COBOL customers who wish to run it under VSE/ESA 2.3 and later may refer to APARs PQ00970 and PQ00971. These APARs provide assistance in migrating the DOS/VS COBOL product (members+ MSHP service information) from an existing operating environment to VSE/ESA 2.3 and later.

6.7.2 COBOL MLE / PL/I MLE

The Cobol and PL/I for VSE/ESA compilers are changed to provide the capability to fix date related logic. The compilers (plus PTFs, see below) in conjunction with the new optional products VisualAge COBOL Millennium Language Extensions for VSE (5686-MLE) and Visual PL/I MLE for VSE (5686-MLX) will give customers the new syntax that allows them to tell the compiler which data items are date fields. The compiler then implements windowing logic in the generated code automatically.

To enable the new MLE compiler syntax the enablement products VisualAge COBOL MLE for VSE and/or VisualAge PL/I MLE for VSE must be installed and available when executing the COBOL/VSE and or PLI/VSE compilers.

7.0 Installation Instructions

There is no further information for VSE/ESA 2.5.0

8.0 VSE/ESA 2.5.0 Install Logic

There is no further information for VSE/ESA 2.5.0

9.0 Reader's Comments

Program Directory for VSE/Enterprise Systems Architecture Version 2 Release 5.0

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	not applicable
1	2	3	4	5	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)
- Other - Please specify type:

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:

Please provide the following contact information:

Name and Job Title

Organization

Address

Telephone

Thank you for your participation.

Please send the completed form to (or give to your IBM representative who will forward it to the VSE/Enterprise Systems Architecture Development group):

Kristel Flade
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