

Program Directory for VSE/ESA Version 2.6.3 supplied as Service Option, feature 2252 of VSE/ESA 2.7

Version 2

Program Number 5690-VSE

Document Date: November 2003

GI10-9765-04

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	MOLE

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

This program directory, dated November 2003, applies to the base of VSE/Enterprise Systems Architecture Version 2 (VSE/ESA 2.6.3) , Program Number 5690-VSE for the following:

Feature Numbers Content		System Name
2252	VSE/ESA V2 English Base	VSE/ESA V2

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Summary of Changes

The following list summarizes VSE/ESA 2.6.3 content changes compared to VSE/ESA 2.6.2

VSE/ESA BASE and EXTENDED BASE PROGRAMs

- 5697-F42 DB2 Server for VSE/ESA 7.3 new release including Data Propagator 7.3
- 5686-A04 TCP/IP 1.5.0 new release

Removed Feature:

- 5697-F42 DB2 Server for VSE/ESA 7.2 (including Data Propagator 7.2)
- 5686-A04 TCP/IP 1.4

Note: This modification level of VSE/ESA 2.6 is only available as part of VSE/ESA 2.7 when the 'Service Option' of product 5686-066 is ordered.

There are no Optional Programs provided with VSE/ESA 2.6. If you plan to install any optional program on VSE/ESA 2.6.3, please use the optional programs shipped with VSE/ESA 2.7.

1.0 Introduction

This program directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of VSE/ESA 2.6.3. 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 program materials and documentation for VSE/ESA 2.6.3.
- 3.0, "Program Support" on page 11 describes the IBM support available for VSE/ESA 2.6.3.
- 4.0, "Program and Service Level Information" on page 12 lists the APARs (program level) and PTFs (service level) incorporated into VSE/ESA 2.6.0
- 5.0, "Installation Requirements and Considerations" on page 16 identifies the resources and considerations for installing and using VSE/ESA 2.6.3.
- 7.0, "Installation Instructions" on page 32 provides detailed installation instructions for VSE/ESA 2.6.3.
- 8.0, "VSE/ESA 2.6.3 Install Logic" on page 33 provides the install logic for VSE/ESA 2.6.3.

Before installing VSE/ESA 2.6.3, read 3.1, "Preventive Service Planning" on page 11. This section tells you how to find any updates to the information and procedures in this program directory.

2.0 Program Materials

An IBM program is identified by a program number and a feature code. The program number for VSE/ESA 2.6.3 is 5690-VSE.

This modification level of VSE/ESA 2.6 is only available as part of VSE/ESA 2.7 when the 'Service Option' of product 5686-066 is ordered.

The program announcement material describes the features supported by VSE/ESA 2.6. Ask your IBM marketing representative for this information if you have not already received a copy.

The following sections identify:

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

Microfiche program listings are not provided with VSE/ESA 2.6.3. Customers with access to View Program Listings (VPL), such as through SoftwareXcel Extended, can access program listings formerly provided through microfiche.

Those customers without access to VPL can contact their IBM representative.

The VPL facility provides online viewing of program listings that are available to customers.

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

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

2.1.1 General Description

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

2.1.2 Jobstreams included for deleting VSE/ESA Base components

VSE/ESA 2.6.3 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
- DELDB273 to delete DB2 Server V7.3
- DELDIT to delete DITTO/ESA
- DELLECOB to delete the LE/VSE COBOL parts *)
- DELLEPLI to delete the LE/VSE PL/I parts *)
- DELTCPIP to delete TCP/IP for VSE/ESA
- DELVTM to delete ACF/VTAM 4.2

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

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

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

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

2.1.3 Special considerations when deleting CICS Transaction Server

- ICCF cannot be used also not with CICS/VSE
- The Interactive User Interface cannot be used also not with CICS/VSE
- DL/I 1.10.0 does not run with the CICS Transaction Server, it requires CICS/VSE Version 2.3
- DL/I 1.11.0 requires CICS Transaction Server 1.1

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

The VSE/ESA BASE is distributed on 3 volumes of either 3480 Cartridges (compressed) or 3590 Cartridges.

Figure 1 describes the MEDIA and VOLUMES of the VSE/ESA BASE. These volumes contain all the programs and data needed for installation. VSE/ESA 2.6.3 is installed using the Maintain System History Program (MSHP).

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

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

See 7.0, "Installation Instructions" on page 32 for more information about how to install the program.

2.2.1 VSE/ESA BASE - MEDIA and VOLUMES

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

Medium	Feature Numbers	Physical Volume	External Label Identification
3480 Cartridge	2252	1	VSE/ESA2.6.3-EN
compressed		2	VSE/ESA2.6.3-EN2
or 3590 Cartridge		3	VSE/ESA2.6.3XBASE

Notes:

- 1. Please note, that VSE/ESA 2.6.3 is only available in English.
- 2. The XBASE (Extended Base) contains further VSE/ESA Base Programs.

DO NOT IPL the Extended Base

2.2.2 VSE/ESA BASE - PRODUCTS / COMPONENTS

Figure 2 describes the contents of the VSE/ESA 2.6.3 Base.

Figure 2 (Page 1 of 2). VSE/ESA 2.6.3 - BASE Products

Product Description	Program Number	Component- Identifier	CLC
VSE/ESA 2.6.3 (Package) 1)	5690-VSE	n/a	n/a
VSE Central Functions 6.6.0	5686-066	n/a	n/a
VSE/SP UNIQUE CODE	5686-066	568606601	65C
VSE/UNIQUE CODE ENGLISH	5686-066	568606602	65D
VSE/POWER	5686-066	568606603	65C
VSE/POWER Macros	5686-066	568606603	65G
VSE/VSAM	5686-066	568606605	65C
VSE/VSAM Macros	5686-066	568606605	65G
VSE/AF SVR & BAM & GDS	5686-066	568606606	65C
VSE/AF Macros	5686-066	568606606	65G
VSE/AF Generation Feature	5686-066	568606606	65J
VSE/AF MSHP	5686-066	568606607	65C
VSE/AF Info/Analysis	5686-066	568606608	65C
VSE/AF IOCP	5686-066	568606609	65C
VSE/ICCF	5686-066	568606610	65C
VSE/FastCopy	5686-066	568606611	65C
REXX/VSE Library	5686-066	568606612	65I
REXX/VSE Kernel & Interface	5686-066	568606616	65I
VSE/OLTEP	5686-066	568606613	65I
OSA SF	5686-066	568606630	6G7
VSE Connectors	5686-066	568606635	65N
LE Base ENU + JPN 1.4.2	5686-066	568606632	65K
LE C ENU + JPN 1.4.2	5686-066	568606633	65L
CICS Transaction Server 1.1.1	5648-054	564805400	B0P
TCP/IP 1.5 for VSE/ESA 2) Application Pak NFS Feature	5686-A04	5686A0400	10Q

GPS Feature

Figure 2 (Page 2 of 2). VSE/ESA 2.6.3 - 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 1.4.0	5696-234	569623400	489
EREP 3.5.0	5656-260	565626001	E00
ICKDSF 1.17.0	5747-DS2	565899201	1NM
DITTO/ESA for VSE	5648-099	564809901	36O
LE COBOL + JPN + CICS	5686-094	568609403	6EW
LE PL/I + JPN	5686-094	568609406	6EX

Notes:

- 1. This modification level of VSE/ESA 2.6 is only available as part of VSE/ESA 2.7 when the 'Service Option' of product 5686-066 is ordered.
- 2. 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.
- 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 VSE/ESA BASE - MRM FILE Contents

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

Figure 3 describes the files of the first volume of the VSE/ESA Base (labelled: VSE/ESA2.6.3-EN)

Figure 3 (Page 1 of 2). File Content: VSE/ESA 2.6 BASE - 1st volume

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

Figure 3 (Page 2 of 2). File Content: VSE/ESA 2.6 BASE - 1st volume

File	Name
27	Null File
28	End of Tape Record

Figure 4 describes the files of the **second volume** of the VSE/ESA Base (labelled: VSE/ESA2.6.3-EN2)

Figure 4. File Content: VSE/ESA 2.6 BASE - 2nd volume

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

2.2.4 VSE/ESA Extended BASE - PRODUCTS / COMPONENTS

Figure 5 describes the VSE/ESA 2.6.3 EXTENDED BASE Products / Components.

Figure 5. VSE/ESA 2.6.3 - EXTENDED BASE Products

Product Description	Program Number	ComponentID	CLC
OS/390 APIs	5686-066	568606614	65V
LE DBCS Locales	5686-066	568606634	65M

Note: DB2 7.3 and CICS/VSE shall be taken from the Extended Base of VSE/ESA 2.7 to ensure that the DB2 components shipped with the Extended Base and the Optional Programs fit together.

2.3 VSE/ESA BASE - OPTIONAL Machine-Readable Material

There are no optional machine-readable materials for VSE/ESA 2.6.3.

2.4 VSE/ESA BASE - Program Publications

The VSE Softcopy Collection Kit SK2T-0060, which is distributed with every VSE/ESA order, provides documentation to the VSE/ESA 2.6.3 Base.

2.4.1 VSE/ESA Base - Basic Publications

There is no further information for VSE/ESA 2.6.3.

2.5 Optional Programs

If you plan to install any optional program on the VSE/ESA 2.6.3 system, it is recommended to use the optional programs shipped with VSE/ESA 2.7.

Please be aware that due to the required processors supported with VSE/ESA 2.7, it may be possible that some of these products will not run with VSE/ESA 2.6.3. In this case, it is recommended to use the optional programs delivered with earlier optional product tapes.

2.5.1 Optional Programs - Licensed Publications and Microfiche

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

3.0 Program Support

This section describes the IBM support available for VSE/ESA 2.6.3.

3.1 Preventive Service Planning

Before installing VSE/ESA 2.6.3, 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:

VSEESA263

With this upgrade value you will see lists of subset values, one sorted by VSE/ESA BASE programs and one sorted per VSE/ESA OPTIONAL programs. The subset identifiers are derived from the product names, to where the subset identifiers belong. Please note that the subsets for optional products are based on the VSE/ESA 2.7.1 level.

In addition, there are the following subset values:

BASESERVICE and OPTPSERVICE

Using this values, you find the list of integrated APARs and related PTFs per BASE and OPTIONAL program.

If you have received VSE/ESA 2.6.3 only from IBM Software Distribution, then before installing VSE/ESA 2.6.3, you should also check with your IBM Support Center or use either Information/Access or SoftwareXcel Extended to see if there is additional PSP information that you should know.

3.2 Statement of Support Procedures

Report any difficulties you have using this program to your IBM Support Center. If an APAR is required, the Support Center will provide the address to which any needed documentation can be sent. Please refer to Figure 2 on page 5 for component IDs (COMPID) for VSE/ESA 2.6.3

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4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of VSE/ESA 2.6.0. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated. Information about the cumulative service tape is also provided.

4.1 Program Level Information

The following is a list of APARs fixed and integrated since VSE/ESA 2.5, which are NOT visible in the MSHP history file.

COMPONENT 568606601, ..02 (UNIQUE CODE)

PQ21748	PQ21749	PQ21750	PQ21829	PQ22248
PQ22537	PQ22539	PQ24641	PQ24808	PQ26062
PQ26296	PQ26451	PQ26780	PQ27580	PQ28422
PQ28605	PQ29299	PQ30134	PQ31176	PQ31285
PQ31932	PQ34249	PQ34694	PQ34718	PQ36445
PQ36532	PQ36688	PQ36898	PQ38386	PQ38704
PQ39412	PQ39414			
PQ41225	PQ41480	PQ42737	PQ43137	PQ43503
PQ44269	PQ45663	PQ46864	PQ48871	PQ49063
PQ49301	PQ49437	PQ49527	PQ50082	PQ50122
PQ50346	PQ51324	PQ51515	PQ51586	PQ52261
PQ52476				

COMPONENT 568606603 (POWER)

DY44844	DY44845	DY44856	DY44863	DY44880	DY44883
DY44941	DY45017	DY45060	DY45073	DY45095	DY45105
DY45112	DY45124	DY45131	DY45161	DY45185	DY45193
DY45215	DY45219	DY45228	DY45235	DY45240	DY45243
DY45251	DY45283	DY45289	DY45291	DY45276	DY45313
DY45323	DY45337	DY45372	DY45375	DY45404	DY45346
DY45413	DY45414	DY45495	DY45437	DY45444	21.00.0
DY45464	DY45489	DY45498	DY45511	DY45514	DY45521
DY45543	DY45546	DY45554	DY45555	DY45562	DY45570
DY45584	DY45591	DY45607	DY45613	DY45622	DY45634
DY45647	DY45675	DY45679	DY45701	DY45714	DY45763
DY45769	DY45780				

COMPONENTS	568606604, .	.06,07,	08,09	(AF)	
DY44820	DY44851	DY44858	DY44889	DY45037	DY45063
DY45070	DY45076	DY45097	DY45103	DY45114	DY45123
DY45141	DY45166	DY45167	DY45175	DY45182	DY45190
DY45195	DY45196	DY45229	DY45252	DY45253	DY45254
DY45265	DY45266	DY45275	DY45290	DY45299	DY45306
DY45309	DY45324	DY45328	DY45329	DY45338	DY45347
DY45348	DY45376	DY45383	DY45385	DY45397	DY45423
DY45424	DY45438	DY45452	DY45460	DY45462	DY45466
DY45467	DY45475	DY45507			
DY45502	DY45516	DY45525	DY45526	DY45528	DY45530
DY45537	DY45540	DY45545	DY45547	DY45551	DY45556
DY45557	DY45564	DY45568	DY45573	DY45580	DY45586
DY45593	DY45619	DY45623	DY45626	DY45629	DY45636
DY45639	DY45644	DY45655	DY45658	DY45676	DY45677
DY45683	DY45684	DY45685	DY45686	DY45698	DY45712
DY45726	DY45739	DY45758	DY45767	DY45773	DY45779
DY45785					
COMPONENT	568606605 (V	SAM)			
DY44838	DY44859	DY44876	DY45044	DY45075	DY45090
DY45107	DY45135	DY45136	DY45137	DY45255	DY45256
DY45264	DY45336	DY45351	DY45310	DY45311	DY45312
DY45409	DY45349	DY45442	DY45491	DY45425	DY45439
DY45473					
DY44814	DY44996				
DY45529	DY45536	DY45538	DY45539	DY45571	DY45589
DY45596	DY45612	DY45617	DY45618	DY45630	DY45631
DY45645	DY45654	DY45661	DY45667	DY45687	DY45693
DY45696	DY45751	DY45764	DY45778		
COMPONE	NT 568606630	(OSA/SF)			
PQ06993	PQ06292	PQ03091	PQ11504	PQ16071	
COMPONE	NT 568606610	(ICCF)			
PN73312	PN73314	PN79224	PN80038	PN85665	PN88902
PQ11175	502.			30000	
PQ22701	PQ30054	PQ33539	PQ22257	PQ36354	
COMPONE	NT 568606611	/EASTCORY	`		
		`	,		
DY44060	DY44121	DY44214			

COMPONE	NTs 568606	6612, 568606616	(REXX)		
PQ22016 PQ41345	PQ24982 PQ42277	PQ33431 PQ44022	PQ31258 PQ47519	PQ51117	
COMPONENT DY44219	568606613	(OLTEP)			
TCP/IP 1.5	5686-A0400				
PQ11216 PQ14724 PQ19603 PQ27233 PQ39540 PQ40278 PQ45531 PQ46051 PQ46057 PQ46063 PQ54068 PQ69574	PQ11589 PQ16251 PQ19780 PQ27252 PQ39277 PQ43707 PQ46046 PQ46052 PQ46058 PQ46064 PQ55591	PQ11981 PQ18295 PQ20942 PQ28760 PQ43576 PQ46047 PQ46053 PQ46059 PQ46065 PQ60559	PQ12876 PQ18354 PQ21691 PQ29052 PQ43577 PQ46048 PQ46054 PQ46060 PQ52348 PQ60560	PQ14716 PQ19496 PQ24008 PQ29053 PQ43581 PQ46049 PQ46055 PQ46061	PQ14718 PQ19507 PQ26600 PQ39048 PQ45314 PQ46050 PQ46056 PQ46062 PQ66906
·	.2 5686-066	32 (LE Base)			
PQ06256 PQ41085 PQ53289	PQ23918 PQ42663	PQ06598 PQ43208	PQ39636 PQ45709	PQ09262 PQ48405	PQ42344 PQ51136
LE/VSE 1.4.	2 5686-066	33 (LE C)			
PQ41086 PQ47358	PQ42688 PQ51216	PQ43967	PQ44085	PQ45676	PQ45681
VSE Connectors 5686-06635					
PQ41480 PQ56023 PQ54703	PQ49063 PQ56024 PQ56517	PQ50122 PQ56316 PQ59275	PQ51324 PQ60611	PQ52261 PQ60612	

LE/VSE 1.4.2 5686-09403 (LE COBOL)

PQ40807 PQ43221 PQ50085	PQ41161 PQ45580 PQ51144	PQ41162 PQ48232	PQ42417 PQ48684	PQ42620 PQ49487	
LE/VSE 1.4.	.2 5686-09406	(LE PL/I)			
PQ41162	PQ44662	PQ48684			
CICS/TS 1.1	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 VSE/ESA 2.6.3 at this time.

4.3 Cumulative Service Tape

There is no cumulative service tape for VSE/ESA 2.6.3.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating VSE/ESA 2.6.3.

5.1 System Requirements

5.1.1 Operating System Requirements

VSE/ESA 2.6.3 is an operating system itself and does not require another operating system to run under. Anyway, VSE/ESA 2.6.3 can run as a guest system under the following z/VM systems:

z/VM Version 3 (or later), where VSE/ESA runs in 31-bit mode.

Note that VSE/ESA 2.6.3 runs with supervisor mode ESA only. If you are migrating from a pre VSE/ESA V2 system and running a supervisor with MODE-VM or MODE=VMESA, please see *VSE/ESA Planning*, SC33-6703, Chapter: Planning for Migration.

Additional information is available in

- z/VM Version 3 Release 1, Running Guest Operating Systems, SC24-5950,
- z/VM Version 4 Release 1, Running Guest Operating Systems, SC24-5997
- VSE/ESA Installation, SC33-6704.

5.1.2 VSE/ESA Processor Support

VSE/ESA 2.6.3 supports ESA/390 **uniprocessors** and **multiprocessors** of the following IBM System/390 processor series:

```
IBM eServer zSeries 800
```

IBM eServer zSeries 900

IBM eServer zSeries 990

IBM S/390 Multiprise 2000

IBM S/390 Multiprise 3000

IBM S/390 Integrated Server

IBM S/390 Parallel Enterprise Server - Generation 3

IBM S/390 Parallel Enterprise Server - Generation 4

IBM S/390 Parallel Enterprise Server - Generation 5

IBM S/390 Parallel Enterprise Server - Generation 6

IBM S/390 9672 Parallel Enterprise Server

IBM ES/9000

VSE/ESA 2.6.3 provides "n-way" support for the multiprocessor models of these processor series through the VSE/ESA Turbo Dispatcher.

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

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

5.1.3 Processor Details

Please refer to VSE/ESA Planning SC33-6703 for an actual list or the processors supported by VSE/ESA 2.6.3

5.1.4 Minimum System Configuration

VSE/ESA 2.6.3 requires the following minimum system configuration:

- 16MB of processor (real) storage.
 - Since the processor storage available is usually much higher, this value is mainly of interest if VSE/ESA is running in LPAR mode or under z/VM.
- About 916MB (environment A) or about 1030MB (environment B) of disk device space on two volumes, DOSRES and SYSWK1, as outlined in VSE/ESA Planning, SC33-6703.
- A tape or cartridge unit supporting the distribution medium.
- A system printer. This may be a channel-attached or adapter-attached printer controlled by VSE/POWER or a local terminal printer controlled by CICS. A terminal printer should have a minimum speed of 300 lines per minute.
- A display station. This can be a terminal or programmable workstation of any supported type.
- The system console. This can be an integrated console or any display station supported as system console.

5.1.5 DASD Storage Requirements

Please see: VSE/ESA Planning, SC33-6703 for (VSE/ESA 2.6.3) for storage requirements.

6.0 Special Considerations

Information on VSE/ESA base and optional programs

6.1 Tips and Hints for VSE/ESA Base Programs

6.1.1 VSE/ESA Fast Service Upgrade (FSU)

There will be no Fast Service Upgrade provided from releases prior to VSE/ESA 2.4.0. For an FSU from VSE/ESA 2.4.x, be aware of the changed tape layout. In any case, first run the prepare step, afterwards you should 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 VSE/ESA 2.6 *Planning* manual.

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

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

With VSE/ESA 2.6.3 the system default FCT settings are migrated into the CICS CSD file. After the FSU from VSE/ESA 2.4 message 'DFHAM4803F applid Install failed because an existing definition for file 'FILE' could not be deleted' is displayed. This is due to the fact that the SIT refers to FCT=SP and therefore the FCT definition is used instead of the CICS RDO definition. You should change the SIT to FCT=NO to avoid the message. CICS will use the CSD base file definition.

If FSU is used to upgrade from VSE/ESA 2.6.0, 2.6.1 or 2.6.2, the downlevel check and also FSU installation (step DTRFSU15) will issue the message:

M231D INSTALLATION WILL OVERWRITE PRODUCT DS21GO ENTER "DELETE" OR "KEEP"

Please enter "KEEP".

6.1.2 SSL Client Authentication

With VSE/ESA 2.6.3 it is possible to assign a VSE user ID to a client certificate and use the access rights of this user ID for the client. Therefore the service BSSDCERT was introduced. Details about BSSDCERT can be found at VSE/ESA e-business Connectors User's Guide

For CWS/SSL see also 'CICS TS for VSE/ESA: Enhancements Guide' .

6.1.3 Unattended Node Support - Environment C

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

6.1.4 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/ESA customers but may be required by vendor products. Vendors who have a need for these interfaces should contact VSE/ESA development by sending a note to VSE@de.ibm.com

6.1.5 Restriction of the MSHP TAILOR Function

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

EXECute ASSEMBLY

EXECute ASSEMBLY, LNKEDT

EXECute ASSEMBLY, LIBR

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

Message

OSO5I PHASE ASSEMBLY NOT FOUND

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

6.1.6 Implementation of LCDD for the 3494 Tape Library Dataserver

The LCDD (Library Device Control Driver for VSE/ESA) source is included in VSE/ESA 2.6.

For LCDD commands please review SC33-6740, but be aware that LCDD is installed into IJSYSRS.SYSLIB and the sample startup JCL to tailor is in ICCF LIB 59.

6.1.7 Device Support Facilities, Release 17

VSE/ESA 2.6.3 contains a new release of ICKDSF: 1.17. For details please see the Program Directory for 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 Kit CD: SK2T-0060.

Both publications are also available from the VSE home page at

http://www-1.ibm.com/servers/eserver/zseries/os/vse/

6.1.8 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 DFH\$SVEX is used.

6.1.9 SVA Setup

With VSE/ESA 2.6.3 LE Base and C-Runtime routines are loaded into the SVA. For details see VSE/ESA Planning SC33-6703. 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.

6.1.10 Telnet Terminal Definition and Autoinstall

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

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

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

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

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

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

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

6.1.11 DITTO

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.

6.1.12 Language Environment for VSE/ESA (LE/VSE 1.4.2)

6.1.12.1 Overview: Except for the DBCS Locale component, all LE/VSE components are shipped as part of the VSE/ESA 2.6.3 base system.

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

Component-ID	CLC	Description
5686-066-32	65K	LE Common base, containing information written in: - Uppercase and mixed-case US English - Japanese NLF
5686-066-33	65L	LE C-specific base, containing information written in: - Uppercase and mixed-case US English - Japanese NLF
5686-066-34	65M	Optional LE DBCS Locale Component (see note below)
5686-094-03	6EW	LE COBOL-specific base and CICS, containing information written in: - Uppercase and mixed-case US English - Japanese NLF
5686-094-06	6EX	LE PL/I-specific base, containing information written in: - Uppercase and mixed-case US English - Japanese NLF

Notes:

1. The LE Base (\$SVACEE) and C Runtime (\$SVAEDCM) are pre loaded in the SVA. Please also see the VSE/ESA Planning Guide, SC33-6703.

Please notice that option modules (e.g.) CEECOPT.PHASE and CEEDOPT.PHASE are included in \$SVACEE. Changing run-time options for batch and CICS environment therefore requires a SVA re-load via SET SDL command from BG partition. Supplied skeletons CEEWCOPT and CEEWDOPT in ICCF library 62 will take this into consideration.

2. The optional LE/VSE 1.4.2 DBCS locale component is shipped on the VSE/ESA 2.6.3 Extended Base

For more information, please see the VSE/ESA Release Guide SC33-6718

6.1.12.2 Modifying the Behavior of the COBOL Reusable Environment (optional):

The COBOL reusable environment behavior can be modified to control how program checks are handled that occur in a non-Language Environment conforming driver. The COBOL reusable environment is established with the RTEREUS run-time option or a call to IGZERRE INIT.

Use the IGZWARRE sample job to change the behavior of COBOL's reusable environment. You must modify the IGZRREOP macro invocation, depending on the function that you want.

To run with VS COBOL II and DOS/VS COBOL run-time compatibility mode (i.e., the user has control of program checks that occur when the COBOL reusable environment is dormant, resulting in an additional performance cost), use:

IGZRREOP REUSENV=COMPAT

To run with optimum performance (i.e., Language Environment intercepts all program checks that occur when the COBOL reusable environment is dormant and converts them to CEE3321C/CEE3320C, resulting in improved performance), use:

• IGZRREOP REUSENV=OPT

See LE/VSE Customization Guide for related information.

- 6.1.12.3 Mixed Language Applications under LE/VSE (involving Assembler): When creating or maintaining mixed language applications in an LE/VSE environment various supported techniques are available. In general the following macros and services can assist to ensure operating LE/VSE-conform.
- LE/VSE assembler macros (CEEENTRY/CEETERM)
- LE/VSE preinitialization service (CEEPIPI)
- LE/VSE C-specific macros (EDCPRLG/EDCEPIL)

Examples and further details not covered here are available on LE/VSE Home Page via "http://www.IBM.com/servers/eserver/zseries/os/vse/le/samples.htm"

6.1.12.4 Summary of LE/VSE Customization and IVP-Jobs in IUI: This is a list of LE/VSE related jobs, pre-installed in ICCF library 62. These members can assist you in various verification and customization tasks.

ICCF Member	Purpose and Function
CEECCSD	LE/VSE base program definitions (CICS)
CEEWCCSD	Skeleton for enabling LE/VSE program definitions (CICS)
CEEWCEXT	Identify abnormal termination exit to LE/VSE (CICS)
CEEWCOPT	Installation-wide default LE/CICS run-time options
CEEWCXIT	Installation-wide assembler user exit
CEEWDCD0	Card-device run-time LIOCS phase
CEEWDDU0	Diskette-device run-time LIOCS phase
CEEWDEXT	Identify abnormal termination exit to LE/VSE (batch)
CEEWDOPT	Installation-wide default LE/batch run-time options
CEEWDPR0	Printer device run-time LIOCS phase
CEEWDXIT	Installation-wide assembler user exit (batch)

ICCF Member	Purpose and Function
CEEWHLLX	High level language user exit
CEEWINFG	Collect system status information related to LE/VSE
CEEWINFR	Summarize/condense information generated via CEEWINFG
CEEWIVP1	Verification of Assembler program interface
CEEWIVP2	Verification of LE/VSE COBOL Component
CEEWIVP3	Verification of LE/VSE PL/I Component
CEEWIVP4	Verification of LE/VSE C Component
CEEWIVP5	Verify the LE/VSE C Prelink Utility
CEEWMSVA	LE/VSE base routines eligible for putting into the SVA
CEEWUOPT	Application specific run-time options
CEEWUXIT	Application specific assembler user exit
EDCCCSD	LE/VSE C-specific program definitions (CICS)
EDCLLOCL	Changing the C locale time information
EDCUCSD	Optional codeset converters (CICS)
EDCWMSV1	LE/VSE C-specific routines eligible for SVA
IBMCCSD	LE/VSE PL/I-specific program definitions (CICS)
IBMSVA1	LE/VSE PL/I-specific routines eligible for SVA
IGZCCSD	LE/VSE COBOL-specific program definitions (CICS)
IGZWARRE	Customize behavior of COBOL reusable environment
IGZWEPAC	COBOL COBPACK tailoring
IGZWEPCC	COBOL COBPACK tailoring
IGZWEPCO	COBOL COBPACK tailoring
IGZWESV1	LE/VSE COBOL-specific routines eligible for SVA
SKLE370	LE/VSE CICS CSD entries in GROUP(CEE) (in ICCF lib 59)
CEETSCSD (*)	Sample code for USESVACOPY(YES) alteration, LE Base under CICS TS (pre-customized for VSE/ESA 2.6.3)
EDCTSCSD (*)	Sample code for USESVACOPY(YES) alteration, LE C under CICS TS (pre-customized for VSE/ESA 2.6.3)
IGZTSCSD (*)	Sample code for USESVACOPY(YES) alteration, LE COBOL under CICS TS (optional !)
IBMTSCSD (*)	Sample code for USESVACOPY(YES) alteration, LE PL/I under CICS TS (optional !)
EDCXYDLY (#)	Sample C/VSE code exploiting new LE/VSE Callable Service CEE5DLY (introduced with LE 1.4.2)
IGZTDLY (#)	Sample COBOL/VSE code exploiting new LE/VSE Callable Service CEE5DLY (introduced with LE 1.4.2)

Notes:

- 1. Members marked (#) provide sample code for new LE/VSE Callable Service CEE5DLY. Please refer to the LE/VSE 1.4.2 overview section in the VSE/ESA Release Guide for further details.
- 2. Skeleton SKLE370 is located in ICCF lib 59. It reflects a pre-customized status of the shipped CICS region (for VSE/ESA 2.4 (and later) this is a CICS TS based DBDCCICS). Hence there is no need to run SKLE370 unless LE/VSE definitions are modified or reestablished. For example this may apply when a second CICS region is built. Be aware that you need LE/VSE C-specific support in order to start CICS TS, respectively make use of Debug Tool for VSE/ESA (orderable feature of LE/VSE enabled compilers).
- 3. All members marked (*) are sample code containing LE/VSE 1.4.2 component specific DFHCSDUP ALTER commands for USESVACOPY(YES) enablement under CICS Transaction Server. Please be aware that this change has to go along with a CICS SIT parameter setting of SIT SVA=YES as well as load of corresponding \$SVAxxxx loadlists. For details and possible impacts in a CICS coexistence environment please refer to CICS TS documentation and VSE/ESA Planning Guide.

For VSE/ESA 2.6.3 the delivered system is pre-customized with SIT SVA=YES:

- a. Making use of SVA loadlists \$SVACEE (LE/VSE 1.4.2 Base) and \$SVAEDCM (LE/VSE 1.4.2 C).
- b. Shipping USESVACOPY(YES) enabled CICS CSD definitions via GROUP(CEE) for LE/VSE 1.4.2 modules contained in these loadlists. Therefore do NOT run CEETSCSD and EDCTSCSD on this level.

Additional information:

A set of new Z-books (allowing direct DFHCSDUP input) was provided to support the preload issue. Actually members CEETICSD.Z and EDCTICSD.Z which are integrated in common base install and service upgrade procedures. The LE COBOL and LE PL/I specific Z-books (IGZTICSD and IBMTICSD) complement this set (but aren't preloaded).

6.1.12.5 Languages and CICS Transaction Server: CICS Transaction Server for VSE/ESA supports:

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

CICS Transaction Server does not support:

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

6.1.12.6 Generating Applications Capable of Running Under LE/VSE: Be aware of the Interactive Interface support (Primary Library, OPTION 8, translate and compile ...) in order to build your applications.

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

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

6.1.12.7 AMODE 24 Applications in a LE/VSE-initialized CICS Environment: Under CICS, the supplied default LE/VSE run-time options ALL31(ON) and STACK(4K,4K,ANYWHERE,KEEP) are present.

These settings improve performance and storage utilization for a CICS region running AMODE31 programs or applications that use CICS services to invoke AMODE24 programs from AMODE31 applications. This is applicable unless AMODE31 programs dynamically call AMODE24 programs (which are not automatically enabled for AMODE switching). In such cases a setting off ALL31(OFF) and STACK(4K,4K,BELOW,KEEP) is recommended/required. You may wish to implement it by use of an appropriate CEEUOPT.OBJ linked with an application.

Note: LE/VSE Customization Guide, Chapter 2 shows an example on how to build a CEEUOPT (application specific run-tune option module).

Detailed information about run-time option changes are available in IBM LE/VSE R4 Customization Guide, SC33-6682.

6.1.12.8 Run-Time Options to Use with Caution: You may find these tips valuable in your environment:

- Use LE/VSE run-time option TERMTHDACT(UADUMP) for diagnosis in a batch environment. It generates a VSE partition dump and a corresponding LE/VSE dump. For problem determination under both CICS/VSE and CICS TS it is recommended to specify TERMTHDACT(DUMP).
 - Please also be aware that use of TERMTHDACT (UADUMP) with database managers will bypass backout processing that may be required after application failure. Any files still open at point of failure will not be closed. Additional reference will be available via Info APAR II11817.
- The default run-time option HEAP(..,ANYWHERE,..) is important because of the correlation to COBOL compile options DATA(24/31), RMODE and RENT. Be aware that there is a 64k limit for CICS/VSE GETMAIN storage requests below the 16MB line. Avoid HEAP(BELOW) it ignores the COBOL DATA(xx) compile setting for location of dynamic data areas (such as working storage)!
- Setting TRAP(ON,MAX) ensures LE/VSE's integrity when handling abnormal conditions. TRAP(OFF) should only be activated on request of IBM service personal.
- The 3rd parameter of the STORAGE run-time option can be of importance in PL/I migration environments. It deals with PL/I automatic variable storage and provides an initialization service in case the programming style did not consider start values for variables. However the associated performance impact can be significant (dependent on how the application is coded). Since it deals with the LE/VSE stack it can degrade overall run-time performance for all languages! Therefore a setting of STORAGE(00,NONE,00,xk) should be used very strictly, respectively application specific (e.g. via tailored CEEUOPT.OBJ or JCL PARM override).

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

CICS/VSE System Definition Table (SIT):

COBOL2=NO

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

PL1=NO

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

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

If there are VS COBOL II run-time PPT entries

- Do *not* include copy-book *IGZ9PPT.A* in your PPT
- Recompile your CICS PPT in order to update control information

- Recycle CICS via cold-start. This should be done once in conjunction with topic "Member SKLE370 provides LE/VSE support for CICS/VSE".
- If there are CICS CSD entries for VS COBOL II modules IGZCPAC & IGZCPCC (instead of macro definitions) - ensure they are removed

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

- Do *not* include the VS COBOL II copy-book, *IGZ9PPT.A* in your PPT. Instead include the copy-book, IGZCPPT.A, supplied in PRD2.SCEECICS.
- Recompile your CICS PPT
- Recycle CICS via cold-start
- 6.1.12.10 CICS Translator Options Required for COBOL Applications: For COBOL/VSE or VS COBOL II online programs (VS COBOL II must at least be relinked to involve LE/VSE run-time) one of the following CICS/VSE or CICS TS translator options must be used. This will apply to mainline programs as well as to COPY-books that may be translated separately.
- XOPTS(COBOL2) was a minimum setting for VS COBOL II type programs, preferable matching the ANSI74 standard. It may also be used in a COBOL/VSE context.
- XOPTS(ANSI85) implies COBOL2 and can also be applicable for COBOL/VSE or VS COBOL II compiled program units. However these settings are appropriate in case the application exploits ANSI85 functionality such as nested programs.
- XOPTS(COBOL3) is a CICS TS only translator option which you may wish to use as an indicator for a COBOL/VSE or SAA AD/Cycle COBOL/370 cross compile program unit. It implies ANSI85 and COBOL2. By the way CICS TS doesn't support the SIT COBOL2 parameter since the run-time must be LE/VSE. Please refer to CICS Transaction Server documentation for more details.

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

6.1.12.11 LE/VSE Related Service via Ordering PSP Bucket Please use VSE/ESA specific PSP buckets for upgrading LE/VSE. This package is named "VSEESA26x" (where x is the modification level). It can be ordered via IBM service teams. The related subset for LE/VSE 1.4.2 is named "IBMLANG/65K". Of further interest can be CICS subsets ensuring synchronization with LE/VSE.

6.1.12.12 LE/VSE Messages: In addition to the LE/VSE messages described in the manual LE/VSE Debugging & Run-Time Messages, the following messages may also be shown:

CEEL011S REQ=regid Failed at: block VSE-RC/REAS=??/?? / PWR-RC/FDBK=??/??

Explanation While attempting to output a LE dump to the VSE/POWER LSTQ, a failure

> occurred. The VSE-RC/REAS fields refer to XPCC return code and reason codes. The PWR-RC/FDBKfields refer to VSE/POWER Spool access return and reason codes. Dump production for this application is prematurely

terminated.

Programmer Response Refer to the appropriate VSE manual using the displayed return and reason

codes. Correct the error referred to before attempting to use the LSTQ output

destination again.

System Action Dump production is terminated. The dump is lost.

Symbolic Feedback Code None.

CEE3557W - Write to LSTQ has failed. Dump production aborted for this process

While attempting to output a LE dump to the LSTQ destination, a failure has **Explanation**

occurred. Refer to message CEEL011S displayed on the VSE operators

console for more information.

Programmer Response Refer to message CEEL011S for error diagnosis information.

System Action The application terminates and the dump is lost.

Symbolic Feedback Code None.

6.1.12.13 LE/VSE Documentation Links

http://www.ibm.com/servers/eserver/zseries/os/vse/le/books.htm

The link also provides a 'doc sorted by LE/VSE release' view.

• LE/VSE V1R4 Programming Reference has been updated for the March 2002 Softcopy Collection Kit SK2T-0060 and placed into the VSE/ESA 2.6 bookshelf.

6.1.13 TCP/IP for VSE/ESA

With VSE/ESA 2.6.3 APAR PQ69970 (aka SERV150B) was installed as the current service level for TCP/IP for VSE/ESA.

The functional update of the TCP/IP for VSE/ESA 1.3 or 1.4 program (IBM program number 5686-A04) to release level 1.5 was introduced with APAR PQ66906.

The documentation for TCP/IP 1.5 for VSE/ESA is available on the Softcopy Collection CD-ROM SK2T-0060.

On the CD-ROM you will find 7 books with the original program description from Connectivity Systems Incorporated, the provider of the TCP/IP for VSE 1.5 program, plus one manual describing the setup of the TCP/IP for VSE/ESA program IBM is providing. The books are as follows:

- TCP/IP for VSE/ESA IBM Program Setup and Supplementary Information
- TCP/IP for VSE 1.5 Installation Guide
- TCP/IP for VSE 1.5 User's Guide
- TCP/IP for VSE 1.5 Operator Commands
- TCP/IP for VSE 1.5 Programmer's Reference
- TCP/IP for VSE 1.5 Messages
- TCP/IP for VSE 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/ESA 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.

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

http://www.adobe.com

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

http://www-1.ibm.com/servers/eserver/zseries/os/vse/

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.

6.1.14 Installation of VSE Connector Client

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

http://www.ibm.com/servers/eserver/zseries/os/vse/support/vseconn/conmain.htm

6.1.15 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/os/vse/support/vseconn/conmain.htm

6.1.16 CWS Client Authentication

Starting with VSE/ESA 2.6.1 the CICS Web Support (CWS) supports SSL Client Authentication. The Interactive Interface now includes a new 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.
- VSE/ESA e-business Connectors User's Guide, SC33-6719

and the VSE/ESA Internet page at http://www.ibm.com/servers/eserver/zseries/os/vse/

6.1.17 Known Impact on Vendor Software

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

LO05042 for FAQS/PCS EP51270 for EPIC

6.2 Publication Updates

6.2.1 Accessing VSE/ESA Performance Documentation

You can receive up-to-date performance information for VSE/ESA from the Internet or from the VSE CD-ROM Collection SK2T-0060.

From the internet, access and get these documents via the VSE/ESA homepage http://www-1.ibm.com/servers/eserver/zseries/os/vse/library/vseperf.htm

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

7.0 Installation Instructions

There is no further information for VSE/ESA 2.6.3

8.0 VSE/ESA 2.6.3 Install Logic

There is no further information for VSE/ESA 2.6.3

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9.0 Reader's Comments

Program Directory for VSE/Enterprise Systems Architecture Version 2

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1	2	3	4	5	N	

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

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