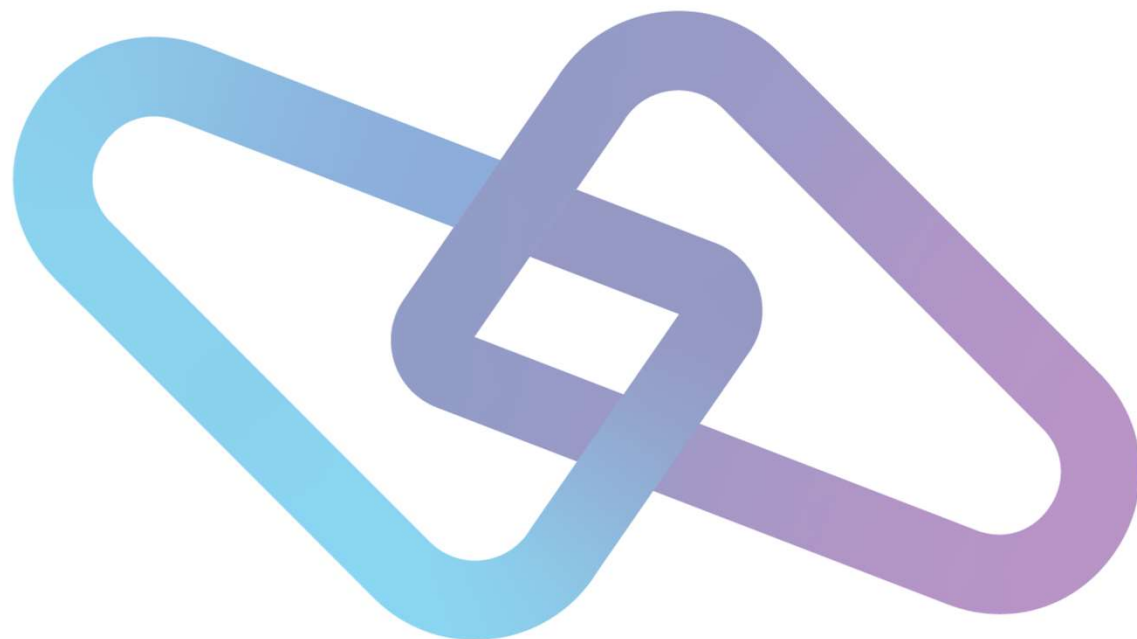# Hints & Tips for VSE^n

Shahin Ram Krishna
Software Engineer, VSE^n R&D

Ordering

Gonzalo Muelas Serrano
VP, VSE^n R+D

Ordering

- For signing contracts (Customer Relation Agreement and Product Order List) we use DocuSign
  – Please check that the req. does not land in the Spam/Junk Email folder

- For downloading the products and for support we use Box
  – Please check that the Box invite does not land in the Spam/Junk Email folder
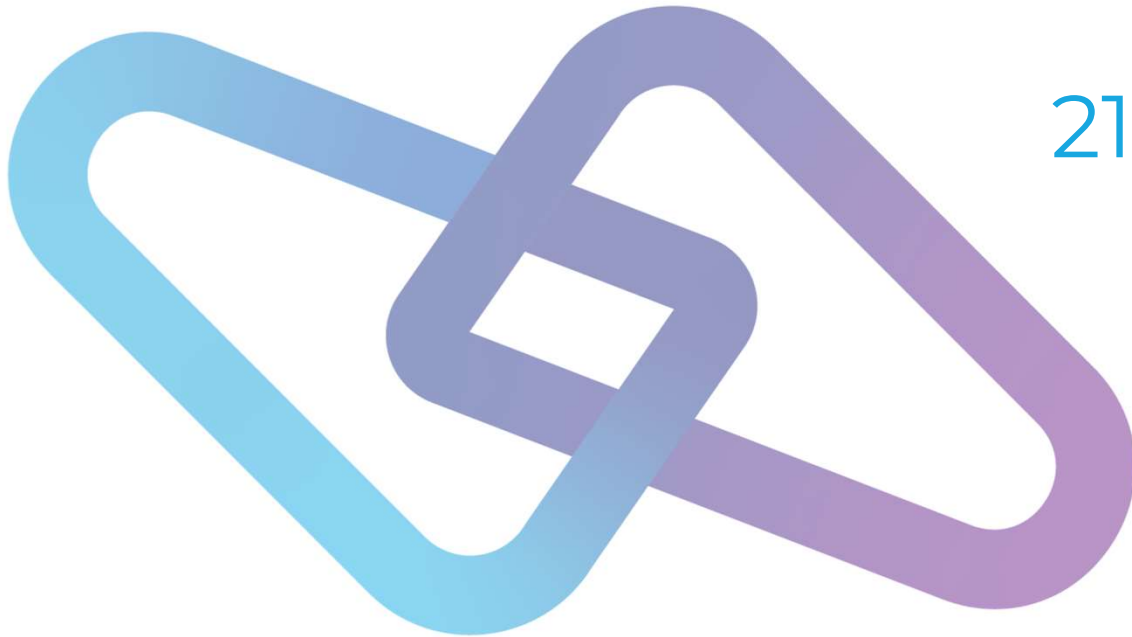
21CS VSE^n Installation and FSU

Shahin Krishna

VSEn 6.3.0 installation disk under z/VM

The **VSEⁿ 6.3.0 Install Kit** contains the utility files to install VSEⁿ under z/VM or in a native LPAR.

The install kit files are used togheter with the supplied VSEN630.AWS install tape file. They are used to create the install disk for both: VSEⁿ install under z/VM and install under Native Z LPAR.

The following files are contained in a ZIP file supplied as the Install Kit:

VSEIDISK.EXEC
VSEIDISK.HELPCMS   } for z/VM install
VSEIDISK.MODULE
VSEN630.INS
VSEN630.IPL
VSEN630.PSW
VSEN630D.INS
VSEN630D.LP   } for native LPAR install
VSEN630I.INS
VSEN630I.LP
VSEN630ID.INS
VSEN630ID.LP
install_instructions.txt

Creating VSEn 6.3.0 installation disk under z/VM

To create a VSE^n Install Disk under z/VM it is recommended to provide two minidisks.

1) It is recommended **400** cylinders of a 3390 CMS formatted disk to accommodate the upload of the **VSEIDISK** utility programs and the VSEN630.AWS install tape file.

2) The recommended size for the install minidisk is one of the following:
- 3390 disk device with at least **500** cylinders.
- FBA disk device with at least **6,00,000** blocks. This can be an IBM z/VM virtual FBA, an IBM z/VM emulated FBA device, or an FBA minidisk.
- FCP-attached SCSI disk device with at least **6,00,000** blocks.

The second minidisk will contain all the required install files and is the disk to be IPL'd to start the install procedure of VSE^n.

The creation of the second minidisk, or the VSE^n install disk, is done by running the utility programs and the AWS install tape uploaded to the first minidisk.

See more infromation about this topic in **VSE^n Version 6 Release 3 Installation** manual.

Creating VSEn 6.3.0 installation disk under z/VM

- · The folllowing files: VSEIDISK.EXEC, VSEIDISK.HELPCMS and VSEIDISK.MODULE extracted from the VSE Install Kit ZIP file and the VSEN630.AWS install 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:

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

- Via FTP binary transfer by using the **BINARY** mode and by specifying **QUOTE SITE VARrecfm** at the FTP prompt after FTP logging to the target CMS machine.

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

Creating VSEⁿ 6.3.0 installation disk under z/VM

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

- Replace the filemode **A**, in the commands above, to the proper filemode letter where the VSEIDISK programs are uploaded.

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

Filename	Filetype	Fm	Format	Lrecl	Records	Blocks
VSEIDISK	MODULE	A1	V	65535	4	26
VSEIDISK	EXEC	A1	V	80	700	5
VSEIDISK	HELPCMS	A1	V	79	155	2

- To create the the VSEⁿ INSTALL DISK in the second 3390 disk allocated with 600 cylinders (assuming **202** as the target disk number), the following command should be done:

VSEIDISK	VSEN630 AWS A	202
	VSEn Install Tape fn ft fm	Target Disk

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

VSEIDISK Execution Example

```
vseidisk vsen630 aws a 202
IDSK151D REPLY 'CONTINUE' TO ALTER DASD 200, ELSE 'CANCEL'
continue
IDSK141I FORMATTING VSEn INSTALLATION DISK ...
ICKDSF - CMS/XA/ESA DEVICE SUPPORT FACILITIES 17.0
         10/22/22    PAGE   1

ENTER INPUT COMMAND:
 INIT UNIT(202) -
ENTER INPUT COMMAND:
 NOVERIFY -
ENTER INPUT COMMAND:
 VSEVTOC(0,14,1) -
ENTER INPUT COMMAND:
 VOLID(VSENID)
ICK00700I DEVICE INFORMATION FOR 0202 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 = 500
ICK04000I DEVICE IS IN SIMPLEX STATE
ICK00703I DEVICE IS OPERATED AS A MINIDISK
ICK00091I 0200 NED=002107.900.EMC.09.0000000AWMBF
ICK091I   0200 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 0200 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
          08:17:37   10/22/22
```

```
ENTER INPUT COMMAND:
 END

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
```

More Information on VSEIDISK Utility

Executing VSEIDISK without any parameters will display the HELP of VSEIDISK utility

```
 COMMANDS VSEIDISK              All Help Information              line 1 of 143
(c) Copyright IBM Corporation 2013, 2016
(C) 21st Century Software, Inc. 2022


 VSEIDISK - VSEn Installation Disk Tool

                                   (1)
                                 .-(----------------------.
>>--VSEIDISK--fn--ft-.-fm-.-vdev-+------------------------+--------------><
                    '-*--'       |    (2)                 |
                                 '-(-----| Options |--.---.-'
                                                     '-)-'
Options:

    .-VOLID=VSENID-.
|--.--------------.--.-------------.-------------------------------------->
    '-VOLID=serial-'  '-OWNER=owner-'

                                            .-NOERASE-.   .-PROMPT---.
>--.--------------------------------------.--.---------.--------------------|
    '-LASTVOLID=serial-.----------------.-'  '-ERASE---'  '-NOPROMPT-'
                       '-LASTOWNER=owner-'

    .-NOSCSI-.
>--.--------.--------------------------------------------------------------|
    '--SCSI--'

    PF1=          2= Top     3= Quit     4= Return      5= Clocate   6= ?
    PF7= Backward 8= Forward 9= PFkeys  10=            11=          12= Cursor

    ====>
                                                    Macro-read 1 File
```

New Installation (not FSU)

- Installing under VM, prior to IPLing from the install medium, remember to do:
  ```
  #CP SET EC ON
  #CP SET RUN ON
  #CP SP RDR CONT EOF CLASS A
  #CP DEF STOR <n>G
  #CP TERM CONM 3270 BREAKIN MINIMAL
  #CP DEF GRAF <cuu1>
  #CP DEF GRAF <cuu2>
  #CP DEF GRAF <cuu3>
  ```
- After fresh installation **re-IPL** is needed
- After install do not forget to do POST/BASE
- After hardware definition **re-IPL** is needed
- The IBM TCP/IP for z/VSE and IPv6/VSE keys, won't work with 21CS derivative products, so you will need to request new key from 21CS for the respective product.
- If Sub-Capacity License is agreed start CMT recording with // EXEC PROC=CMTSTART in USERBG.PROC or other jobs running after IPL.

FSU

- Make sure that FSUPREP (FSU preparation step) is executed successfully before starting with FSU

- Backup your whole system

- For ENV C and when using VSAM for VTAPE you need a new disk to define a new user catalog that you will use to define enough space for the AWS file (250M)

- To transfer the AWS file to a VSAM file you can use IND$FILE or FTP

- VTAM no longer requires a license key. If you are upgrading using FSU change the EXEC card in your VTAM/VCDD start JCL from:// `// EXEC`
  ```
  ISTINCVT,SIZE=ISTINCVT,PARM='CUSTNO=xxxx-xxx-xxxx,VTAMPW=nnnn-n*
             nnn-nnnn-nnnn-nnnn',DSPACE=2M
  ```
- To
  ```
   // EXEC ISTINCVT,SIZE=ISTINCVT,DSPACE=2M
  ```

- The IBM TCP/IP for z/VSE and IPv6/VSE keys, won't work with 21CS derivative products, so you will need to request new key from 21CS for the respective product.

- If Sub-Capacity License is agreed start CMT recording with // EXEC PROC=CMTSTART in USERBG.PROC or other jobs running after IPL.
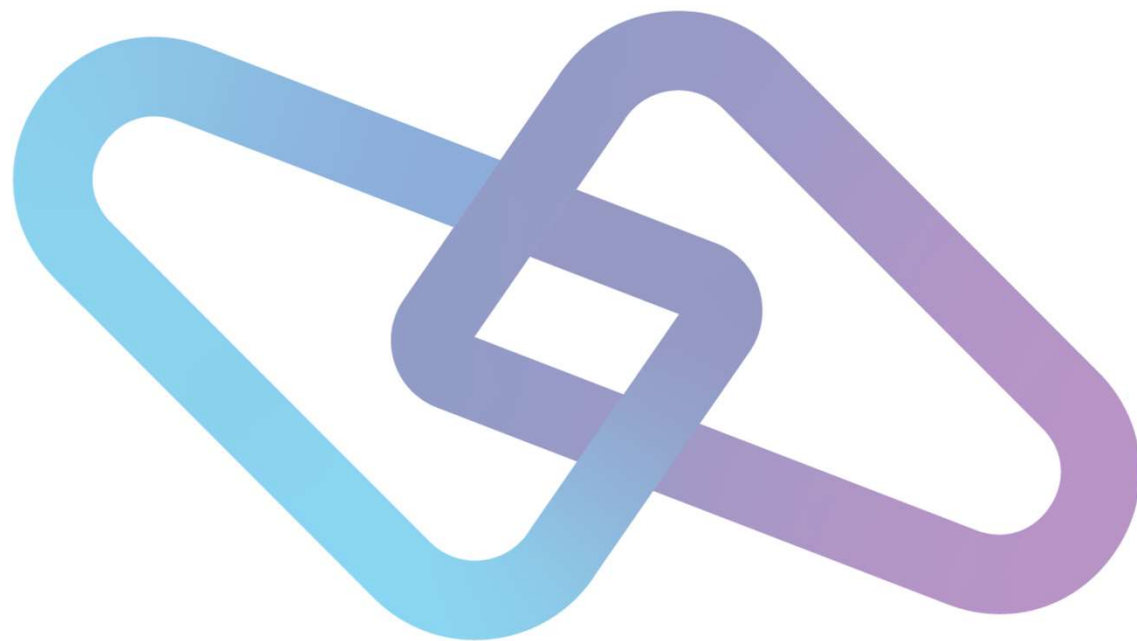
21CS VSE^n Misc.

21CS VSE^n Team

Miscellaneous

- HMC login page doesn't show user messages in forced dark mode of chrome/Microsoft edge. Recommendation is not to use dark mode ☺

- HMC operation (for keyboard fans): The default in HMC dialog prompts are usually "No", so if you just hit enter with the keyboard the "No" option will be chosen, so make sure in HMC that you use your mouse

- IBM PCom (3270 client) session settings are very sensitive to space e.g.: 192.168.0.6 will work fine but 192.168.0.6_ where _=space will create problem

- Define more than one console units, as one unit will be in use throughout the installation.

Miscellaneous

- Always check for the presence of a Job in the Reader queue to avoid duplicate named jobs and releasing a wrong one in the process.
  - Ex: TCPIP00 – if you are plan on submiting a customized one, delete the old one from the reader
- Linux fast path (routing TCP/IP to collocated Linux): Make sure you are using the right LFP socket id in the jobs that require LFP
- The default TAPESRVR job in the reader using socket ID 00. Catalog and load a new TAPESRVR with correct socket ID if your TCP/IP daemon is not using socket ID 00.
- When applying PTF via VTAPE, sometimes PTF is not read or console is waiting, then press enter on VTAPE server command prompt
- TAPESRVR should automatically terminate if no tape is mounted. Sometimes this might take a little longer to complete after the VTAPE STOP is issued. Refrain from issuing a VTAPE START on same unit till TAPESRVR is terminated.

New commands if you were not already on IBM z/VSE 6.2 before

- System setparm parameter with LPAR name

  query setparm,system
  AR 0015 IJBVMID = VSE005
  AR 0015 IJBLPNM = LP03

- Timeout parameter for vtape
  VTAPE START,UNIT= ... TIMEOUT=10

  – Specifies the maximum number of seconds that VTAPE command processing waits for the Tape Data Handler partition to become operational. n must be a decimal number in the range 1 - 900. If the TIMEOUT parameter is omitted, a default of 10 seconds is in effect.

POWER list sorted by size

```
PDISPLAY BIGGEST,LIMIT=nn

d biggest,limit=5
   AR 0015 1C39I COMMAND PASSED TO VSEn/POWER
   F1 0001 1R4BI 005 BIGGEST SORTED C I CARD/LINE    DBGP    QNUM SUF      PAGES QUE
   F1 0001 1R4BI 001 VSAMINIT 00015 A L     24808 0000015 00056         452 LST
   F1 0001 1R4BI 002 DFHDCTC2 00956 Q L      2513 0000005 01820          62 LST
   F1 0001 1R4BI 003 DTSECTRC 01083 Q L      2127 0000004 00007          53 LST
   F1 0001 1R4BI 004 ICCFREST 00013 A L      2256 0000004 00048          71 LST
   F1 0001 1R4BI 005 CICSICCF 00021 A L      2241 0000004 00069          39 LST


• Also available in IUI – FAST PATH 327
```

BIGGEST ENTRIES


```
IESBQUI                   MANAGE BATCH QUEUES

   SELECT one of the following:
      QUEUE......... 7          1 = List Queue
                                2 = Reader Queue
                                3 = Punch Queue
                                4 = Transmit Queue
                                5 = Wait for Run Subqueue
                                6 = In-Creation Queue
                                7 = Biggest Queue
   SPECIFY optionally:          (Only for selections 1 to 5)
      PREFIX........ _____    To list only jobs whose names begin
                                with certain characters
                                (Only valid for selections 1 to 4 above)
      CLASS......... _          To list only jobs in a certain class
      USER.......... _____    To list only this user's jobs
   Or specify:                  (Only for selections 1 to 4)
      SORTED........ _          1 = Oldest entry on top
                                2 = Newest entry on top
                                3 = Earliest entry to expire on top
      LIMIT......... ___        Number of sorted entries to be shown
```

```
IESBQUB              BIGGEST ENTRIES FOR ALL QUEUES           Page  1 of  8

OPTIONS:   1 = DISPLAY      5 = DELETE  8 = SEGMENT  9 = SEGMENT IMMEDIATE

OPT JOBNAME NUMBER CL I CARD/LINE    DBGP  QNUM SFX  PAGES   QUEUE

  _  MQ06DCT  15376  Q L      2775 0000006 01834       63    LST
  _  MQ06DCT  15384  Q L      2759 0000006 01844       63    LST
  _  MQ06DCT  15387  Q L      2985 0000006 01848       69    LST
  _  CICSICCF 15411  A L      2400 0000005 01881       40    CRE
  _  CICSICCF 15406  A L      2178 0000004 01832       39    LST
  _  CICSICCF 15185  A L      2227 0000004 01845       40    LST
  _  MQ07CSD  15429  Q L      2921 0000002 01823       52    LST
  _  MQ07CSD  15426  Q L      2920 0000002 01835       52    LST
  _  MQJCSD24 15416  Q L      2929 0000002 01842       52    LST
  _  MQJCSD24 15432  Q L      2344 0000002 01850       43    LST
  _  STARTVCS 00003  R R        10 0000001 00002             RDR
  _  TAPESRVR 15512  R R        26 0000001 00003             RDR
  _  TCPIP00  00123  7 R        17 0000001 00004             RDR

PF1=HELP      2=REFRESH    3=END        4=RETURN
              8=FORWARD

LOCATE JOBNAME ==> _____
```

More Misc.

- New OPTIONs to set return code if a job cancels

    OPTION ABENDRC=n|NO   With n=0,...,4095 and default NO
    OPTION CANCELRC=n|NO   With n=0,...,4095 and default NO
    OPTION JCANCLRC=n|NO   With n=0,...,4095 and default NO

- The operands are also valid for the STDOPT command

Enhancements to VOLUME command

- Allow the word DISK to limit the output to disk units.

- Allow the display of a disk or tape unit by volume serial number.

    VOLUME using option SERIAL=<volume identifier>

- Allow filtering INACTIVE / ACTIVE for device status

- Allow filtering USED/UNUSED for actual device usage

Enhancements to VOLUME command (cont.)

```
volume active
AR 0015 CUU   CODE   DEV.-TYP  VOLID    USAGE    SHARED  STATUS     CAPACITY
AR 0015 181   5400   VTAP-00   *NONE*   UNUSED                           N/A
AR 0015 182   5400   VTAP-00   *NONE*   UNUSED                           N/A
AR 0015 183   5400   VTAP-00   V00016   UNUSED                           N/A
AR 0015 240   6E**H  2107-900  DOSRES   USED                        3339 CYL
AR 0015 241   6E**H  2107-900  SYSWK1   USED                        3339 CYL
AR 0015 242   6E*BH  2107-900  VSE5W1   USED                        3339 CYL
AR 0015 243   6E*BH  2107-900  VSE5W2   UNUSED                      3339 CYL
AR 0015 244   6E*BH  2107-900  PAVE03   UNUSED                     10016 CYL
AR 0015 900   90     9336-10   SYSWK4   UNUSED                      6216 BLK
AR 0015 FDF   90     FBA0-00   VDIDLA   USED                        2880 BLK
AR 0015 1I40I  READY
```

Enhancements to VOLUME command (cont.)

```
volume disk
AR 0015 CUU   CODE   DEV.-TYP VOLID     USAGE    SHARED   STATUS     CAPACITY
AR 0015 240   6E**H  2107-900 DOSRES    USED                             3339 CYL
AR 0015 241   6E**H  2107-900 SYSWK1    USED                             3339 CYL
AR 0015 242   6E*BH  2107-900 VSE5W1    USED                             3339 CYL
AR 0015 243   6E*BH  2107-900 VSE5W2    UNUSED                           3339 CYL
AR 0015 244   6E*BH  2107-900 PAVE03    UNUSED                          10016 CYL
AR 0015 900   90     9336-10  SYSWK4    UNUSED                           6216 BLK
AR 0015 FDF   90     FBA0-00  VDIDLA    USED                             2880 BLK
AR 0015 1I40I   READY
```

Enhancements to VOLUME command (cont.)

```
volume vtape
AR 0015 CUU   CODE   DEV.-TYP VOLID    USAGE   MED-TYP STATUS    POSITION
AR 0015 181   5400   VTAP-00  *NONE*   UNUSED                         N/A
AR 0015 182   5400   VTAP-00  *NONE*   UNUSED                         N/A
AR 0015 183   5400   VTAP-00  V00016   UNUSED                         N/A
AR 0015 1I40I  READY


volume used
AR 0015 CUU   CODE   DEV.-TYP VOLID    USAGE   SHARED  STATUS    CAPACITY
AR 0015 240   6E**H  2107-900 DOSRES   USED                         3339 CYL
AR 0015 241   6E**H  2107-900 SYSWK1   USED                         3339 CYL
AR 0015 242   6E*BH  2107-900 VSE5W1   USED                         3339 CYL
AR 0015 FDF   90     FBA0-00  VDIDLA   USED                         2880 BLK
AR 0015 1I40I  READY
```

```
volume serial=dosres
AR 0015 CUU   CODE   DEV.-TYP VOLID     USAGE    SHARED   STATUS     CAPACITY
AR 0015 240   6E**H 2107-900 DOSRES    USED                                  3339 CYL
AR 0015 1I40I   READY


volume serial=V00016
AR 0015 CUU   CODE   DEV.-TYP VOLID     USAGE    SHARED   STATUS     CAPACITY
AR 0015 183   5400   VTAP-00   V00016   UNUSED                              N/A
AR 0015 1I40I   READY
```
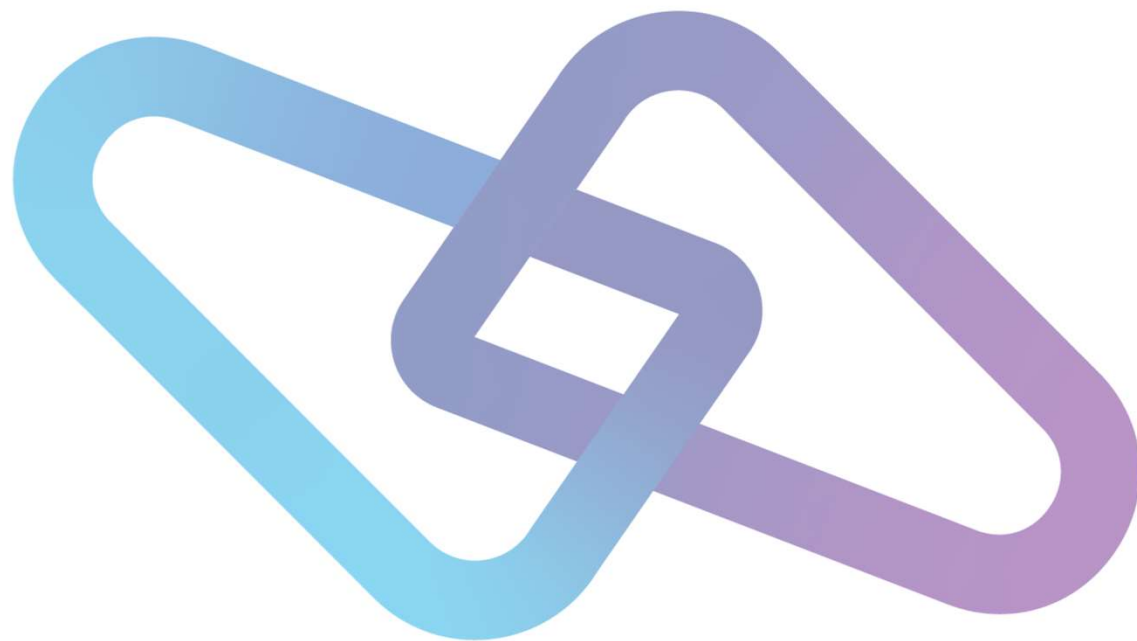
IBM DL/I to 21CS HDB Upgrade

IBM DL/I to 21CS HDB upgrade

- Assumptions for the starting environment:
  - IBM CICS TS / 21CS OLTP is currently configured to work with IBM DL/I
  - IBM DL/I deleted using the provided IBM DL/I DLZDLETE (delete) job
  - 21CS HDB installation will be done via 21CS VSE^n IUI

IBM DL/I to 21CS HDB upgrade (cont.)

- Recommended steps:
  - IBM CICS TS / 21CS OLTP is running
  - Remove IBM DL/I with the provided IBM DL/I DLZDLETE (delete) job
  - Install 21CS HDB via 21CS VSE^n IUI (no IBM CICS TS / 21CS OLTP restart when DL/I is already removed but HDB is still not installed)
  - After the successful 21CS HDB installation, IBM CICS TS / 21CS OLTP can be restarted (if necessary)
- These steps are recommended because under some IBM DL/I-related IBM CICS TS / 21CS OLTP configurations, if IBM CICS TS / 21CS OLTP restarts right after removing IBM DL/I can lead to erroneous situations (including not working ICCF or even impossibility to (re)start the CICS).

FSU using VTAPE over LFP

- Not a documented or recommended method.

- If you don't have a tape library or enough space to put tape file into VSAM.

- Requirements

  – LFP

  – Append LIBDEF search chain for PHASE from LIBDEF.PROC to the following

    - Tape server job

    - LFP Startup job

- Use these jobs at Stage-2 of FSU Installation (After IPL from SYSWK1)
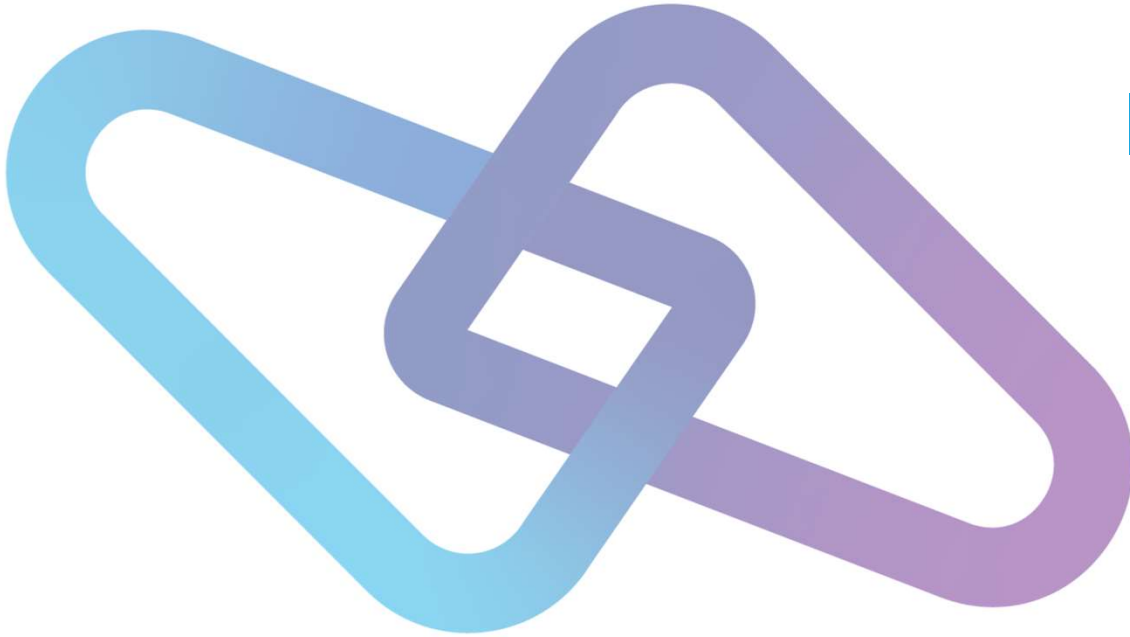
Introduction of SDB Server for VSE^n 7.6 and Upgrade

Shahin Ram Krishna
Software Engineer, VSEn R&D

Agenda

- Introduction of SDB
- Difference Between DB2 and SDB
- Upgrade an Existing Database (SQL/DS or DB2) To SDB
- Contact Us

Introduction of SDB

- SDB Stands for SQL (Structured Query Language) Database.
- SDB is a RDBMS (Relational Database Management System)
- It is used to store, manage, query and retrieve the data stored in a relational database.
- It provides an interface between the user applications and the database.

Differences Between DB2 and SDB

- The functionality of DB2 Sever 7.5 for z/VSE and SDB Server for VSEn 7.6 are same except that the key enablement process is not needed in SDB server for VSEn 7.6

- The product name and version number are changed as below

    - SDB server for VSEn 7.6.0

    - SDB Client Edition for VSEn 7.6.0

- PRD2.SDB760 is the default installation library of SDB Server for VSEn 7.6.0

- PRD2.SDB760C is the default installation library of SDB Client for VSEn 7.6.0

- Product key validation is removed from SDB Server for VSEn 7.6.0

Upgrading an Existing Database

The following versions of SQL/DS or DB2 can be upgraded to SDB Server for VSEn Version 7 Release 6.
- Version 7 Release 5
- Version 7 Release 4
- Version 7 Release 3
- Version 7 Release 2
- Version 7 Release 1
- Version 6 Release 1
- Version 5 Release 1
- Version 3 Release 5
- Version 3 Release 4
- Version 3 Release 2
- Version 3 Release 1

Upgrade Step 1: Space Verification and DATE/TIME Option Verification

- Before you upgrade the database, you should have at least 4 dbspace blocks available in the DB2 Server for VSE directory

  To verify the number of 'DBSPACE SPACE BLOCK LEFT', start the application server and enter the following operator command.

  SHOW DBCONFIG

- Each storage pool in the existing database should be used less than 90%

  To find the state of your storage pools, start the application server in multiple user mode and enter the following operator command.

  SHOW POOL SUMMARY

- Check the values associated with DATE and TIME in SYSTEM.SYSOPTIONS by issuing the following command from ISQL:

  SELECT * FROM SYSTEM.SYSOPTIONS

  Values should be set to ISO during Upgrade.

Upgrade Step 2: Archiving a Database

Upgrade Step 2: Archiving a Database

Archive your database by issuing the following operator command:

```
SQLEND ARCHIVE
```

- Before doing Upgrade Step 3, you need to re-catalog the following procedures into the installation library PRD2.SDB760

ARISrnDB - Procedure with existing database identification labels

ARISrnSL - Procedure which includes library search path for an existing database

where rn indicates the release number of the earlier release

Example : ARIS75DB and ARIS75SL if your existing database is DB2 server for VSE 7.5.0

Upgrade Step 3: Prepare the Database for Upgrade

- Job name is ARIS76ND
- This job does the following
  - Reset the logmode to Y
  - Reset the password for SQLDBA to SQLDBAPW which is the default password

Upgrade Step 4: Upgrade the DBNAME Directory

- Job name ARISBDID
- ARISBDID job upgrades previous versions of the Dbname Directory source file (originally 'ARISDIRD.A') to the restructured Directory source format

Upgrade Step 5: Format the SDB Server for VSEn Logs

- Job name is ARIS76OD
- If you did not run ARIS76OD job, you may have problems later when you restore database archives

Upgrade Step 6: Update the SDB Server for VSEn Catalog to the 7.6 Level

- Job name is ARIS76PD
- This step is mandatory if you are upgrading a database from Version 5.1 or prior to Version 5.1
- Do not execute this step if you are upgrading a database from Version 6.1 or later
- ARIS76PD updates the system catalog

Upgrade Step 7: Reload the DBS Utility Package

- Job name is ARIS76QD
- This job creates the DBS utility package (SQLDBA.ARIDSQL) in the database for SDB Server for VSEn Version 7 Release 6

Upgrade Step 8: Update the SDB Server for VSEn Database

- Job name is ARIS76RD
- The ARIS76RD job does the following:
  - Grants SELECT authority for the system catalog to PUBLIC.
  - Grants CONNECT authority to ALLUSERS.
  - Updates SYSTEM.SYSOPTIONS.

- Loads tables for CCSID support
- Builds the following sample tables:
  - DEPARTMENT
  - EMPLOYEE
  - PROJECT
  - ACTIVITY
  - EMP_ACT
  - PROJ_ACT
  - INVENTORY
  - SUPPLIERS
  - QUOTATIONS
  - PROJECTS
  - OPERATION

Upgrade Step 9, 10 & 11

Upgrade Step 9: Upgrade the HELP Text Tables
- Job name is ARIS76SD
- ARIS76SD upgrades existing HELP Text tables from a previous DB2 version to SDB Server for VSEn Version 7 Release 6

Upgrade Step 10: Reload English HELP Text into a Database
- Job name is ARIS76TD
- This step is optional
- This job reloads the default version (American English) of the version 7 release 6 HELP Text into the database
- To Install Language , run ARIS76JZ job

Upgrade Step 11: Reload ISQL into a Database
- Job name is ARIS76LZ
- If the database does not contain the ISQL facility, skip this step
- This job reloads the ISQL package in the database by running the application server in single user mode

Upgrade Step 12, 13 & 14

Upgrade Step 12: Reload CCSID-Related Phases Package
- Job name is ARIS76WD
- This job reloads the CCSID-related phases package in the database by running the application server in single user mode

Upgrade Step 13: Load FIPS Flagger into a Database
- Job name is ARIS76KZ
- This step is optional
- This job loads the FIPS flagger package in the database by running the application server in single user mode

Upgrade Step 14: Determine the Primary Keys to be Recreated
- Job name is ARIS761D
- This step is optional
- If you are upgrading a database from SQL/DS Version 3 Release 1 or Version 3 Release 2, you should run this step
- This Job will list all the primary keys created in SQL/DS Version 3 Release 1 and Version 3 Release 2 which should be dropped and recreated after upgrading to SDB Server for VSEn Version 7 Release 6

Upgrade Step 15, 16, 17 & 18

Upgrade Step 15: Revoke CONNECT Authority from ALLUSERS

- Job name is ARIS76MZ
- This step is optional
- In "Upgrade Step 8: Update the SDB Server for VSEn Database", member ARISCTM granted CONNECT authority to ALLUSERS, which can be revoked using ARIS76MZ job

Upgrade Step 16: Reset the Password for User SQLDBA

- Job name is ARIS76NZ
- To set up a new password for the user SQLDBA

Upgrade Step 17: Start the Application Server in multiple user mode

- Job name is ARIS76GZ

Upgrade Step 18: Create CCSID-Related Phases

- Job name is ARISCNVD
- This step must be executed while the database server is active

Upgrade Step 19: System Customization Activities

- Rebind your application program packages using the REBIND PACKAGE DBS utility command

- Drop and recreate any EXPLAIN tables that were created in a previous release. You can use the A-type source member ARISEXP to help you do this.

- Enables you to prepare a sequence of commands and/or replies, give it a name and have this sequence executed whenever that name is being entered or submitted as a command.

- Enables you to suppress or change any VSEn command.

- Enables you to abbreviate long VSEn commands to just a few characters.

  - `STACK SHUT|MSG F2,D=CEMT P SHUT I|Z NET,QUICK|PEND`

  - `STACK LIBR|R RDR,PAUSEBG|0 EXEC LIBR`

  - `STACK DELLIB|LIBR|0 DEL S=&0|0 END|0`

STACK/STACKP

- STACK Commands are stored into storage, thus are volatile.
- STACKP Commands are written onto CKD device used on last IPL.
- STACKP will not work on FBA devices
- The name of the command should not be a shorter substring of any command names already in stack
  - STACK LIBR
  - STACK LD
  - STACK LI   → STACK LI will replace LIBR command

  Right way:-
  - STACK LI
  - STACK LD
  - STACK LIBR

- Allows you to execute AR commands and commands defined using STACK from a JCL.

    - // EXEC DTRIATTN,PARM='MSG F2,DATA=CEMT SET PROG(IESRESTO) NEWCOPY'

    - // EXEC DTRIATTN,PARM='STACK SHUT|MSG F2,D=CEMT P SHUT I|Z NET,QUICK|PEND'

Contact Us

To learn more about VSEn Products, Please contact us under email vse@21csw.com

Q & A

Thank you!