

## Apply PTFs from the Internet

This document describes the preparation required if you received PTFs over the Internet. The shipment you received consists of several files, a readme file, the PTF cover letter file and the PTF file itself. The readme and cover letter files are plain text and can be read without being transferred to the z/VSE system. The PTF file includes all the PTFs ordered and has to be transferred to the z/VSE system as a binary file. The PTF file might be compressed using the ZIP facility. Before you transfer it to z/VSE, please UNZIP it first.

Transfer to the z/VSE system can be done in several ways. It is recommended to transfer to a VSE/VSAM file called IJSYSPF (PTF.FILE) which is pre-defined on the z/VSE system and used by the PTF application dialog, or to use z/VSE Virtual Tape support. For older z/VSE or VSE/ESA systems, a tape is required as the application medium. In this case, a z/VSE library is needed as intermediate storage.

Following is a detailed description of the various methods to transfer the PTF file to the z/VSE system, in order of ease of use and effectiveness:

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- Using z/VSE Virtual Tape Support on page 3
- Using IND\$FILE file transfer (if TCP/IP is not available) on page 4
- Transfer PTF file to tape on page 5

### How PTF Application should NOT be done

PTF files should **NOT** be transferred directly to the z/VSE system (VSE/POWER reader), because:

- PRE- and CO-requirements may not be fulfilled due to wrong order of PTFs, CO-requirements will not work at all.
- VSE/POWER JECL included in the data part of the PTFs will be processed while running the job. This leads to modified contents of the PTF and also might cause the code to be incomplete.
- Missing VSE/POWER JECL in the PTF file causes VSE/POWER to extract z/VSE JOB cards, this also leads to modified contents of the PTF and may also be incomplete due to job termination.
- No indirect application possible.

## Using TCP/IP FTP

Please follow these instructions to upload the PTF file into IJSYSPF (PTF.FILE):

1. Transfer the PTF file directly to disk into the VSE/VSAM file IJSYSPF. The file needs to be defined in TCP/IP:

```
DEFINE FILE,TYPE=ESDS,DLBL=IJSYSPF,PUBLIC=' IJSYSPF '
```

Alternatively you can define the whole file system using:

```
DEFINE FILESYS,LOCATION=SYSTEM,TYPE=PERM
```

In that case the file IJSYSPF would be called PTF.FILE per default. You would use the name PTF.FILE instead of IJSYSPF when doing FTP PUT (see below).

The transfer has to be done with the parameter binary and record format fixed blocked (quote site recfm fb), logical record length 80 (quote site lrecl 80), block size 10320 (quote site blksize 10320). Following is a sample protocol of such a transfer:

```
C:\Temp>ftp 9.164.170.30
Connected to 9.164.170.30
220-TCP/IP for VSE Internal FTPDAEMN 01.05 E 20050303 15.52
Copyright (c) 1995,2004 Connectivity Systems Incorporated
Service ready for new user.
User (9.164.155.2:(none)): SYSA
331 User name okay, need password.
Password: *****
230 User logged in, proceed.
ftp> quote site unix off
200 Command okay.
ftp> bin
200 Command okay.
ftp> quote site recfm fb
200 Command okay.
ftp> quote site lrecl 80
200 Command okay.
ftp> quote site blksize 10320
200 Command okay.
ftp> put ptffile.bin IJSYSPF
```

**Note:** The IJSYSPF file was delivered with an incorrect definition on z/VSE V5.2. In order to apply service from disk it is necessary to redefine this file prior to service application. This can be done by changing and then submitting skeleton SKPTFILE in library 59 from:

```
RECORDSIZE (80,10320) -
```

```
RECORDFORMAT (FIXBLK (10320))      -  
to  
RECORDSIZE (80,10320)              -  
RECORDFORMAT (FIXBLK (80))         -
```

This skeleton is corrected in PTF UI17100.

2. Apply service using the dialog, service medium is disk.

## Using z/VSE Virtual Tape Support

In this case a z/VSE Virtual Tape is used to apply the PTFs. The z/VSE Virtual Tape Support will simulate a PTF tape with the binary PTF file. This is only possible when the binary PTF file is on a remote system.

This method is recommended in case of a PTF mass application (fast path 1423). If a backup of affected libraries is intended to be done with the PTF application job stream, the backup step writes to the specified tape address, preferable a real tape. The binary PTF file is simulated as a **read only tape** for z/VSE.

To install a PTF via Virtual Tape Support follow these steps:

1. Download, install and start the VSE Virtual Tape Server on a PC or workstation.
2. Rename the binary PTF file to '**.PTF**', e.g: rename ptffile.bin to ptffile.**ptf**
3. Apply service using the dialog.
  - The service medium is tape.
  - Select to use virtual tape.
  - On panel UTL\$VTA2 specify the IP address or hostname of your PC or workstation (where the z/VSE Virtual Tape Server runs).
  - Also specify the full qualified path and file name of the ptffile.ptf file where it resides on your PC or workstation.

## Using IND\$FILE file transfer (if TCP/IP is not available)

In this case, an intermediate medium is required, this can be a z/VSE library member or the Host Transfer File (HTF).

1. Transfer the PTF file to a library member or into the HTF (IUI fast path: 386) using IND\$FILE transfer. Following send commands will transfer to the PRIMARY library:

```
SEND PTFFILE.BIN A:PTFFILE Z (FILE=LIB L=PRIMARY S=SUF LRECL=80 BINARY
```

or to the HTF (IUI fast path: 386):

```
SEND PTFFILE.BIN A:PTFFILE Z (FILE=HTF LRECL=80 BINARY
```

From the intermediate medium, the PTF file can be transferred to disk. This is done using following DITTO job in case the intermediate medium is the VSE library:

```
* $$ JOB JNM=COPYPTF,CLASS=0,DISP=D
// JOB COPYPTF
* PTF MEMBER IS COPIED (AND REBLOCKED)
* TO VSAM FILE IJSYSPF
// LIBDEF *,SEARCH=(PRIMARY.SUF)
// UPSI 1
// EXEC DITTO
$$DITTO LV LIBIN=PRIMARY.SUF,
$$DITTO MEMBERIN=PTFFILE.Z,
$$DITTO FILEOUT=IJSYSPF,
$$DITTO REUSE=YES
/*
/&
* $$ EOJ
```

Or in case the intermediate medium is the HTF, the Move Utility (IUI fast path: 383) to move from HTF to VSE/VSAM can be used. It is required that the IJSYSPF file is defined to CICS. After the move to VSE/VSAM, IJSYSPF needs to be closed (CEMT SET FILE(IJSYSPF) CLOSE).

2. Apply service using the dialog, service medium is disk.

## Transfer PTF file to tape

In this case, an intermediate medium is also required, which must be a library member.

1. Transfer the PTF file to a library member as above (IUI fast path: 386). Following send command will transfer to the PRIMARY library:

```
SEND PTFFILE.BIN A:PTFFILE Z (FILE=LIB L=PRIMARY S=SUF LRECL=80 BINARY
```

2. From the library, following DITTO job will put the PTF file onto tape at address 181:

```
* $$ JOB JNM=COPYPTF,CLASS=0,DISP=D
// JOB COPYPTF
* PTF FILE MUST BE COPIED TO SUBLIB PRIMARY.SUF
* AS MEMBER PTFFILE.Z, FILE TRANSFER MUST BE
* BINARY LRECL 80
// UPSI 1
// PAUSE - PLEASE MOUNT SCRATCH TAPE ON 181
// EXEC DITTO
$$DITTO REW OUTPUT=181
$$DITTO WTM OUTPUT=181,NTMKS=5
$$DITTO LT LIBIN=PRIMARY.SUF,
$$DITTO MEMBERIN=PTFFILE.Z,OUTPUT=181,
$$DITTO RECFMOUT=FB,
$$DITTO BLKSIZE=10320
$$DITTO WTM OUTPUT=181,NTMKS=2
$$DITTO RUN OUTPUT=181
/*
/&
* $$ EOJ
```

3. Apply service using the dialog, service medium is tape.