



# **Program Directory for z/VSE Version 4**

Version 4 Release 1.0

Program Number 5609-ZV4

Document Date: March 2007

GI11-2698-00

**Note!**

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

This program directory, dated March 2007, applies to z/VSE V4.1 Version 4 (z/VSE 4.1.0) Release 1.0 , Program Number 5609-ZV4 for the following:

<b>Feature Numbers</b>	<b>Content</b>	<b>System Name</b>
4000/4001/4002	z/VSE V4 English Base on 3480/3590/3592 Cartridge	z/VSE V4
4003	z/VSE V4 English Base on CD-ROM	z/VSE V4
4010/4011/4012	z/VSE V4 Japanese Base on 3480/3590/3592 Cartridge	z/VSE V4
4013	z/VSE V4 Japanese Base on CD-ROM	z/VSE V4

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## Summary of changes with z/VSE

**The following summarizes the changes with z/VSE 4.1.0:** For an overview of functional enhancements of z/VSE 4.1.0, please see the

- z/VSE Release Guide, SC33-8300  
and the z/VSE Home Page:  
<http://www.ibm.com/servers/eserver/zseries/zvse>

### **Updated z/VSE BASE PROGRAMS**

- 5686-CF8 VSE Central Functions 8.1 - new version, including dropped NLS support for Spanish and German

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

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

- **USA, CANADA and BRAZIL**
- **EUROPE:** Austria, Bulgaria, Belgium, Croatia, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungaria, 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



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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 4.1.0. 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 3 identifies the basic and optional program materials and documentation for z/VSE 4.1.0.
- 3.0, "Program Support" on page 29 describes the IBM support available for z/VSE 4.1.0.
- 4.0, "Program and Service Level Information" on page 31 lists the APARs (program level) and PTFs
- 5.0, "Installation Requirements and Considerations" on page 35 identifies the resources and considerations for installing and using z/VSE 4.1.0.
- 7.0, "Installation Instructions" on page 49 provides detailed installation instructions for z/VSE 4.1.0.
- 8.0, "z/VSE 4.1.0 Install Logic" on page 51 provides the install logic for z/VSE 4.1.0.

Before installing z/VSE 4.1.0, read 3.1, "Preventive Service Planning" on page 29. 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 4.1.0 is 5609-ZV4.

The program announcement material describes the features supported by z/VSE 4.1.0. 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

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.

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## 2.1 For Users who have NOT ordered a I I 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 4 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 z/VSE Base components

z/VSE 4.1.0 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:

- DELCICS to delete CICS TS 1.1.1
- DELDB274 to delete DB2 Server V7.4
- 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 1.5.0
- DELREXX to delete REXX/VSE 8.1.0

**Note:** \*) The VSE C Run-Time support will remain in the z/VSE Base

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 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 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 - 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 1.1

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

The **z/VSE BASE** is delivered either

on **THREE volumes of either 3480 Cartridges (compressed) or 3590 or 3592 Cartridges**

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

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

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

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

Figure 1 on page 7 describes the **MEDIA and VOLUMES** of the z/VSE BASE. These volumes contain all the programs and data needed for installation. z/VSE 4.1.0 is installed using the Maintain System History Program (MSHP).

Figure 2 on page 8 describes the **BASE PRODUCTS and COMPONENTS** of the z/VSE BASE - on Cartridge

Figure 3 on page 10 describes the **FILES** of the z/VSE Base - on Cartridge.

Figure 4 on page 12 describes the z/VSE 4.1.0 EXTENDED BASE Products / Components - on cartridge

Figure 5 on page 13 describes **z/VSE 4.1.0 on CD-ROM** and the files provided through electronic delivery.

For download and installing the files from CD-ROM or provided as e-delivery, please see the VSE Install Instructions on the z/VSE Home page:

<http://www.ibm.com/servers/eserver/zseries/zvse>



## 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
3480 Cartridge compressed	4000 (EN) 4010 (KA)	1	z/VSE4.1.0-xx
		2	z/VSE4.1.0XBASE
3590 Cartridge	4001 (EN) 4011 (KA)	1	z/VSE4.1.0-xx
		2	z/VSE4.1.0XBASE
3592 Cartridge	4002 (EN) 4012 (KA)	1	z/VSE4.1.0-xx
		2	z/VSE4.1.0XBASE
CD-ROM	4003 (EN) 4013(KA)	1	z/VSE4.1.0-xx

### Notes:

1. **xx** defines the LANGUAGE of the z/VSE Base, in which the system was ordered:  
xx = EN English  
xx = KA Kanji (Japanese)
2. The **XBASE** (Extended Base) contains further z/VSE Base Programs. **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 4.1.0 Base

Figure 2 (Page 1 of 2). z/VSE 4.1.0 - BASE Products

Product Description	Program Number	Component-Identifier	CLC
z/VSE 4.1.0 (Package)	5609-ZV4	n/a	n/a
VSE Central Functions 8.1.0	5686-CF8	n/a	n/a
VSE/SP UNIQUE CODE	5686-CF8	5686CF801	91C
VSE/UNIQUE CODE ENGLISH	5686-CF8	5686CF802	91D
KANJI	5686-CF8	5686CF802	91E
VSE/POWER	5686-CF8	5686CF803	91C
VSE/POWER Macros	5686-CF8	5686CF803	91G
VSE/VSAM	5686-CF8	5686CF805	91C
VSE/VSAM Macros	5686-CF8	5686CF805	91G
VSE/AF SVR & BAM & GDS	5686-CF8	5686CF806	91C
VSE/AF Macros	5686-CF8	5686CF806	91G
VSE/AF Generation Feature	5686-CF8	5686CF806	91J
VSE/AF MSHP	5686-CF8	5686CF807	91C
VSE/AF Info/Analysis	5686-CF8	5686CF808	91C
VSE/AF IOCP	5686-CF8	5686CF809	91C
VSE/ICCF	5686-CF8	5686CF810	91C
VSE/FastCopy	5686-CF8	5686CF811	91C
REXX/VSE Library	5686-CF8	5686CF812	91I
REXX/VSE Kernel & Interface	5686-CF8	5686CF816	91I
VSE/OLTEP	5686-CF8	5686CF813	91I
OSA SF	5686-CF8	5686CF830	8G8
VSE Connector Server	5686-CF8	5686CF835	91N
LE Base ENU + JPN	5686-CF8	5686CF832	91K
LE C ENU + JPN	5686-CF8	5686CF833	91L
LE COBOL + JPN + CICS	5686-CF8	5686CF836	91W
LE PL/I + JPN	5686-CF8	5686CF837	91Z
CICS Transaction Server 1.1.1	5648-054	564805400	B0P

Figure 2 (Page 2 of 2). z/VSE 4.1.0 - BASE Products

Product Description	Program Number	Component-Identifier	CLC
TCP/IP 1.5 for VSE 1) Application Pak NFS Feature GPS Feature	5686-A04	5686A0400	9TP
ACF/VTAM 4.2.0 2) Client/Server MultiDomain InterEnterprise	5686-065	568606501	FE6
High Level Assembler 1.5.0	5696-234	569623400	589
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 not be done prior to the prepare step, but **after the prepare**.

Figure 3 describes the files of the z/VSE Base (labelled: z/VSE4.1.0-xx)

Figure 3 (Page 1 of 2). File Content: z/VSE 4.1 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 4.1 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	Null File
33	End of Backup Record
34	Online-Message-File
35	Null File
36	End of Tape Record

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

Figure 4 describes the z/VSE 4.1.0 EXTENDED BASE Products / Components.

Figure 4. z/VSE 4.1.0 - 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-CF8	5686CF814	91V
LE DBCS Locales	5686-CF8	5686CF834	91M
DB2 V7.4 Server f.VSE 2)	5697-F42	5697F4201	4NN
DB2 V7.4 DPROP Q Capture	5697-F42	5697F4201	4NO
VSE Connector WS code	5686-CF8	5686CF838	91P

### Notes:

1. This feature is only needed if CICS/VSE 2.3 is to be re-generated
2. For an improved installability of DB2 Server for VSE Version 7.4 (5697-F42), this product is partially packaged and delivered as a key-enabled component of the z/VSE 4.1.0 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 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 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.
3. 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 CD-ROM

The following files are available on the CD-ROM in the sequence shown below:

Figure 5. z/VSE 4.1.0 - z/VSE 4.1.0 on CD-ROM

File #	File Description	File Name
1	Readme File	ReadM410.txt
2	z/VSE BASE	VSE41xyy.AWS
3	z/VSE Extended Base	VSE41xB.AWS
4	DB2 Help Text	DB2HELP.AWS

where

x is the current modification level  
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 CD-ROM in a file named: VSE410OP.AWS.

## 2.2.6 z/VSE downloadable from the Internet

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

<b>Base Tape</b>	VSE410yy.aws
<b>Extended Base Tape</b>	VSE410XB.aws
<b>DB2 Help Tape</b>	DB2HELP.aws
<b>Opt.Product Tape</b>	VSE410OP.aws

Note that after downloading the respective files from the Internet, you will have the z/VSE 4.1 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 CD-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 VSE410OP.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/servers/eserver/zseries/zvse>

or in the manuals z/VSE 4.1 Installation SC33-8302 or z/VSE 4.1 System Upgrade and Service, SC33-8303, both available from the IBM Publications Center at

<http://www.elink.ibm.link.ibm.com/publications/servlet/pbi.wss>



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

There are no optional machine-readable materials for z/VSE 4.1.0.

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## 2.4 z/VSE BASE - Program Publications

The following sections lists the documentation material, which is distributed with the z/VSE 4.1.0 base and optional products.

Except Program Directories, Memo to Licensees and various Programming License Specifications, 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:

- VSE Softcopy Collection on CD-ROM, SK2T-0060 (delivered with z/VSE)
- VSE Softcopy Collection on DVD, SK3T-8348 (delivered with z/VSE)
- IBM Publications Center, which has this internet URL:

<http://www.elink.ibm.link.ibm.com/publications/servlet/pbi.wss>

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

Please note that the Licensed Program Specifications (LPS) for the following VSE products are also available and shipped in softcopy version (PDF) only. They can be found on the Softcopy Collection Kit.

z/VSE  
TCP/IP for VSE/ESA  
DL/I 1.11.0  
DOS/VS RPG II  
OS/VS RPG II  
VSE/ACLR

Those hardcopy publications, which have been added or updated with z/VSE 4.1.0 are either marked with **(N)** for NEW publications, or **(U)** for updated documentation. Your shipment contains ONE copy of all those publications, which were updated since your last order.

## 2.4.1 z/VSE Base - Basic Publications

Figure 6. z/VSE Basic Publications

Publication Title	Form Number
z/VSE Release Guide	SC33-8300 N
VSE Softcopy Collection Kit on CD-ROM	SK2T-0060 U
VSE Softcopy Collection Kit on DVD	SK3T-8348 U
DB2 Server CD Doc Kit	SK3T-5257
DB2 Server Overview	GC09-2995
QMF Window Try/Buy Kit	LCD4-3781
Program Directory DB2 Server 7.4 VSE	GI10-4999
Program Directory DProp Q Capture VSE	GI10-5001
Memo to Licensees DB2 Server 7.4 VSE	GI10-5008
Memo to Licensees DProp Q Capture VSE	GI10-5010

Figure 7 identifies the basic program publications as hardcopies for further z/VSE 4.1.0 base products.

Figure 7. Publications of z/VSE 4.1 Base Programs

Publication Title	Form Number
CICS/TS Program Directory	GI10-2508
CICS/TS Licensed Programming Specs	GC34-5464
DITTO/ESA Licensed Programming Specs	GH19-8223
DITTO/ESA Program Directory	GI10-0426
ACF/VTAM Program Directory	GI10-8112
ACF/VTAM Licensed Programming Specs	GC31-6490

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## 2.5 z/VSE OPTIONAL PROGRAMS

Optional Programs are independent products, that can be ordered additionally and together with z/VSE and which run under the operating system z/VSE.

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

If z/VSE 4.1.0 was ordered to be delivered through the Internet (e-delivery), Optional Programs have to be downloaded as described in the VSE Install Instructions on the z/VSE Home Page:

<http://www.ibm.com/servers/eserver/zseries/zvse>

### 2.5.1 Optional Programs - available with z/VSE V4

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-B02	VA Generator Server	1.2.0	NLS available
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
5686-A06	MQSeries for VSE/ESA	2.1.2	
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	1.5.0	WS feature
5697-F42	DB2 Server for VSE Control Center Data Restore	7.4.0	NLV JPN, DEU, FRA
	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 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 z/VSE 4.1.0. They show the product identifiers as you will find them on the Optional Program tape itself.

BACKUPID	COMPID	CLC	PROPID	
-----	-----	---	-----	
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.R..7.2.0	564806104	2NT	F422NT	Simpl.Chinese
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	300PeI Fonts
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...2.1.1	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	18O	06818O	
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)
MQSERIES...2.1.2	5686A0600	2ZZ	A062ZZ	
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.1.5.0	569623401	5IM	2345IM	
DB2/NLV....7.4.0	5697F4201	4NN	F424NN	
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.A.0	5746XX100	DB5	XX1DB5	
DL/I-BASE..1.B.0	5746XX100	1I0	XX11I0	
EP_R14....1.14.0	5748EP115	4E1	EP14E1	

**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 CD-ROM or via e-delivery.
2. 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.

### 2.5.3 Optional Programs - Program Tapes/Program Cartridges

All ordered Optional Programs will be delivered stacked on cartridge or in a file available on the CD-ROM or downloaded from the Internet. 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 z/VSE 4.1.0 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 z/VSE package.

The external label of the volume(s) is: **z/VSE 4.1.0 OPT x OF y**

### 2.5.4 Optional Programs - File Content

Figure 8 describes the file content of the Optional Program Tape

*Figure 8. Program Tape - 'z/VSE 4.1.0 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 z/VSE 4.1.0 Optional Programs, that are available as hardcopies. The VSE Softcopy Collection Kits, which are delivered with every z/VSE order, provide further documentation to all VSE Optional Programs.

Figure 9. ACF/NCP 5648-063 7.8.1

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<b>Publication Title</b>	<b>Order/Form Number</b>
NCP Licensed Programming Specs	GC31-6226
Program Directory	GI10-6623
Memo to Licensees	GI10-6628

Figure 10. DITTO/ESA f.VM 5648-099 1.3.0

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<b>Publication Title</b>	<b>Order/Form Number</b>
Program Directory	GI10-0438

Figure 11. VisualAge Generator Server 5648-B02 1.2.0

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

Figure 12. AFP Font Collection 5648-B33 2.1.1

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<b>Publication Title</b>	<b>Order/Form Number</b>
AFP Font Collection LPS	G544-5634
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 13. GDDM-IVU 5668-723 1.1.3

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<b>Publication Title</b>	<b>Order/Form Number</b>
Program Directory	GI11-1586

Figure 14. GDDM-IMD 5668-801 2.1.3

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<b>Publication Title</b>	<b>Order/Form Number</b>
Program Directory	GI11-1630



Figure 15. GDDM-PGF 5668-812 2.1.3

---

<b>Publication Title</b>	<b>Order/Form Number</b>
Program Directory	GI10-9657

Figure 16. CICSVR/VSE 5686-011 1.2.0

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<b>Publication Title</b>	<b>Order/Form Number</b>
Licensed Programming Specifications	GC26-7323
Program Directory	GI10-4528
Memo to Licensees	GI10-4534

Figure 17. BASIC Documentation of PSF/VSE 5686-040 2.2.1

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<b>Publication Title</b>	<b>Order/Form Number</b>
Licensed Programming Specifications	G544-3667
Program Directory for 2.2.1	GI10-0203
Program Directory for PSF Compat Fonts	GI10-0254

Figure 18. BASIC Documentation of GDDM/VSE 5686-057 3.2.0

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<b>Publication Title</b>	<b>Order/Form Number</b>
Series Licensed Programming Specs	GC33-0876
Program Directory	GI11-1528

Figure 19. BASIC Documentation of ACF/SSP for VSE 5686-064 4.8.1

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<b>Publication Title</b>	<b>Order/Form Number</b>
Licensed Programming Specifications	GC31-6230
Program Directory	GI10-6620
Memo to Licensees	GI10-6627

Figure 20. BASIC Documentation of IBM COBOL for VSE 5686-068 1.1.0

<b>Publication Title</b>	<b>Order/Form Number</b>
COBOL/VSE Licensed Programming Specs	GC26-8069
Memo to Licensees Full Function	GI10-9890
Memo to Licensees Alternate Function	GI11-1706
Memo to current Lics of the Debugger	GI10-8484
Memo to new Lics of the Debugger	GI10-8476

Figure 21. BASIC Documentation of IBM PL/I for VSE 5686-069 1.1.0

<b>Publication Title</b>	<b>Order/Form Number</b>
PL/I VSE Licensed Programming Specs	GC26-8055
Memo to Licensees Full Function	GI11-1707
Memo to Licensees Alternate Function	GI11-1708

Figure 22. BASIC Documentation of IBM C for VSE 5686-A01 1.1.0

<b>Publication Title</b>	<b>Order/Form Number</b>
C/VSE LPS	GC09-2421

Figure 23. BASIC Documentation of MQSeries for VSE 5686-A06 2.1.2

<b>Publication Title</b>	<b>Order/Form Number</b>
Licensed Programming Specifications	GC34-5365
Memo to new Licensees	GI10-2512

Figure 24. BASIC Documentation of CCCA for VSE 5686-A07 2.1.0

<b>Publication Title</b>	<b>Order/Form Number</b>
Licensed Programming Specifications	GC26-9408
Program Directory	GI10-5079

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

<b>Publication Title</b>	<b>Order/Form Number</b>
Licensed Programming Specifications	GC30-9605
X.25 NCP PSI V3 Host Programming	SC30-3502
Program Directory	GI10-6558

Figure 26. BASIC Documentation of PPFA/370 5688-190 1.1.0.

<b>Publication Title</b>	<b>Order/Form Number</b>
Licensed Programming Specifications	G544-3696
Quick Reference	G544-3701
Diagnosis Guide + Reference	LH40-0207
Program Directory	GI10-9679

Figure 27. BASIC Documentation of OGL/370 5688-191 1.1.0

<b>Publication Title</b>	<b>Order/Form Number</b>
Licensed Programming Specifications	G544-3697
OGL/370 Quick Reference	SX35-5032
Program Directory	n/a

Figure 28. BASIC Documentation of DB2 Server for VSE 5697-F42 7.4.0

<b>Publication Title</b>	<b>Order/Form Number</b>
Licensed Programming Specifications	GC09-2982
DB2 Server Diagnosis GD + Reference	LC09-2907
DB2 Server Universal Developers Edition	LK3T-5242
Control Center Program Directory	GI10-5003
Control Center Memo to Users	GI10-5012
Data Restore Program Directory	GI10-5005
Data Restore Memo to Users	GI10-5014
QMF for VSE Program Directory	GI10-8330
QMF for VSE NLV Program Directory	GI10-8332

Figure 29. BASIC Documentation of EP 5735-XXB 1.14.0

<b>Publication Title</b>	<b>Order/Form Number</b>
Licensed Programming Specifications	GC31-6201
Program Directory	GI10-0996

Figure 30. BASIC Documentation of RPG II 5746-RG1 1.3.0

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<b>Publication Title</b>	<b>Order/Form Number</b>
Language Reference	SC33-6031
Installation Reference	SC33-6032
Messages	SC33-6033
Auto Report	SC33-6034
User's Guide	SC33-6074
Program Directory	GI10-9770

Figure 31. BASIC Documentation of DFSORT/VSE 5746-SM3 3.4.0

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<b>Publication Title</b>	<b>Order/Form Number</b>
Licensed Programming Specifications	GC26-7038
Reference Summary	SX26-6008
Program Directory	GI10-4513

Figure 32. BASIC Documentation of VSE/ACLR 5746-XE7 1.2.1

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<b>Publication Title</b>	<b>Order/Form Number</b>
Program Directory	GI11-0645

Figure 33. BASIC Documentation of SDF II VSE 5746-XXT 1.6.0

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<b>Publication Title</b>	<b>Order/Form Number</b>
SDF II Introducing Release 6	GH12-6314
SDF II Licensed Specification	GH12-6318
Program Directory	GI10-0424

Figure 34. BASIC Documentation of DL/I VSE 5746-XX1 1.10.0 and 1.11.0

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<b>Publication Title</b>	<b>Order/Form Number</b>
General Information Manual	GH20-1246
Guide for New Users	SH24-5001
Library Guide + Master Index	GH24-5008
Diagnostic Guide	SH24-5002
Low Lev Code Cont. Check	SH20-9046
Ref Summary: CALL Prog. Interface	SX24-5103
Ref Summary: HLPI Interface	SX24-5120
Program Directory	GI10-0484

## **2.5.6 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.



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## 3.0 Program Support

This section describes the IBM support available for z/VSE 4.1.0.

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### 3.1 Preventive Service Planning

Before installing z/VSE 4.1.0, 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 value:

**zVSE4rm**

where **rm** is the current Release/Modification level.

With this upgrade value you will see lists of subset values, one sorted by z/VSE BASE programs, and one sorted per 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 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 z/VSE 4.1.0 only from IBM Software Distribution, then before installing z/VSE 4.1.0, 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.

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### 3.2 Recommend 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 4.1.0 is published via a special RSL PSP bucket RSLVSE410 and on the Internet via the VSE home page

<http://www.ibm.com/servers/eserver/zseries/zvse/support/preventive.html#rs1>

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

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### **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 8 for component IDs (COMPID) for z/VSE 4.1.0



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## 4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of z/VSE V4.1. 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 APAR fixes against the previous releases/versions of z/VSE 4.1.0 have been incorporated into z/VSE 4.1.0. These APARs are not documented in the MSHP history file.

#### COMPONENT 5686CF801, ..02 (UNIQUE CODE)

PK01123	PK01182	PK01189	PK01191	PK02383	PK03488
PK04698	PK06656	PK08467	PK08488	PK10699	PK10701
PK11714	PK12555	PK12885	PK13189	PK13556	PK15356
PK15771	PK17212	PK17213	PK17362	PK20032	PK21715
PK24287	PK26887	PK23632	PK28294	PK32566	PK33776
PK34613	PK35097	PK35149	PK35754		

#### COMPONENT 5686CF803 (POWER)

DY46246	DY46248	DY46254	DY46322	DY46323	DY46324
DY46331	DY46361	DY46367	DY46381	DY46390	DY46395
DY46399	DY46406	DY46423	DY46427	DY46443	DY46462
DY46472	DY46500	DY46519	DY46521	DY46526	DY46528
DY46551	DY46595	DY46608	DY46609		

#### COMPONENTs 5686CF804, ..06, ..07, ..08, ..09 (AF)

DY46217	DY46229	DY46230	DY46233	DY46272	DY46297
DY46298	DY46305	DY46312	DY46319	DY46325	DY46329
DY46335	DY46337	DY46338	DY46339	DY46344	DY46346
DY46347	DY46349	DY46369	DY46370	DY46372	DY46373
DY46374	DY46377	DY46378	DY46384	DY46387	DY46391
DY46393	DY46396	DY46405	DY46407	DY46408	DY46409
DY46413	DY46425	DY46428	DY46432	DY46455	DY46460
DY46476	DY46477	DY46478	DY46493	DY46494	DY46496
DY46502	DY46504	DY46507	DY46510	DY46515	DY46525
DY46529	DY46530	DY46532	DY46533	DY46535	DY46541
DY46543	DY46544	DY46547	DY46548	DY46549	DY46554
DY46561	DY46562	DY46563	DY46564	DY46565	DY46568
DY46577	DY46578	DY46579	DY46580	DY46583	DY46584
DY46585	DY46587	DY46588	DY46592	DY46593	DY46594

DY46601 DY46610 DY46644 DY46655 DY46611 DY46612  
DY46613

**COMPONENT 5686CF805 (VSAM)**

DY46321 DY46371 DY46392 DY46481 DY46488 DY46466  
DY46469 DY46558 DY46467 DY46479 DY46620 DY46636  
DY46617

**COMPONENT 5686CF830 (OSA/SF)**

PK00975 PK11707 PK25170 PK34205

**COMPONENT 5686CF810 (ICCF)**

PK03547

**COMPONENTs 5686CF812, 5686CF816 (REXX)**

PK09524 PK09970 PK12397

**LE/VSE 5686CF832 (LE Base)**

PK06758 PK06826 PK06891 PK07256 PK07604 PK12695  
PK16575 PK19358 PK25616 PK26953 PK29054 PK30428  
PQ07236\* PQ07402\* PQ09455\* PQ10174\* PQ35805\* PQ72266\*  
\*) indicates the APAR has been routed from Language Environment for z/OS.

**LE/VSE 5686CF833 (LE C)**

PK05874 PK10411 PK18169 PK19360 PK22739  
PQ07236\* PQ97634\*  
\*) indicates the APAR has been routed from Language Environment for z/OS.

**VSE Connectors 5686CF835**

PK03240 PK18932 PK25337 PK27028 PK30197 PK32204

**LE/VSE 5686CF836 (LE COBOL)**

PK08993 PK09837 PK22905\* PN88745\* PQ12192\*  
\*) indicates the APAR has been routed from Language Environment for z/OS.

**TCP/IP 1.5 5686A0400**

PK24956 PK87041

### **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
PQ33640	PQ33689	PQ34164	PQ34772	PQ35402	PQ35598
PQ36567					

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

---

## **4.2 Service Level Information**

There is no information for z/VSE 4.1.0 at this time.

---

## **4.3 Cumulative Service Tape**

There is no cumulative service tape for z/VSE 4.1.0.



---

## 5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating z/VSE 4.1.0.

---

### 5.1 System Requirements

#### 5.1.1 Operating System Requirements

z/VSE 4.1.0 is an operating system itself and does not require another operating system to run under. Anyway, z/VSE 4.1.0 can run as a guest system under the following z/VM systems:

z/VM Version 5.2 (or later)

Note that z/VSE 4.1.0 runs in z/Architecture mode only.

Additional information is available in

- *z/VM Version 5, Release 2, Running Guest Operating Systems*, SC24-6115
- *z/VSE Installation*, SC33-8302.

#### 5.1.2 z/VSE Processor Support

These are the System z processors that can be used with z/VSE 4.1.0

IBM System z9 Enterprise Class  
IBM System z9 Business Class  
IBM eServer zSeries 990  
IBM eServer zSeries 890  
IBM eServer zSeries 900  
IBM eServer zSeries 800

#### 5.1.3 Processor Details

Please refer to the *z/VSE Planning SC33-8301* manual.

#### 5.1.4 Minimum System Configuration

z/VSE 4.1.0 requires the following minimum system configuration:

- 32MB 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 1030MB (environment B) or 2814 MB (environment C) of disk device space on two volumes, DOSRES and SYSWK1, as outlined in *z/VSE Planning*, SC33-8301.
- A cartridge unit or CD-ROM drive 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: *z/VSE Planning*, SC33-8301 for storage requirements.

---

## 6.0 Special Considerations

Information on z/VSE base and optional programs

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

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

There will be no Fast Service Upgrade provided from releases prior to VSE/ESA 2.7.0. In any case, first run the prepare step, afterwards you may run the FSU installation. **Do not run a downlevel check** in any 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 3.1.x or VSE/ESA 2.7.x

- In order to run the FSU Preparation, for an FSU from VSE/ESA 2.7.x, generate the job stream and modify it before submitting it as follows:

```
* -----
* STEP 02:  RESTORE FSU PROGRAM SRV$FSU INTO IJSYSRS.SYSLIB
* -----
*      1)  MOUNT VSE/ESA2.X.X-YY ON TAPE-DRIVE 182
*          AND REPLY "(END/ENTER)" TO CONTINUE
* -----
// PAUSE
// EXEC DTRSETP,SIZE=AUTO,PARM='SRV$SYS;PRD2.CONFIG;SET XLAST=P02'
/*
// OPTION IGNLOCK
// ASSGN SYS005,182
// MTC REW,SYS005
// EXEC LIBR,PARM='MSHP'
RESTORE IJSYSR1.SYSLIB.SRV$FSU.PHASE : IJSYSRS.SYSLIB      -
          ID ='VSEESA.RES..VER2'      -
          LIST = NO                    -
          REPLACE = YES                -
          TAPE = SYS005
/*
```

Delete the ID parameter in the restore statement so it looks like the following sample job displayed on the next page.

```

* -----
* STEP 02:  RESTORE FSU PROGRAM SRV$FSU INTO IJSYSRS.SYSLIB
* -----
*      1)  MOUNT VSE/ESA2.X.X-YY ON TAPE-DRIVE 182
*          AND REPLY "(END/ENTER)" TO CONTINUE
* -----
// PAUSE
// EXEC DTRSETP,SIZE=AUTO,PARM='SRV$SYS;PRD2.CONFIG;SET XLAST=P02'
/*
// OPTION IGNLOCK
// ASSGN SYS005,182
// MTC REW,SYS005
// EXEC LIBR,PARM='MSHP'
RESTORE IJSYSR1.SYSLIB.SRV$FSU.PHASE : IJSYSRS.SYSLIB      -
          LIST = NO          -
          REPLACE = YES      -
          TAPE = SYS005
/*

```

- An upgrade from VSE/ESA 2.7 or z/VSE V3.1.x will not require a VSE/POWER cold start, however, the POWER files will be migrated to the new format. After migrating, it is not possible to start the old system from DOSRES. It is recommended to save the POWER files at the end of Stage 1 of the FSU.

The following message is issued during Stage 2 of FSU:

```

IQQHD  IF SPOOL FILE MIGRATION TO V8R1 IS INTENDED REPLY 'YES',
      ELSE 'NO'

```

Please enter 'YES' to have the queue files converted.

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

```

IQQFD  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 do not have saved the POWER files, you may enter 'NO' and restart from DOSRES in order to perform the POFFLOAD BACKUP. After converting the files, FSU will continue. In case of any errors which require a restart from DOSRES, this is only possible performing a cold start and reloading the POWER files from a backup.

For internet delivery (download from ShopzSeries), FSU is possible using virtual tape support. In this case, the electronic medium can be used directly. For more information, see the VSE Install Instructions on the z/VSE Home Page:

<http://www.ibm.com/servers/eserver/zseries/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.



After FSU is finished and in case you are still using the new DTSECTXN based security concept, you should update the CICS TS transaction security settings using the merge key (PF6) on the 'Dialog Definition Transaction Security' (fastpath 285, do not migrate). For additional post-FSU tasks refer to the *System Upgrade and Service* manual. If you are performing the FSU on a z/VSE 3.1.1 or later system with the new security concept, no additional steps are required.

Actions to be done after FSU to establish the new security concept:

Please refer to the *System Upgrade and Service manual* section "Post stage 2 processing". After you have merged the security definitions (fastpath 285), you may consider migrating to the new security concept. These details can be found in the *Administration* manual.

## 6.1.2 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, OS/390 library API should be reinstalled (first delete old library using skeleton DELOS390).

## 6.1.3 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 Kits: SK2T-0060 (CD-ROM) and SK3T-8348 (DVD).

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

<http://www.ibm.com/servers/eserver/zseries/zvse/>

## 6.1.4 HLASM Release 1.5.0

The HLASM Release 1.5.0 allows to use either workfiles or partition storage for assemblies. In z/VSE 4.1.0 the High Level Assembler will be shipped with the WORKFILE option as default (Phase ASMADOPT). If you have the options customized with your own values, you might consider adjusting the WORKFILE option accordingly.

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)'
```

## 6.1.5 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 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.

## 6.1.6 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.

CICS/TS SIT setting SVA=NO changed to SVA=YES. To allow CICS coexistence, exclude list IESVAEXC is used.

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 (z/VSE 4.1 and above) in book *TCP/IP for VSE/ESA - IBM Program Setup and Supplementary Information, SC33-6601*

## 6.1.7 SVA Setup

With z/VSE 4.1.0 LE Base and C-Runtime routines are loaded into the SVA. For details see *z/VSE Planning SC33-8301*. In order to make sure the related programs can also be used in CICS/TS, default setting of SVA in the SIT was changed from NO to YES.

## 6.1.8 ACF/VTAM V4.2 31-bit I/O Buffer support in z/VSE V4.1

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 relief 24-bit System GETVIS storage.

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.

## 6.1.9 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.

## 6.1.10 DITTO

for customers upgrading from VSE/ESA 2.7.x only

DITTO APAR PQ70313 increased the size of DITMOD PHASE by about 80K. With the changed phase, the online version of DITTO will not work, since interactive partition/class 'Y' is too small. Either increase the size of class 'Y' by 1 MB or change the profile to run DITTO in a lower partition by default. You may also load DITMOD into the SVA to avoid the problem.

Class Y is increased to 3MB in case of an initial installation. The FSU classtable needs to be updated as described.

## 6.1.11 Language Environment for z/VSE

**6.1.11.1 LE/VSE Run-time options::** From z/VSE 3.1 onward, 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 installation time).

In particular, it is recommended to save customized vsersions 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 z/VSE 4.1.0).

**6.1.11.2 FETCH and PL/I:** Programmers that implement the new PL/1 fetching of other PL/1 programs from a fetched phase, must call these fetched phase(s) explicitly by name. The use of entry points or pointers is not supported.

## **6.1.12 Variable SYSPWJCLS for REXX/VSE external function SYSVAR**

The new variable SYSPWJCLS stores the Jobclass of the VSE/POWER job, calling the REXX programm. This variable may only be used, if the VSE/POWER partition control block is available.

## **6.1.13 MQSeries upgrade**

If reinstalling MQSeries after an FSU, it is recommended to:

- Customize the MQJSETUP.Z sample JCL and submit the job. Then run CICS transaction MQSU before starting MQSeries VSE.

or

- Use the new UPDATE function of MQPUTIL before starting MQSeries. Refer to MQDOCU.Z member for a description of the UPDATE function.

---

## 6.2 TCP/IP for VSE/ESA

With z/VSE 4.1.0 APAR PQ87041 (aka TCPIP15E) was installed as the current service level for TCP/IP for VSE/ESA.

This APAR includes the base TCP/IP 1.5 E Service Pack and the fixes ZAPs ZP15E201 and ZP15E202.

With TCP/IP 1.5E, the TCP/IP Security Processing has been enhanced. It is recommended to read the Problem Summary within APAR PQ87041, especially the Security section.

For users of the IBM provided security exit BSSTISX there is one important point to notice:

New security request types are now passed to BSSTISX, like

- X'1A' SXTYCWDL 26 - Change directory from root
- X'1D' SXTYFCMD 29 - Send commands to FTP daemon

These new security request types pertain to FTP processing. To let FTP processing with z/VSE 4.1 and TCP/IP 1.5E behave the same way as with previous VSE releases and TCP/IP 1.5D, the z/VSE 4.1 IBM-provided BSSTISX exception list BSSTIXE has been extended with the above two request types. With this change, these request types are now accepted in BSSTISX and subject to userid and password checking. This is the same as with pre z/VSE 4.1 releases and TCP/IP 1.5D. Customer who do not want this behaviour can use skeleton SKEXCLST in ICCF list 59 to modify BSSTIXE exception list.

Customers who have migrated from previous releases to z/VSE 4.1 and continue to use their old BSSTIXE exception list, will now fail with their FTP processing. These customers have to add above two request types to the BSSTIXE exception list. This can also be done using member SKEXCLST in ICCF lib 59.

The documentation for TCP/IP 1.5 for VSE/ESA is available on the z/VSE 4.1.0 Softcopy Collection Kits SK2T-0060 (CD-ROM) and SK3T-8348 (DVD).

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 program IBM is providing. The books are as follows:

- TCP/IP for VSE/ESA - IBM Program Setup and Supplementary Information
- 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 Operator Commands
- TCP/IP for VSE/ESA 1.5 Programmer's Reference
- TCP/IP for VSE/ESA 1.5 Messages
- TCP/IP for VSE/ESA 1.5 Optional Products

The manual 'TCP/IP for VSE/ESA - IBM Program Setup and Supplementary Information' (SC33-6601) replaces the former 'TCP/IP for VSE User's Guide'. All the available documentation for the TCP/IP for VSE/ESA 1.5 program is described in that manual in Chapter 1.

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 this new release of TCP/IP for VSE/ESA also on the z/VSE Home Page at

<http://www.ibm.com/servers/eserver/zseries/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 *TCP/IP for VSE/ESA IBM Program Setup and Supplementary Information* SC33-6601.

---

## 6.3 Installation Hints and Tips

### 6.3.1 Installation of VSE Connector Workstation code

For installation details, please refer to the following Internet page:

<http://www.ibm.com/servers/eserver/zseries/zvse/products/connectors.html>

### 6.3.2 Installation of the Java-Based TCP/IP for VSE/ESA Configuration Dialog

For installation details, please refer to the following internet page:

<http://www.ibm.com/servers/eserver/zseries/zvse/products/connectors.html>

### 6.3.3 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*, SC33-8231

and the VSE Internet page at

<http://www.ibm.com/servers/eserver/zseries/zvse/>

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## 6.4 Publication Updates

### 6.4.1 Accessing VSE Performance Documentation

You can receive up-to-date performance information for VSE from the Internet or from the VSE Softcopy Collection Kits : SK2T-0060 (CD-ROM), or SK3T-8348 (DVD).

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

<http://www.ibm.com/servers/eserver/zseries/zvse/documentation/performance.html>

On the CD-ROM Collection, all the performance documents are on disc 3.

The following files or documents are available, all of them are in PDF format (ADOBE Acrobat Reader):

FILE	DOCUMENT TITLE
VE13PERF.PDF	IBM VSE/ESA 1.3/1.4 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
VETCPPER.PDF	VSE/ESA TCP/IP Performance Considerations
VESORTP.PDF	IBM DFSORT/VSE Performance Considerations
VECICSTS.PDF	IBM VSE/ESA CICS Transaction Server Performance Considerations
VE25PERF.PDF	IBM VSE/ESA 2.5 Performance Considerations
VE26PE00.PDF	IBM VSE/ESA 2.6 and 2.7 Performance Considerations
VETP1400.PDF	IBM VSE/ESA TCP/IP 1.4 and 1.5 Performance Considerations
VE31PE01.PDF	IBM z/VSE 3.1 and SCSI Performance Considerations



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## 6.5 Tips and Hints for VSE/ESA Optional Programs

There is no further information for z/VSE 4.1.0



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## 7.0 Installation Instructions

### 7.1.1 Installing from CD-ROM and through internet-delivery

Please see the VSE Install Instruction on the z/VSE Home Page:

<http://www.ibm.com/servers/eserver/zseries/zvse>

### 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.



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## **8.0 z/VSE 4.1.0 Install Logic**

There is no further information for z/VSE 4.1.0



## 9.0 Reader's Comments

### Program Directory for z/VSE Version 4 Release 1.0

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?











Program Number: 5609-ZV4 4000/4001/4002  
4003  
4010/4011/4012  
4013

Printed in U.S.A.

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