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Juniper Networks® CTPOS Release 9.1R6-2 Software

Published
2025-07-15

RELEASE

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About This Guide

This release notes accompany Release 9.1R6-2 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 and CTPOS 9.1R6-2, 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.
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 9.1R6-2 is supported on both CTP151 and CTP2000 Series devices.
- You can upgrade to CTPOS 9.1R6-2 through manual upgrade and through CTPView 9.1R6 software.
- You can use CTPView 9.1R6 to perform the upgrade from CTPOS 9.1R3 to 9.1R6-2, or manually upgrade from CTPOS 9.1R3 to 9.1R6-2 using CTPOS CLI.

Upgrade Information

You can upgrade to CTPOS 9.1R6-2 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 9.1R6-2, you must first upgrade to CTPOS 9.1R3-4, and then upgrade to CTPOS 9.1R6-2.

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 > 9.1R6-2
CTP2000	9.0R1	9.0R1 > 9.1R3-4 > 9.1R6-2
CTP151	9.1R1/R2	9.1R1/R2 > 9.1R3-4 > 9.1R6-2

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 9.1R6-2:

1. Using CTPView 9.1R6
2. Manually upgrading via the CTP shell
3. Using USB (only for CTP151)

- To upgrade from CTPView procedure, copy `ctp_complete_9.1R6-2_240514.tgz` in **/ctp** of CTPView 9.1R6 and run `upgrade` from CTPView.
- To manually upgrade to CTPOS 9.1R6-2 image, place the `acorn_310_9.1R6-2_240514.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_9.1R6-2_240514.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_9.1R6-2_240514.tgz
.
.
.
```

- To upgrade from USB image, see Upgrading to Dual Image

> **NOTE**: If FPGA version on card is mismatched then SCP the FPGA acorn package *acorn_310_240514_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 9.1R6-2

The following issue has been resolved in CTPOS Release 9.1R6-2.

- CTP2000 Series chassis display on Gen4 when FXS card is present.[PR 1810474]

Known Issues in CTPOS Release 9.1R6-2

The following PRs are known issues in CTPOS Release 9.1R6-2.

- Analog voice cards are not detected on PPF84 (Gen4) after reboot. [PR 1723366]
- Unidirectional and Bi-directional remote CTP IPv6 bundle is not working on CTP151. [PR 1612155]
- L2Aggregator functionality is not working on CTP2000 card (CTP2000-IM-8P-MS-B). [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]
- CTPOS version must be accurate regardless of the display methods (Grub, cli menu, cmd -v, etc) [PR 1881491]

  CTPs that are upgraded from 9.1R3-x to 9.1R6-x show the wrong version (9.1R3 is displayed instead of 9.1R6-x) when checking the cli menu under *7) Dual Image Boot Operations* or at boot time in the grub loader screen. The correct version can be found under *node summary* in the cli menu or by typing *cmd -v* in the shell.

Required Install or Upgrade files

Following files are provided for upgrading the CTPOS software:

Table 2:

File	Filename	MD5 Checksum
CTPOS complete package	ctp_complete_9.1R6-2_240514.tgz	9bff0e8190a84b4fb59f95fdebc38226
CTPOS acorn package	acorn_310_9.1R6-2_240514.tgz	3452c21dd73258263a1203d2e3401d31

Table 2: ***(Continued)***

File	Filename	MD5 Checksum
CTPOS FPGA acorn package	acorn_310_240514_fpga_150_s2c_t24_S04_T05_2000_s1f_t32_S05_T0A.tgz	f24105b3329234c9b2b0a42b44cd785c

Known Limitations in CTPOS Release 9.1R6-2

- None.

Revision History

July 2025—Revision 2—CTPOS Release 9.1R6-2.

Added PR 1881491 in Known Issues section.

May 2024—Revision 1—CTPOS Release 9.1R6-2.