

Juniper Networks® CTPOS Release 9.1R6 Software

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RELEASE

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About This Guide

This release notes accompany Release 9.1R6 of the CTPOS software. They describe device documentation and known problems with the software.

You can also find these release notes on the Juniper Networks CTP software documentation webpage, which is located at [CTP Series Release Notes](#).

Release Highlights

Starting in CTPOS 9.1R6, we have introduced:

1. A new generation-4 processor (PPF84).

All the Gen-4 CTP platforms (CTP2008-AC-04, CTP2008-DC-04, CTP2024-AC-04, CTP2024-DC-04, CTP2056-AC-04, CTP2056-DC-04) will have the new PPF84 processor.

NOTE: CTP2000-IM-2W-FXS (existing version) interface module is NOT supported in CTP2008-AC-04, CTP2008-DC-04, CTP2024-AC-04, CTP2024-DC-04, CTP2056-AC-04, or CTP2056-DC-04 chassis.

The Gen-4 CTP2000 platforms support ONLY the CTP2000-IM-2W-FXS-B version.

2. The following line cards:

- CTP2000-IM8PT1E1-B—Provides the standard software-configurable T1/E1 data interfaces, 8 port
- CTP2000-IM8P-B—Provides the standard software-configurable data interfaces, including EIA530, EIA530A, RS-232, and V.35; 8 port
- CTP2000-IM8P-MS-B—Provides the standard software-configurable data interfaces, plus it can be configured for 4WTO, Audio, IRIG-B or TDC; 8 port
- CTP-FIBER-XMC-04—Supports XMC PCIe x4 Gen 2 interface
- CTP2000-MEM-04-S—CTP2000 NVME for Gen 4 processor
- CTP2000-CLK-MAIN-A—CTP2000 main clock card
- CTP2000-CLK-SPOKE-A—CTP2000 spoke clock card

NOTE:

- The new PPF84 processor is backward compatible with the older line cards. For more detailed information about compatibility, contact JTAC.
- CTPOS Release 9.1R6 is supported on both CTP151 and CTP2000 Series devices.
- You can upgrade to CTPOS 9.1R6 through manual upgrade, USB image (only for Gen 4 and CTP151), or through CTPView 9.1R6 software.
- You can use CTPView 9.1R6 to perform the upgrade from CTPOS 9.1R3 to 9.1R6, or manually upgrade from CTPOS 9.1R3 to 9.1R6 using CTPOS CLI.

Upgrade Information

You can upgrade to CTPOS 9.1R6 from CTPOS 7.3R7/R8, 9.0R1, or 9.1R1/R2 through a two step upgrade process.

If you are upgrading a CTP2000 or a CTP151 platform to CTPOS 9.1R6, you must first upgrade to CTPOS 9.1R3-4, and then upgrade to CTPOS 9.1R6.

Here are the possible upgrade paths:

Table 1: CTPOS Upgrade Path

Model / Platform	Existing CTPOS Version	Version Path
CTP2000	7.3R7/R8	7.3R7/R8 > 9.1R3-4 > 9.1R6
CTP2000	9.0R1	9.0R1 > 9.1R3-4 > 9.1R6
CTP151	9.1R1/R2	9.1R1/R2 > 9.1R3-4 > 9.1R6

NOTE: CTPOS 9.1R3-4 is required to dual image your compact flash or SSD.

There are three ways through which you can upgrade to 9.1R6:

1. Using CTPView 9.1R6
 2. Manually upgrading via the CTP shell
 3. Using USB (only for CTP151)
- To upgrade using CTPView 9.1R6, see [Upgrading to Dual Image](#).
 - To manually upgrade to CTPOS 9.1R6 image, place the `acorn_310_9.1R6_240329.tgz` package in `/tmp` folder of the CTP node and run **upgrade y** command.

Example:

```
[root@ctp_143:/home/ctp_cmd 2]# cd /tmp
[root@ctp_143:/tmp 3]# ls
acorn_310_9.1R6_240329.tgz
[root@ctp_143:/tmp 4]# upgrade y
CTP system software upgrade utility - Version 1.5.0
Found kernel version 3.14.39ltsi-WR7.0.0.27_standard, setting KVER to 310
```

Checking for active menu sessions

Found USB storage device... Mounting

System version is 310

Here is a list of all the found compatible CTP code archive files:

`/tmp/acorn_310_9.1R6_240329.tgz`

•
•
•

- To upgrade from USB image, see [Upgrading to Dual Image](#)

NOTE:

- When you are installing dual image from USB, first uncompress `ctpos_usb_install_9.1R6_ctp2k-04_ctp151_240329.img.gz` file using `gunzip` tool on your server, and use the `ctpos_usb_install_9.1R6_ctp2k-04_ctp151_240329.img`.
- If FPGA version on card is mismatched then SCP the FPGA acorn package `acorn_310_240313_fpga_150_s2c_t24_S04_T05_2000_s1f_t32_S05_T0A.tgz` in `/tmp` folder of CTP node and run `upgrade y` command. You must upgrade, one by one, those cards that show as mismatch. After successful FPGA upgrade, reboot the CTP node.

Resolved Issues in CTPOS Release 9.1R6

The following issues have been resolved in CTPOS Release 9.1R6.

- T1E1 and Serial IMs BERT is not working after reboot. [PR 1759938]
- Add support for flash programming on the new CTP2000 Series cards (CTP2000-IM8PT1E1-B, CTP2000-IM-8P-B, CTP2000-IM-8P-MS-B). [PR 1762945]
- Add the script get_image_ctpos_ver.sh to CTPOS software. [PR 1763065]
- BERT "Total Errors" count is incrementing continuously on GL analyzer for CESoPSN bundle with port & bundle signaling ON. [PR 1771524]
- T1 CESoPSN bundle is not working with 6 TS when port signaling on and bundle signaling off. [PR 1779110]
- CTP node hanged on doing CTP related operations (like-upgrade, ctp restart) when the new serial card is present. [PR 1780197]
- Ethernet enumeration order not consistent when XMC card is present on CTP2K node. [PR 1780615]
- Diag test is failing on newly introduced CTP2000-IM8PT1E1-B, CTP2000-IM-8P-B, CTP2000-IM-8P-MS-B cards/ports. [PR 1781069]

Known Issues in CTPOS Release 9.1R6

The following PR is a known issue in CTPOS Release 9.1R6.

- Analog voice cards are not detected on PPF84 (Gen4) after reboot. [PR 1723366]

The following PRs are known issues in both CTPOS 9.1R6 and CTPView 9.1R6 software.

- Unidirectional and Bi-directional remote CTP IPv6 bundle is not working on CTP151. [PR 1612155]
- L2Aggregator functionality is not working on CTP2000-IM8P-B and CTP2000-IM-8P-MS-B cards. [PR 1781032]
- Provide support of CESoPSN Bundles over IPv6 only protocol and IPv4 and IPv6 protocol on CTP nodes. [PR 1290128]
- Remote and hairpin CTP IPv6 bundle is not working on MS-4WTO port. [PR 1618593]

- PBS functionality is not working on CTP2000 Series card (CTP2000-IM-8P-B). [PR 1781033]

Required Install files

Following files are provided for installing the CTPOS software:

Table 2:

File	Filename	MD5 Checksum
USB Install Image	ctpos_usb_install_9.1R6_ctp2k-04_ctp151_240329.img.gz	6c10078b792f68daffdf51d82a64bce5
CTPOS complete package	ctp_complete_9.1R6_240329.tgz	cfe778dc5b98f6e54c6d17dcf6c08fe3
CTPOS acorn package	acorn_310_9.1R6_240329.tgz	7d2e7eb360984b489da50313e88b91fe
CTPOS FPGA acorn package	acorn_310_240313_fpga_150_s2c_t24_S04_T05_2000_s1f_t32_S05_T0A.tgz	228c777934a1ef97e39f45e4c17ea6e1

Known Limitations in CTPOS Release 9.1R6

- None.

Revision History

June 2024—Revision 1—CTPOS Release 9.1R6

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