IBM

Program Directory for

z/VSE Version 6.1

and

CICS Transaction Server for z/VSE Version 2.1

Program Number 5686-VS6, 5655-VSE

Document Date: August 2015

GI11-9706-00

```
┌─── 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 August 2015, applies to z/VSE Version 6 Release 1.0 (z/VSE 6.1) , Program Number 5686-VS6 and to CICS Transaction Server for z/VSE Version 2 Release 1, Program Number 5655-VSE for the following:

Feature Numbers	Content	System Name
6015	z/VSE V6.1 English base on 3590/3592 cartridge	z/VSE V6.1
6015	z/VSE V6.1 English base on DVD-ROM	z/VSE V6.1

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Summary of changes with z/VSE V6.1

The following summarizes the changes with z/VSE V6.1:

The product z/VSE V6.1 (5686-VS6) is the new version of the z/VSE operating system.

The z/VSE SIR command displays *z/VSE 6.1.0* and also the RSL PSP bucket for this release is published specifying *VSERSL610*. The upgrade value for preventive service planning for this release is *zVSE610*.

CICS Transaction Server for z/VSE V2.1 (CICS TS for z/VSE V2.1) - delivered with z/VSE V6.1 - is also covered in this z/VSE V6.1 Program Directory.

For an overview of functional enhancements of z/VSE V6.1, please see

* z/VSE Release Guide, SC34-2696
* z/VSE home page

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

Installation

* z/VSE V6.1 requires initial installation

* Fast Service Upgrade to z/VSE V6.1 is not possible

* IBM IPv6/VSE is automatically installed during initial installation.

Updated z/VSE BASE PROGRAMs

* 5686-VS6 z/VSE V6.1

* 5655-VSE CICS Transaction Server for z/VSE V2.1

* 5686-BS1 IBM IPv6/VSE V1.2 - new release - is now on the base tape (formerly extended base tape).

* 5686-CS1 IBM TCP/IP for z/VSE V2.1 - new version

Updated OPTIONAL PROGRAMs

* none

Dropped OPTIONAL PROGRAMs

* 5655-U97 WebSphere MQ for z/VSE V3.0
* 5735-XXB Emulation Program (EP) V1.14
* 5686-064 IBM Advanced Communication Function/System Support Program (ACF/SSP) for VSE 4.8.1
* 5688-191 IBM Overlay Generation Language (OGL/370) 1.1.0
* 5648-063 IBM Advanced Communication Function/Network Control Program (ACF/NCP) 7.8.1
* 5688-035 IBM X.25 NCP Packet Switching Interface (NPSI) 3.9.0

No longer available with z/VSE V6.1

- Starting with z/VSE V6.1, z/VSE is delivered as English version only.
- The NFS feature is no longer available with IBM TCP/IP for z/VSE V2.1.
- Starting with z/VSE V5, CICS/VSE V2.3 can no longer be used.
- End of service of CICS/VSE V2.3 is effective since October 31, 2012.
- CICS TS for VSE/ESA V1.1.1 cannot be used with z/VSE V6.1. It is replaced by CICS TS for z/VSE V2.1.
- CICS Distributed Data Management (CICS/DDM) is not supported with CICS TS for z/VSE V2.1.

z/VSE ordering through Shopz is available in all countries (except embargoed countries). Shopz allows you to select tape, DVD-ROM, Internet delivery or tape 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, Hungaria, Ireland, Italy, Luxemburg, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slowakia, Slowenia, 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, Marocco, 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

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 V6.1 and CICS TS for z/VSE V2.1. 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 V6.1.

- 3.0, "Program Support" on page 20 describes the IBM support available for z/VSE V6.1.

- 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 V6.1.

- 7.0, "Installation Instructions" on page 38 provides detailed installation instructions for z/VSE V6.1.

- 8.0, "z/VSE V6.1 Installation Logic" on page 39 provides the installation logic for z/VSE V6.1.

Before installing z/VSE V6.1, 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.

2.0 Program Materials

An IBM program is identified by a program number and a feature code. The program number for z/VSE V6.1 is 5686-VS6.

The program number for CICS TS for z/VSE V2.1 is 5655-VSE.

The program announcement material describes the features supported by z/VSE V6.1. 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

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 V6.1 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 V6.1 provides ready-to-run jobs to delete base products for which you do not have a license.

Following is a list of these jobs, stored in ICCF library 59:
- `DELCICS`   to delete CICS TS for z/VSE V2.1
- `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 IBM TCP/IP for z/VSE V2.1
- `DELIPV6`   to delete IBM IPV6/VSE V1.2
- `DELVTM`   to delete ACF/VTAM 4.2
- `DELHLASM` to delete HLASM 1.6.0
- `DELREXX`   to delete REXX/VSE 9.3.0

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 TS for z/VSE V2.1

- ICCF cannot be used

- The Interactive User Interface cannot be used

2.2 z/VSE V6.1 - BASIC Machine Readable Material (MRM)

The **z/VSE V6.1** 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

> 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 Shopz) 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 V6.1. These volumes contain all the programs and data needed for installation. z/VSE V6.1 is installed using the Maintain System History Program (MSHP).

Figure 2 on page 6 describes the **BASE PRODUCTS and COMPONENTS** of z/VSE V6.1 - on z/VSE Base.

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

Figure 4 on page 10 describes the z/VSE V6.1 **Extended BASE PRODUCTS / COMPONENTS** - on z/VSE Extended Base

Figure 5 on page 11 describes **z/VSE V6.1 on DVD-ROM** and the files provided through electronic delivery.

Please refer to the manuals *z/VSE Installation, SC34-2678* and *z/VSE Planning, SC34-2681*.

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/VSEvrm-EN
		2	z/VSEvrmXBASE
		3	z/VSE DB2 HELP
3592 cartridge	6015	1	z/VSEvrm-EN
		2	z/VSEvrmXBASE
		3	z/VSE DB2 HELP
DVD-ROM	6015	1	VSEvrm_BASE_ENU_DVD

Notes:

1. **vrm** defines the version, release and modification level of z/VSE.

2. 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

Figure 2 describes the contents of the z/VSE V6.1 Base

Figure 2 (Page 1 of 2). z/VSE V6.1 - BASE Products

Product Description	Program Number	Component-Identifier	CLC
z/VSE V6.1	5686-VS6	n/a	n/a
VSE/SP UNIQUE CODE	5686-VS6	5686VS601	61C
VSE/UNIQUE CODE ENGLISH	5686-VS6	5686VS602	61D
VSE/POWER	5686-VS6	5686VS603	61C
VSE/POWER Macros	5686-VS6	5686VS603	61G
VSE/VSAM	5686-VS6	5686VS605	61C
VSE/VSAM Macros	5686-VS6	5686VS605	61G
VSE/AF SVR & BAM & GDS	5686-VS6	5686VS606	61C
VSE/AF Macros	5686-VS6	5686VS606	61G
VSE/AF Generation Feature	5686-VS6	5686VS606	61J
VSE/AF MSHP	5686-VS6	5686VS607	61C
VSE/AF Info/Analysis	5686-VS6	5686VS608	61C
VSE/AF IOCP	5686-VS6	5686VS609	61C
VSE/ICCF	5686-VS6	5686VS610	61C
VSE/FastCopy	5686-VS6	5686VS611	61C
REXX/VSE Library	5686-VS6	5686VS612	61I
REXX/VSE Kernel & Interface	5686-VS6	5686VS616	61I
CRYPTO SERVICES	5686-VS6	5686VS617	61S
OSA/SF	5686-VS6	5686VS630	61O
VSE Connector Server	5686-VS6	5686VS635	61N
LE Base ENU + JPN	5686-VS6	5686VS632	61K
LE C ENU + JPN	5686-VS6	5686VS633	61L
LE COBOL + JPN + CICS	5686-VS6	5686VS636	61W
LE PL/I + JPN	5686-VS6	5686VS637	61Z
CICS TS for z/VSE V2.1	5655-VSE	5655VSE00	B2P
IBM TCP/IP for z/VSE V2.1 1)	5686-CS1	5686CS100	ETP
GPS Feature	5686-A04	5686A0400	CTP
IBM IPv6/VSE V1.2 2)	5686-BS1	5686BS100	D10

Figure 2 (Page 2 of 2). z/VSE V6.1 - BASE Products

Product Description	Program Number	Component-Identifier	CLC
ACF/VTAM 4.2.0 3) 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. IBM TCP/IP for z/VSE and the GPS feature are pre-installed. Both the base product and the GPS feature are key-protected. They have to be activated by entering an activation key together with the customer number. The activation keys are provided with your orders.

2. IBM IPv6/VSE V1.2 is key-protected. It has to be activated by entering an activation key together with the customer number, which is provided when IBM IPv6/VSE was ordered.

3. 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 - Machine Readable Material (MRM) FILE Contents

Figure 3 describes the files of the z/VSE V6.1 Base

Figure 3 (Page 1 of 2). File Content: z/VSE V6.1 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
28	End of Tape Record (EOT)
29	Header File

Figure 3 (Page 2 of 2). File Content: z/VSE V6.1 BASE

File	Name
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	Header File
36	MSHP History File - PRD2.TCPIPB
37	PRD2.TCPIPB Sublibrary
38	Null File
39	End of Backup Record
40	Online-Message-File
41	Null File
42	End of Tape Record

2.2.4 z/VSE Extended BASE - PRODUCTS / COMPONENTS

Figure 4 describes the z/VSE V6.1 Extended BASE Products / Components.

Figure 4. z/VSE V6.1 - Extended BASE Products

Product Description	Program Number	ComponentID	CLC
OS/390 APIs	5686-VS6	5686VS614	61V
LE/VSE DBCS LOCALE	5686-VS6	5686VS634	61M
DB2/VSE	5697-F42	5697F4201	5NN
ASN/VSE	5697-F42	5697F4201	4NO
DB2/VSE CLIENT EDITION	5697-F42	5697F4207	5NC
VSE CONNECTOR WORKSTATION	5686-VS6	5686VS638	61P

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 V6.1 - z/VSE V6.1 on DVD-ROM

File	File Description	File Name
1	Readme File	ReadMvrm.txt
2	z/VSE Base	VSEvrmEN.AWS
3	z/VSE Extended Base	VSEvrmXB.AWS
4	DB2 Help Text	DB2xxxxx.AWS
	Files to create an installation disk:	
5	Installation file for Load from Removable Media or Server	VSEvrmEN.INS
6	Installation file for Load from Removable Media or Sever using the integrated console	VSEvrmENI.INS
7	Load parameter for Load from Removable Media or Server using the integrated console	VSEvrmENI.LP
8	Installation file for Load from Removable Media or Sever using the integrated console and debug enabled	VSEvrmENID.INS
9	Load parameter for Load from Removable Media or Server using the integrated console and debug enabled	VSEvrmENID.LP
10	Installation file for Load from Removable Media or Sever and debug enabled	VSEvrmEND.INS
11	Load parameter for Load from Removable Media or Server and debug enabled	VSEvrmEND.LP
12	Boot phase for Load from Removable Media or Server	VSEvrmEN.IPL

Figure 5 (Page 2 of 2). z/VSE V6.1 - z/VSE V6.1 on DVD-ROM

File	File Description	File Name
13	Boot PSW for Load from Removable Media or Server	VSEvrmEN.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

`vrm is the current version, release and modification level of z/VSE`

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: VSE610OP.AWS.

2.2.6 z/VSE downloadable from the Internet

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

Figure 6. z/VSE V6.1 - z/VSE V6.1 from Internet download

File	File Description	File Name
1	Base Tape	VSEvrmEN.aws
2	Extended Base Tape	VSEvrmXB.aws
3	DB2 Help Tape	DB2xxxxx.aws
4	Files to create an installation disk	VSEvrmEN.zip
5	Opt.Product Tape	VSEvrmOP.aws

where

`vrm is the current version, release and modification level of z/VSE`

Note that after downloading the files from the Internet, you will have the z/VSE V6.1 operating system and/or optional products available on your PC in compressed format. After extracting 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 VSEvrmOP.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 V6.1 Installation* SC34-2678 or *z/VSE V6.1 System Upgrade and Service*, SC34-2680.

2.3 z/VSE BASE - OPTIONAL Machine-Readable Material

There are no optional machine-readable materials for z/VSE V6.1.

2.4 z/VSE BASE - Program Publications

All z/VSE manuals are available as softcopy only.

- Online collection kit that is available in compressed format for download from the IBM publication center (SK3T-8348).
- IBM Publications Center

  `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.
- z/VSE home page (documentation)

  `http://www.ibm.com/systems/z/os/zvse/documentation/`

- z/VSE Knowledge Center

  `http://www.ibm.com/support/knowledgecenter/SSB27H/zvse_welcome.html`

- CICS TS Knowledge Center

  `http://www.ibm.com/support/knowledgecenter/SSB2JE/welcome.html`

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 V6.1 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 V6.1

```
Prod.No.   Product Name              V.R.M    remarks
--------   ------------              -----    --------
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
5686-065   ACF/VTAM for VM feature   4.2.0    VM format
           ACF/VTAM APPC Feature
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-A07   CCCA for VSE/ESA          2.1.0
5688-190   PPFA/370                  1.1.0
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
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-VS6   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 V6.1.
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
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  2OL   F422OL   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
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)
CCCA.VSE...2.1.0  5686A0700  1JS  A071JS
PPFA/370...1.1.0  568819001  A03  190A03
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  2IO  XX12IO
ZVSE.EF....1.2.0  5686VS640  61Y  VS661Y
```

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 V6.1 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 V6.1 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 V6.1 OPT x OF y' File Content

File	Name
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 V6.1.

3.1 Preventive Service Planning

Before installing z/VSE V6.1, 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:

zVSE610

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 V6.1 is published via a special RSL PSP bucket VSERSL610 and on the Internet via the z/VSE home page

`http://www.ibm.com/systems/z/os/zvse/support/preventive.html#rsl`

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 V6.1.

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of z/VSE V6.1. 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 z/VSE 5.2 APARs fixed and incorporated into z/VSE V6.1 (not visible in MSHP history file).

COMPONENT 5686VS601, ..02 (UNIQUE CODE)

```
PI15935 PI19772 PI20647 PI26875 PI26742
PI35785 PI36463 PI37688 PI38253
```

COMPONENT 5686VS603 (POWER)

```
DY47519 DY47570 DY47527 DY47529 DY47564
DY47573 DY47584 DY47588 DY47593
```

COMPONENTs 5686VS606, ..07, ..08, ..09 (AF)

```
DY47522 DY47530 DY47542 DY47543 DY47549
DY47550 DY47553 DY47555 DY47560 DY47562
DY47568 DY47576 DY47577 DY47583 DY47586
DY47592 DY47595 DY47600 DY47601 DY47603
DY47607 DY47608 DY47612 DY47616 DY47618
```

COMPONENT 5655VSE00   (CICS TS for z/VSE V2.1)

The fix list for CICS TS APARS can be found at

http://www.ibm.com/support/docview.wss?rs=1083&uid=swg27015142

All APARs up to PI40620 with the closing date of July 22, 2015 are incorporated.
In addition:
```
PI40483
```

COMPONENT 5686VS605 (VSAM)

```
DY47507 DY47535 DY47537 DY47557 DY47567
DY47572
```

COMPONENTs 5686VS612, ..16 (REXX/VSE)

COMPONENT 5686VS610 (ICCF)

COMPONENT 5686VS617 (Crypto Services)

```
DY47534 DY47545 DY47561 DY47581 DY47538
DY47591 DY47602 DY47610 DY47613
```

COMPONENT 5686VS630 (OSA/SF)

Component 5686VS609 (IOCP)

```
DY47590
```

LE/VSE 5686VS632 (LE Base)

```
PI41430
```

LE/VSE 5686VS633 (LE/VSE C)

```
PI21205 PI21212 PI30307 PI35189
```

LE/VSE 5686VS636 (LE/VSE COBOL)

```
PI23443 PI35269
```

VSE Connectors 5686VS635 (Connectors)

```
PI16803 PI21772 PI22319 PI26078 PI28790
PI42615
```

VSE Connectors 5686VS638 (Connectors WS Code)

```
PI16766, PI35643
```

LE/VSE 5686VS637 (LE/VSE PLI)
none

IBM TCP/IP for z/VSE V2.1 5686CS100

```
PI18501 PI23778 PI27143 PI34507
```

IBM IPv6/VSE V1.2 5686BS100

4.2 Service Level Information

There is no information for z/VSE V6.1 at this time.

4.3 Cumulative Service Tape

There is no cumulative service tape for z/VSE V6.1.

5.0 Installation Requirements and Considerations

CICS TS for z/VSE V2.1 is part of z/VSE V6.1. It cannot be ordered separately.

The following sections identify the system requirements for installing and activating z/VSE V6.1.

5.1 System Requirements

5.1.1 Operating System Requirements

Starting with z/VSE V4, z/VSE executes in z/Architecture mode only.
z/VSE V6.1 can run in LPAR mode or as a z/VM guest in any supported z/VM release.

5.1.2 z/VSE Processor Support

z/VSE V6.1 introduces an Architectural Level Set (ALS) and requires IBM System z10 or higher.

These are the System z processors, that are currently supported by z/VSE V6.1:

    IBM z13
    IBM zEnterprise EC12
    IBM zEnterprise BC12
    IBM zEnterprise 196
    IBM zEnterprise 114
    IBM System z10 Enterprise Class
    IBM System z10 Business Class

For more and actual 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 SC34-2681* manual.

5.1.4 Minimum System Configuration

z/VSE V6.1 requires the following minimum system configuration:

- 64 MB 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 916 MB (environment A) or about 1510 MB (environment B) or 2814 MB (environment C) of disk device space on two volumes, DOSRES and SYSWK1, as outlined in *z/VSE Planning*, SC34-2681

- 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*, SC34-2681 for storage requirements.

6.0 Special Considerations

Information on z/VSE Base and Optional Programs

6.1 Hints and Tips for z/VSE BASE Programs

6.1.1 z/VSE Fast Service Upgrade (FSU)

z/VSE V6.1 requires an initial installation.
Fast Service Upgrade (FSU) to z/VSE V6.1 is not possible.

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.

```
* $$ JOB JNM=COPYTAPE,CLASS=0,DISP=D
// JOB COPYTAPE - COPY VIRTUAL TAPE TO REAL TAPE
// UPSI 1
// PAUSE - PLEASE MOUNT A TAPE ON <cuu2>
DVCDN <cuu1>
// VTAPE START,UNIT=<cuu1>,LOC=<host_id>,
             FILE=<filename>,READ
DVCUP <cuu1>
// ASSGN SYS010,<cuu2>,08    * OUTPUT MEDIA REAL TAPE
// ASSGN SYS011,<cuu1>       * INPUT MEDIA VTAPE
// EXEC DITTO
$$DITTO REW OUTPUT=SYS010
$$DITTO REW OUTPUT=SYS011
$$DITTO TT INPUT=SYS011,OUTPUT=SYS010,NFILES=<42>
/*
DVCDN <cuu1>
// VTAPE STOP,UNIT=<cuu1>
DVCUP <cuu1>
/&
* $$ EOJ
```

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)
<host_id>	hostname or IP address of the workstation where the VSE Virtual Tape Server is running.
<filename>	File name and path of the remote virtual tape image containing the z/VSE base tape. (For example, C:\DownloadDirector\VSE610EN.AWS)

Notes:

1. NFILES=*<42>* is only valid for the base tape. In case of the extended base tape, the value is 49.

6.1.3 Dropped JCL Options

Starting with z/VSE V5.1 the following operands of the OPTION or STDOPT statement have been dropped.

ASI procedures with

```
// STDOPT OLDASSEM=NO
// STDOPT OLDASSEM=YES
// STDOPT EDECK=NO
// STDOPT EDECK=YES
// STDOPT FASTTR=NO
```

will stop with message

```
1U13D INVALID STATEMENT -
```

Jobs with

```
// OPTION OLDASSEM
// OPTION NOOLDASSEM
// OPTION EDECK
// OPTION NOEDECK
// OPTION NOFASTTR
```

will stop with message

```
1L65D INVALID OR INCOMPLETE OPERAND(S)
```

Remove the old OPTION operands from your JCL before migrating to z/VSE V6.1.

6.1.4 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.

6.1.5 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/
```

6.1.6 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 16 MB:

```
 // 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)'
```

6.1.7 CICS Transaction Server

z/VSE V6.1 is delivered with CICS Transaction Server for z/VSE V2.1 (CICS TS for z/VSE).
This new version of CICS TS replaces CICS Transaction Server for VSE/ESA V1.1.1 (CICS TS for VSE/ESA). CICS TS for VSE/ESA can no longer be used with z/VSE V6.1 or later.

CICS TS for z/VSE V2.1 is the only CICS version that can be used with z/VSE V6.1.
CICS TS for z/VSE V2.1 requires z/VSE V6.1.

For additional information, please refer to: *CICS Transaction Server for z/VSE, Enhancements Guide, Version 2 Release 1*, SC34-2685-00

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 is the default. The basic security manager (BSM) is used as external security manager.

When using the EZA aplication program interfaces (EZASMI and EZASOKET) with CICS transactions, the EZA "task-related-user-exit" (TRUE) has to be actived 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 Telnet Terminal Definition and Autoinstall

6.1.8.1 IBM TCP/IP for z/VSE V2.1: 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 MENUE definition, in this case only one LOGMODE parameter is required: LOGMODE=SP3272QN.

6.1.8.2 IBM IPv6/VSE V1.2: File transfer using IND$FILE works with the IPv6/VSE Telnet daemon BSTTVNET without further configuration.

```
// EXEC BSTTVNET,SIZE=BSTTVNET,DSPACE=4M,TASKS=ANY,OS390
ID nn
OPEN ipaddr port
*
APPLID DBDCCICS CICS/TS AND ICCF
APPLID BSTTVNET PRINTER SHARING APPLICATION
*
TITLE *** *** WELCOME TO BARNARD SOFTWARE, INC. *** ***
*
TERMINAL T001 GENERIC
TERMINAL T002 GENERIC
TERMINAL T003 GENERIC
  ...
*
ATTACH TN3270E
/*
```

6.1.9 IOCP

IOCP requires a partition of up to 512 MB of storage based on the type of IOCDS processing.

6.1.10 Language Environment for z/VSE

6.1.10.1 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* SC34-2681. 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.

6.1.10.2 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).

6.1.10.3 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 in particular 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.ibm.com/systems/z/os/zvse/downloads/tools.html#ceetrace
```

6.1.11 IBM TCP/IP for z/VSE V2.1

z/VSE V6.1 includes IBM TCP/IP for z/VSE V2.1. It replaces IBM TCP/IP for VSE/ESA V1.5F.

The IBM TCP/IP for z/VSE V2.1 product is installed in library PRD2.TCPIPC. Batch jobs that use IBM TCP/IP for z/VSE V2.1 must have PRD2.TCPIPC as the first library in their library search chain.

The documentation for IBM TCP/IP for z/VSE V2.1 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 books with the original program description from Connectivity Systems Incorporated, the provider of the IBM TCP/IP for z/VSE V2.1 program.

In addition the following publication provided by IBM describes the setup of the IBM TCP/IP for z/VSE V2.1 program.

- z/VSE TCP/IP Support

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 website at

```
http://www.adobe.com
```

You will find the documentation for IBM TCP/IP for z/VSE V2.1 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*

6.1.12 IBM IPv6/VSE V1.2

IBM IPv6/VSE V1.2 is installed during initial installation into library PRD2.TCPIPB. Batch jobs that use IBM IPv6/VSE must have PRD2.TCPIPB as the first library in their library search chain.

The product delivers an IPv6 solution, thus bringing the benefits of IPv6 functionality to z/VSE clients. IBM IPv6/VSE provides an IPv6 TCP/IP stack, IPv6 application programming interfaces (APIs) and IPv6 enabled applications.

The IBM 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.

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

The documentation for IBM IPv6/VSE V1.2 is available on the z/VSE online collection kit that is available in compressed format for download from the IBM publication center (SK3T-8348).

The IBM IPv6/VSE product documentation consists of publications with the original product description from Barnard Software Inc., the provider of the IPv6/VSE product.

In addition the following publication provided by IBM gives an overview of the IPv6/VSE product.

- z/VSE TCP/IP Support

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 website at

`http://www.adobe.com`

You will find the documentation for IBM 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.

6.2 DL/I VSE V1.12

DL/I VSE V1.12 is an optional product of z/VSE V6.1. 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 V6.1. Please refer to
DL/I VSE 1.12 Program Directory *GI10-0484* for installation instructions.

6.3 DB2 Server for VSE V7.5

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. The DB2 optional features are packaged as optional products
and distributed on the z/VSE optional product 'stacked tape' if they were ordered.

6.4 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

6.5 DOS/VS RPG II Support for CICS TS

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

6.6 Installation Hints and Tips

6.6.1 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`

6.6.2 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 z/VSE 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`

6.7 Publication Updates

6.7.1 Accessing z/VSE Performance Documentation

You can receive performance information for z/VSE from the Internet via the z/VSE home page

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

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7.0 Installation Instructions

7.1.1 z/VSE V6.1 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. Installation of optional products or of 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 V6.1 Installation Logic

- z/VSE V6.1 requires initial installation

- Fast Service Upgrade to z/VSE V6.1 is not possible

- IBM IPv6/VSE is automatically installed during initial installation.

- Starting with z/VSE V5.2, z/VSE does no longer offer to install DB2 during initial installation.

- Starting with z/VSE V5.2, z/VSE 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 Version 6 Release 1.0 and CICS Transaction Server for z/VSE Version 2.1.

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                                very          not
 │ satisfied  <====================> dissatisfied  applicable
 │    1          2        3        4       5             N
 └────────────────────────────────────────────────────────────────────────────
```

	Satisfaction					
Ease of product installation	1	2	3	4	5	N
Contents of program directory	1	2	3	4	5	N
Installation Verification Programs	1	2	3	4	5	N
Time to install the product	1	2	3	4	5	N
Readability and organization of program directory tasks	1	2	3	4	5	N
Necessity of all installation tasks	1	2	3	4	5	N
Accuracy of the definition of the installation tasks	1	2	3	4	5	N
Technical level of the installation tasks	1	2	3	4	5	N
Ease of getting the system into production after installation	1	2	3	4	5	N

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

__   Independent
__   Package

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

__   CustomPac

      __   FunctionPac
      __   SystemPac

__   System Delivery Offering (SDO)

__   Other - Please specify type: . . . .

Is this the first time your organization has installed this product?

__   Yes
__   No

Were the people who did the installation experienced with the installation of these products?

__   Yes
__   No

If yes, how many years? __

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

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Please provide the following contact information:

_____

Name and Job Title

_____

Organization

_____

_____

Address

_____

Telephone

_____

Email

Thank you for your participation.

Please send the completed form to (or give to your IBM representative who will forward it to the z/VSE V6.1 Development group):

Email: zvse@de.ibm.com

IBM ®

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