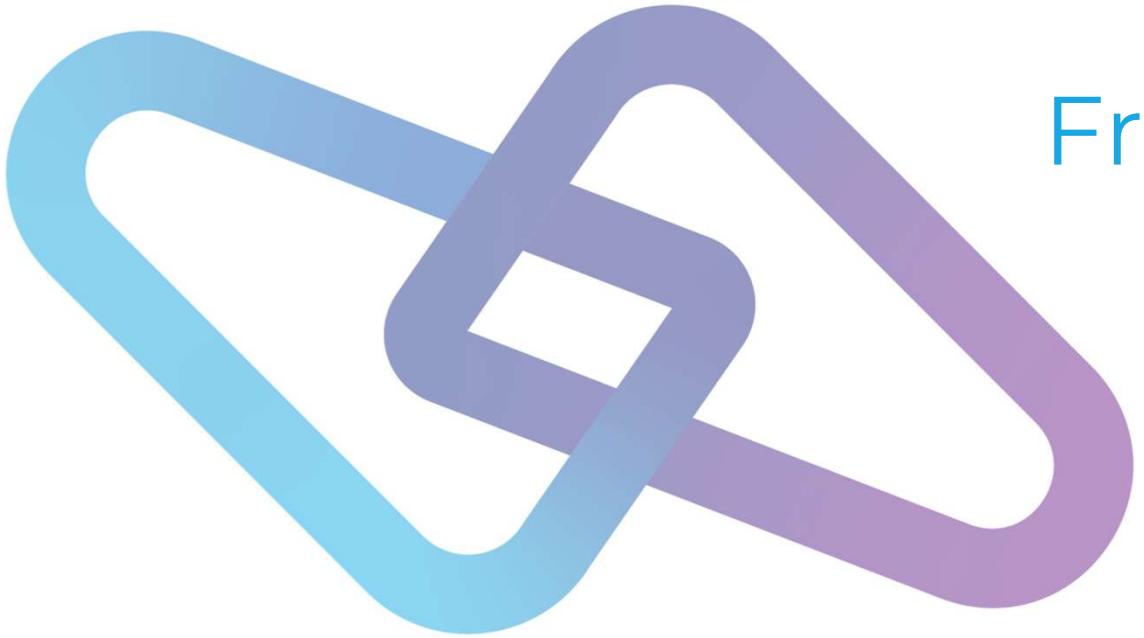

Fresh Installation of VSE^{n} 6.3

Shahin R Krishna
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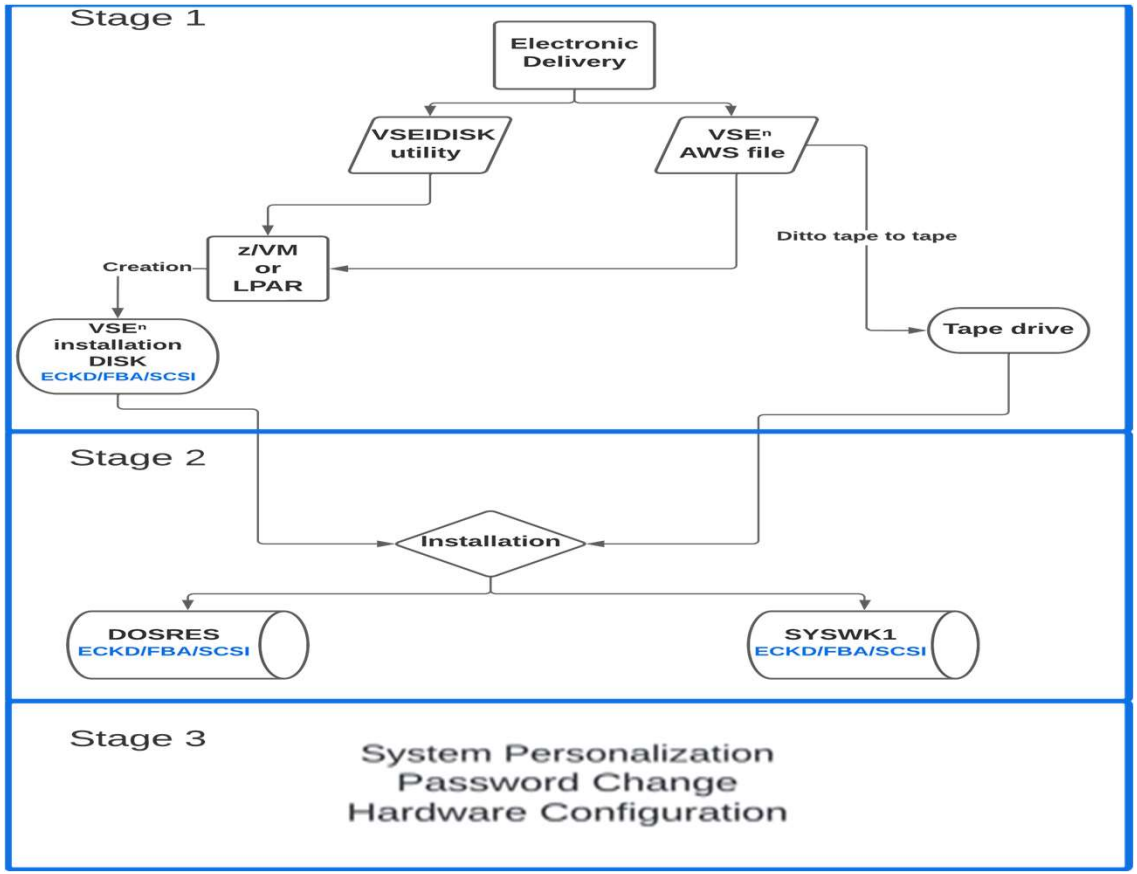
Agenda

- Why a fresh installation?
- Installation Stages
  - IDISK
  - Installation
  - Post Installation
- Conclusion

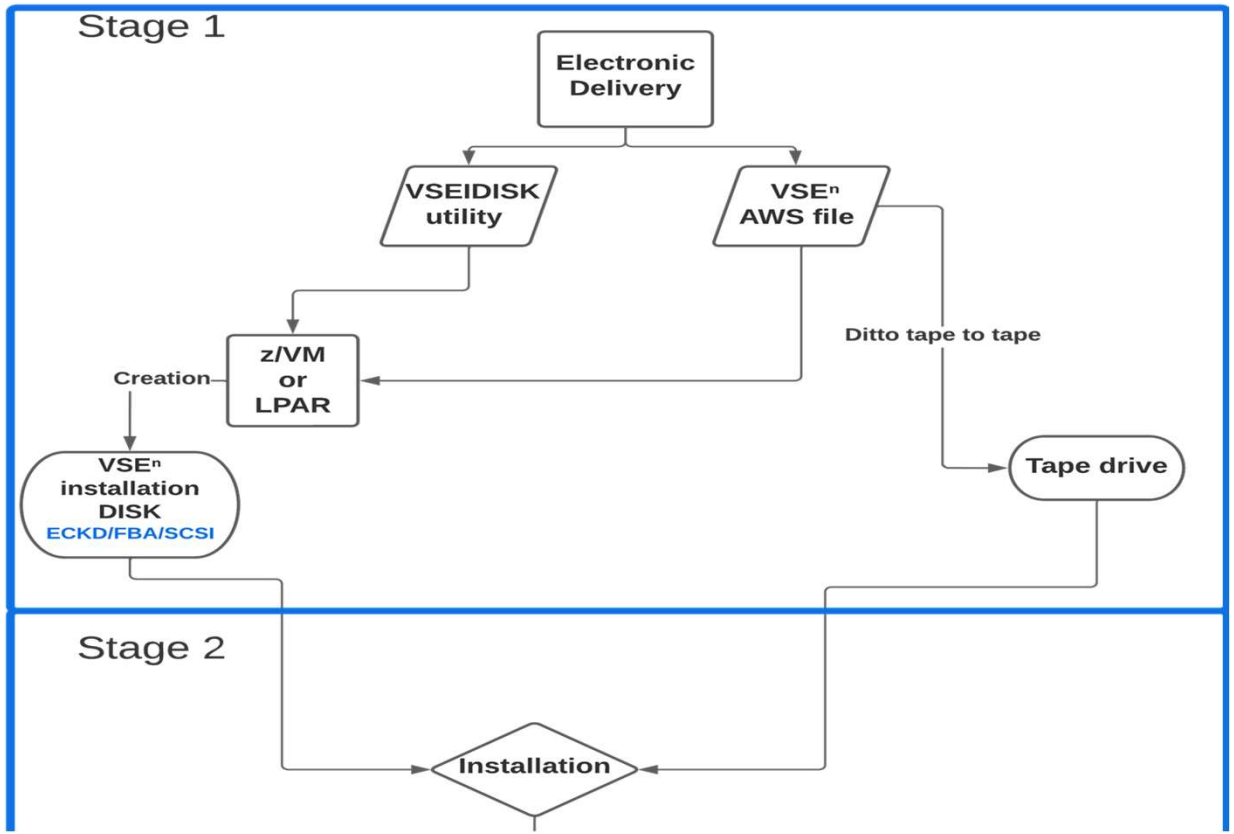
Why a Fresh Installation?

- FSU is not supported on versions prior to IBM z/VSE 5.2
- A change of the system disk architecture (DOSRES, SYSWK1)
- A change of the system language
- A switch from the 2-digit subarea naming convention to the 4-digit subarea naming convention

Installation Stages



Stage 1:



Continued

Type	Minimum Capacity
IBM 3390 DASD	500 Cylinders
FBA (IBM z/VM Virtual Disk or Emulated FBA or Minidisk)	6,00,000 Blocks
FCP-attached SCSI	6,00,000 Blocks

Please note: IBM 3380 DASD is not supported

Continued

VSEIDISK.EXEC
VSEIDISK.HELPCMS
VSEIDISK.MODULE

For IBM z/VM installation

VSEN630.INS
VSEN630.IPL
VSEN630.PSW
VSEN630D.INS
VSEN630D.LP
VSEN630I.INS
VSEN630I.LP
VSEN630ID.INS
VSEN630ID.LP

For native LPAR installation

install_instructions.txt

Continued

- To create a VSE^{n} Installation Disk under IBM z/VM it is recommended to provide two minidisks.
- At least 322 cylinders are needed of a 3390 CMS formatted disk to accommodate the upload of the VSEIDISK utility programs and the VSEN630.AWS installation tape file.
- The second minidisk will be the installation disk.
- The creation of the second minidisk, or the VSE^{n} installation disk, is done by running the utility programs and the AWS installation tape uploaded to the first minidisk.
- See more information about this topic in **VSE^{n} Version 6 Release 3 Installation** manual.

Continued

- The following files: VSEIDISK.EXEC, VSEIDISK.HELPCMS and VSEIDISK.MODULE extracted from the VSE^{n} Install Kit ZIP file and the VSEN630.AWS installation tape file, should be binary uploaded to the first disk that is CMS formatted.

- There are two ways to upload the files to the CMS minidisk:

  1. Via IND$FILE by using the 3270 emulator UPLOAD function as a BINARY file.

  2. Via FTP binary transfer by using the BINARY mode.

- The binary and record format options should be carefully observed to avoid losing the required characteristics of the files.

Continued

- After uploading the files, it is necessary to deblock the VSEIDISK files in CMS:
- **PIPE < VSEIDISK MODULE M | DEBLOCK CMS | > VSEIDISK MODULE M**
- **PIPE < VSEIDISK EXEC M | DEBLOCK CMS | > VSEIDISK EXEC M**
- **PIPE < VSEIDISK HELPCMS M | DEBLOCK CMS | > VSEIDISK HELPCMS M**

- Replace the filemode M in the commands above with the proper filemode in which the VSEIDISK programs are uploaded.

- After deblocking the files, they should have the following characteristics:

Filename	Filetype	Fm	Format	Lrecl	Records	Blocks
VSEIDISK	MODULE	M1	V	65535	4	26
VSEIDISK	EXEC	M1	V	80	700	5
VSEIDISK	HELPCMS	M1	V	79	155	2

Continued

- To create the the VSE^{n} installation disk on the second 3390 disk allocated with 500 cylinders (assuming **211** as the target disk number), the following command should be done:

- VSEIDISK VSEN630 AWS M 211

  VSE^{n} AWS install tape fn ft fm — Target DISK

- VSEIDISK utility has some optional parameters. To see them all, just type VSEIDISK without any other parameter.

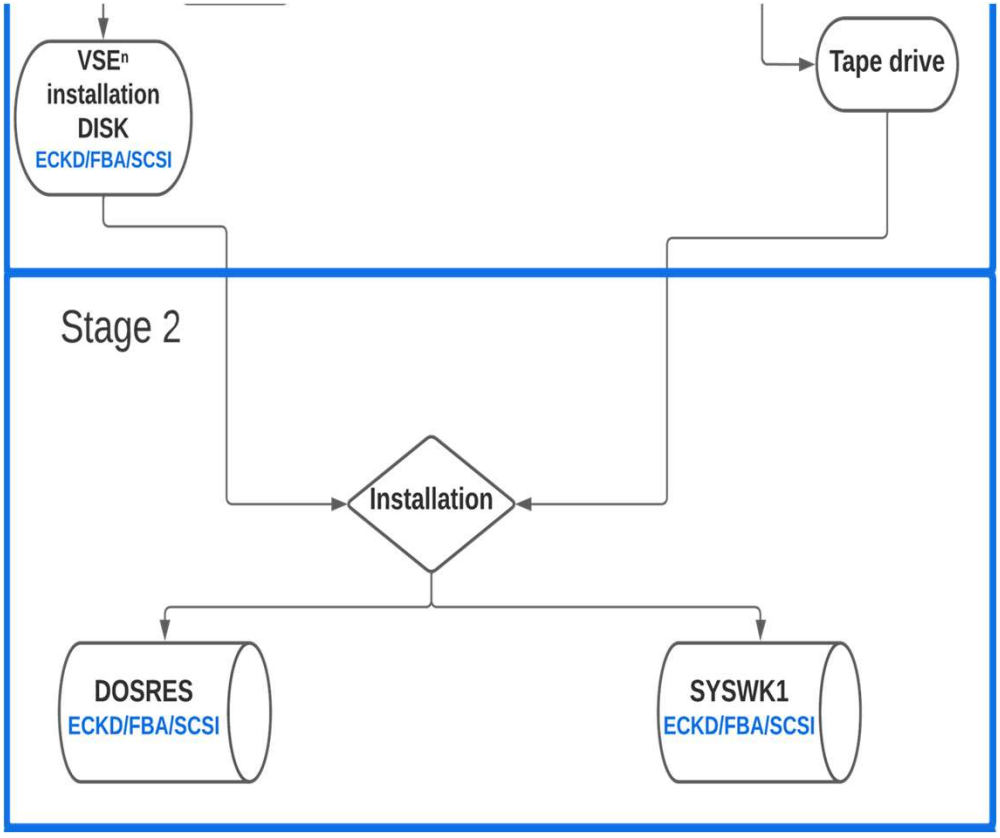
Continued

```
VSEIDISK VSEN630 AWS M 211
IDSK151D REPLY 'CONTINUE' TO ALTER DASD 211, ELSE 'CANCEL'
CONTINUE
IDSK141I FORMATTING VSEn INSTALLATION DISK ...
ICKDSF - CMS/XA/ESA DEVICE SUPPORT FACILITIES 17.0               TIME: 18:06:54
        01/20/23     PAGE   1

ENTER INPUT COMMAND:
 INIT UNIT(211) -
ENTER INPUT COMMAND:
 NOVERIFY -
ENTER INPUT COMMAND:
 VSEVTOC(0,14,1) -
ENTER INPUT COMMAND:
 VOLID(VSENID)
ICK00700I DEVICE INFORMATION FOR 0211 IS CURRENTLY AS FOLLOWS:
          PHYSICAL DEVICE = 3390
          STORAGE CONTROLLER = 3990
          STORAGE CONTROL DESCRIPTOR = E9
          DEVICE DESCRIPTOR = 0C
          ADDITIONAL DEVICE INFORMATION = 48001F3C
          TRKS/CYL = 15, # PRIMARY CYLS = 600
ICK04000I DEVICE IS IN SIMPLEX STATE
ICK00703I DEVICE IS OPERATED AS A MINIDISK
ICK00091I 0211 NED=002107.900.EMC.09.0000000AWMBF
ICK091I   0211 NED=002107.900.EMC.09.0000000AWMBF
ICK03091I EXISTING VOLUME SERIAL READ = VSENID
ICK03096I EXISTING VTOC IS LOCATED AT CCHH=X'0000 000E' AND IS     1 TRACKS.
ICK003D REPLY U TO ALTER VOLUME 0211 CONTENTS, ELSE T
U
ICK01314I VTOC IS LOCATED AT CCHH=X'0000 000E' AND IS     1 TRACKS.
ICK00001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0
          18:06:54    01/20/23
ENTER INPUT COMMAND:
 END

ICK00002I ICKDSF PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0
IDSK143I CREATING VSEn INSTALLATION DISK ...
IDSK000I VSEn INSTALLATION DISK TOOL 6.3.0
IDSK009I INITIALIZING ...
IDSK009I VALIDATING TAPE IMAGE VERSION AND RELEASE ...
IDSK009I GENERATING BOOT RECORDS AND WRITING THEM TO DISK ...
IDSK009I WRITING TAPE IMAGE TO DISK ...
IDSK009I VSEn INSTALLATION DISK CREATED SUCCESSFULLY
Ready;
```

Stage 2: Installation



Installation Part 1: Summary

- IPL from tape or the IDISK
- Formatting DOSRES and SYSWK1
- Placing the VTOC
- Allocation of VSE^{n} System Library
- Restore all of the libraries
- IPL from DOSRES

Installation Part 2: Summary

- **HISTREST** Restoring the system history file
- **VSAMDEFS** Defining VSEⁿ/VSAM catalogs
- **LIBRDEFS** Defining VSEⁿ/VSAM libraries
- **ICCFREST** Restoring the VSEⁿ/ICCF DTSFILE
- **ICCFLOAD** Adding system information to the VSEⁿ/ICCF DTSFILE
- **MACREST** Installing separate base macros
- **LEREST** Restoring LE code
- **NLLIBRES** Restoring language-dependent members
- **NLICFRES** Restoring language-dependent VSEⁿ/ICCF members into DTSFILE
- **BASEREST** Installing VSEⁿ base programs
- **TCPREST** installing TCP/IP and IPv6
- **VSAMINIT** Initializing and loading VSAM clusters
- **DUMPINIT** Initializing info/analysis work files
- **SAVEMEMB** Cataloging members into PRD2.CONFIG and PRD2.SAVE
- **TCPIPCFG** Configuring TCP/IP (optional)
- **TPSTART** Preparing VCDD for VSEⁿ and OLTP for VSEⁿ
- **CLEANUP** Completing initial installation processing
- **CICSICCF** Starting OLTP for VSEⁿ
- **VTAMSTRT** Starting VCDD for VSEⁿ

Stage 3

System Personalization
Password Change
Hardware Configuration

System Shutdown

1. MSG F2,DATA='CEMT P SHUT I'
2. Z NET,QUICK
3. PEND
4. REIPL CUU

Comparison

Table 32: Comparing Initial Installation against FSU

	Initial Installation	FSU
Eligible for:	All users	IBM z/VSE 5.2, 6.1, 6.2. and VSE^n users
Requirements:	No special requirements	(see Required Status of Current System)
Hardware configuration:	Must be done	Kept as is
User profiles, selection panels, application profiles:	Must be migrated	Kept as is (only system data on DOSRES and SYSWK1 replaced)
User-specific data:	Access to VSE^n/VSAM data must be re-established VSE^n/ICCF user libraries must be restored	Kept as is For example: System layout, VSE^n/VSAM data, VSE^n/ICCF file, etc. System startup is to be adapted
VSE^n optional programs:	Must be installed	Should be refreshed
Additional 21CSW or non-21CSW programs:	Must be installed	Should be refreshed
User application programs:	Must be re-established (update of VSE^n/VSAM catalogs, OLTP for VSE^n tables, etc.)	Kept as is (recompile may be necessary)
System Modifications:	Possible	(see Restrictions for System Modifications)

Conclusion

- Screens and functionality are the same
- Product name and version

Thank you