

Fast Service Upgrade from IBM z/VSE to 21CS VSEⁿ 6.3

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Agenda

- Motives
- Considerations
- Tape preparation
- FSU stages
 - Down-level check
 - FSU preparation
 - FSU installation
- Post-Stage 2 Processing

Motives

When is FSU possible?

- IBM z/VSE 5.2, 6.1 or 6.2 FSU is possible
- An English system language
- No change of the system disk architecture (DOSRES, SYSWK1)
- No Switch from the 2-digit subarea naming convention to the 4-digit subarea naming convention.

General Considerations

- Don't modify members in the ICCF system libraries
- Don't delete the user "AAAA"
- Don't save or copy members of IJSYSRS into PRD2.SAVE
- Don't save your own generated Power phases in PRD2.CONFIG or PRD2.SAVE
- PRD2.SAVE must not contain any phases

Backups

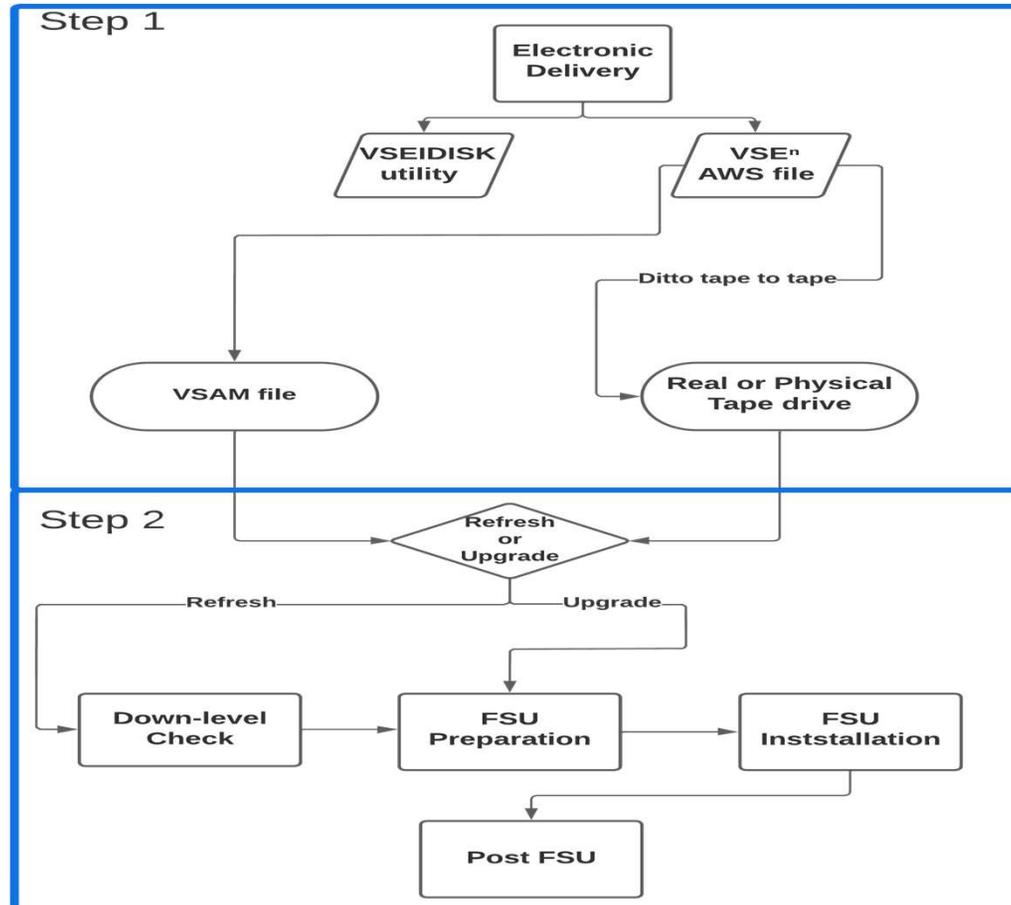
- DOSRES
- SYSWK1
- DITSECUR.PHASE and DITSECUR.A (if you have created your own)

FSU Processing and Space Requirements

- Library names: IJSYSRS.SYSLIB, PRD1.*, PRD2.CONFIG, PRD2.SAVE, PRD2.SCEEBASE, PRD2.TCPIPC, PRD2.TCPIPB
- System volumes names must be DOSRES and SYSWK1
- The Master and User catalog must be available
- From IBM z/VSE 5.2 migrate DTSECTXN to the BSM control file
- Check if there is enough VSAM space available

Manual: VSEⁿ/VSAM Space Considerations for a Release Upgrade via an FSU in Planning and also FSU manual.

Tape Preparation



Prepare FSU from a Real Tape

- Connection to a tape library
- Copy the tape image into a volume
- Mount the volume with LIBSERV

Prepare FSU from a VSAM Virtual Tape File

- Need LFP or TCPIP
- Define two tape units with the type 3490E (for SKVTACPY)
- Define VSAM space in the user catalog
- Connector Tool: VTAPE Server up and running
- Create a virtual tape file with SKVTAPE in ICCF 59
- Use SKVTASTJ in ICCF 59 to catalog TAPESRVR and LDVTA, then load TAPESRVR

Continued

Now the tape image can be transferred into a VSAM file with one of the following methods:

- Using FTP with TCP/IP
- Using LFP and IBM DITTO tape to tape
- Using IND\$FILE transfer to a host transfer file (not recommended)

FSU Stages

1. Down-level Check
2. FSU Preparation
3. FSU Installation

Down-level Check

Version or Release Upgrade	Service Refresh
Do not perform a down-level check	Perform a down-level check Your current system status is checked and compared with the refresh level. This step does not change your system.

- IJSYSRS.SYSLIB
- PRD1.BASE PRD1.MACLIB
- PRD2.SCEEBASE PRD2.GEN1 PRD2.TCPIPC PRD2.TCPIPB

FSU Preparation

Version or Release Upgrade	Service Refresh
<p>Perform the FSU preparation A job stream is created which restores the latest level of the FSU function from tape. In this case, it is the FSU function from the new VSE[®] system.</p>	<p>Perform the FSU preparation A job stream is created which restores the latest level of the FSU function from tape.</p>

1. **DTRSTFSU:** Builds the Job Manager environment.
2. **DTRFSU02:** Loads the FSU program into IJSYSRS.SYSLIB.
3. **DTRFSU03:** Loads FSU skeletons into VSE[®]/ICCF library.
4. **DTRFSU04:** Job Manager Environment clean up.
5. **DTRCLFSU:** Does a final clean up and connect the DTSFILE.

Do not run the FSU Installation dialog until these jobs have completed successfully

FSU Installation

Version or Release Upgrade	Service Refresh
Perform the FSU installation Your system is replaced by the new VSE [®] version.	Perform the FSU installation Your system is replaced by the new service refresh.

FSU installation consist of two stages:

Stage 1: Running From DOSRES

Stage 2: Running From SYSWK1

Stage 1

- Installs IJSYSR1.SYSLIB (base code and NLS) to SYSWK1 and PRD1.MACLIB
- Optionally, the generation feature into PRD2.GEN1

Stage 2

- Restores DTSEFILES (base and NLS)
- Installs LE into PRD2.SCEEEDBASE
- Installs PRD1.BASE products
- Restores the OME
- Refreshes IESTRFL, updates CSD file
- Copies back IJSYSR1, updates refresh level in history file
- Copies back work history file and changes residence information
- Starts basic OLTP and VCDD for first steps on new level

Shutdown the System and REIPL from DOSRES

1. MSG F2,DATA=CEMT P SHUT I
2. Z NET,QUICK
3. PEND
4. REIPL 240,LOADP=...

Post FSU

- Update your selection panels
- Update your application profiles
- Perform OLTP updates
- Add new Keys for TCP/IP
- Order VSEⁿ optional programs and install them after FSU