

VS04 – z/VSE Tipps

Heinz Peter Maassen, Lattwein GmbH

Dagmar Kruse, IBM



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Agenda



- Kurz notiert
- z/VSE
 - Service und Erfahrungen
- CICS TS: DFHGCD / DFHLCD
 - Fehler nach IPL
- Sub-Capacity Reporting Tool (SCRT) V24..x



- Erfahrungsaustausch und Requirements
 - Themen für die nächste Tagung?



Kurz notiert – Telefonnummer

- Immer mehr IBM Niederlassungen haben keinen Festnetzanschluss mehr!

– auch München (seit Sept. 2016)

→ meine alte Festnetznummer [089/4504-2229](tel:08945042229)
wird an das Call-Center weitergeleitet!

→ nutzen Sie die Festnetznummer, die seit März 2016
in meinen E-Mails angegeben sind:

Dagmar Kruse ----- IBM Deutschland Hollerithstr. 1 81829 München Phone: +49-7034-274-5128 E-Mail: dkruse@de.ibm.com

→ oder mein Firmenhandy: [0173-3063315](tel:01733063315)

Kurz notiert – IBM zEC12 / zBC12 ist WfM → aktuell ist IBM z13s

- an bestehenden zBC12 ist KEINE physischen HW-Erweiterungen, wie OSA-/ FICON-Karten, zusätzlicher Memory, etc. mehr möglich (ab 01.01.2017)
- bis **30.12. 2017** sind nur noch **µCode-Änderungen möglich!**
 - installierten Hauptspeicher aktivieren **64-bit**
 - Prozessoren und –kapazitäten ändern (CP, IFL,...)
 - Capacity on Demand (CoD)-Features / -Records bestellen
 - Laufzeiten der CoD-Records: siehe Handouts



- WfM: withdrawn from Market (ENUSZG16-0021.PDF)
https://www-01.ibm.com/common/ssi/rep_ca/1/877/ENUSZG16-0021/ENUSZG16-0021.PDF

Kurz notiert – IBM zEC12 / zBC12 ist WfM → aktuell ist IBM z13s

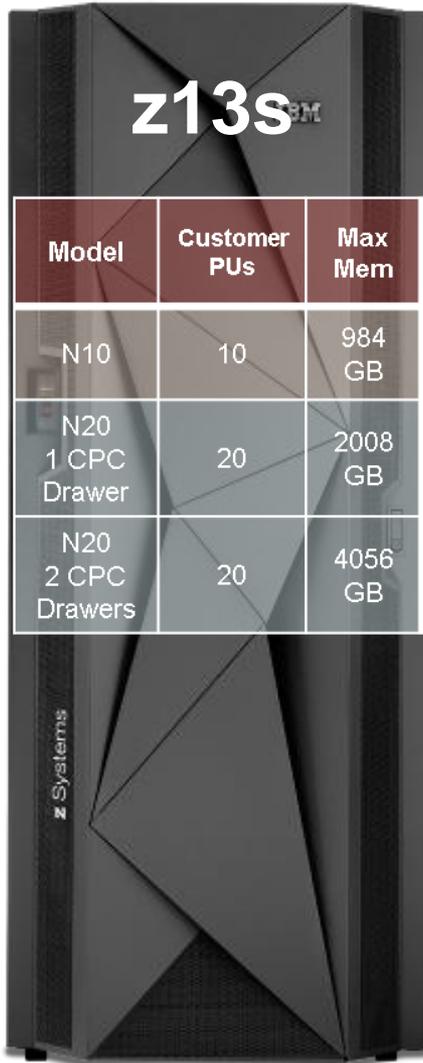
Auswirkungen WfM zEC12 / zBC12 auf CoD:



- Letzte Order-Möglichkeit für alle Capacity on Demand Records am **30.12.2017**
- Last Download **30.3.2018**
- Machine Profiles werden zum **1.1.2018** disabled
- On/Off (**Post-paid**) CoD-Records haben eine Laufzeit von 180 Tagen
 - bei Option „autorenewal“ (default) automatische Verlängerung
 - ooCoD kann bis zum **28.06.2018** genutzt werden
- On/Off CoD-**Pre-paid** Records haben kein Expiration Date und können letztmalig am **30.12.2017** bestellt werden
- CIU permanent Upgrade Records können bis zum **30.12.2017** bestellt werden
- CBU Records können bis zum **30.12.2017** bestellt oder verändert werden (Laufzeit, CPs)
- CBU Tests können bis **22.12.2022** über Direct Sales bestellt werden.
- CBU Replenishment nach Real Activation möglich innerhalb Laufzeit

Details im Resource Link <https://www-304.ibm.com/servers/resourceLink/hom03010.nsf/pages/archivedNews?OpenDocument>

IBM z13s at a Glance



Model	Customer PUs	Max Mem
N10	10	984 GB
N20 1 CPC Drawer	20	2008 GB
N20 2 CPC Drawers	20	4056 GB

▪**Machine Type**

–2965

▪**2 Models**

–N10 and N20

- N20 available as one- or two- processor drawer model
- The 2nd drawer in the N20 is driven by I/O and/or memory requirements

–Single frame, air cooled

–Non-raised floor option available

–Overhead Cabling and DC Power Options

▪**Processor Units (PUs)**

–13 PU active cores (model N10 – 10 client configurable) or 26 PU active cores (model N20 – 20 client configurable)

–Up to 3 standard SAPs per system (2 for model N10, 3 for model N20)

–2 spares designated for Model N20

–1 Integrated firmware processor (IFP)

–Dependent on the H/W model - up to 10 (N10) or 20 (N20) PU cores available for characterization:

- Central Processors (CPs), Integrated Facility for Linux (IFLs), Internal Coupling Facility (ICFs), IBM z Integrated Information Processor (zIIP), optional - additional System Assist Processors (SAPs), Integrated firmware processor (IFP)

•156 capacity settings

▪**Memory**

–Up to 4 TB including:

- System minimum = 64 GB
- 40 GB fixed HSA separately managed
- RAIM standard
- Maximum for customer use 4056 GB (Model N20-2 drawer)
- Increments of 128 to 1024 GB
- Flash Express Read/Write Cache in HSA (0.5 GB)

▪**I/O**

–PCIe Gen3 channel subsystem

- Up to 64 PCIe Channel features

- Support for non-PCIe Channel features (max one I/O drawer via carry forward)

–Up to 3 Logical Channel Subsystems (LCSSs)

▪**STP - optional (No ETR)**

Kurz notiert – z/VM End of Service (EoS)

<http://www.vm.ibm.com/techinfo/lpmigr/vmleos.html>

VM End of Service Effective Dates (mm/dd/yyyy)				
z/VM Product	Release	EOS (mm/dd/yyyy)	GA Date	EOS Announced (mm/yyyy)
z/VM (5741-A07)	V6.4.0	TBD	11/11/2016	TBD
z/VM (5741-A07)	V6.3.0	12/31/2017	07/26/2013	02/03/2015
z/VM (5741-A07)	V6.2.0	06/30/2017	12/02/2011	Revised on February 2, 2016
z/VM (5741-A05)	V5.4.0	12/31/2017 (no longer tied to the EOS for the IBM z9)	09/12/2008	Revised on August 2, 2016. (Prior to this announcement EOS was 12/31/2016, or until the z9 EC and z9 BC were withdrawn from support, whichever was later.)

- **z/VM V5.4.0: 31.12. 2017 (s. Announcement vom 02.08.2016)**
 - EoS ist nicht mehr abhängig vom EoS-Termin der IBM System z9 EC/BC
 - es ist **keine weitere EoS-Verlängerung** geplant!
 - unterstützt **nicht** die IBM z13 und z13s
- **z/VM V6.2.0: 30.06. 2017**
- **z/VM V6.3.0: 31.12. 2017**

→ *Extended Support*“- Verträge werden angeboten

Bitte planen Sie rechtzeitig den Umstieg auf z/VM 6.4.

z/VSE - Überblick

<http://www-03.ibm.com/systems/z/os/zvse/about/status.html>

Supported z/VSE releases				
Version.Release	Date available	Withdrawal from Marketing effective (1)	Withdrawal from Service effective	Minimum z/VM level (2)
→ z/VSE V6.2	4Q2017 Preview	TBD	TBD	z/VM V5.4
→ z/VSE V6.1	11/27/2015 Announcement	TBD	TBD	z/VM V5.4
→ z/VSE V5.2	04/25/2014 Announcement	03/13/2017 Announcement	10/31/2018 Announcement	z/VM V5.4

▪ z/VSE V5.2.0 mit CICS TS for VSE/ESA und TCP/IP for VSE/ESA:

- Nicht mehr ausgeliefert ab **31.03.2017**
- End of Service ist **31.10.2018** ("Extended Support"- Vertrag danach möglich)
- Hardwareunterstützung: **IBM z9 + z10 EC/BC**, z196 / z114, zEC12 / zBC12, z13, z13s
- Fast Service Upgrade (FSU) von z/VSE 4.3.x und 5.1.x möglich

▪ z/VSE 6.1.0 mit CICS TS for z/VSE und TCP/IP for z/VSE:

- Hardwareunterstützung: **IBM z10 EC/BC**, z196 / z114, zEC12 / zBC12, z13, z13s
- kein FSU → Neuinstallation erforderlich!

z/VSE - aktuelle RSLs und PSP buckets

<http://www-03.ibm.com/systems/z/os/zvse/support/preventive.html>

▪ Recommended Service Level (RSL)

- <http://www-03.ibm.com/systems/z/os/zvse/support/preventive.html#rsl>
- enthalten alle PTFs bis zum angegebenen “Cutoff Date” - **aktuell: 31.12. 2016**
- wird **ca. alle 6 Monate** erstellt
- sollte nach der Migration **unbedingt eingespielt** werden!
Service-Level von ausgelieferten System-Bändern:
 - z/VSE 5.2.0: Stand vom 05.03.2014
 - z/VSE 6.1.0: Stand maximal vom 30.06.2016

▪ Preventive Service Planning buckets (PSP buckets)

- enthalten alle systemkritischen (HIPER) - PTFs
- suchen Sie mit „zvse520“ oder zvse610“ auf
<http://www14.software.ibm.com/webapp/set2/psearch/search?domain=psp>
- Für z/VSE 5.2 und z/VSE 6.1 sind zur Zeit alle im jetzigen RSL enthalten !

z/VSE - IBM TCP/IP APARs (CSI)

▪ IBM TCP/IP for z/VSE V2.1 und ... for VSE/ESA V1.5:

- <http://www-03.ibm.com/systems/z/os/zvse/support/tcpip.html#apars>
- Suffix BTP → für z/VSE 5.1 (IBM TCP/IP for VSE/ESA 15 F) **Out of Service !**
- CTP → für z/VSE 5.2 (IBM TCP/IP for VSE/ESA 15 F)
- ETP → für z/VSE 6.1 (IBM TCP/IP for z/VSE 2.1)

Suffix = Component Level Code (CLC)

Latest TCP/IP for z/VSE APARs		
Last update: March 13, 2017		
APAR Date	PTF	Contents
PI76044 2017/02/10	UI44562-ETP	Refresh for TCP/IP for z/VSE 2.1 on basis of 2.1.8
PI70120 2016/10/19	UI41417-CTP	ZP15F137 ZP15F301 ZP15F302 ZP15F304 ZP15F311 ZP15F312 ZP15F313 ZP15F315 ZP15F316 ZP15F317 ZP15F318 ZP15F321 ZP15F323 ZP15F324 ZP15F325 ZP15F328 ZP15F330 ZP15F333
PI56032 2016/09/02	UI35475-ETP	Refresh for TCP/IP for z/VSE 2.1 on basis of 2.1.7
PI59039 2016/05/10	UI37730-BTP UI37731-CTP	ZP15F112 ZP15F136 ZP15F245 ZP15F246 ZP15F247 ZP15F249 ZP15F250 ZP15F251 ZP15F252 ZP15F253 ZP15F255 ZP15F256 ZP15F258 ZP15F259 ZP15F260 ZP15F264 ZP15F267 ZP15F268 ZP15F269 ZP15F270 ZP15F275 ZP15F277 ZP15F278 ZP15F280 ZP15F287 ZP15F294 ZP15F271 ZP15F282 ZP15F283 ZP15F286 ZP15F296 ZP15F298 ZP15F306 ZP15F307 ZP15F308

Zur Zeit neuer APAR für
z/VSE 5.2 in Arbeit:
– **PI80116**

Denken Sie daran:
Online Message Explanation
wird mit dem Job aus
IPNOME.Z aktualisiert

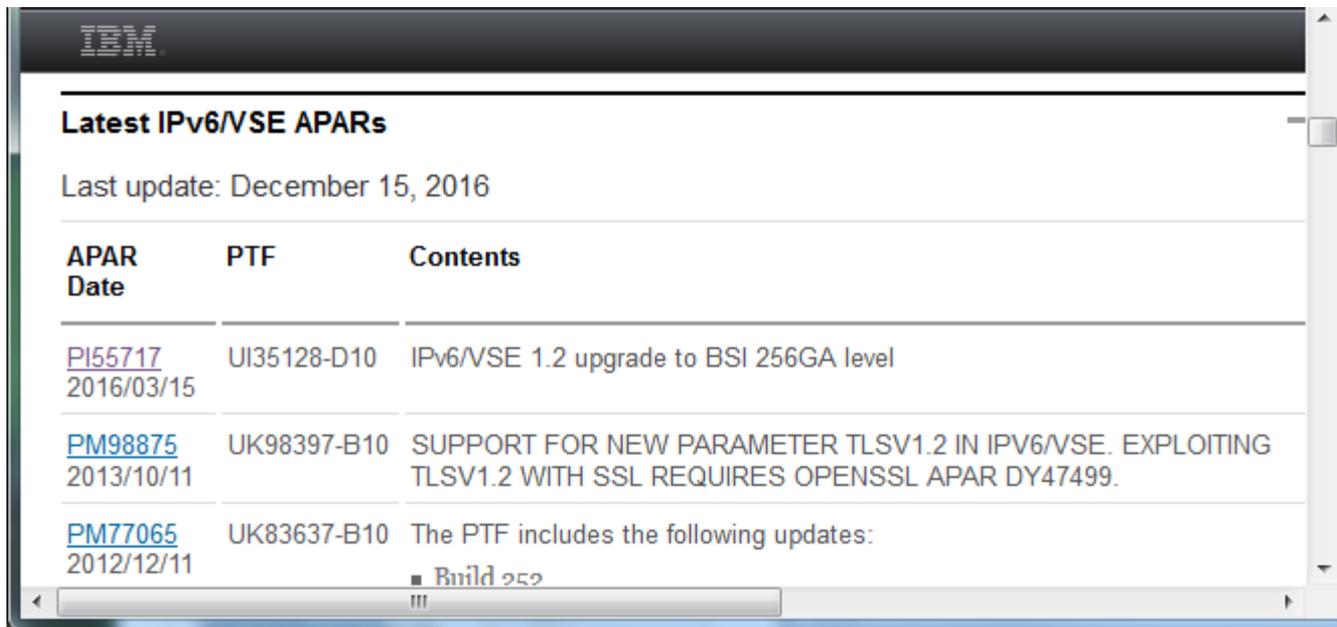
z/VSE - IBM TCP/IP APARs (BSI)

- **IBM IPv6/VSE V1 (BSI):**

- <http://www-03.ibm.com/systems/z/os/zvse/support/ipv6vse.html>

- Suffix B10 → für z/VSE 5.1 (IBM IPv6/VSE V1.1.0) **Out of Service !**
 - C10 → für z/VSE 5.2 (IBM IPv6/VSE V1.1.0)
 - D10 → für z/VSE 6.1 (IBM IPv6/VSE V1.2.0)

Suffix = Component-Level (CLC)



IBM

Latest IPv6/VSE APARs

Last update: December 15, 2016

APAR Date	PTF	Contents
PI55717 2016/03/15	UI35128-D10	IPv6/VSE 1.2 upgrade to BSI 256GA level
PM98875 2013/10/11	UK98397-B10	SUPPORT FOR NEW PARAMETER TLSV1.2 IN IPV6/VSE. EXPLOITING TLSV1.2 WITH SSL REQUIRES OPENSLL APAR DY47499.
PM77065 2012/12/11	UK83637-B10	The PTF includes the following updates: <ul style="list-style-type: none"> ■ Build 252

z/VSE - Erfahrungen mit z/VSE 6.1.0

- Meine Erfahrungen habe ich auf letzten GSE-Tagungen ausführlich dargestellt.
 - „Erste Erfahrungen zu z/VSE V6.1“, April 2016
 - „z/VSE Hints & Tips“ der letzten beiden Tagungen in 2016zu finden u.a. auf der z/VSE-Homepage unter <http://www-03.ibm.com/systems/z/os/zvse/documentation/conferences.html>

- Die Migration auf z/VSE 6.1 schieben in Deutschland noch etliche vor sich her.

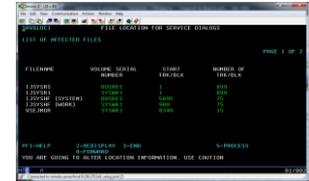
- Nur wenig Kundenerfahrungen:
 - Reine Installation des ausgelieferten Systems → kein Problem

 - Anpassung an die eigenen Gegebenheiten → zeitaufwendig

 - (Kleine) Probleme mit TCP/IP (sowohl CSI als auch BSI)
→ möglichst gut testen

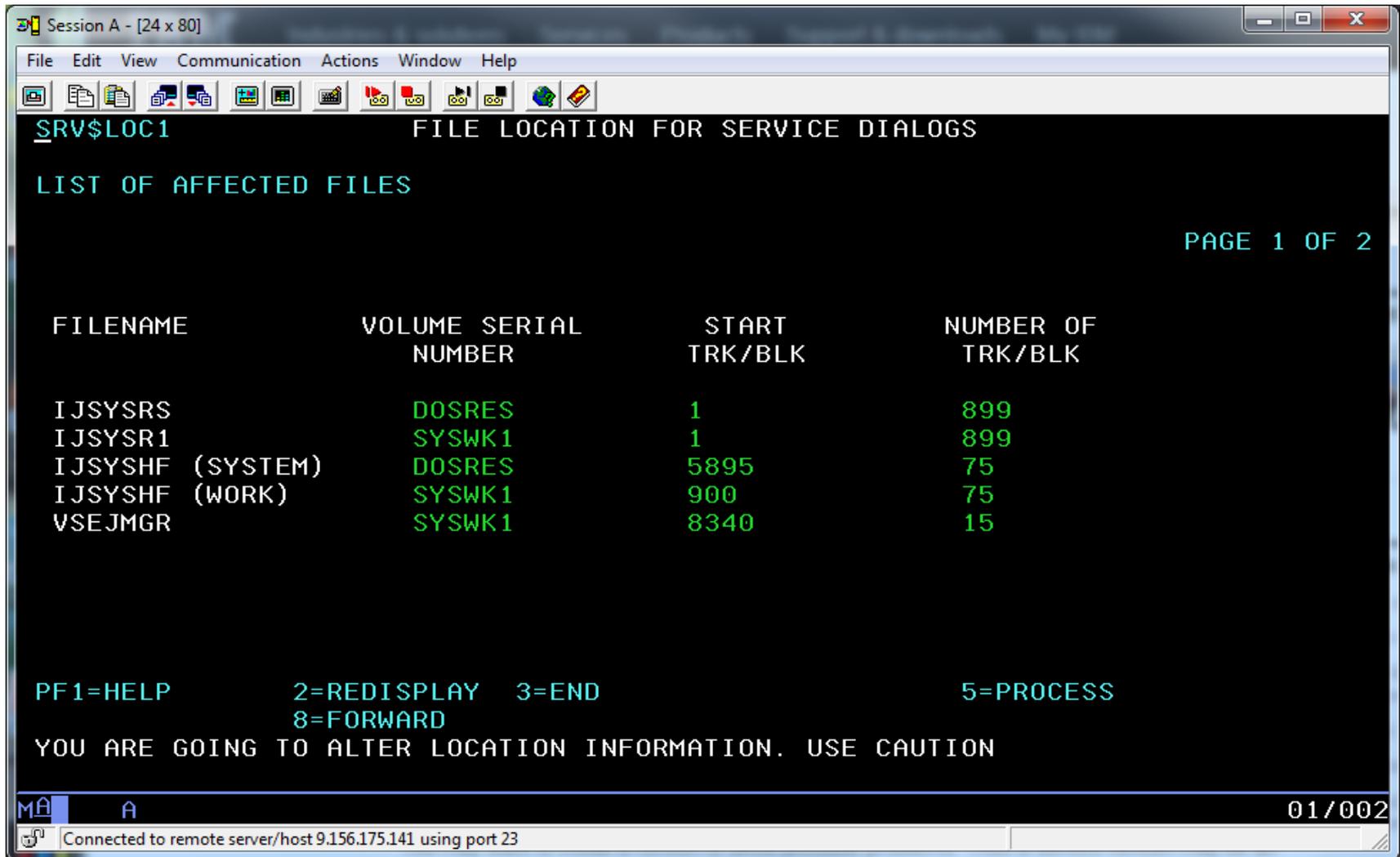
 - Updates der Vendorprodukte anfragen/beachten:
 - Versionswechsel bei
 - CICS TS for z/VSE V2.1
 - IBM TCP/IP for z/VSE V2.1

z/VSE – Vergessen Sie nicht den IUI-Dialog 1.4.1 „Verify Location of Involved Serviced Files”



- Diese Informationen nutzt das Interactive User Interface (IUI) um Service einzuspielen (Apply PTF, FSU)
- Die Verlegung dieser System-Dateien werden unterstützt:
 - IJSYSR1 - The **SYS.NEW.RES** file which is required for indirect PTF application and for FAST SERVICE UPGRADE to receive the new system residence.
 - IJSYSHF - The **system history file** which is used by MSHP to record any changes to your system.
 - IJSYSHF - (WORK) The work history file which is needed temporarily as a copy of the system history file.
 - VSEJMGR - The **job manager file** which is used to control the execution sequence of jobs which run under the control of the Job Manager.
 - IESTRFL - The **text repository file** which contains the panels and messages for VSE IUI.
 - IESTRWF - The text repository work file which is a temporary copy of the text repository file needed during PTF application and during FAST SERVICE UPGRADE.
 - IJSYSPF - The **PTF.FILE service file** on disk.

z/VSE – UI-Dialog 1.4.1 bei der Auslieferung (1) : „Verify Location of Involved Serviced Files”



Session A - [24 x 80]

File Edit View Communication Actions Window Help

SRV\$LOC1 FILE LOCATION FOR SERVICE DIALOGS

LIST OF AFFECTED FILES

PAGE 1 OF 2

FILENAME	VOLUME SERIAL NUMBER	START TRK/BLK	NUMBER OF TRK/BLK
IJSYSRS	DOSRES	1	899
IJSYSR1	SYSWK1	1	899
IJSYSHF (SYSTEM)	DOSRES	5895	75
IJSYSHF (WORK)	SYSWK1	900	75
VSEJMGR	SYSWK1	8340	15

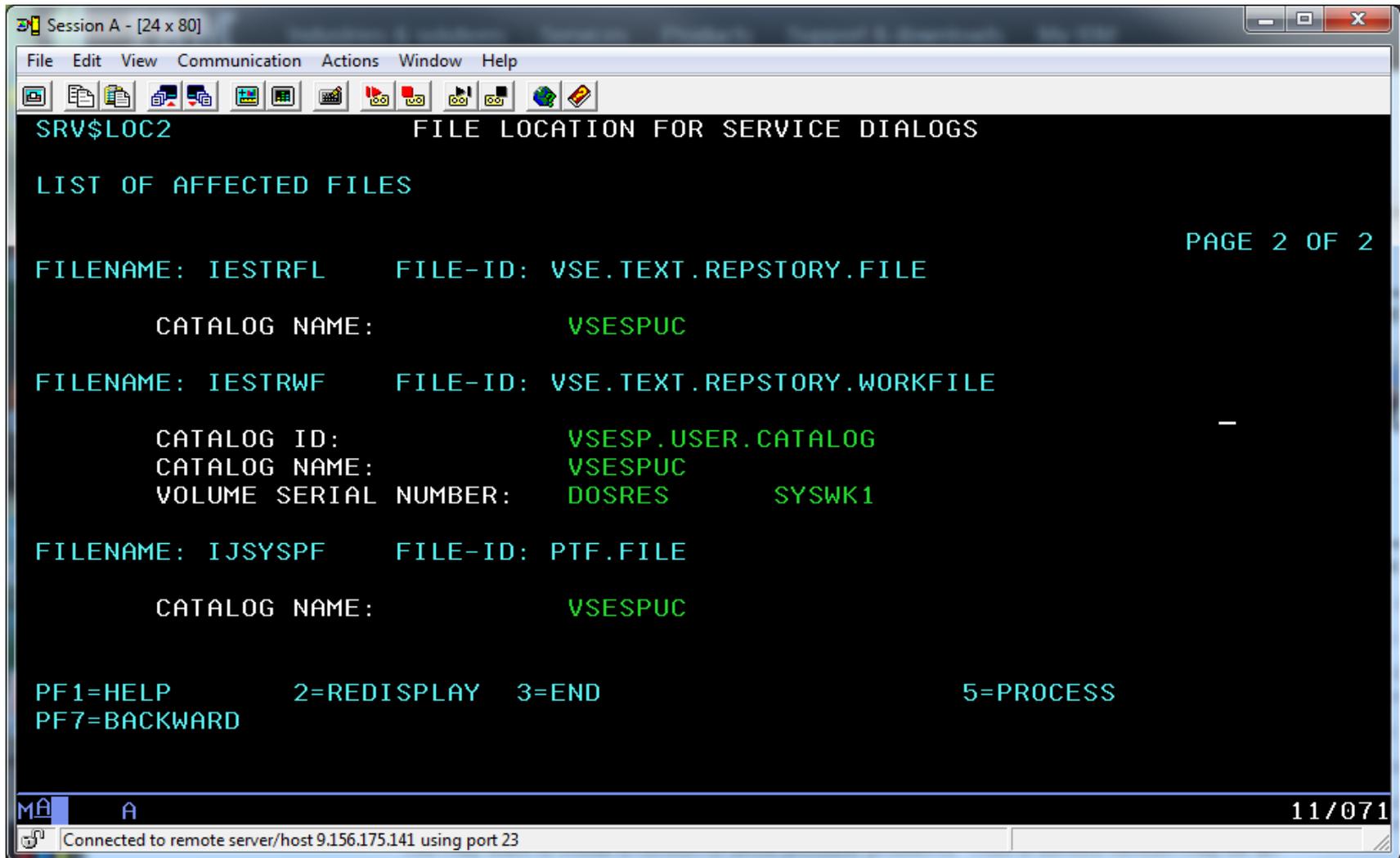
PF1=HELP 2=REDISPLAY 3=END 5=PROCESS
8=FORWARD

YOU ARE GOING TO ALTER LOCATION INFORMATION. USE CAUTION

MA A 01/002

Connected to remote server/host 9.156.175.141 using port 23

z/VSE – UI-Dialog 1.4.1 bei der Auslieferung (2) : „Verify Location of Involved Serviced Files”



```

Session A - [24 x 80]
File Edit View Communication Actions Window Help
SRV$LOC2 FILE LOCATION FOR SERVICE DIALOGS
LIST OF AFFECTED FILES
PAGE 2 OF 2
FILENAME: IESTRFL FILE-ID: VSE.TEXT.REPSTORY.FILE
CATALOG NAME: VSESPUC
FILENAME: IESTRWF FILE-ID: VSE.TEXT.REPSTORY.WORKFILE
CATALOG ID: VSESP.USER.CATALOG
CATALOG NAME: VSESPUC
VOLUME SERIAL NUMBER: DOSRES SYSWK1
FILENAME: IJSYSPF FILE-ID: PTF.FILE
CATALOG NAME: VSESPUC
PF1=HELP 2=REDISPLAY 3=END 5=PROCESS
PF7=BACKWARD
MA A 11/071
Connected to remote server/host 9.156.175.141 using port 23

```

Agenda



- Kurz notiert
- z/VSE
 - Service und Erfahrungen
- ➔ ▪ CICS TS: DFHGCD / DFHLCD
 - Fehler nach IPL
- Sub-Capacity Reporting Tool (SCRT) V24..x

- Erfahrungsaustausch und Requirements
 - Themen für die nächste Tagung?



CICS TS: DFHGCD / DFHLCD

Gespeicherte Fehler schlagen auch in andere Anwendungen durch

- CICSICCF hängt

```

F2 0002 // JOB CICSICCF          CICS/ICCF STARTUP
          DATE 16/11/2016, CLOCK 10/21/00
F2 0002 1T20I  SYS009 HAS BEEN ASSIGNED TO X'01F' (TEMP)
F2 0002 LOG
F2 0002 ID (PARAMETERS SUPPRESSED)
F2 0002 NOLOG
F2 0002 *      WAITING FOR VTAM TO COME UP
    
```

CICS TS: DFHGCD / DFHLCD

Gespeicherte Fehler schlagen auch in andere Anwendungen durch

- DB2 hängt / bricht ab

```
F9 0009 // JOB DB2START      START DB2 IN MULTIPLE USER MODE +IP
          DATE 16/11/2016, CLOCK 10/21/01
F9 0009 * *****
F9 0009 * ARIS74DB: DB2 STARTER DATABASE IDENTIFICATION
F9 0009 * *****
F9 0009 * *****
F9 0009 * ARIS74SL: DB2 SERVICE/PRODUCTION LIBRARY DEFINITION
F9 0009 * *****
F9 0009 1T20I  SYS098 HAS BEEN ASSIGNED TO X'FED' (TEMP)
F9 0009 *  DBNAME=SQLDS NCUSER=12 (3 CICSF5, 3 CICSF7, 3 CICSF8, 3 BATCH )
F9 0009 ARI0025I The program ARISQLDS is loaded at 500078.
F9 0009 ARI0025I The program ARICMOD is loaded at 67FD80.
F9-0009 ARI0044D If you want a dump, enter 1(Yes).
          Otherwise enter 0(No).

9 0
F9 0009 ARI0032I The database manager has terminated.
F9 0009 ARI0042I Database manager reason code is 36 - X'24'
F9 0009 ARI0043I Database manager return code is 516.
F9 0009 1S78I  JOB TERMINATED DUE TO  CANCEL COMMAND
F9 0009 EOJ DB2START  MAX.RETURN CODE=0516
```

CICS TS: DFHGCD / DFHLCD

Gespeicherte Fehler schlagen auch in andere Anwendungen durch

- TestCICS hängt . . 1

```

F5 0005 // JOB CICSLW          STARTUP OF CICS LATTWEIN VERSION 2.6
          DATE 16/11/2016, CLOCK 10/21/01
F5 0005 *   SVA=NO,EXCLUDE EZASOH3
F5 0005 LOG
F5 0005 *   // ID *****
F5 0005 ID (PARAMETERS SUPPRESSED)
F5 0005 NOLOG
F5 0005 *   WAITING FOR VTAM TO COME UP
F5 0005 *   WAITING FOR TCP/IP TO COME UP
F5 0005 * // EXEC REXX=IESWAITR,PARM='TCPIP00'
F5 0005 * /*
F5 0005 1T20I  SYS020 HAS BEEN ASSIGNED TO X'FEE' (TEMP)
F5 0005 * // ASSGN SYS032,202                ARITRACE
F5 0005 DFHPA1101  CICSTEST DFHSITC1 IS BEING LOADED.
F5 0005 DFHPA1108  CICSTEST DFHSITC1 HAS BEEN LOADED. (GENERATED AT: MM/DD=
          01/29 HH:MM= 08:44).
F5 0005 DFHPA1100  CICSTEST OVERRIDE PARAMETERS FROM JCL EXEC STATEMENT:
F5 0005 DFHPA1927  CICSTEST APPLID=CICSTEST,START=AUTO,EDSALIM=32M,SI
F5 0005 DFHPA1102  CICSTEST OVERRIDE PARAMETERS FROM SYSIPT:
F5 0005 DFHPA1927  CICSTEST SIT=C1,DCT=LW,STATRCD=OFF,GRPLIST=(VSELST2,

```

CICS TS: DFHGCD / DFHLCD

Gespeicherte Fehler schlagen auch in andere Anwendungen durch

- TestCICS hängt . . 2

```

F5 0109 DFHSO0101I CICSTEST Sockets domain initialization has ended.
F5 0109 DFHLD0107I CICSTEST
          DFHLDL1 is unable to locate module DFHSOL   in the SVA. LIBDEF
          search chain version of module will be used.
F5 0109 DFHWP1007 CICSTEST Initializing CICS Web environment.
F5 0109 DFHWP1008 CICSTEST CICS Web environment initialization is complete.
F5 0109 DFHLD0107I CICSTEST
          DFHLDL1 is unable to locate module DFHSOLX  in the SVA. LIBDEF
          search chain version of module will be used.
F5 0109 DFHSI8430I CICSTEST About to link to PLT programs during the third
          stage of initialization.
F5 0110 BSD100I IPNRBSDC 01.05 F 04/20/09 14.05 0135D000 006E
F5 0109 ***QTCPMMAIN*** Version 2.6 gestartet
F5 0109 M00001  Power/Interface Attach successful 2.6

F5 0109 QIPW *AUTO* GESTARTET
F5 0109 STATISTICS INTERVAL SET: 23 HOURS, ENDOFDAY=03:00

F5 0109 SDUMP SUPPRESSION ACTIVATED
  
```

CICS TS: DFHGCD / DFHLCD

Gespeicherte Fehler schlagen auch in andere Anwendungen durch

- TestCICS hängt . . 3

```

F5 0109 IESC1055I ABOUT TO START SERVER TASK
F5 0109 DFHSI8434I CICSTEST Control returned from PLT programs during the
      third stage of initialization.
F5 0109 DFHSI1517 CICSTEST Control is being given to CICS.
F5 0109 IESC1057I SERVER TASK HAS BEEN STARTED
F5 0109 LMBK 2.6 CPG Methodenbank geladen
F5 0110 DFHSO0102 CICSTEST
      16/11/16 10:41:54 CICSTEST A Language Environment Callable Service
      error (code X'0263') has occurred on receipt of a severe TCP/IP
      return code; the TCPIPSERVICE HTTPNSSL on port 01088 at IP address
      192.168.3.1 will be closed.
F5 0109 DFHLD0107I CICSTEST
      DFHLDLD1 is unable to locate module DFHXMAB in the SVA. LIBDEF
      search chain version of module will be used.
F5 0109 DFHMN0101 CICSTEST DMF error - DMF return code X'10'.
F5 0109 RTSTART:  RMAI          RMAI          U    EMMA
F5 0109 RTSTART:  R001          R001          O    L86C
F5 0109 RTSTART:  R004          R004          I    L86O
F5 0109 ARI0418A Application server SQLDS is not ready.
      Retry the enable transaction CIRB after the application
  
```

CICS TS: DFHGCD / DFHLCD

Gespeicherte Fehler schlagen auch in andere Anwendungen durch

- TestCICS hängt . . 4

```

F5 0109 DFHTM1781 CICSTEST CICS shutdown cannot complete because some
        non-system user tasks have not terminated.
F5 0109 CONNECT      ERROR OCCURED WITH TCP IN PROGRESS                00145
F5 0109 ***QTCPMAIN*** Version 2.6 gestartet
F5 0109 CONNECT      ERROR OCCURED WITH TCP IN PROGRESS                00147
F5 0109 ***QTCPMAIN*** Version 2.6 gestartet
F5 0109 CONNECT      ERROR OCCURED WITH TCP IN PROGRESS                00150
F5 0109 ***QTCPMAIN*** Version 2.6 gestartet
F5 0109 CONNECT      ERROR OCCURED WITH TCP IN PROGRESS                00152
F5 0109 ***QTCPMAIN*** Version 2.6 gestartet
F5 0109 CONNECT      ERROR OCCURED WITH TCP IN PROGRESS                00154
F5 0109 ***QTCPMAIN*** Version 2.6 gestartet
F5 0109 CONNECT      ERROR OCCURED WITH TCP IN PROGRESS                00156
F5 0109 ***QTCPMAIN*** Version 2.6 gestartet
F5 0109 CONNECT      ERROR OCCURED WITH TCP IN PROGRESS                00158
F5 0109 ***QTCPMAIN*** Version 2.6 gestartet
F5 0109 CONNECT      ERROR OCCURED WITH TCP IN PROGRESS                00160
F5 0109 ***QTCPMAIN*** Version 2.6 gestartet
F5 0109 DFH$SDAP - CICSLOW      - Program started
F5 0109 DFH$SDAP - CICSLOW      - About to purge all user task
F5 0109 DFH$SDAP - CICSLOW      - Purging tran=QTCL, term=          ,user=CICSUSER,
        task=00000164
  
```

CICS TS: DFHGCD / DFHLCD

Gespeicherte Fehler schlagen auch in andere Anwendungen durch

- TCP/IP hängt

```
FA 0105 IPN634E Duplicate ECB. 0.0.0.0,0, (0.0.0.0); 4711,00682AC4 ()
FA 0105 IPN634E Duplicate ECB. 0.0.0.0,0, (0.0.0.0); 4711,00682AC4 ()
FA 0105 IPN634E Duplicate ECB. 0.0.0.0,0, (0.0.0.0); 4711,00682AC4 ()
FA 0105 IPN634E Duplicate ECB. 0.0.0.0,0, (0.0.0.0); 4711,00682AC4 ()
FA 0105 IPN634E Duplicate ECB. 0.0.0.0,0, (0.0.0.0); 4711,00682AC4 ()
FA 0105 IPN634E Duplicate ECB. 0.0.0.0,0, (0.0.0.0); 4711,00682AC4 ()
FA 0105 IPN634E Duplicate ECB. 0.0.0.0,0, (0.0.0.0); 4711,00682AC4 ()
FA 0105 IPN634E Duplicate ECB. 0.0.0.0,0, (0.0.0.0); 4711,00682AC4 ()
FA 0105 IPN634E Duplicate ECB. 0.0.0.0,0, (0.0.0.0); 4711,00682AC4 ()
```

- Unser TCP/IP Listener QTCL bricht mit ABEND ASRB ab. Der Abbruch erfolgt im SOCKET OPEN Call und zwar nach einem GETMAIN Shared.
- Keine IP/Verarbeitung mehr möglich

CICS TS: DFHGCD / DFHLCD

Gespeicherte Fehler schlagen auch in andere Anwendungen durch

- TCP/IP hängt

1. Versuch: sind alle Partitions mit der gleichen Sublib für TCP/IP gestartet?
2. Prüfen mit LIBLIST PHASE,Partition.
3. Alles OK- keine Abweichungen gefunden.

Keine Telnet Session möglich

System hängt

CICSICCF - DB2 - CICSTEST - VTAM - TCP/IP

Nur noch möglich: MSG FA,D=SHUTDOWN (TCP/IP Shutdown)

Überlegung: Was bleibt im System nach IPL erhalten?

- a) Accounting Informationen
- b) Listen etc.
- c) Global und Local CICS Dataset.

Da gab es doch noch e t w a s ! → ICE COLD START!

CICS TS: DFHGCD / DFHLCD

Gespeicherte Fehler schlagen auch in andere Anwendungen durch

Lösung des Problems:

- DFHGCD und DFHLCD löschen und neu formatieren
- System neu starten (IPL)
- Dann war wieder alles OK

Agenda



- Kurz notiert
- z/VSE
 - Service und Erfahrungen
- CICS TS: DFHGCD / DFHLCD
 - Fehler nach IPL
- ➔ ▪ Sub-Capacity Reporting Tool (SCRT) V24..x

- Erfahrungsaustausch und Requirements
 - Themen für die nächste Tagung?



Sub-Capacity Reporting Tool (SCRT) V24..x

Email von LMSnews am 10.04.2017: (1)

SCRT Version 24 Release 2.0 and SCRT Version 24 Release 11.0 Available - From IBM, a Sub-Capacity Reporting Tool Update

IBM is pleased to announce the availability of the following new Releases of the Sub-Capacity Reporting Tool from the SCRT website.

- **SCRT V24.2.0** - For z/OS, z/TPF, and z/VSE Sub-Capacity reports (**Classic z/OS version** – no support for CMP, zCAP, nor MWP)
- **SCRT V24.2.0** - For z/VSE Sub-Capacity reports (**Classic z/VSE version** – z/VSE data only)
- **SCRT V24.11.0** - For z/OS and z/TPF Multiplex reports and Sub-Capacity reports (**z/OS Java version** – support for CMP, zCAP, and MWP)

Generally speaking IBM only requires you to use the latest Version of the SCRT tool, currently that is Version 24. You are not required to use new Release upgrades unless you require the new support added in that particular release.

....

- 
- **z/OS Java Version** gibt es seit SCRT V23.10.0 (Okt 2015, nur auf z/OS)
 - ab **SCRT V23.14.0** (seit Juli 2016) auch auf Windows und Linux
 - unterstützt SCRT98-Records vom z/VSE

Sub-Capacity Reporting Tool (SCRT) V24..x

Email von LMSnews am 10.04.2017: (2)

SCRT Version 24 Release 2.0 and SCRT Version 24 Release 11.0 Available

- From IBM, a Sub-Capacity Reporting Tool Update

...

On February 14, 2017 IBM [announced Multi-Version Measurement \(MVM\)](#) replaces Single Version Charging (SVC) for eligible z/OS and z/VSE software programs. MVM also replaces the Migration Pricing Option (MPO) and the IPLA Migration Grace Period. Additional MVM details are available on the [MVM web page](#).

Sub-capacity licenses cannot be charged under MVM terms until a sub-capacity report enabled for MVM reporting is submitted to IBM. [SCRT V24.2.0 and SCRT V24.11.0 both support MVM reporting](#).

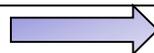
....

IBM does not require all customers to upgrade to the latest Release of the SCRT tool when it becomes available. [Only customers who require the new functions included in the Release will have to do the upgrade](#).

IBM also announces that the [Classic Version](#) deliverables of SCRT [will no longer be supported after October 2017](#). Customers currently using an SCRT Classic Version deliverable should begin planning their migration to one of the Java Version deliverables prior to October 2017. [z/VSE customers without z/OS will have the choice of the Windows or Linux deliverables](#).

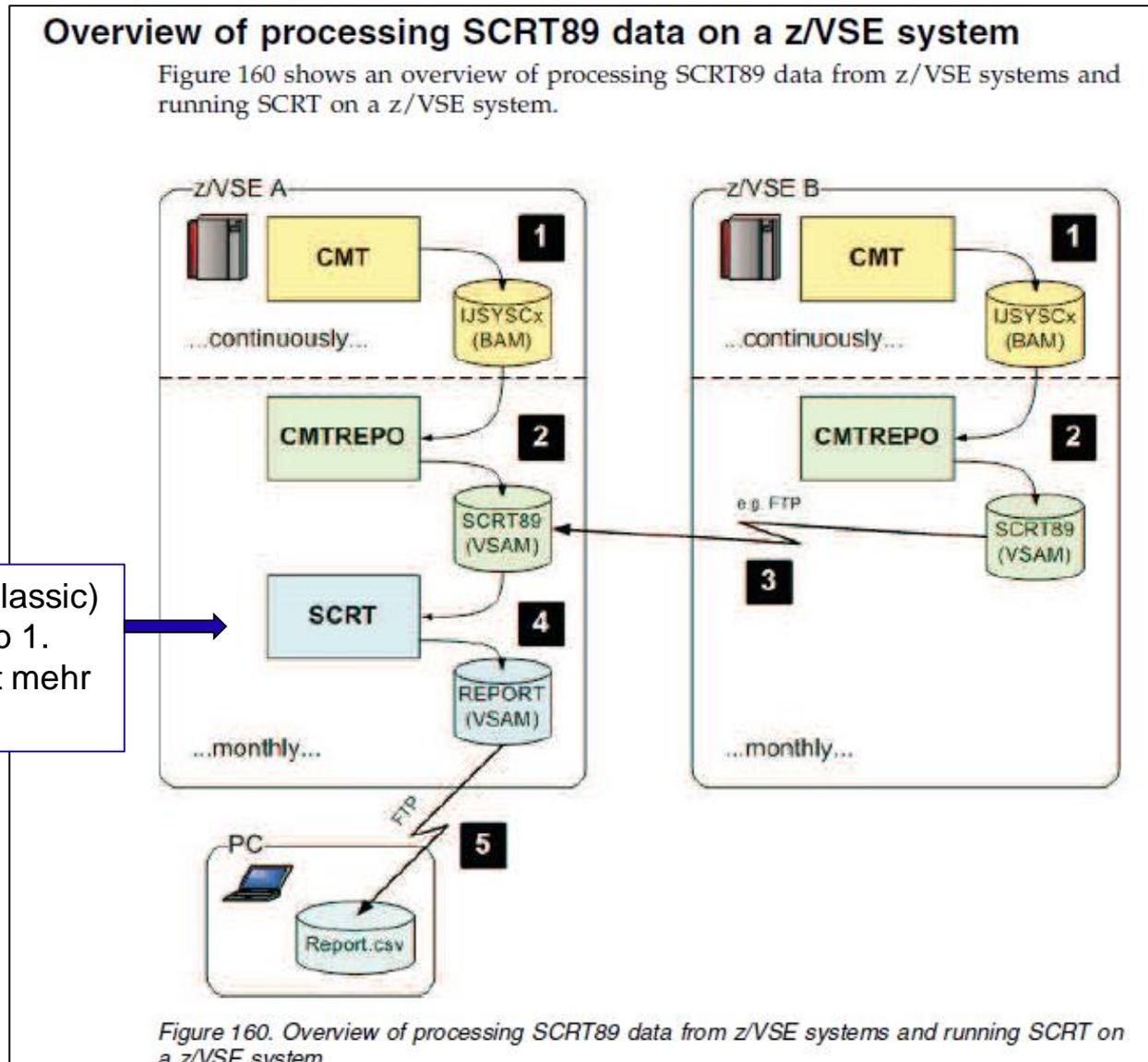
....

Warm Regards,
From The SCRT Team



– No Support-Ankündigung siehe E-Mail vom 11.10.2016

Sub-Capacity Reporting Tool – Überblick (s. User Guide, Chapt.16)



<https://www-03.ibm.com/systems/z/resources/swprice/subcap/scrt/download.html>

SCRT V 24.2.x / 24.11.x
brauchen Sie, wenn Sie
MVM nutzen wollen

IBM Sub-Capacity Reporting Tool (SCRT) Current Levels

IBM's policy requires SCRT reports to be created using the most current Version of SCRT. However, IBM does not require a specific Release or Modification level. Therefore, you may select the appropriate release and modification level within the current version for your environment. Please note that only the most current version and release are available for download from the website.

Last Updated: April 17, 2017

Minimum Version Required: Version 24

SCRT Environment	V.R.M	Supported Report Types
Download z/OS Java	24.11.1	<ul style="list-style-type: none"> Sub-Capacity Reports for z/OS, z/TPF, and z/VSE Multiplex Reports for z/OS and z/TPF (including Sub-Capacity reporting for z/VSE on machines within a Multiplex) Support for CMP, zCAP, MWP, and zWPC Sub-Capacity Reports for independent software vendor (ISV) products
Download Linux	24.11.1	<ul style="list-style-type: none"> Sub-Capacity Reports for z/OS, z/TPF, and z/VSE Multiplex Reports for z/OS and z/TPF (including Sub-Capacity reporting for z/VSE on machines within a Multiplex) Support for CMP, zCAP, MWP, and zWPC Sub-Capacity Reports for independent software vendor (ISV) products
Download Windows	24.11.1	<ul style="list-style-type: none"> Sub-Capacity Reports for z/OS, z/TPF, and z/VSE Multiplex Reports for z/OS and z/TPF (including Sub-Capacity reporting for z/VSE on machines within a Multiplex) Support for CMP, zCAP, MWP, and zWPC Sub-Capacity Reports for independent software vendor (ISV) products
Download z/OS Classic	24.2.0	<ul style="list-style-type: none"> Sub-Capacity Reports for z/OS, z/TPF, and z/VSE No support for CMP, zCAP, MWP, zWPC, nor ISV products
Download z/VSE Classic	24.2.0	<ul style="list-style-type: none"> Sub-Capacity reports for z/VSE only No support for z/OS nor z/TPF nor ISV products

SCRT V24.11.1 - Java Version (für Windows)

- Beschrieben im SCRT User Guide (SC23-6845-10), Chapter 5
– zu finden über die SCRT-VSE-Homepage:

<https://www-03.ibm.com/systems/z/resources/swprice/subcap/zvse.html>

- Requirements:

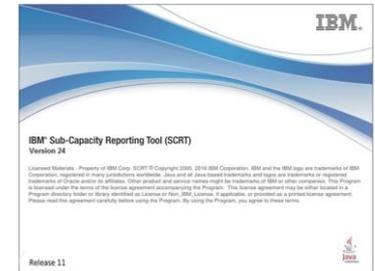


Table 10. SCRT program requirements for Windows and Linux systems

Hardware	Intel Core Duo or equivalent
Disk space	10 MB
Memory	4 GB (8 GB or more is strongly recommended)
Operating system	<ul style="list-style-type: none"> • Microsoft Windows 7.0 or later (64-bit) • Linux minimum release, by distribution (64-bit): <ul style="list-style-type: none"> – Red Hat Enterprise Linux 6 – OpenSUSE 11 – SUSE Enterprise Linux 11 – Ubuntu 13 – Fedora 17
Java	Java 7 (1.7), 64-bit

Wichtig!

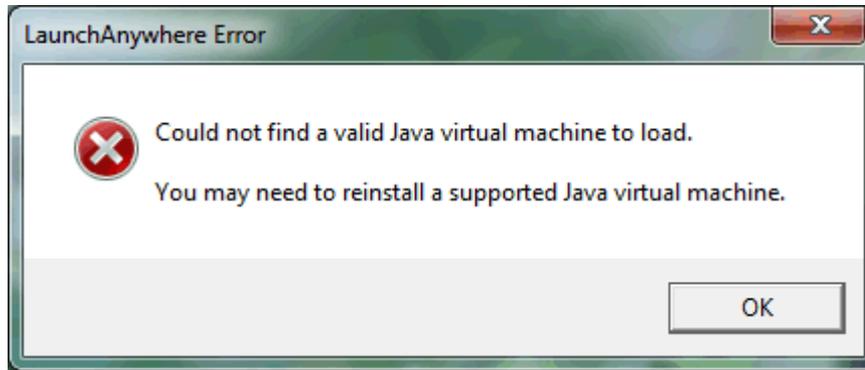
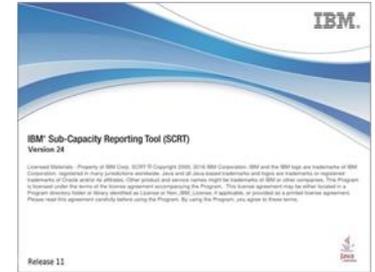
**mind. Java 7
und
64-bit**

- Genügend Disk Space für die anfallenden SCRT98-Records bereitstellen
- Einfach zu Installieren
 - man sollte sich vorher gut überlegen, wohin es soll
 - bei späteren Änderungen am besten Deinstallieren und Reboot des Windows

SCRT V24.11.1 - Java Version für Windows

Fehlermeldung bei Java, 32-bit

– schon bei der Installation:



– Steht im SCRT User Guide (SC23-6845-10), Chapter 5 beschrieben
 – zu finden über die SCRT-VSE-Homepage:

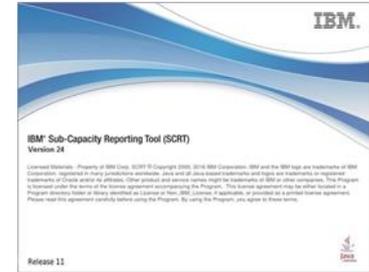
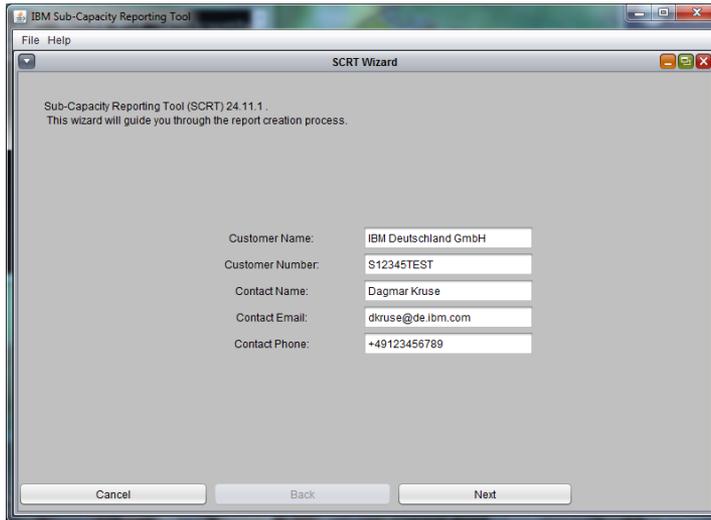
<https://www-03.ibm.com/systems/z/resources/swprice/subcap/zvse.html>

– Hilfreicher Link zur Überprüfung der 64-Bit-Fähigkeit:

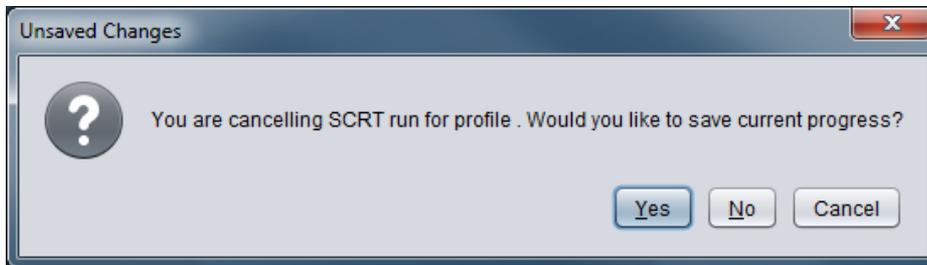
– https://www.java.com/de/download/faq/java_win64bit.xml

SCRT V24.11.1 - Java Version für Windows

- Daten im GUI eingeben:

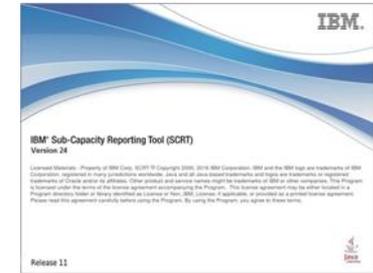


- Datei **profile.txt** wird beim 1. Aufruf im %APPDATA%\SCRT angelegt,
 - Default bei mir (Windows 7): C:\Users\IBM_ADMIN\AppData\Roaming\SCRT
- Beim File-Exit werden Änderungen nicht gespeichert, aber beim Cancel (☒)



SCRT V24.11.1 - Java Version für Windows

- Fehler werden auch unter %APPDATA%\SCRT als „error“ –Datei gespeichert, z.B. 70429183404.error
- Umfangreicher sind die MSGs im zugehörige DOS-Fenster:



```

SCRT.exe
cwd: C:\$user\USE_SCRT
cmd: "C:\ProgramData\Oracle\Java\javapath\java.exe" -Xms536870912 -splash:scrt$plash.jpg -Xmx16g -classpath "C:\$user\USE_SCRT\scrt.jar;C:\$user\USE_SCRT\ibmjzos.jar;C:\$user\USE_SCRT\jsj.jar;C:\$user\USE_SCRT\lax.jar;" com.zerog.lax.LAX "C:\$user\USE_SCRT\SCRT_lax" "C:\Users\IBM_ADMIN\AppData\Local\Temp\lax4440.tmp"
SCRTTOOL048: TYPE-SERIAL:LPAR 2964-829E7:S35LP45(S3545047) IN NO89 DD DATA FOR 586-CS1
NOT FOUND IN SMF DATA.
Error at 04/29/17 18:34:04

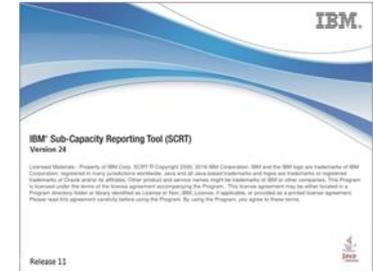
java.lang.NullPointerException

com.ibm.scrt.d.b: java.lang.NullPointerException
    at com.ibm.scrt.visual.ErrorUtils.a(ErrorUtils.java:5)
    at com.ibm.scrt.visual.ErrorUtils.a(ErrorUtils.java:1)
    at com.ibm.scrt.visual.SCRTGUIThreadGroup.uncaughtException(SCRTGUIThreadGroup.java:2)
    at java.awt.EventQueueThread.processException(Unknown Source)
    at java.awt.EventQueueThread.pumpOneEventForFilters(Unknown Source)
    at java.awt.EventQueueThread.pumpEventsForFilter(Unknown Source)
    at java.awt.EventQueueThread.pumpEventsForHierarchy(Unknown Source)
    at java.awt.EventQueueThread.pumpEvents(Unknown Source)
    at java.awt.EventQueueThread.pumpEvents(Unknown Source)
    at java.awt.EventQueueThread.run(Unknown Source)
Caused by: java.lang.NullPointerException
    
```

SCRTTOOL048: TYPE-SERIAL:LPAR 2964-829E7:S35LP45(S3545047)
IN NO89 DD DATA FOR 586-CS1 NOT FOUND IN SMF DATA.

SCRT V24.11.1 auf Window 7– vorläufiges Fazit

- Hilfestellungen eher mäßig
- Profile `profile.txt` wird in `%APPDATA%\SCRT` gespeichert
 - 1 Zeile lang, schlecht zu bearbeiten
- bisher gibt es nur ein GUI-Interface
 - Command-Interface ist in Arbeit
- Ich habe noch keine Erfahrung mit
 - der Java Version für Linux
 - dem ISV Support
- **Hat einer von Ihnen bereits Erfahrungen damit gesammelt?**



IBM LMS akzeptiert KEINE Reports von älteren Versionen !

- Classic-Version wird nur bis Oktober 2017 unterstützt
 - Schon jetzt kein ISV-Support integriert

→ **Planen Sie die Umstellung auf eine Java-Version bis Ende Oktober 2017 ein!**





Haben Sie Fragen?

Vielen Dank für Ihre Aufmerksamkeit!



Heinz Peter Maassen
Lattwein GmbH
hp.maassen@lattwein.de

Dagmar Kruse
STG Technical Sales,
IBM Deutschland GmbH,
dkruse@de.ibm.com

Agenda

- Kurz notiert
- z/VSE
 - Service und Erfahrungen
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