

FTP server instructions for binary dumps

z/VSE writes standalone dumps and system dumps in binary format to the standalone dump disk / tape or to the system dump library. This format is preferred for problem analysis by z/VSE service. The following recipe shall help to send the dump(s) as **binary data** via your PC to IBM.

1. Binary download from z/VSE system to PC

IBM requests that each file is uploaded with a unique name starting with the complete PMR number: E.g. material for PMR 34143,49R,000 must be upload as 34143.49R.000.yyyyyyyy.zzz. Use zzz = BIN for binary data and zzz = ZIP for compressed (zipped) data. Upload of correctly named files enables IBM to link the uploaded data with the assigned PMR and to inform the z/VSE service team that material has arrived. Unique names are required to avoid FTP error 553 = "Permission Denied".

1.1. Download VSE.DUMP.FILE (IJSYSDU) from standalone dump disk

Connect to the z/VSE system from a PC via FTP, issue BIN for binary transfer and GET IJSYSDU as e.g. 34143.49R.000.HWFFF.IJSYSDU.BIN (for details see Appendix A).

To extract single files from the VSE.DUMP.FILE, use ADD DUMP in Interactive User Interface dialogue "Storage Dump Management ". (For systems without IUI use the JCL job example supplied in Appendix C). Continue with the step "1.2. Download dumps from system dump library SYSDUMP" .)

1.2. Download dumps from system dump library SYSDUMP

Connect to the z/VSE system from a PC via FTP, and switch to SYSDUMP. Fn|BG|DYN. Issue BIN for binary transfer and GET *dumpname*.DUMP as e.g. 34143.49R.000.*filename*.BIN (for details see Appendix B). (If FTP is not possible, use RECEIVE function described in Appendix E.)

1.3. Download files from stand alone dump tape

First copy the dump file(s) from the standalone dump tape to the z/VSE system dump library using ADD DUMP in Interactive User Interface dialogue "Storage Dump Management ". (For systems without IUI use the JCL job example supplied in Appendix D.) Continue with the step "1.2. Download dumps from system dump library SYSDUMP" .

2. Compress file(s) on your PC into ZIPped format (optional)

E.g. Zip 34143.49R.000.HWFFF.IJSYSDU.BIN into 34143.49R.000.HWFFF.IJSYSDU.ZIP

3. Use the FTP command to put your file(s) onto the IBM designated server:

Note: The following instructions do not include steps which may be necessary to pass through a firewall or proxy server.

FTP *testcase.boulder.ibm.com* (IBM server for USA & Canadian customers)

or

FTP *ftp.ecurep.ibm.com* (IBM server for African, Asian and European customers)

```
At the "USER:" prompt, enter:      anonymous
At the "password" prompt, enter:   your_email      (e.g. userid@company.com)
At the "Command:" prompt, enter:  cd toibm/vse/
At the "Command:" prompt, enter:  bin
At the "Command:" prompt, enter:  put your_data
                                   (e.g. put 34143.49R.000.HWFFF.IJSYSDU.ZIP)
```

Repeat the upload for additional files

```
At the "Command:" prompt, enter:  quit
```

4. The PMR matching the file name(s) will be updated automatically with the names of the received files. In addition you may inform z/VSE software support that data has been sent.

Appendix A: FTP the VSE.DUMP.FILE (IJSYSDU) from z/VSE to your PC

In your TCP/IP startup job the VSE.DUMP.FILE IJSYSDU must be specified by DLBL, EXTENT and ASSGN. Insert the statements with *start*, *length* and *cuu* as used in your z/VSE system.

```
// DLBL IJSYSDU, 'VSE.DUMP.FILE' <== ECKD
or // DLBL IJSYSDU, 'VSE.DUMP.FILE', , SD, CISIZE=4608 <== FBA & SCSI
// EXTENT SYS020, , 1, , start, length
// ASSGN SYS020, cuu
```

Define the IJSYSDU file to TCP/IP. For TCP/IP for VSE (CSI)

➔ DEFINE FILE,PUBLIC='IJSYSDU',DLBL=IJSYSDU,TYPE=SAM,RECFM=F,LRECL=4112

For IPv6/VSE (BSI)

➔ INPUT SAM IJSYSDU BLKSZ 4112 RECSZ 4112 RECFM F

```
D:\ijsysdu>ftp powerct3
Connected to powerct3.boeblingen.de.ibm.com.
220-TCP/IP for VSE Internal FTPDAEMN 01.05 F 20080229 09.58
    Copyright (c) 1995,2006 Connectivity Systems Incorporated
220 Ready for new user
User (powerct3.boeblingen.de.ibm.com:(none)): sysa ← a user id on your system
                                                    with access authority

331 User name okay, need password
Password:
230 User logged in, proceed
ftp> dir
200 Command okay
150 File status okay; about to open data connection
IJSYSDU          Sequential Access
IJSYSRS          <Library>
POWER            <Power Queues>
PRD1             <Library>
PRD2             <Library>
SYSDUMP          <Library>
226 Closing data connection
ftp: 193 bytes received in 0,40Seconds 0,48Kbytes/sec.
ftp> bin ← binary transfer, no record length
200 Command okay
ftp> get IJSYSDU 34143.49R.000.HWFFF.IJSYSDU.BIN ← rename file ...IJSYSDU.BIN
200 Command okay
150-About to open data connection
File:IJSYSDU
Type:Binary Recfm:F Lrecl: 4112
CC=ON UNIX=OFF RECLF=OFF TRCC=OFF CRLF=ON NAT=NO CONT=OFF
MODE=Stream STRU=File
150 File status okay; about to open data connection
226-Bytes sent: 222,048,000
Records sent: 54,000
Transfer Seconds:      20.54 ( 10557K per second)
File I/O Seconds:     18.92 ( 11461K per second)
226 Closing data connection
ftp: 222048000 bytes received in 21,55Seconds 10303,85Kbytes/sec.
ftp>
```

Appendix B: FTP dump files from z/VSE dump library to PC

TCP/IP must be running and accept FTP requests. SYSDUMP must be defined in TCP/IP, e.g.

- ➔ For CSI in IPINIT: DEFINE FILE,PUBLIC='SYSDUMP',DLBL=SYSDUMP,TYPE=LIBRARY
- ➔ For BSI start FTP server partition with: SNMT LIBRARY SYSDUMP

On your PC connect to your VSE system (console log for access to CSI):

```
D:\dumps>ftp powerct3
Connected to powerct3.boeblingen.de.ibm.com.
220-TCP/IP for VSE Internal FTPDAEMN 01.05 F 20080229 09.58
    Copyright (c) 1995,2006 Connectivity Systems Incorporated
220 Ready for new user
User (powerct3.boeblingen.de.ibm.com:(none)): sysa    ← a user id on your system
                                                    with access authority

331 User name okay, need password
Password:
230 User logged in, proceed

ftp> cd sysdump    ← SYSDUMP already accessed for BSI
250 Requested file action okay, completed
ftp> cd fl
250 Requested file action okay, completed
ftp> dir
200 Command okay
150 File status okay; about to open data connection
DF100000.DUMP          279616          284   09/18/08   15:07
DF100001.DUMP          275504          279   09/18/08   15:10
HSKMEM.DUMP            100              1   09/18/08   15:07
226 Closing data connection
ftp: 240 bytes received in 0,41Seconds 0,59Kbytes/sec.
ftp> bin    ← binary transfer, no record length
200 Command okay
ftp> get DF100001.DUMP 34143.49R.000.DF100001.BIN    ← rename file
200 Command okay
150-About to open data connection
    File:SYSDUMP.F1.DF100001.DUMP
    Type:Binary Recfm:S Lrecl: 4096
    CC=ON UNIX=OFF RECLF=OFF TRCC=OFF CRLF=ON NAT=NO CONT=OFF
    MODE=Stream STRU=File
150 File status okay; about to open data connection
226-Bytes sent: 275,504
    Records sent: 9
    Transfer Seconds: .04 ( 6726K per second)
    File I/O Seconds: .02 ( 13452K per second)
226 Closing data connection
ftp: 275504 bytes received in 1,00Seconds 275,50Kbytes/sec.
ftp> quit
221 FTPDaemn closing control connection
```

Appendix C: Copy dump files from SADUMP disk to z/VSE dump library

Sample job to scan the standalone dump disk:

```
* $$ JOB JNM=SCANDMPD,DISP=D,PRI=9,CLASS=0
* $$ LST DISP=H,RBS=1000
// JOB SCANDMPD SCAN DUMP FILE ON DISK
* *****
* * DLBL and EXTENT statements for dump file IJSYSDU
* PLEASE CHANGE CUU AND EXTENT TO YOUR VALUES BEFORE RUNNING THIS JOB
* *****
// DLBL IJSYSDU,'VSE.DUMP.FILE'                                <== ECKD
or // DLBL IJSYSDU,'VSE.DUMP.FILE',,SD,CISIZE=4608           <== FBA & SCSI
// EXTENT ,,,,16680,1320
// EXEC DOSVSDMP,PARM='SCAN DEVICE=201'
/*
/&
* $$ EOJ
```

Sample job to load dump files from stand alone dump disk to the VSE dump library:

```
* $$ JOB JNM=DMPOND1,DISP=D,PRI=8,CLASS=0
* $$ LST DISP=H,RBS=1000
// JOB DMPOND1 ONLOAD DUMP FROM DISK
```

```

* NOTE THAT DUMP FILES ON DISK START WITH NUMBER 1. THIS JOB EXAMPLE
* LOADS DUMP FILES 1 TO 7 INTO SYSDUMP.BG AS DUMPS SADMP001 TO SADMP007
* *****
* * DLBL and EXTENT statements for dump file IJSYSU
* PLEASE CHANGE CUU AND EXTENT TO YOUR VALUES BEFORE RUNNING THIS JOB
* *****
// DLBL IJSYSU,'VSE.DUMP.FILE'                                <== ECKD
or // DLBL IJSYSU,'VSE.DUMP.FILE',,SD,CISIZE=4608           <== FBA & SCSI
// EXTENT SYS009,,,,16680,1320
// ASSGN SYS009,201
// EXEC PROC=DTRINFOA
// EXEC INFOANA,SIZE=300K
SELECT DUMP MANAGEMENT
    DUMP NAME SYSDUMP.BG.SADMP001
    RETURN
SELECT DUMP ONLOAD
    VOLID DISK SYS009
    FILE 1
    RETURN
SELECT DUMP MANAGEMENT
    DUMP NAME SYSDUMP.BG.SADMP002
    RETURN
SELECT DUMP ONLOAD
    VOLID DISK SYS009
    FILE 2
    RETURN
SELECT DUMP MANAGEMENT
    DUMP NAME SYSDUMP.BG.SADMP003
    RETURN
SELECT DUMP ONLOAD
    VOLID DISK SYS009
    FILE 3
    RETURN
SELECT DUMP MANAGEMENT
    DUMP NAME SYSDUMP.BG.SADMP004
    RETURN
SELECT DUMP ONLOAD
    VOLID DISK SYS009
    FILE 4
    RETURN
SELECT DUMP MANAGEMENT
    DUMP NAME SYSDUMP.BG.SADMP005
    RETURN
SELECT DUMP ONLOAD
    VOLID DISK SYS009
    FILE 5
    RETURN
SELECT DUMP MANAGEMENT
    DUMP NAME SYSDUMP.BG.SADMP006
    RETURN
SELECT DUMP ONLOAD
    VOLID DISK SYS009
    FILE 6
    RETURN
SELECT DUMP MANAGEMENT
    DUMP NAME SYSDUMP.BG.SADMP007
    RETURN
SELECT DUMP ONLOAD
    VOLID DISK SYS009
    FILE 7 LAST
    RETURN
SELECT END
/*
/&
* $$ EOJ

```

Appendix D: Copy dump files from SADUMP tape to z/VSE dump library

Sample job to load dump files from stand alone dump tape to the VSE dump library:

```
* $$ JOB JNM=DMPONL2,DISP=D,PRI=8,CLASS=0
* $$ LST DISP=H,RBS=1000
// JOB DMPONL2 ONLOAD DUMP FROM TAPE
* PLEASE MOUNT TAPE VOL111 ON UNIT 280 TO ONLOAD
* DUMP SYSDUMP.BG.SAD00003 - SAD00009
// PAUSE
// ASSGN SYS018,280
// MTC REW,280
// EXEC PROC=DTRINFOA
// EXEC INFOANA,SIZE=300K
SELECT DUMP MANAGEMENT
    DUMP NAME SYSDUMP.BG.SAD00003
    RETURN
SELECT DUMP ONLOAD
    VOLID VOL111 SYS018
    FILE 3
    RETURN
SELECT DUMP MANAGEMENT
    DUMP NAME SYSDUMP.BG.SAD00004
    RETURN
SELECT DUMP ONLOAD
    VOLID VOL111 SYS018
    FILE 4
    RETURN
SELECT DUMP MANAGEMENT
    DUMP NAME SYSDUMP.BG.SAD00005
    RETURN
SELECT DUMP ONLOAD
    VOLID VOL111 SYS018
    FILE 5
    RETURN
SELECT DUMP MANAGEMENT
    DUMP NAME SYSDUMP.BG.SAD00006
    RETURN
SELECT DUMP ONLOAD
    VOLID VOL111 SYS018
    FILE 6
    RETURN
SELECT DUMP MANAGEMENT
    DUMP NAME SYSDUMP.BG.SAD00007
    RETURN
SELECT DUMP ONLOAD
    VOLID VOL111 SYS018
    FILE 7
    RETURN
SELECT DUMP MANAGEMENT
    DUMP NAME SYSDUMP.BG.SAD00008
    RETURN
SELECT DUMP ONLOAD
    VOLID VOL111 SYS018
    FILE 8
    RETURN
SELECT DUMP MANAGEMENT
    DUMP NAME SYSDUMP.BG.SAD00009
    RETURN
SELECT DUMP ONLOAD
    VOLID VOL111 SYS018
    FILE 9 LAST
    RETURN
SELECT END
/*
// MTC REW,SYS018
/&
* $$ EOJ
```

Appendix E: RECEIVE dump files from z/VSE dump library to PC

Example how to RECEIVE dump files from the z/VSE dump library to your PC

The RECEIVE function is described in the below to download the dump(s) as binary data to a PC. During download, rename the file(s) according to the IBM *“file naming convention”*.

Note: The “file naming convention” allows IBM to link the uploaded data with the assigned PMR (e.g. material for PMR 34143,49R,000 must be named 34143.49R.000.yyyyyyyy.zzz).

The following example shows how to receive the file DF100001 .dump from sublibrary SYSDUMP.F1 to your PC as 34143.49R.000.DF100001.BIN to the current PC directory:

- logon session "A" to VSE and enter native CICS or fastpath 386 (for administrator) = "PC File Transfer".
- Verify that terminal session is capable of File transfer (INWQ returns *terminal-id=DFT*)
- At a PC command window enter

```
receive 34143.49R.000.DF100001.BIN a:DF100001 dump (file=lib l=sysdump s=f1 binary
```

Job PWSLTS is started in dynamic class P and in your PC command window you will see

```
The file transfer request is being processed.  
Number of bytes transferred :  nnnnnnnn  
File transfer complete.
```