



# **Program Directory for z/VSE Version 5.2**

z/VSE Central Functions Version 9 Release 2.0

Program Number 5609-ZV5

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GI11-9703-03

**Note**

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

This program directory, dated April 2014, applies to z/VSE Central Functions Version 9 Release 2.0 (z/VSE Central Functions V9.2) , Program Number 5686-CF9 for the following:

<b>Feature Numbers</b>	<b>Content</b>	<b>System Name</b>
6015	z/VSE V5.2 English base on 3590/3592 cartridge	z/VSE V5.2
6015	z/VSE V5.2 English base on DVD-ROM	z/VSE V5.2
6315	z/VSE V5.2 Japanese base on 3590/3592 cartridge	z/VSE V5.2
6315	z/VSE V5.2 Japanese base on DVD-ROM	z/VSE V5.2

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## Notices

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## Summary of changes with z/VSE V5.2

The following summarizes the changes with z/VSE V5.2

### Important notice

The product 5686-CF9, z/VSE Central Functions V9.2 is the new release of the z/VSE V5.2 operating system.

The VSE SIR command displays *z/VSE V5.2.0* and also the RSL PSP bucket for this release is published specifying *VSERSL520*. The upgrade value for preventive service planning for this release is *zVSE520*.

For an overview of functional enhancements of z/VSE V5.2, please see

- z/VSE Release Guide, SC34-2636
- z/VSE Home Page:  
<http://www.ibm.com/systems/z/os/zvse>

### Updated z/VSE BASE PROGRAMS

- 5686-CF9 z/VSE Central Functions V9.2.0 - new release

### Updated OPTIONAL PROGRAMS

- none

### No longer available with z/VSE V5.2

- CICS/VSE 2.3 is not able to run under z/VSE V5

z/VSE ordering through ShopzSeries is now available in all countries (except embargoed countries). ShopzSeries allows you to select DVD-ROM, cartridges or internet delivery.

z/VSE is provided on DVD-ROM for customers from the following countries:

- **USA, CANADA and BRAZIL**
- **EUROPE:** Austria, Bulgaria, Belgium, Croatia, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Luxemburg, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom
- **AFRICA:**  
Algeria, Benin, Burkina Faso, Cameroon, Central Africa Rep. Chad, Congo, Cote D'Ivoire, Egypt, Gabon, Gambia, Guinea, Mali, Mauritania, Morocco, Niger, Senegal, South Africa, Togo, Tunisia
- **Near/Middle EAST:**

Bahrein, Dubai/Abu Dhabi, Israel, Jordan, Kuwait, Lebanon, Libya, Oman, Qatar, Saudi Arabia, Syria, United Arab Emirates, Yemen

- **ASIA:** Pakistan, Japan, Australia, New Zealand, Indonesia, Malaysia, Philippines, Thailand, Singapore, Brunei, Sri Lanka, Vietnam, India, Korea, Hong Kong, Macao, China, Taiwan



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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 z/VSE V5.2. 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 z/VSE V5.2.
- 3.0, “Program Support” on page 20 describes the IBM support available for z/VSE V5.2.
- 4.0, “Program and Service Level Information” on page 22 lists the APARs (program level) and PTFs
- 5.0, “Installation Requirements and Considerations” on page 25 identifies the resources and considerations for installing and using z/VSE V5.2.
- 7.0, “Installation Instructions” on page 42 provides detailed installation instructions for z/VSE V5.2.
- 8.0, “z/VSE V5.2 Installation Logic” on page 43 provides the installation logic for z/VSE V5.2.

Before installing z/VSE V5.2, read 3.1, “Preventive Service Planning” on page 20. This section tells you how to find any updates to the information and procedures in this program directory.

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## 2.0 Program Materials

An IBM program is identified by a program number and a feature code. The program number for z/VSE V5.2 is 5609-ZV5.

The program announcement material describes the features supported by z/VSE V5.2. 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

Customers with access to View Program Listings (VPL), such as through SoftwareXcel Extended, can access program listings.

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.

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## 2.1 For Users who have not ordered all z/VSE BASE Products

Customers, who have not ordered all z/VSE 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 z/VSE Version 5 system. You are requested to delete the base products you did not order and for which you have no license.

### 2.1.2 Jobstreams included for deleting z/VSE BASE products

z/VSE V5.2 provides ready-to-run jobs to delete base products for which you have no license.

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

- DELCICS to delete CICS TS V1.1.1
- DELDB275 to delete DB2 Server V7.5 or to delete DB2 Client Edition V7.5
- DELDIT to delete DITTO/ESA
- DELLECOB to delete the LE/VSE COBOL runtime \*)
- DELLEPLI to delete the LE/VSE PL/I runtime \*)
- DELTCPIP to delete TCP/IP for VSE/ESA 1.5.0
- DELVTM to delete ACF/VTAM 4.2
- DELHLASM to delete HLASM 1.6.0
- DELREXX to delete REXX/VSE 9.2.0

**Note:** \*) The VSE C Run-Time support will remain in the PRD2.SCEEBASE library.

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

**Note:** Since the z/VSE System Package is tested and delivered as a full-function, pre-packaged system, any modifications to the system are in 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 if 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 - otherwise CICS TS will not come up.

### 2.1.3 Special considerations when deleting CICS Transaction Server

- ICCF cannot be used
- The Interactive User Interface cannot be used

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## 2.2 z/VSE V5.2 - BASIC Machine Readable Material (MRM)

The **z/VSE V5.2** is delivered either

on **THREE volumes of either type 3590 or 3592**

- z/VSE Base
- z/VSE Extended Base
- DB2 Server for VM & VSE Help Text

or on **ONE DVD-ROM** containing:

- ReadMe File
- z/VSE Base
- z/VSE Extended Base
- DB2 Server for VM & VSE Help Text
- Files to create an installation disk

or **through internet delivery** (via ShopzSeries) to be downloaded

- ReadMe File
- z/VSE Base
- z/VSE Extended Base
- DB2 Server for VM & VSE Help Text
- Zip file containing the files to create an installation disk

Figure 1 on page 5 describes **MEDIA and VOLUMES** of z/VSE V5.2. These volumes contain all the programs and data needed for installation. z/VSE V5.2 is installed using the Maintain System History Program (MSHP).

Figure 2 on page 6 describes the **BASE PRODUCTS and COMPONENTS** of z/VSE V5.2 - on z/VSE Base cartridge.

Figure 3 on page 8 describes the **FILES** on the z/VSE Base cartridge.

Figure 4 on page 10 describes the z/VSE V5.2 **Extended BASE PRODUCTS / COMPONENTS** - on z/VSE Extended Base cartridge

Figure 5 on page 11 describes **z/VSE V5.2 on DVD-ROM** and the files provided through electronic delivery.

Please refer to the manuals *z/VSE Installation, SC34-2631* and *z/VSE System Upgrade and Service, SC34-2639*

## 2.2.1 z/VSE BASE - MEDIA and VOLUMES

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

Medium	Feature Numbers	Physical Volume	External Label Identification
3590 cartridge	6015	1	z/VSEvrn-YY
		2	z/VSEvrnXBASE
		3	z/VSE DB2 HELP
3592 cartridge	6015	1	z/VSEvrn-YY
		2	z/VSEvrnXBASE
		3	z/VSE DB2 HELP
DVD-ROM	6015	1	VSEvrn_BASE_YYY_DVD

### Notes:

1. **vrn** defines the version, release and modification level of z/VSE.
2. **YY** defines the LANGUAGE of the z/VSE base, in which the system was ordered:
  - YY = EN English
  - YY = KA Kanji (Japanese)
  
  - YYY = ENU English
  - YYY = KAN Kanji (Japanese)
3. The **XBASE** (Extended Base) contains further z/VSE Base Products. **DO NOT IPL the extended base tape!**

## 2.2.2 z/VSE BASE - PRODUCTS / COMPONENTS - on cartridge

Figure 2 describes the contents of the z/VSE V5.2 Base

Figure 2 (Page 1 of 2). z/VSE V5.2 - BASE Products

Product Description	Program Number	Component-Identifier	CLC
z/VSE Central Functions V9.2.0	5686-CF9	n/a	n/a
VSE/SP UNIQUE CODE	5686-CF9	5686CF901	52C
VSE/UNIQUE CODE ENGLISH	5686-CF9	5686CF902	52D
KANJI	5686-CF9	5686CF902	52E
VSE/POWER	5686-CF9	5686CF903	52C
VSE/POWER Macros	5686-CF9	5686CF903	52G
VSE/VSAM	5686-CF9	5686CF905	52C
VSE/VSAM Macros	5686-CF9	5686CF905	52G
VSE/AF SVR & BAM & GDS	5686-CF9	5686CF906	52C
VSE/AF Macros	5686-CF9	5686CF906	52G
VSE/AF Generation Feature	5686-CF9	5686CF906	52J
VSE/AF MSHP	5686-CF9	5686CF907	52C
VSE/AF Info/Analysis	5686-CF9	5686CF908	52C
VSE/AF IOCP	5686-CF9	5686CF909	52C
VSE/ICCF	5686-CF9	5686CF910	52C
VSE/FastCopy	5686-CF9	5686CF911	52C
REXX/VSE Library	5686-CF9	5686CF912	52I
REXX/VSE Kernel & Interface	5686-CF9	5686CF916	52I
CRYPTO SERVICES	5686-CF9	5686CF917	52S
OSA/SF	5686-CF9	5686CF930	52O
VSE Connector Server	5686-CF9	5686CF935	52N
LE Base ENU + JPN	5686-CF9	5686CF932	52K
LE C ENU + JPN	5686-CF9	5686CF933	52L
LE COBOL + JPN + CICS	5686-CF9	5686CF936	52W
LE PL/I + JPN	5686-CF9	5686CF937	52Z
CICS Transaction Server 1.1.1	5648-054	564805400	B0P
TCP/IP 1.5 for VSE/ESA 1) Application Pak NFS Feature GPS Feature	5686-A04	5686A0400	CTP

Figure 2 (Page 2 of 2). z/VSE V5.2 - 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 1.6.0	5696-234	569623400	689
EREP 3.5.0	5656-260	565626001	E00
ICKDSF 1.17.0	5747-DS2	565899201	1NM
DITTO/ESA for VSE	5648-099	564809901	36O

**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 z/VSE BASE - MRM FILE Contents - on cartridge

In case of an Fast Service Upgrade (FSU) release upgrade, the downlevel check should only be done **after** the prepare step.

Figure 3 describes the files of the z/VSE V5.2 Base

Figure 3 (Page 1 of 2). File Content: z/VSE V5.2 BASE

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
26	Generation Feature
27	Null File



Figure 3 (Page 2 of 2). File Content: z/VSE V5.2 BASE

<b>File</b>	<b>Name</b>
28	End of Tape Record (EOT)
29	Header File
30	MSHP History File - PRD1.BASE Products
31	PRD1.BASE Sublibrary
32	Header File
33	MSHP History File - PRD2.TCPIPC
34	PRD2.TCPIPC Sublibrary
35	Null File
36	End of Backup Record
37	Online-Message-File
38	Null File
39	End of Tape Record

## 2.2.4 z/VSE Extended BASE - PRODUCTS / COMPONENTS

Figure 4 describes the z/VSE V5.2 Extended BASE Products / Components.

Figure 4. z/VSE V5.2 - Extended BASE Products

Product Description	Program Number	ComponentID	CLC
OS/390 APIs	5686-CF9	5686CF914	52V
LE DBCS Locales	5686-CF9	5686CF934	52M
VSE Connector WS code 1)	5686-CF9	5686CF938	52P
IPV6/VSE	5686-BS1	5686BS100	C10
DB2 V7.5 Server f.VSE	5697-F42	5697F4201	5NN
DB2 V7.4 DPROP Q Capture	5697-F42	5697F4201	4NO
DB2 V7.5 Client Edition	5697-F42	5697F4207	5NC

### Notes:

1. VSE Connector Workstation code has been separated from VSE Connector Server. The VSE Connector Server is part of the z/VSE base tape, the VSE Connector Workstation code is part of the z/VSE extended base tape.

## 2.2.5 z/VSE on DVD-ROM

The following files (not necessarily in this sequence) are available on the DVD-ROM:

Figure 5 (Page 1 of 2). z/VSE V5.2 - z/VSE V5.2 on DVD-ROM

File	File Description	File Name
1	Readme File	ReadMvrm.txt
2	z/VSE Base	VSEvrmYY.AWS
3	z/VSE Extended Base	VSEvrmXB.AWS
4	DB2 Help Text	DB2FORVS.AWS
<b>Files to create an installation disk:</b>		
5	Installation file for Load from Removable Media or Server	VSEvrmYY.INS
6	Installation file for Load from Removable Media or Sever using the integrated console	VSEvrmYYI.INS
7	Load parameter for Load from Removable Media or Server using the integrated console	VSEvrmYYI.LP
8	Installation file for Load from Removable Media or Sever using the integrated console and debug enabled	VSEvrmYYID.INS
9	Load parameter for Load from Removable Media or Server using the integrated console and debug enabled	VSEvrmYYID.LP
10	Installation file for Load from Removable Media or Sever and debug enabled	VSEvrmYYD.INS
11	Load parameter for Load from Removable Media or Server and debug enabled	VSEvrmYYD.LP
12	Boot phase for Load from Removable Media or Server	VSEvrmYY.IPL

Figure 5 (Page 2 of 2). z/VSE V5.2 - z/VSE V5.2 on DVD-ROM

File	File Description	File Name
13	Boot PSW for Load from Removable Media or Server	VSEvmYY.PSW
14	Utility program to create a z/VSE installation disk in a z/VM CMS environment	VSEIDISK.MODULE
15	Help text in standard z/VM CMS format	VSEIDISK.HELPCMS
16	REXX script to create a z/VSE installation disk in a z/VM CMS environment	VSEIDISK.EXEC

where

vm is the current version, release and modification level of z/VSE  
 YY is the VSE base - language identifier  
 where: YY = EN English (US)  
       YY = KA Kanji (Japanese)

For details on the contents of the z/VSE base and the z/VSE extended base, please see Figures 2, 3 and 4. Note that the optional products are delivered on a 2nd DVD-ROM in a file named: VSE520OP.AWS.

## 2.2.6 z/VSE downloadable from the Internet

The following files are available when downloading from Internet through ShopzSeries:

Figure 6. z/VSE V5.2 - z/VSE V5.2 from Internet download

File	File Description	File Name
1	Base Tape	VSEvmYY.aws
2	Extended Base Tape	VSEvmXB.aws
3	DB2 Help Tape	DB2HELP.aws
4	Files to create an installation disk	VSEvmYY.zip
5	Opt.Product Tape	VSEvmOP.aws

where

vm is the current version, release and modification level of z/VSE  
 YY is the VSE base - language identifier  
 where: YY = EN English (US)  
       YY = KA Kanji (Japanese)

Note that after downloading the files from the Internet, you will have the z/VSE V5.2 operating system and/or optional products available on your PC in ZIPped format. After unzipping these files you will have the files available as shown in chapter **z/VSE on DVD-ROM** above.

The z/VSE operating system consists of 3 files (z/VSE base, z/VSE extended base, DB2 Help Text), for the optional products you will have only one file available: named VSEvmOP.AWS. In case of multiple optional products ordered, you will find all these optional products in this one file in VSE stacked format.

The description of the next steps for processing these files can be found at the z/VSE Home Page at

<http://www.ibm.com/systems/z/os/zvse>

or in the manuals z/VSE V5.2 Installation SC34-2631 or z/VSE V5.2 System Upgrade and Service, SC34-2639.

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## **2.3 z/VSE BASE - OPTIONAL Machine-Readable Material**

There are no optional machine-readable materials for z/VSE V5.2.

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## 2.4 z/VSE BASE - Program Publications

All z/VSE manuals are available as softcopy only. This includes VSE/POWER manuals, CICS Transaction Server for VSE/ESA manuals, and so on. You can obtain softcopy z/VSE manuals from either the:

- Online collection kit that is available in compressed format for download from the IBM publication center (SK3T-8348).
- IBM Publications Center, which has this internet URL:

<http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss>

From the IBM Publications Center, you can download most z/VSE online publications free-of-charge in PDF format.

## 2.5 z/VSE OPTIONAL PROGRAMS

Optional Programs are independent products which run under the operating system z/VSE. They can be ordered together with z/VSE or additionally later on.

The distribution medium for Optional Programs is the same as used for the z/VSE base. The medium contains all the programs and data needed for installation with the Maintain System History Program (MSHP). They are in stacked format and can be installed by using the z/VSE dialogs.

If z/VSE V5.2 was ordered to be delivered through the Internet (e-delivery), Optional Programs have to be downloaded as described in the z/VSE Install Instructions on the z/VSE Home Page:

<http://www.ibm.com/systems/z/os/zvse>

### 2.5.1 Optional Programs - available with z/VSE V5.2

Prod.No.	Product Name	V.R.M	remarks
-----	-----	-----	-----
5648-063	ACF/NCP	7.8.1	3746-900 incl. NCP
5648-099	DITTO/ESA for VM feature	1.3.0	VM format
5648-F66	Rational COBOL RT for z/VSE	7.5.0	
5648-B33	AFP Font Collection	2.1.1	VSE fonts / NLS
5668-723	GDDM-IVU	1.1.3	
5668-801	GDDM-IMD	2.1.3	
5668-812	GDDM-PGF	2.1.3	
5686-011	CICSVR/VSE	1.2.0	
5686-040	PSF/VSE	2.2.1	Base and Fonts
5686-057	GDDM/VSE	3.2.0	NLS available
5686-064	ACF/SSP for VSE	4.8.1	
5686-065	ACF/VTAM for VM feature ACF/VTAM APPC Feature	4.2.0	VM format
5686-068	COBOL for VSE/ESA	1.1.0	Full/Altern.Function
5686-069	PL/I for VSE/ESA	1.1.0	Full/Altern.Function
5686-A01	C for VSE/ESA	1.1.0	Full/Altern.Function
5655-U97	WebSphere MQ for z/VSE	3.0.0	
5686-A07	CCCA for VSE/ESA	2.1.0	
5688-035	X.25 NPSI	3.9.0	
5688-190	PPFA/370	1.1.0	
5688-191	OGL/370	1.1.0	incl. NLS
5696-234	HLASM Toolkit	1.6.0	WS feature
5697-F42	DB2 Server for VSE	7.5.0	NLV JPN, DEU, FRA
	DB2 Client Edition for VSE	7.5.0	NLV JPN, DEU, FRA
	Control Center		
	Data Restore		
	QMF for VSE		Base and NLV
	QMF for Windows		Base and NLV
5735-XXB	EP	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 II VSE	1.6.0	



5746-XX1 DL/I VSE 1.12.0  
 5686-CF9 Encryption Facility for z/VSE 1.2.0

## 2.5.2 Optional Programs - List of Product Identifiers

The following Optional Programs are available with z/VSE V5.2. The shown product identifiers (PRODID) are identical to those used on the Optional Program tape.

BACKUPID	COMPID	CLC	PRODID	
-----	-----	---	-----	
PSF/ACIF...2.2.1	564806201	FW0	062FW0	
PSF/API....2.2.1	564806202	FW1	062FW1	
NCP/V7.....7.8.1	564806300	78G	06378G	
DITTO.JPN..1.3.0	564809902	370	099370	
QMF/VSE....7.2.0	566872101	2NR	F422NR	Base / US English
QMF/VSE.U..7.2.0	564806102	2NS	F422NS	Upper Case English
QMF/VSE.C..7.2.0	564806103	20L	F4220L	Canadian French
QMF/VSE.F..7.2.0	564806107	2NU	F422NU	French
QMF/VSE.D..7.2.0	564806108	2NV	F422NV	German
QMF/VSE.I..7.2.0	564806109	2NW	F422NW	Italian
QMF/VSE.K..7.2.0	564806110	2NX	F422NX	Japanese
QMF/VSE.H..7.2.0	564806111	2NY	F422NY	Korean
QMF/VSE.P..7.2.0	564806112	2NZ	F422NZ	Brazil.Port
QMF/VSE.S..7.2.0	564806113	200	F42200	Spanish
QMF/VSE.Y..7.2.0	564806115	201	F42201	Swiss French
QMF/VSE.Z..7.2.0	564806116	202	F42202	Swiss German
PSF/COMPAT.B300	564811310	1BM	1131BM	300Pel Fonts
RDBCOBOLRT.7.5.0	5648F6600	750	F66750	
AFP_FONT...2.1.1	5648B3300	n/a	n/a	1)
GDDM-IVU...1.1.3	566872301	1FF	7231FF	
GDDM-IMD...2.1.3	566880101	1FG	8011FG	
GDDM-PGF...2.1.3	566881201	1F5	8121F5	
CICSVR/VSE.1.2.0	568601101	1NL	0111NL	
PSF/VSE....2.2.1	568604001	DC0	040DC0	
PSF/CODEPG.B240	568604015	FR9	040FR9	
AFP/CODEPG.B300	568604021	FS0	040FS0	
PSF/COMPAT.B240	568604055	DH1	040DH1	
PSF/COMPAT.U240	568604054	DH0	040DH0	
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.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....4.8.1	568606400	48G	06448G	
COB.BASE...1.1.0	568606800	18M	06818M	

COB.ENU....1.1.0	568606801	18N	06818N	
COB.JPN....1.1.0	568606802	180	068180	
PLI.VSE....1.1.0	568606900	18P	06918P	
C/VSE.BASE.1.1.0	5686A0100	1FY	A011FY	
C/VSE.JPN..1.1.0	5686A0101	1G4	A011G4	
DTVSE.BASE.1.1.1	5686A0200	6G8	A026G8	2)
DTVSE.JPN..1.1.1	5686A0201	6G9	A026G9	2)
WMQZVSE....3.0.0	5655U9700	300	U97300	
CCCA.VSE...2.1.0	5686A0700	1JS	A071JS	
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.1.6.0	569623401	6IM	2346IM	
DB2/NLV....7.5.0	5697F4201	5NN	F425NN	
DB2/NLV.CE.7.5.0	5697F4207	5NC	F425NC	
ASN/VSE....7.4.0	5697F4201	4NO	F424NO	
DB2CC.....7.3.0	5697F4206	3NQ	F423NQ	
DB2VSE.RCV.7.3.0	5697F4205	3NP	F423NP	
RPGII.....1.3.0	5746RG100	042	RG1042	
DFSORT/VSE.3.4.0	5746SM310	34A	SM334A	
VSE/ACLR...1.2.1	5746XE700	H06	XE7H06	
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.C.0	5746XX100	2I0	XX12I0	
EP_R14....1.14.0	5748EP115	4E1	EP14E1	
ZVSE.EF....1.2.0	5686CF940	52Y	CF952Y	

#### Notes:

1. The AFP Fonts will NOT be stacked. You will get them on separate cartridges. Please note, that the AFP fonts are not distributed on DVD-ROM or via e-delivery.
2. These components define the debugging functions (Debug Tool for VSE/ESA), which are part of the Full Function orders of C for VSE, PL/I for VSE and COBOL for VSE (the Debug Tool is the same for every language and can be installed only once).

### 2.5.3 Optional Programs - Delivery

All ordered Optional Programs will be delivered in stacked format, either on tape cartridge or in a file on DVD-ROM or in a file downloaded from the Internet. There will be multiple volumes, if the ordered products will physically not fit onto one tape cartridge.

You will get Program Directories of the individual Optional Programs ordered with z/VSE V5.2 on z/VSE online collection kit that is available in compressed format for download from the IBM publication center (SK3T-8348). Please ignore the **ordering information** in these directories, as this part does not apply to these products when ordered within the z/VSE package.

The external label of the volume(s) is: **z/VSE V5.2 OPT x OF y**

## 2.5.4 Optional Programs - File Content

Figure 7 describes the file content of the Optional Program Tape

*Figure 7. Program Tape - 'z/VSE V5.2 OPT x OF y' File Content*

<b>File</b>	<b>Name</b>
1	Null File
2	Start of Stacked Tape Indicator
3	Null File
4	Header File (Copyright)
5 to 8	1st Optional Program ordered
9 to 12	2nd Optional Program ordered
x to x+3	nth Optional Program ordered
x+4	Null File
x+5	Null File
x+6	End of Stacked Tape Indicator
x+7	Null File
x+8	Null File

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

## 2.5.5 Optional Programs - Licensed Publications

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

---

## 3.0 Program Support

This section describes the IBM support available for z/VSE V5.2.

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### 3.1 Preventive Service Planning

Before installing z/VSE V5.2, check with your IBM Support Center or use either the Internet, 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 value:

**zVSE520**

With this upgrade value you will see lists of subset values, one sorted by z/VSE base programs, and one sorted by z/VSE optional programs. The subset identifiers 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 a list of APARs and related PTFs for each 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.

---

### 3.2 Recommended Service Level

In addition to the PSP information, z/VSE offers the Recommended Service Level (RSL) to install z/VSE service preventively. The RSL consists of a list of **all** APAR/PTF numbers, which are available at specific cutoff dates. The RSL is updated bi-monthly and contains **all** available service, not only HIPER service.

The RSL for z/VSE V5.2 is published via a special RSL PSP bucket VSERSL520 and on the Internet via the z/VSE Home Page

<http://www.ibm.com/systems/z/os/zvse/support/preventive.html#rs1>

The RSL PSP is ordered on tape like a HIPER PSP and the Internet RSL can be ordered electronically.

---

### **3.3 Statement of Support Procedures**

Report any difficulties you have using this program to your IBM Support Center. If an APAR is required, the Support Center will provide the address to which any needed documentation can be sent. Please refer to Figure 2 on page 6 for component IDs (COMPID) for z/VSE V5.2

---

## 4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of z/VSE V5.2. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated from previous product version(s) / release(s). Information about the cumulative service tape is also provided.

---

### 4.1 Program Level Information

The following is a list of APARs fixed and incorporated into z/VSE V5.2 (not visible in MSHP history file).

#### **COMPONENT 5686CF901, ..02 (UNIQUE CODE)**

PM50994 PM52665 PM53782 PM53790 PM53867  
PM53892 PM56056 PM61579 PM63225 PM67930  
PM80542 PM80543 PM81139 PM87998 PM89967  
PM99756 PI09968

#### **COMPONENT 5686CF903 (POWER)**

DY47302 DY47311 DY47327 DY47383 DY47466  
DY47467 DY47474

#### **COMPONENTs 5686CF906, ..07, ..08, ..09 (AF)**

DY47264 DY47266 DY47268 DY47269 DY47270  
DY47275 DY47281 DY47293 DY47296 DY47298  
DY47299 DY47300 DY47301 DY47316 DY47323  
DY47371 DY47374 DY47386 DY47387 DY47391  
DY47394 DY47398 DY47400 DY47411 DY47413  
DY47414 DY47415 DY47417 DY47419 DY47428  
DY47429 DY47431 DY47436 DY47438 DY47443  
DY47442 DY47449 DY47454 DY47459 DY47460  
DY47468 DY47470 DY47471 DY47473 DY47479  
DY47481 DY47483 DY47486 DY47488 DY47490  
DY47500 DY47501 DY47508 DY47512

#### **COMPONENT 5686CF905 (VSAM)**

DY47290 DY47262 DY47284 DY47306 DY47320  
DY47322 DY47325 DY47335 DY47362 DY47375  
DY47378 DY47380 DY47381 DY47389 DY47402  
DY47407 DY47420 DY47423 DY47427 DY47440  
DY47441 DY47446 DY47447 DY47452 DY47457  
DY47461 DY47475 DY47480 DY47482 DY47485  
DY47496 DY47504 DY47505 DY47507

**COMPONENT 5686CF910 (ICCF)**

PM50998

**COMPONENT 5686CF917 (Crypto Services)**

DY47397 DY47472 DY47499

**COMPONENT 5686CF930 (OSA/SF)**

PM50611 PM57552 PM73907 PM82331

**Component 5686CF909 (IOCP)**

DY47406 DY47477 DY47494

**LE/VSE 5686CF932 (LE Base)**

PM53860 PM73473 PM76800 PM79074 PM77943  
PM86062

**LE/VSE 5686CF933 (LE/VSE C)**

PM51170 PM86172

**VSE Connectors 5686CF935 (Connectors)**

PM50616 PM51113 PM55958 PM56020 PM56023  
PM57359 PM58752 PM58755 PM64676 PM64792  
PM64799 PM78377 PM80539 PM80540 PM87426  
PM97205 PI05110 PI06549 PI09719

**LE/VSE 5686CF936 (LE/VSE COBOL)**

PM52367 PM67737 PM77159

**LE/VSE 5686CF937 (LE/VSE PLI)**

PM38830

**TCP/IP 1.5 5686A0400**

PM50851 PM58579 PM74044 PM84600 PI10796

**IPv6/VSE 1.1.0 5686BS100**

PM32167 PM42958 PM45606 PM47496 PM77065  
PM98875

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## **4.2 Service Level Information**

There is no information for z/VSE V5.2 at this time.

---

## **4.3 Cumulative Service Tape**

There is no cumulative service tape for z/VSE V5.2.



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## 5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating z/VSE V5.2.

---

### 5.1 System Requirements

#### 5.1.1 Operating System Requirements

z/VSE V5.2 can run in LPAR mode or as a z/VM guest in any supported z/VM release. z/VSE V5 executes in z/Architecture mode only.

#### 5.1.2 z/VSE Processor Support

These are the System z processors that can be used with z/VSE V5.2

- IBM zEnterprise EC12
- IBM zEnterprise BC12
- IBM zEnterprise 196
- IBM zEnterprise 114
- IBM System z10 Enterprise Class
- IBM System z10 Business Class
- IBM System z9 Enterprise Class
- IBM System z9 Business Class

For more information, see the z/VSE Home Page:

<http://www.ibm.com/systems/z/os/zvse/about/status.html#server>

#### 5.1.3 Processor Details

Please refer to the *z/VSE Planning SC34-2635* manual.

## 5.1.4 Minimum System Configuration

z/VSE V5.2 requires the following minimum system configuration:

- 64MB of processor (real) storage.  
Since the processor storage available is usually much higher, this value is mainly of interest if z/VSE is running under z/VM.
- About 916MB (environment A) or about 1510MB (environment B) or 2814 MB (environment C) of disk device space on two volumes, DOSRES and SYSWK1, as outlined in *z/VSE Planning*, SC34-2635
- A 3590 or 3592 tape drive. If the tape is to be used for installation only, consider using an installation disk instead.
- 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: *z/VSE Planning*, SC34-2635 for storage requirements.

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## 6.0 Special Considerations

### Information on z/VSE Base and Optional Programs

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## 6.1 Hints and Tips for z/VSE BASE Programs

### 6.1.1 z/VSE Fast Service Upgrade (FSU)

#### 6.1.1.1 Before starting the FSU

z/VSE V5.2 supports a maximum of 100 SCSI disks defined during IPL using the IPL DEF SCSI command. The actual number might be less, depending upon your system configuration.

The recommendation is, that you define only SCSI system disks (DOSRES, SYSWK1, PAGEDATASET and lock file) with the IPL DEF SCSI command and all other SCSI disks with the AR/JCL SYSDEF SCSI statement.

Prior to performing an FSU, please adapt your IPL procedure accordingly.

#### 6.1.1.2 FSU

FSU to z/VSE V5.2 is possible from z/VSE 4.3.x and 5.1.x. If you choose FSU, always run the preparation step first and afterwards run the installation step. **Do not run a downlevel check** in case of a release upgrade. For preparation tasks and additional space requirements, refer to the *System Upgrade and Service* and the *Planning* manual.

#### FSU from z/VSE 4.3 and z/VSE 5.1

- An upgrade from z/VSE 4.3.x and z/VSE 5.1.x will migrate the VSE/POWER files to the new VSE/POWER release. After the VSE/POWER files have been migrated, it is not possible to start the old system from DOSRES. Therefore, it is recommended to save the VSE/POWER files at the end of Stage 1 of FSU.

The following message is issued during Stage 2 of FSU:

```
1Q0HD  IF SPOOL FILE MIGRATION TO V9R2 IS INTENDED REPLY 'YES',  
        ELSE 'NO'
```

Please enter 'YES' to have the VSE/POWER files migrated.

If you did not save the VSE/POWER files, you may enter 'NO' and restart from DOSRES in order to perform the POFFLOAD BACKUP.

When entering 'YES', FSU will continue. In case of any errors which require a restart from DOSRES, a VSE/POWER cold start has to be performed and the VSE/POWER files have to be reloaded from backup copy.

In case your system is started usually with security set on, the following message is shown:

1QFFD VSE/POWER WARMSTART AND VSE ACCESS CONTROL NOT ACTIVATED  
(SEC=NO). DO YOU WISH TO CONTINUE? (YES/NO)

Please enter 'YES' to continue. If you enter 'NO', the system will stop.

If you have chosen internet delivery (via ShopzSeries), you can use the virtual tape support of z/VSE to perform an FSU. For more information, see the z/VSE Home Page:

<http://www.ibm.com/systems/z/os/zvse>

and also the *System Upgrade and Service* manual.

There are new applications and selection panels. After the FSU, upgrade the application profiles and selection panels as described in the *System Upgrade and Service* manual.

## 6.1.2 Using a Remote Tape Image to copy the Base tape to a Real Tape

Perform the following steps to copy the tape image. Run the VSE job, as shown below, to copy the base tape image in virtual tape format residing on a workstation to a real tape (at least 3590 - only one cartridge). The job uses a virtual tape at address *cuu1* and performs a DITTO tape-to-tape copy to a real tape at *cuu2*. See the example below for the parameters you must specify. Make sure that the VSE Virtual Tape Server is started on your workstation.

```
* $$ JOB JNM=VTAP2TAP,CLASS=0,DISP=D
// JOB VTAP2TAP - COPY VIRTUAL TAPE TO REAL TAPE
// UPSI 1
// PAUSE - PLEASE MOUNT A TAPE ON <cuu2>
// VTAPE START,UNIT=<cuu1>,LOC=<ip-address>,      X
           FILE=<tape file image>,READ
// ASSGN SYS010,<cuu1>      * INUT MEDIA  VTAPE
// ASSGN SYS011,<cuu2>,08   * OUTPUT MEDIA REAL TAPE,3590
// EXEC DITTO
$$DITTO REW OUTPUT=SYS010
$$DITTO REW OUTPUT=SYS011
$$DITTO TT INPUT=SYS010,OUTPUT=SYS011,NFILES=<39>
/*
// VTAPE STOP,UNIT=<cuu1>
/&
* $$ E0J
```

Before submitting the job, you must enter the following parameters:

<cuu1>	Device address of the input tape (virtual)
<cuu2>	Device address of the output tape (real)
<ip-address>	IP address of the workstation where the VSE Virtual Tape Server is running (in the format 10.3.4.56)
<tape image file>	File name and path of the remote virtual tape image containing the z/VSE base tape. (For example, C:\DownloadDirector\VSEBA520.AWS)

### Notes:

1. NFILES=<39> is only valid for the base tape. In case of the extended base tape, the value is 49.
2. FSU can also be done by using a real tape.

### 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 customers but may be required by vendor products. Vendors who have a need for these interfaces should contact VSE development by sending a note to VSE@de.ibm.com. If the system was upgraded by an FSU release upgrade, and OS/390 library API was installed on previous system, then the new OS/390 library API should be reinstalled from extended base tape (first delete old library using skeleton DELOS390).

### 6.1.4 Device Support Facilities (DSF 1.17)

For details on this release, please see the Program Directory of Device Support Facilities Release 17, GI11-1238, and the DSF User's Guide and Reference Release 17, GC35-0033, available on the VSE Softcopy Collection DVD SK3T-8348.

Both publications are also available from the z/VSE Home Page at

<http://www.ibm.com/systems/z/os/zvse/>

### 6.1.5 HLASM Release 1.6.0

The HLASM Release 1.6.0 allows to use either workfiles or partition storage for assemblies. Starting with z/VSE 4.3 the High Level Assembler will be shipped with the WORKFILE option as default (Phase ASMADOPT). Sample skeleton SKASMOPT in ICCF library 59 shows the default Options used. If you have the options customized with your own values, you might consider adjusting the WORKFILE option accordingly, use the sample skeleton SKASMOPT for customization.

It is recommended to specify the following SIZE parameter which allows to allocate space above 16MB:

```
// EXEC ASMA90,PARM='SIZE(MAX,ABOVE)'
```

or in case of the EDECK exit is used:

```
// EXEC ASMA90,PARM='EXIT(LIBEXIT(EDECKXIT)),SIZE(MAX-200K,ABOVE)'
```

### 6.1.6 HLASM Support with ACF/SSP Version 4, Release 8

With ACF/SSP 4.7 and later, ACF uses the High Level Assembler for NCP and EP compiles. There are a couple of macros with the same name as for z/VSE Central Functions causing assembly errors. It is recommended to change the search chain for source members and put PRD1.MACLIB ahead of PRD2.COMM, the target library for ACF/SSP.

## 6.1.7 CICS TS

**IMPORTANT:** Do not specify SEC=NO in the SIT, SEC=NO means no security checking in CICS TS at all, that is no signon security and also no transaction security. SEC=YES by default will use the basic security manager (BSM) as external security manager.

To activate this change in case of an FSU Release upgrade, the SIT has to be compiled and the CICS startup job has to be changed to reflect the exclude list.

When using the EZA application program interfaces (EZASMI and EZASOKET) with CICS transactions, the EZA "task-related-user-exit" (TRUE) has to be activated before these transactions can be run. This applies also to the IBM-provided CICS Listener (EZAL). For detail on how to activate this TRUE, please refer to chapter "CICS Considerations for the EZA Interfaces" in the book *z/VSE TCP/IP Support, SC34-2640*

## 6.1.8 SVA Setup

Starting with z/VSE V4.1 LE base and C-Runtime routines are loaded into the SVA. For details see *z/VSE Planning SC34-2635*. In order to make sure the related programs can also be used in CICS TS, the default setting of SVA in the SIT was changed from NO to YES.

## 6.1.9 ACF/VTAM V4.2 31-bit I/O Buffer support

With the VTAM 31-bit I/O Buffer support, I/O Buffer and I/O CTC buffers can be allocated in the 31-bit System Getvis area through the VTAM startup option IOBUF31=YES. If initial installation is performed, the VTAM 31-bit I/O Buffer support is enabled. If performing an FSU from a previous release, it is recommended to enable the support to provide 24-bit System GETVIS storage relief.

For Local non-SNA terminals, like terminals used under VM, moving I/O buffers in 31-bit storage requires about 4 copy blocks for each terminal. Depending on the numbers of local non-SNA terminals the default number of copy blocks, which is 1500, might not be sufficient. It can be changed using the IPL SYS BUFSIZE command.

Before changing to IOBUF31=YES, make sure you have enough copy blocks defined, otherwise VTAM startup might fail. The SIR command shows the actual usage of the copy blocks.

## 6.1.10 Telnet Terminal Definition and Autoinstall

The default terminal logmodes used by TCP/IP Telnet do not have the extended data stream flag set. Without this flag set, file transfer using IND\$file transaction will not work. It is recommended to use the logmodes with the query facility instead of the default modes. An example would be:

```
DEFINE TEL, ID=MYTEL, TAR=DBDCCICS, TERM=D1000, CO=20, LOGMODE=SP3272QN, -  
        LOGMODE3=SP3272QN, LOGMODE4=SP3272QN, LOGMODE5=SP3272QN
```

If only extended data stream is wished, without the query facility, following definition for the Telnet daemon is appropriate:

```
DEFINE TEL, ID=MYTEL, TAR=DBDCCICS, TERM=D1000, CO=20, LOGMODE=SP3272EN, -  
        LOGMODE3=SP3273EN, LOGMODE4=NSX32704, LOGMODE5=NSX32705
```

In any case, non SNA logmodes have to be specified. With the logmodes above, the logtab IESINCLM has to be specified in the VTAM application definition:

```
D100001 APPL AUTH=(ACQ), MODETAB=IESINCLM
```

In the above samples, logmodes for terminal models 3, 4 and 5 are also added. In case of the query facility modes, the logmode can also be specified with the MENU definition, in this case only one LOGMODE parameter is required: LOGMODE=SP3272QN.

## 6.1.11 DITTO

Class Y is increased to 5MB in case of an initial installation.

## 6.1.12 IOCP

IOCP requires a partition of up to 130 MB of storage based on the type of IOCDs processing.



## 6.1.13 Language Environment for z/VSE

### 6.1.13.1 LE/VSE Run-time Options:

From z/VSE 3.1 onwards, LE/VSE checks if an invalid (older) run-time option module is loaded. In this case ABEND U4093 RSN42 is issued (for batch), respectively LE/VSE return code 11060 (at CICS initialization time).

In particular, it is recommended to save customized versions of LE/VSE batch and CICS run-time option sources - *prior to performing an FSU* - if stored in LE/VSE product library PRD2.SCEEBASE. To re-establish option changes of this kind, please use current job skeletons CEEWDOPT (batch) or CEEWCOPT (CICS) as supplied in ICCF library 62.

There is no need to perform above actions, if default LE/VSE or CICS run-option modules are used (as supplied with subject z/VSE release).

### 6.1.13.2 LE/VSE Attention Routine Interface and Commands

The attention routine interface is pre-customized and activated in z/VSE. It is recommended to keep this interface enabled since it suits to display LE/VSE run-time option, exit and status reports.

In the above context please ensure system ASI procedure USERBG is current and contains the following VSE POWER statement:

```
// PWR PRELEASE RDR,CEEWARC          LE - AR INTERFACE
```

This particularly applies if there is an equivalent or previously tailored version of this procedure in place. For system supplied USERBG.PROC version, please refer to skeleton SKUSERBG in ICCF library 59.

Finally make sure job CEEWARC is preloaded in VSE POWER RDR queue. In case of doubt or need to activate please refer to skeleton CEEWARC in ICCF library 62.

This AR interface provides commands to manage LE/VSE batch run-time override options and is a prerequisite for the "AS-IS" CEETRACE feature (during related initial installation).

For details and reference on the attention routine interface please see the *LE/VSE debugging and Run-Time Messages, SC33-6681, section "Using Attention Routine Interface Commands"* For CEETRACE information please visit the z/VSE website at <http://www-03.ibm.com/systems/z/os/zvse/downloads/tools.html#ceetrace>

### 6.1.13.3 CICS Run-Unit Work-Area Storage Tracing

CICS transaction CRUT supplied with LE/VSE 1.4.9 can be used to activate, query and de-activate the run-unit work-area tracing function. This function provide information on a LE/VSE CICS program's run-unit storage requirements. This information consists of both application and run-time storage amounts needed to successfully execute the program. This information can be used to help debug or monitor CICS program storage requirements for both above and below the 16MB line.□

For details and reference on the run-unit work-area tracing function please see the LE/VSE debugging and Run-Time Messages, SC33-6681, section "CICS Run-Unit Work-Area Storage Tracing".

---

## 6.2 IPv6/VSE V1.1.0

IPv6/VSE V1.1.0 is a base product of z/VSE V5.2 distributed on the extended base tape. It can be installed optionally and it delivers an IPv6 solution, thus bringing the benefits of IPv6 functionality to z/VSE clients. IPv6/VSE provides an IPv6 TCP/IP stack, IPv6 application programming interfaces (APIs) and IPv6 enabled applications.

The IPv6/VSE product also includes a full-function IPv4 TCP/IP stack, IPv4 application programming interfaces and IPv4 applications. The IPv4 TCP/IP stack does not require the IPv6 TCP/IP stack to be active.

IPv6/VSE requires a unique user access key. IPv6/VSE can be used for 30 days after activation without a key.

You will find the documentation for IPv6/VSE on the z/VSE Home Page at

<http://www.ibm.com/systems/z/os/zvse/>

*IPv6/VSE is a trademark of Barnard Software Inc.*

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## 6.3 IBM WebSphere MQ for z/VSE V3.0.0

IBM WebSphere MQ for z/VSE V3.0.0 is a new member of the WebSphere MQ family of messaging products. It is a replacement for MQSeries for VSE/ESA V2.1.2

The WebSphere MQ for z/VSE System Management Guide GC34-6981 describes:

- the installation procedure to install the product
- the migration procedure to migrate from MQSeries for VSE/ESA V2.1 to WebSphere MQ for z/VSE V3.0

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## 6.4 DL/I VSE V1.12

DL/I VSE V1.12 is an optional product of z/VSE V5.2. It replaces DL/I VSE V1.11 and DL/I DOS/VS V1.10. DL/I VSE V1.12 is the only DL/I VSE version that can be used with z/VSE V5.2. Please refer to DL/I VSE 1.12 Program Directory *G110-0484* for installation instructions.

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## 6.5 DB2 Server for VSE V7.5

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 license, is required to use the product beyond the 90-day trial period. Packaging info: The DB2 V7 components, that are packaged onto and always distributed with the z/VSE extended base tape are DB2 Server for VSE, DB2 server for VSE client edition and Data Propagator Q Capture for VSE. If the media type is cartridge, the DB2 Help Text is distributed on a separate volume. The DB2 optional features are packaged as optional products and distributed on the z/VSE optional product 'stacked tape' if they were ordered.

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## 6.6 Rational COBOL Runtime for z/VSE V7.5.0

IBM Rational COBOL Runtime for z/VSE V7.5 is designed to execute applications developed with the EGL (Enterprise Generation Language) capability of Rational Business Developer.

EGL, IBM's newest business language, frees developers to focus on the business problem rather than on the details of the target execution platforms and associated middleware. EGL is ideal for business-oriented development teams who value ease of learning and high productivity, and need to quickly deliver modern applications and services.

Rational COBOL Runtime for z/VSE provides the libraries to enable EGL code, generated as COBOL, to run on the z/VSE platform.

Using the new extension to Rational Business Developer, COBOL code can be generated and deployed in z/VSE as:

- Traditional 3270 CICS applications
- Traditional batch applications
- Application programs capable of being invoked from an EGL Web or Web 2.0 front-end, or from an EGL service on a distributed application server

Rational COBOL Runtime for z/VSE 7.5 is the replacement for VisualAge Generator Server V1.2

Please refer to the Rational COBOL Runtime for z/VSE V7.5.0 Program Directory - GC10-8803 for installation instructions.

For overview and details how to integrate Rational COBOL Runtime for z/VSE V7.5 in an IT infrastructure please refer to "Multi-Platform Development and VSE" in the "Solutions" section of the z/VSE Home Page: <http://www.ibm.com/systems/z/os/zvse/solutions/egl.html>

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## 6.7 DOS/VS RPG II Support for CICS TS

DOS/VS RPG II support for the CICS Transaction Server for VSE/ESA (CICS TS) allows RPG programs that were implemented for CICS/VSE V2.3 to run with the CICS TS.

For further details see the *z/VSE Release Guide, SC34-2636*

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## 6.8 TCP/IP for VSE/ESA

z/VSE V5.2 includes TCP/IP for VSE/ESA 1.5 Service Pack F (TCP/IP 1.5F) with its most current service level. Please refer to the MSHP History File for the latest APAR/PTF applied.

The IBM TCP/IP for VSE/ESA product is now installed in library PRD2.TCPIPC and no longer in PRD1.BASE. Therefore, batch jobs that use TCP/IP for VSE/ESA must now have PRD2.TCPIPC as the first library in their library search chain.

The documentation for TCP/IP for VSE/ESA 1.5 is available on the z/VSE online collection kit that is available in compressed format for download from the IBM publication center (SK3T-8348)

On the Softcopy Collection Kit you will find 6 books with the original program description from Connectivity Systems Incorporated, the provider of the TCP/IP for VSE/ESA 1.5 program, plus one manual describing the setup of the TCP/IP for VSE/ESA program IBM is providing. The books are as follows:

- z/VSE TCP/IP Support
- TCP/IP for VSE/ESA 1.5 Installation Guide
- TCP/IP for VSE/ESA 1.5 User's Guide
- TCP/IP for VSE/ESA 1.5 Commands Reference
- TCP/IP for VSE/ESA 1.5 Programmer's Guide
- TCP/IP for VSE/ESA 1.5 Messages
- TCP/IP for VSE/ESA 1.5 Optional Features

The documentation on the Softcopy Collection Kits 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 TCP/IP for VSE/ESA 1.5 also on the z/VSE Home Page at

<http://www.ibm.com/systems/z/os/zvse/>

For a detailed description of

- How to install TCP/IP Keys
- The TCP/IP demo mode
- Dependencies when you are using a license from Connectivity Systems.

Please see the manual *z/VSE TCP/IP Support, SC34-2640*

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## 6.9 Installation Hints and Tips

### 6.9.1 Installation of VSE Connector Workstation code

For installation details, please refer to the z/VSE Home Page:

<http://www.ibm.com/systems/z/os/zvse/products/connectors.html>

### 6.9.2 CWS Client Authentication

The CICS Web Support (CWS) supports SSL Client Authentication. The Interactive Interface includes a dialog and various service functions that can be used with CWS to implement client authentication and manage client certificates.

For more information, check the following books:

- *CICS Transaction Server for VSE/ESA V1R1 Enhancements Guide*, GC34-5763.
- *z/VSE e-business Connectors User's Guide*, SC34-2629

and the z/VSE Home Page at

<http://www.ibm.com/systems/z/os/zvse>

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## **6.10 Publication Updates**

### **6.10.1 Accessing z/VSE Performance Documentation**

You can receive up-to-date performance information for z/VSE from the Internet.

From the internet, access these documents via the z/VSE Home Page

<http://www.ibm.com/systems/z/os/zvse/documentation/performance.html>



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## 6.11 Hints and Tips for z/VSE Optional Programs

There is no further information for z/VSE V5.2

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## 7.0 Installation Instructions

### 7.1.1 z/VSE V5.2 Installation Disk

Starting with z/VSE V5.2, initial installation can be done from an installation disk. z/VSE provides utilities to create an installation disk both in an LPAR and z/VM guest environment. The files that are needed to create an installation disk are delivered on DVD-ROM or through internet delivery via Shopz.

The installation disk must be of disk type 3390 (ECKD).

**Note:**

- When using an installation disk, only initial installation is supported. FSU, installation of optional products and the generation feature still requires a physical or virtual tape.
- Initial installation using a physical tape is still supported.
- To create an installation disk in an LPAR environment, 512 MB of processor storage are required. Once the installation disk is created, this value can be changed again.

### 7.1.2 ICKDSF Considerations when placing the VTOC on Large DASDs

For ECKD devices containing more than 64K tracks, there are special considerations for VTOC placement. The highest address that can be referenced as a VTOC track must be 64K-1. Because of this, the entire VTOC must reside within the first 64K tracks, that is, the VTOC must end before cylinder 4369 (X'1111') head 1. This is especially important when using the DOSVTOC(END) parameter. Its usage can result in error message **ICK21002I INVALID VTOC ORIGIN SPECIFICATION**

For further details please see the ICKDSF R17 User's Guide and Reference, GC35-0033.

---

## 8.0 z/VSE V5.2 Installation Logic

- z/VSE V5.2 does no longer offer to install DB2 during initial installation.
- z/VSE V5.2 does no longer offer to migrate hardware configuration and user profiles during initial installation. However, the migration of user profiles can be done at any time after initial installation using skeleton IESBLDUP.



## 9.0 Reader's Comments

### Program Directory for z/VSE V5.2 - z/VSE Central Functions Version 9 Release 2.0

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.

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

	<b>Satisfaction</b>					
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:

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Please provide the following contact information:

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Name and Job Title

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

Please send your comments via email to:

**[zvse@de.ibm.com](mailto:zvse@de.ibm.com)**









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