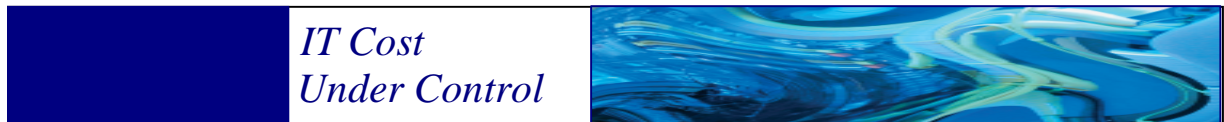




# EPV for DB2 Preparing Input for a Demo



Supporting  
**EPV for DB2 V7**  
**EPV for DB2 Plus V7**

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## **About this manual**

This manual is intended to help anyone who wants to provide the data needed to prepare an EPV for DB2 demo.

## **Changes**

Technical changes or additions to the text are indicated by a vertical line to the left of the change.

## **Terminology**

A “view” is an EPV report presented in an HTML page.



## 1 Introduction

The best way to evaluate the benefits provided by EPV for DB2 for customers is to have a demo based on their data in their own environment.

Providing the data needed to prepare a demo is a quick and easy task to perform.

In this manual, after a short description of EPV for DB2 input data, a simple four step process to do that is presented.

Sample JCLs are also provided.



## 2 Mandatory input data

Some SMF records data are mandatory in order to run EPV for DB2. If you don't provide them EPV will not produce any usable output.

They are:

- Record 30 subtype 2,3 (Address Space Interval activity);
- Record 70 and 72 (RMF CPU and Workload activity);
- Record 100 (DB2 Statistics);
- Record 101 (DB2 Accounting).

### 2.1 SMF 30 subtype 2, 3 records

SMF 30 subtype 2 and 3 records are not produced by default.

To activate SMF interval accounting using the global recording interval the following parameters have to be set in the SMFPRMxx member of the SYS1.PARMLIB library:

- INTVAL(mm) where mm is the interval duration; suggested values are 10 or 15 minutes;
- SYNCVAL(nn) where nn is the minute in the hour that starts the interval; suggested value is 00;

In addition the following parameter have to be set under SYS and SUBSYS sections:

- INTERVAL(SMF,SYNC).

Writing of these records has to be allowed in SMFPRMxx (under the TYPE sub parameter).

It's very important you synchronise SMF and RMF data; to do that you must set the following parameter in the ERBRMFxx member, used by RMF Monitor I, of your SYS1.PARMLIB library:

- SYNCH(SMF).

### 2.2 SMF 70 and 72 records

SMF 70 and 72 records are produced by default.

However the following parameters are normally explicitly specified in RMF monitor I (ERBRMFxx member of the SYS1.PARMLIB library):

- CPU, to produce CPU activity information;
- WKLD, to produce Workload activity information.

Writing of these records also has to be allowed in SMFPRMxx (under the TYPE sub parameter).

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### **2.3 SMF 100 records**

To produce SMF 100 the DB2 Statistic Trace, Class 1 has to be activated.

Writing of these records also has to be allowed in SMFPRMxx (under the TYPE sub parameter).

### **2.4 SMF 101 records**

To produce SMF 101 the DB2 Accounting Trace, Class 1 has to be activated.

Writing of these records also has to be allowed in SMFPRMxx (under the TYPE sub parameter).



### 3 Other suggested input data

Using only the mandatory data will result in a subset of the EPV for DB2 views and analysis. So you are strongly advised to also provide additional info in SMF 100 and 101 records by activating also the following trace classes:

- Record 100, DB2 Statistic Trace, Class 3,5,6<sup>1</sup>.
- Record 101, DB2 Accounting Trace, Class 2,3.

To get package CPU usage, accounting trace class 7 is needed.

To get information about package waits, accounting trace class 8 is needed.

Additional package information (such as the number of getpages) are available if trace class 10 is also activated<sup>2</sup>.

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<sup>1</sup> The class 6 only needed for DB2 releases prior than V9.

<sup>2</sup> Since DB2 V9; in prior releases this information is provided by class 7.





## 4 Optional input data

EPV can show detailed deadlock and timeout information collected from SMF 102 records; IFCID 105,172 and 196 have to be activated<sup>3</sup>.

EPV shows database and index statistics collected querying the DB2 catalog. The needed information must be gathered daily from each subsystem.

EPV also shows DSNZPARM parameter settings collected running the IBM provided DSNWZP stored procedure. The needed information must be gathered daily from each subsystem.

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<sup>3</sup> Statistic trace Class 3 has to be active.



## 5 Preparing data for a demo

To have a good demo, a few hours worth of data are enough. If you have more systems sharing resources the result will be better. If you had a bad day, with lot of problems, the EPV demo will probably help you understand what happened.

The following steps have to be performed in order to prepare input data for an EPV demo.

### 5.1 Collect the data

Three JCLs have to be executed to collect all the needed data.

#### JCL1

The following JCL will select all the necessary SMF records.

Cut and paste it in your JCL library, and do the following customizations:

- CHANGE *smfinput* TO YOUR SMF INPUT FILE NAME
- CHANGE *smfpref* TO OUTPUT FILE PREFIX
- CHANGE *yyyyxx* to the starting and ending Julian date you want to select
- CHANGE *hhmm* to the starting and ending hours you want to select

```
//SEL SMF EXEC PGM=IFASMFDP
//SYSPRINT DD SYSOUT=*
//INDD1 DD DSN=smfinput,DISP=SHR
//OUTDD1 DD DSN=smfpref.VBS,DISP=(,CATLG),
// UNIT=SYSDA, SPACE=(CYL,(100,100),RLSE),
// DCB=(LRECL=32760,BLKSIZE=27998,RECFM=VBS)
//SYSIN DD *
INDD(INDD1,OPTIONS(DUMP))
OUTDD(OUTDD1,TYPE(30(2,3),70,72,100,101,102))
DATE(yyyyxx,yyyyxx)
START(hhmm)
END(hhmm)
/*
```

#### JCL2

The following JCL will produce files containing DSNZPARM parameter settings calling the IBM provided DSNWZP stored procedure.

Cut and paste it in your JCL library, and do the following customizations:

- CHANGE *prefix* TO YOUR DB2 LIB PREFIX
- CHANGE *db2id* TO YOUR DB2 ID
- CHANGE *seqpref* TO OUTPUT FILE PREFIX



```
//STEP01 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
DELETE seqpref.db2id.DSNZPARM
/*
/**
//STEP02 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=*
//SYSIN DD DUMMY
//SYSUT1 DD DATA,DLM=EE
/* REXX */
PARSE ARG SSID
IF SSID = '' THEN DO
  SAY '*** ERROR - SSID NOT SET'
  EXIT (12)
END
"SUBCOM DSNREXX"
IF RC = 1
THEN S_RC = RXSUBCOM('ADD', 'DSNREXX', 'DSNREXX')
ADDRESS DSNREXX "CONNECT " SSID

IF SQLCODE <> 0 THEN DO
  SAY '*** ERROR - UNEXPECTED SQLCODE CONNECTING TO' SSID
  SAY '*** ERROR - SQLCODE = ' SQLCODE
  EXIT (12)
END
/* SET UP SQLDA FOR CALL TO DSNWZP */
INSQLDA.SQLD = 1
INSQLDA.1.SQLTYPE = 449 /* VARCHAR */
INSQLDA.1.SQLLEN = 32000
INSQLDA.1.SQLIND = 0
INSQLDA.1.SQLDATA = ' '

/* CALL PROCEDURE DSNWZP */
ADDRESS DSNREXX
"EXECSQL CALL :DSNWZP USING DESCRIPTOR :INSQLDA "
IF SQLCODE = 0 THEN DO
  RESULT = INSQLDA.1.SQLDATA
  PARMCOUNT = 1
  I = POS(X2C(404025),RESULT)
  DO WHILE ( I <> 0)
    RESULT = SUBSTR(RESULT,4)
    NI = POS(X2C(404025),RESULT)
    IF NI = 0 THEN NI = LENGTH(RESULT) + 1
    ZPARAM.PARMCOUNT = SUBSTR(RESULT,1,NI-1)
    ZPARAM.0 = PARMCOUNT
    PARMCOUNT = PARMCOUNT + 1
    RESULT = SUBSTR(RESULT,NI)
    I = POS(X2C(404025),RESULT)
  END

  DO I = 1 TO ZPARAM.0
    ROWVALU = ZPARAM.I
    OROWVALU = ROWVALU
```



```
L = POS('/',ROWVALU)
W1 = SUBSTR(LEFT(ROWVALU,L-1),1,8)
WR = SUBSTR(ROWVALU,L+1)
L = POS('/',WR)
W2 = SUBSTR(LEFT(WR,L-1),1,8)
WR = SUBSTR(WR,L+1)
L = POS('/',WR)
W3 = SUBSTR(LEFT(WR,L-1),1,24)
WR = SUBSTR(WR,L+1)
L = POS('/',WR)
W4 = SUBSTR(LEFT(WR,L-1),1,8)
WR = SUBSTR(WR,L+1)
L = POS('/',WR)
W5 = SUBSTR(LEFT(WR,L-1),1,8)
WR = SUBSTR(WR,L+1)
L = POS('/',WR)
W6 = SUBSTR(LEFT(WR,L-1),1,40)
WR = SUBSTR(WR,L+1,40)
IF I = ZPARAM.0 THEN DO
  WW = '';
  DO K=1 TO 40
    XX=SUBSTR(WR,K,1)
    IF C2X(XX) = '00' THEN DO
      XX = ' '
    END
    SAY WW
    WW = WW!!XX
  END
  WR = WW
END
OUT.I = W2 W3 WR W6 W4 W5
END
ADDRESS
"EXECIO * DISKW PARMOUT (STEM OUT. FINIS"
IF RC <> 0 THEN DO
  SAY '*** ERROR - CAN NOT WRITE OUTPUT FILE'
  EXIT (12)
END
EXIT (0)
END
ELSE DO
  SAY '*** ERROR - UNEXPECTED SQLCODE CALLING DSNWZP'
  SAY '*** ERROR - SQL CODE = ' SQLCODE
  EXIT (12)
END
EE
/**
//SYSUT2 DD DSN=&&PDS(REXXDSNZ),UNIT=SYSDA,
// DISP=(NEW,PASS,DELETE),
// SPACE=(TRK,(1,1,1)),
// DCB=(LRECL=80,BLKSIZE=3120,RECFM=FB,DSORG=PO)
/**
//STEP03 EXEC PGM=IRXJCL,PARM='REXXDSNZ db2id'
//STEPLIB DD DSN=prefix.SDSNLOAD,DISP=SHR
//SYSEXEC DD DSN=&&PDS,DISP=(OLD,DELETE,DELETE)
```



```
//SYSTSPRT DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//PARMOUT DD DISP=(,CATLG),DSN=seqpref.db2id.DSNZPARM,
//
// UNIT=SYSDA,SPACE=(CYL,(1,1)),
// DCB=(LRECL=255,RECFM=FB,BLKSIZE=0)
//SYSTSIN DD DUMMY
/*
/**
//STEP04 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=*
//SYSIN DD DUMMY
//SYSUT1 DD DATA,DLM=EE
/* REXX */
TRACE 'O'
CVTADDR = C2D(STORAGE(10,4)) /* CVTADDR FROM PSA + X'10' */
AMB = STORAGE(D2X(CVTADDR+X2D('154')),8)
DD = DATE()
R.0=1
R.1='EPV ==> SYSNAME' AMB DD
"EXECIO * DISKW OUT1 (STEM R. FINIS"
IF RC <> 0 THEN EXIT 8
EXIT 0
EE
/**
//SYSUT2 DD DSN=&&PDS(SYS),UNIT=SYSDA,
// DISP=(NEW,PASS,DELETE),
// SPACE=(TRK,(1,1,1)),
// DCB=(LRECL=80,BLKSIZE=3120,RECFM=FB,DSORG=PO)
/**
//STEP05 EXEC PGM=IRXJCL,PARM='SYS'
//SYSEXEC DD DSN=&&PDS,DISP=(OLD,DELETE,DELETE)
//SYSTSPRT DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//OUT1 DD DISP=MOD,DSN=seqpref.db2id.DSNZPARM
//SYSTSIN DD DUMMY
/*
```

### **JCL3**

The following JCL will produce files containing database statistics collected querying the DB2 catalog.

Cut and paste it in your JCL library, and do the following customizations:

- CHANGE prefix TO YOUR DB2 LIB PREFIX
- CHANGE db2id TO YOUR DB2 ID
- CHANGE seqpref TO OUTPUT FILE PREFIX
- CHANGE aulplan TO DSNTIAUL PLAN (default is DSNTIB81 in 8.1 or DSNTIB91 in 9.1)

```
//STEP01 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=*
```



```
//SYSIN DD *
DELETE seqpref.db2id.DBCOUNT
/*
/**
//STEP02 EXEC PGM=IKJEFT01,DYNAMNBR=20
//STEPLIB DD DISP=SHR,DSN=db2id.DB2.SDSNLOAD
//SYSTSPRT DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSPUNCH DD SYSOUT=*
//SYSTSIN DD *
DSN SYSTEM(db2id)
RUN PROGRAM(DSNTIAUL) PLAN(aulplan) PARM('SQL') -
LIB('prefix.RUNLIB.LOAD')
/*
//SYSREC00 DD DISP=(,CATLG),DSN=seqpref.db2id.DBCOUNT,
// UNIT=SYSDA,SPACE=(CYL,(1,1)),
// DCB=(LRECL=133,RECFM=FB,BLKSIZE=0)
//SYSUDUMP DD DUMMY
//SYSIN DD *
SELECT * FROM (
SELECT SUBSTR(CURRENT SERVER,1,4) ,
SUBSTR('; ',1,1) ,
SUBSTR(CURRENT MEMBER,1,4) ,
SUBSTR('; ',1,1) ,
SUBSTR(DBNAME,1,24) ,
SUBSTR('; ',1,1) ,
SUBSTR(TSNAME,1,24) ,
SUBSTR('; ',1,1) ,
DIGITS(PARTITION) ,
SUBSTR('; ',1,1) ,
DIGITS(DECIMAL((CARDF))) ,
SUBSTR('; ',1,1) ,
SUBSTR(DIGITS(DECIMAL((SPACEF)/(1024),8,2)),1,6)
!!!.!!!
SUBSTR(DIGITS(DECIMAL((SPACEF)/(1024),8,2)),7,2),
SUBSTR('; ',1,1) ,
(DATE(STATSTIME))
FROM SYSIBM.SYSTABLEPART
) AS TBDUM;
/*
/**
//STEP03 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=*
//SYSIN DD DUMMY
//SYSUT1 DD DATA,DLM=EE
/* REXX */
TRACE 'O'
CVTADDR = C2D(STORAGE(10,4)) /* CVTADDR FROM PSA + X'10' */
AMB = STORAGE(D2X(CVTADDR+X2D('154'))),8)
DD = DATE()
R.0=1
R.1='EPV ==> SYSNAME' AMB DD
"EXECIO * DISKW OUT2 (STEM R. FINIS"
IF RC <> 0 THEN EXIT 8
EXIT 0
```



```
EE
/**
//SYSUT2 DD DSN=&&PDS(SYS),UNIT=SYSDA,
// DISP=(NEW,PASS,DELETE),
// SPACE=(TRK,(1,1,1)),
// DCB=(LRECL=80,BLKSIZE=3120,RECFM=FB,DSORG=PO)
/**
//STEP04 EXEC PGM=IRXJCL,PARM='SYS'
//SYSEXEC DD DSN=&&PDS,DISP=(OLD,DELETE,DELETE)
//SYSTSPRT DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//OUT2 DD DISP=MOD,DSN=seqpref.db2id.DBCOUNT
//SYSTSIN DD DUMMY
/*
```

### **JCL4**

The following JCL will produce files containing index statistics collected querying the DB2 catalog.

Cut and paste it in your JCL library, and do the following customizations:

- CHANGE prefix TO YOUR DB2 LIB PREFIX
- CHANGE db2id TO YOUR DB2 ID
- CHANGE seqpref TO OUTPUT FILE PREFIX
- CHANGE aulplan TO DSNTIAUL PLAN (default is DSNTIB81 in 8.1 or DSNTIB91 in 9.1)

```
//STEP01 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
DELETE seqpref.db2id.IXCOUNT
/*
/**
//STEP02 EXEC PGM=IKJEFT01,DYNAMNBR=20
//STEPLIB DD DISP=SHR,DSN=db2id.DB2.SDSNLOAD
//SYSTSPRT DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSPUNCH DD SYSOUT=*
//SYSTSIN DD *
DSN SYSTEM(db2id)
RUN PROGRAM(DSNTIAUL) PLAN(aulplan) PARMS('SQL') -
LIB('prefix.RUNLIB.LOAD')
/*
//SYSREC00 DD DISP=(,CATLG),DSN=seqpref.db2id.IXCOUNT,
// UNIT=SYSDA,SPACE=(CYL,(1,1)),
// DCB=(LRECL=133,RECFM=FB,BLKSIZE=0)
//SYSUDUMP DD DUMMY
//SYSIN DD *
SELECT * FROM (
SELECT SUBSTR(CURRENT SERVER,1,4) ,
SUBSTR('; ',1,1) ,
SUBSTR(CURRENT MEMBER,1,4) ,
SUBSTR('; ',1,1) ,
```



```
        SUBSTR(DBNAME,1,24)           ,
        SUBSTR('; ',1,1)             ,
        SUBSTR(INDEXSPACE,1,24)      ,
        SUBSTR('; ',1,1)             ,
        DIGITS(PARTITION)            ,
        SUBSTR('; ',1,1)             ,
        DIGITS(DECIMAL((CARDF)))     ,
        SUBSTR('; ',1,1)             ,
        SUBSTR(DIGITS(DECIMAL((SPACEF)/(1024),8,2)),1,6)
        !!!'!!!
        SUBSTR(DIGITS(DECIMAL((SPACEF)/(1024),8,2)),7,2),
        SUBSTR('; ',1,1)             ,
        (DATE(STATSTIME))            ,
        SUBSTR('; ',1,1)             ,
        (DATE(LASTUSED))
FROM SYSIBM.SYSINDEXPART ,
(SELECT DBNAME,TBNAME,INDEXSPACE,NAME AS XNAME,CREATOR AS XCREATOR
FROM SYSIBM.SYSINDEXES ) AS TBX ,
(SELECT DBNAME AS SDBNAME,NAME AS SNAME,CREATOR AS SREATOR
, PARTITION AS SPARTITION, LASTUSED
FROM SYSIBM.SYSINDEXSPACESTATS ) AS TBXS
WHERE IXNAME      = XNAME
AND IXCREATOR    = XCREATOR
AND IXNAME       = SNAME
AND IXCREATOR    = SREATOR
AND PARTITION    = SPARTITION
) AS TBDUM;
/*
/**
//STEP03 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=*
//SYSIN DD DUMMY
//SYSUT1 DD DATA,DLM=EE
/* REXX */
TRACE 'O'
CVTADDR = C2D(STORAGE(10,4)) /* CVTADDR FROM PSA + X'10' */
AMB = STORAGE(D2X(CVTADDR+X2D('154'))),8)
DD = DATE()
R.0=1
R.1='EPV ==> SYSNAME' AMB DD
"EXECIO * DISKW OUT2 (STEM R. FINIS"
IF RC <> 0 THEN EXIT 8
EXIT 0
EE
/**
//SYSUT2 DD DSN=&&PDS(SYS),UNIT=SYSDA,
// DISP=(NEW,PASS,DELETE),
// SPACE=(TRK,(1,1,1)),
// DCB=(LRECL=80,BLKSIZE=3120,RECFM=FB,DSORG=PO)
/**
//STEP04 EXEC PGM=IRXJCL,PARM='SYS'
//SYSEXEC DD DSN=&&PDS,DISP=(OLD,DELETE,DELETE)
//SYSTSPRT DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
```





```
//OUT2      DD DISP=MOD,DSN=seqpref.db2id.IXCOUNT  
//SYSTSIN   DD DUMMY  
/*
```



## 5.2 Transfer data to PC

When transferring variable data (VB or VBS) from the mainframe to other platforms it is obviously important to do that without corrupting the logical structure of the records. The JCL to use differs slightly depending on the available File Transfer (FT) tools used.

### **JCL5 – (you need to use the standard IBM FTP)**

The following JCLs will transfer the SMF files produced using the standard IBM FTP. Records are read as if in undefined format in order to avoid FTP eliminating the VB and VBS headers and so corrupting the records. As stated in the comments it is essential not to change the RECFM and BLKSIZE parameters. It's also required that the transfer is done in binary mode.

Cut and paste it in your JCL library, and do the following customizations:

- CHANGE *smfpref* TO INPUT AND OUTPUT FILE PREFIX
- CHANGE FTP parameters (*your.ftp.host.address, user and password*) to appropriate values

```
/* DO NOT CHANGE RECFM=U NOR BLKSIZE=32760 ON //DDSMF
//FTPSTMT EXEC PGM=FTP,PARM='(EXIT)'
//SYSPRINT DD SYSOUT=*
//OUTPUT DD SYSOUT=*
//DDSMF DD DSN=smfpref.VBS,DCB=RECFM=U,BLKSIZE=32760,DISP=SHR
//INPUT DD *
your.ftp.host.address
user password
quote PASV
bin
put //DD:DDSMF /smfpref.smf
close
quit
/*
```

### **JCL 6**

The following JCLs will transfer the sequential files produced using the standard IBM FTP. *You only have to substitute JCL and commands in the second step to run any different FT tool.*

Cut and paste it in your JCL library, and do the following customizations:

- CHANGE *db2id* TO YOUR DB2 ID
- CHANGE *seqpref* TO OUTPUT FILE PREFIX
- CHANGE FTP parameters (*your.ftp.host.address, user and password*) to appropriate values

```
//FTPSTAT EXEC PGM=FTP,PARM='(EXIT)'
//SYSPRINT DD SYSOUT=*
//OUTPUT DD SYSOUT=*
```



```
//INPUT DD *  
your.ftp.host.address  
user password  
quote PASV  
ascii  
put `seqpref.db2id.DSNZPARM' db2id.DSNZPARM.TXT  
put `seqpref.db2id.DBCOUNT' db2id.DBCOUNT.TXT  
put `seqpref.db2id.IXCOUNT' db2id.IXCOUNT.TXT  
close  
quit  
/*
```



**JCL5.1 – (alternative to JCL5 if you don't use the standard IBM FTP)**

The following JCL will transfer the files produced using tools other than the standard IBM FTP. A first preliminary IEBGENER step changes the DSCB from VB and VBS to undefined format. A second step transfers the data. It's required that the transfer is done in binary mode.

*In the following examples we refer to IBM FTP, you have to substitute JCL and commands in the second step with the ones required to run your FT tool.*

Cut and paste it in your JCL library, and do the following customizations:

- CHANGE *smfpref* TO INPUT AND OUTPUT FILE PREFIX
- CHANGE FTP parameters (*your.ftp.host.address, user and password*) to appropriate values

```
/* DO NOT CHANGE RECFM=U NOR BLKSIZE=32760 ON BOTH DD
//UNDSMF EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=*
//SYSUT2 DD DSN=smfpref.VBS,DISP=MOD,
// DCB=RECFM=U
//SYSUT1 DD DSN=NULLFILE,DCB=*.SYSUT2
//SYSIN DD DUMMY
/*
//FTPSMF EXEC PGM=FTP,PARM='(EXIT'
//SYSPRINT DD SYSOUT=*
//OUTPUT DD SYSOUT=*
//INPUT DD *
your.ftp.host.address
user password
quote PASV
bin
put 'smfpref.VBS' /smfpref.smf
close
quit
/*
```



### 5.3 Compress the data

When the data is on PC you should compress it (the compression factor is usually very high). Please be aware that compression tools may have limitations on the size of the file they can compress.

### 5.4 Send the data

You can send data to EPV Technologies in two main ways:

- Uploading the data to the EPV FTP server;
- Creating a CD/DVD and sending it to our local distributor or directly to EPV Technologies via a courier service.

It's always better before to send a small file with only one SMF record type by FTP or e-Mail, so we can confirm everything is correct before spending time sending large amounts of data.



## 6 Customer support

For any technical problem with or question about EPV for DB2 please write an email to:

[epv.support@epvtech.com](mailto:epv.support@epvtech.com)

For any other issue about EPV for DB2 please write an email to:

[epv.info@epvtech.com](mailto:epv.info@epvtech.com)



## Related documentation

The following manuals complement the information provided in this manual:

- *EPV for DB2 V7 Installation and Customization Guide*
- *EPV for DB2 Plus V7 Installation and Customization Guide*
- *EPV for DB2 V7 List of Views*
- *EPV for DB2 V7 Release Notes*
- *EPV for DB2 V7 DataBase Layout*
- *EPV V11 User Interface*