
IBM i PTF Shipping Information Letter

IBM i CUMULATIVE PTF PACKAGE
INSTALLATION INSTRUCTIONS
SF99720 Level 19123
PACKAGE ID: C9123720
VERSION 7 RELEASE 2.0

Cumulative PTF Package Instructions Last Updated: 05/17/2019

Note: Online copy of this document is the master. Any printed copy should be assumed to be obsolete and not used unless the date of last update is verified to match that shown on the online master copy.

The information contained in this document was current at the time this cumulative PTF package was made available. We recommend you get the most current information (**including a more detailed installation instructions version if desired**) which can be found via the following URL:

<http://www.ibm.com/support/docview.wss?uid=nas8N1021657>

PSP SF98720 lists HIPER PTFs not included in this cumulative PTF package and any defective PTFs identified since this package was released.

You will receive the cumulative PTF package in one of three different formats:

- Electronically downloaded as individual PTF save files
- Electronically downloaded as optical image files
- Physical optical media (when it cannot be downloaded electronically)

The installation instructions contained in this document will guide you through the install steps needed for each format.

REVIEW PTF COVER LETTERS

As with any PTF order, before you install the PTFs you should review the cover letter of each delivered PTF for any special instructions that may need to be followed. When you ordered your cumulative PTF package, you were automatically sent the latest HIPER and Database PTF groups along with the cumulative PTF package. You should review the cover letters for the PTFs in these groups that are applicable to your system. The commands needed for copying and printing (or displaying) the PTF cover letter(s) are included below.

1. COPYING PTF COVER LETTERS:

- Mount the PTF media and sign on using a security officer user profile such as QSECOFR.
- To copy all cover letters from media onto the system for PTFs that are not already applied to your system, enter the following command:

```
CPYPTFCVR DEV(device_name) LICPGM(*ALL) SELECT(*NOTAPY)
```

- To copy a specific cover letter from media onto the system, enter the following command:

```
CPYPTFCVR DEV(device_name) LICPGM(product_id) SELECT(ptf_id)
```

2. DISPLAYING OR PRINTING PTF COVER LETTERS:

- The PTF cover letters must be copied from the media first before they can be displayed or printed.
- To display or print cover letters for all PTFs that are currently not applied on your system, enter one of the following commands:

```
DSPPTFCVR LICPGM(*ALL) SELECT(*NOTAPY)
```

```
DSPPTFCVR LICPGM(*ALL) SELECT(*NOTAPY) OUTPUT(*PRINT)
```

Note: You can also specify CVRATR(*SPCINST) on the DSPPTFCVR command to view all cover letters that have special instructions.

- To display or print a specific cover letter, enter one of the following commands:

```
DSPPTFCVR LICPGM(product_id) SELECT(ptf_id)
DSPPTFCVR LICPGM(product_id) SELECT(ptf_id) OUTPUT(*PRINT)
```

- PTF TC19123 is the Cumulative PTF package cover letter and contains a list of all PTFs contained in this cumulative PTF package. To display the Cumulative PTF package cover letter, enter one of the following commands:

```
DSPPTFCVR LICPGM(5770SS1) SELECT(TC19123)
DSPPTFCVR LICPGM(5770SS1) SELECT(TC19123) OUTPUT(*PRINT)
```

3. NEW - You can also review the special instructions for PTFs in the cumulative package or groups in a convenient format online:

- Cumulative package: <http://www.ibm.com/support/docview.wss?uid=nas4C9123720>
- HIPER PTF group: http://www.ibm.com/support/docview.wss?uid=nas4SF99719_SI
- Database PTF group: http://www.ibm.com/support/docview.wss?uid=nas4SF99702_SI

READ THIS FIRST

1. Failure to follow these instructions may result in failure of your system to operate. Follow the directions carefully every time you install a cumulative PTF package.
2. Cumulative PTF packages must be installed delayed for proper PTF installation. Do NOT use any immediate apply install options to install this package; otherwise, unpredictable results may occur.
3. Vital PTF information: Application of PTFs within this cumulative PTF package may disable or render ineffective programs that use system memory addresses not generated by the IBM® translator, including programs that circumvent control technology designed to limit interactive capacity to purchased levels. These PTFs may be prerequisites for future PTFs. By applying these PTFs you authorize and agree to the foregoing.
4. Each of these PTFs is subject to the terms of the license agreement which accompanied, or was contained in, the Program for which you are obtaining such PTF. You are not authorized to install or use any such PTF except as part of the Program for which you have a valid Proof of Entitlement.

SUBJECT TO ANY WARRANTIES WHICH CAN NOT BE EXCLUDED OR EXCEPT AS EXPLICITLY AGREED TO IN THE APPLICABLE LICENSE AGREEMENT OR AN APPLICABLE SUPPORT AGREEMENT, IBM MAKES NO WARRANTIES OR CONDITIONS EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON INFRINGEMENT, REGARDING EACH PTF.

The applicable license agreement may have been provided to you in printed form and/or may be viewed using the Work with Software Agreements (WRKSWAGR) CL command.

5. Please review the special instructions for the following PTFs which are included in this package if you have the product installed and the PTF (or its Superseded-by PTF) is not already applied.

NOTE: PTF cover letters are available at <http://www.ibm.com/support/docview.wss?uid=nas3PPPPPPP> where PTPPPPP is the PTF number.

```
5761DP4-SI36668
5770HAS-SI57302
```

6. Attention Content Manager OnDemand - 5770RD1 - Users. If you have Content Manager OnDemand - 5770RD1 - installed, please see <http://www.ibm.com/support/docview.wss?uid=swg21427866> for any important special instructions.
7. IMPORTANT - To prevent a PTF load failure from optical media, PTF MF58615 must be active BEFORE installing this cumulative PTF package. Enter the following command to determine if PTF MF58615 is active: DSPPTF LICPGM(5770999) SELECT(MF58615). If the status is Temporarily applied or Permanently applied, the PTF is active. If the status is Superseded, verify that the superseding PTF is Temporarily applied or Permanently applied. If PTF MF58615 is not found or not active, electronically download MF58615 as a save file (via SNDPTFORD or Fix Central "Download

individual fixes" option) and install it from Device *SERVICE BEFORE installing this cumulative PTF package. MF58615 is an immediate PTF and has no requisites.

8. All systems with EXP24S SFF Gen2-bay Drawer (Feature #5887) attached PLEASE READ!
<http://www-01.ibm.com/support/docview.wss?uid=nas8N1020265>
9. If you received this cumulative PTF package as physical optical media, it is strongly recommended that you create an image catalog from the media and perform the PTF install from a virtual optical device. This may avoid multiple IPLs during the PTF installation.
10. The approximate install time for this cumulative PTF package is one to two hours depending on your hardware configuration .
11. You should have a current backup of your system before applying this package. If you have backed up your system since the last time you applied PTFs, that backup is acceptable.
12. If you are running on the A storage area, perform a normal IPL from the B IPL source. To determine the storage area you are running from, type DSPPTF 5770999 and press Enter. On the Display PTF Status display, the storage area is identified in the IPL source field. ##MACH#A is the A storage area and ##MACH#B is the B storage area.
13. Be sure the IPL mode is set at Normal on the control panel and sign on using a security officer user profile such as QSECOFR.
14. DO NOT cancel any of the steps once they are started. Allow each step to complete normally.
15. Select the appropriate INSTALL steps below based on the format in which you received the cumulative PTF package.
16. WARNING - 5770JV1 Option 16 (JDK 8.0 32-bit) and 5770JV1 Option 17 (JDK 8.0 64-bit) are required to be installed before installing this package if you use Electronic Service Agent (ESA) or Management Central (MGTC). For information on how to obtain these options and Java PTF group (SF99716) requirements, see <http://www.ibm.com/support/docview.wss?uid=nas8N1020692>
17. The PTF install processing will automatically pre-apply the following PTFs when applicable: 5770999-MF64784, 5770999-MF64476, 5770999-MF64228, 5770SS1-SI65024, 5770SS1-SI64731 and 5770SS1-SI69061. NOTE: PTFs that need to be manually pre-applied are listed earlier in this READ THIS FIRST section.

INSTALL FROM *SERVICE

If you received the cumulative PTF package electronically as individual PTF save files, refer to the INSTALL FROM *SERVICE section in the detailed installation instructions.

INSTALL FROM OPTICAL IMAGE FILES

Use these steps when you ordered and received the cumulative PTF package electronically as optical image files:

1. Create your image catalog and add the image files to the catalog. For information on how to create an image catalog refer to the IBM Knowledge Center: http://www.ibm.com/support/knowledgecenter/ssw_ibm_i_72/rzam8/rzam8fixinstallimage.htm (IBM i 7.2>IBM i and related software>Maintaining and managing IBM i and related software>Using software fixes>Installing fixes>Step 3: Choosing your fix installation scenario>Installing IBM i fixes from an image catalog).
2. Load the image catalog into the virtual optical device using the following command:
`LOADIMGCLG IMGCLG(ptfcatalog) DEV(OPTVRTxx) OPTION(*LOAD)`
3. Type GO PTF and press the Enter key.
4. Take menu option 8 and press the Enter key.
5. If the Continue PTF Install display is shown, press the Enter key.
6. Review the appropriate options and notes which follow, below, then complete the Install Options for Program Temporary Fixes screen and press the Enter key.

```
Device . . . . . OPTVRTxx (for example, OPTVRT01)
Automatic IPL . . Y = Yes or N = No
Prompt for media . 1 or 3
Restart type . . . *SYS
Other options . . . Y = Yes
```

Note: If you have received individual and/or PTF groups as save files that you want to install at the same time as the cumulative PTF package, type 3 in the Prompt for media field.

7. Review the appropriate options and notes which follow, below, then complete the Other Install Options screen and press the Enter key.

```
Omit PTFs . . . N = No or Y = Yes
Apply type . . . 1 = Set all PTFs delayed
PTF type . . . . 1 = All PTFs
Copy PTFs . . . N = No or Y = Yes
```

Note: Depending on the previous options specified, some fields above may not be shown.

Note: If you have PTFs to omit, type Y in the Other Options field and follow the directions on the displays which follow. Refer to Appendix A in the detailed installation instructions section on omitting PTFs.

8. The display shows the licensed programs for which PTFs are being loaded. All volumes that are loaded in the image catalog are automatically processed.
9. Continue with the COMPLETE THE INSTALL PROCESS section.

INSTALL FROM OPTICAL MEDIA

Use these steps when you ordered and received the cumulative PTF package as physical optical media:

1. Enter the following command and press the Enter key.

```
CHGMSGQ QSYSOPR *BREAK SEV(70)
```

This step ensures a break message will appear if the system determines you should mount the next volume. **IMPORTANT**—If there are no PTFs on the other volumes that are applicable to your system, the system will not prompt you for the other volumes.

2. Ensure volume one of the cumulative PTF package media, labeled C9123720_01, is loaded in the appropriate drive for the media you are using.
3. Type GO PTF and press the Enter key.
4. Take menu option 8 and press the Enter key.
5. If the Continue PTF Install display is shown, press the Enter key.
6. Review the appropriate options and notes which follow, below, then complete the Install Options for Program Temporary Fixes screen and press the Enter key.

```
Device . . . . . OPTxx (for example, OPT01)
Automatic IPL . . . Y = Yes or N = No
Prompt for media . 2 or 3
Restart type . . . *SYS
Other options . . . Y = Yes
```

Note: Enter a 2 in the Prompt for media field in order to install the HIPER and Database PTF groups along with your cumulative PTF package.

If you have received individual and/or PTF groups as save files that you want to install at the same time as the cumulative PTF package, type 3 in the Prompt for media field.

7. Review the appropriate options and notes which follow, below, then complete the Other Install Options screen and press the Enter key.

Omit PTFs . . . N = No or Y = Yes
Apply type . . . 1 = Set all PTFs delayed
PTF type . . . 1 = All PTFs
Copy PTFs . . . N = No or Y = Yes

Note: Depending on the previous options specified, some fields above may not be shown.

Note: If you have PTFs to omit, type Y in the Other Options field and follow the directions on the displays which follow. Refer to Appendix A in the detailed installation instructions section on omitting PTFs.

8. The display shows the licensed programs for which PTFs are being loaded.
 - a. After each volume is processed, you will receive a message to mount the next volume. Load the volume indicated and use the G option to continue.
 - b. After all the applicable volumes for the cumulative PTF package have been processed, you will automatically be prompted to mount the first volume of the next media set in order to install the HIPER and Database PTF groups. Mount the first volume in the set and use the G option to continue.
 - c. Continue mounting any additional volumes. When all your volume sets have been processed, use the X option to complete the PTF installation.

Note: If there are volumes that contain PTFs that are not applicable to your system, the system will not prompt you to mount those volumes.

9. Continue with the COMPLETE THE INSTALL PROCESS section.

COMPLETE THE INSTALL PROCESS

Use these steps to complete the install process.

1. If the Confirm IPL to Complete PTF Install display is shown:
 - a. End all jobs on the system and perform a normal mode IPL to the B IPL source. If you are installing from optical image files, do not delete the image catalog until after the next normal IPL completes.
 - b. When the Sign On display is shown, continue with step 4.
2. If the Confirm IPL for Technology Refresh PTFs display is shown:
 - a. Press F10 to end all jobs on the system and IPL the system. Note: If an IPL cannot be performed right away, press F12 to Cancel the process. Schedule to IPL the system at the earliest convenience.
 - b. When the Sign On display is shown, go back and start the installation of this cumulative PTF package again. (The next time through these instructions, you will not get this display.) If you are installing from optical media, start again with STEP 1 of INSTALL FROM OPTICAL MEDIA section.
3. If you entered a Y (Yes) for the Automatic IPL option, the system will be IPLed automatically. If you entered N (No) for the Automatic IPL field, you must use the following command when you are ready to activate the fixes:
PWRDWSYS OPTION(*IMMED) RESTART(*YES) IPLSRC(B)
4. After the IPL completes, use the following procedure to verify the cumulative PTF package was properly installed:
 - a. Sign on using a security officer user profile such as QSECOFR.
 - b. Type WRKPTFGRP SF99720 on any command line.
 - c. If the Status field is "Installed" and the Level field is "19123", continue with step 5 on page 6, otherwise, continue with step 4d.
 - d. Type GO LICPGM on any command line.
 - e. Press the Enter key. The Work with Licensed Programs display is shown.
 - f. Select option 50.
 - g. Press the Enter key. The Install History display is shown.
 - h. Press the Enter key. The Display History Log Contents display appears.

- If the cumulative PTF package was installed successfully, you will see messages indicating the applying of PTFs completed. Continue with step 5.
- If the cumulative PTF package was not installed successfully, you will see messages indicating the applying of PTFs failed. Contact your provider of software service for assistance.
- If the previous IPL was abnormal, only PTFs for the Licensed Internal Code will be applied (5770999). You can check if the previous IPL was abnormal by typing the following command:

```
DSPSYSVAL SYSVAL(QABNORMSW)
```

If the IPL was abnormal and you are installing this package immediately after a system install, perform the IPL again to apply the remaining PTFs.

5. You can resume normal system operation at this time. You should back up your system again at your earliest convenience.

If you have comments or concerns with cumulative PTF packages, contact your provider of software service.