



JUNIPER NETWORKS CTP151 Circuit to Packet Platform Instructions

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JUNIPER NETWORKS CTP151 Circuit to Packet Platform

INSTRUCTION MANUAL

Juniper Networks® CTPOS Release 9.2R1 Software

About This Guide

This release notes accompany Release 9.2R1 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 9.2R1:

1. We have merged CTPOS 9.1Rx code changes to CTPOS 9.2R1 code base. [PR 1817129] 2. You can run addition virtual machine-based application on the CTP151 platform simultaneous with standard CTP operations. [PR 1565593] 3. We have added support for unity input gain version of MS-DCARD.

The unity gain version of the MS-DCARD is needed for support of a CESoPSN bundles that connects a 4WTO port with a T1/E1 port.

Without a new version of the MS-DCARD, there will be significant attenuation in the 4WTO > T1 direction (about -10dB). [PR 1569847]

Upgrade Information

You can upgrade to CTPOS 9.2R1 dual image from CTPOS 9.1R1/9.1R2/9.1R3-x/9.1R5/9.1R6-x.

Here are the possible upgrade paths:

Table 1: CTPOS Upgrade Path

| Model / Platform | Existing CTPOS Version | Version Path |
|------------------|---------------------------------------|--|
| CTP151 | 9.1R1/9.1R2/9.1R3-x/ 9.1R5/9.1R6-x | 9.1R1/9.1R2/9.1R3-x/ 9.1R5/9.1R6-x> 9.2R1 |

There are two ways through which you can upgrade to 9.2R1:

1. Upgrading the dual image using CTPView 9.2R1

- To upgrade from CTPView procedure, copy `ctp_complete_9.2R1_240809.tgz` in /ctp of CTPView 9.2R1.
- Select Node Maintenance > Upgrade CTP Software.

NOTE: After you dual upgrade your CTP151 node to CTPOS 9.2R1 from CTPView, SSH to CTP Node will not work. [PR 1830027].

Workaround: Either reboot CTP151 node again or go to CTPOS CLI menu in the console and change the IP configuration to eth4.

2. Manually upgrading the dual image on CTPOS without personality transfer via the CTP shell

- To manually upgrade the dual image on CTPOS without personality transfer via the CTP shell, upgrade CTP151 node in interactive mode by following the dual image upgrade procedure steps as described in Upgrading to Dual Image.

NOTE: Do not transfer the system identity files when you are prompted during the upgrade process, Type n when you are prompted, as shown in the following example.

If you do not transfer system identity files (config and user information), CTP will go to first boot which requires a console connection to complete. You need to have console access to do the password and ethernet configs during first boot.

[illegible]

Are you sure you want to transfer system identity files? y/n :n

*** Proceeding without transferring system identity files. ***

Once the dual upgrade process completes, CTP151 is successfully upgraded to CTPOS 9.2R1.

Resolved Issues in CTPOS Release 9.2R1

The following issue has been resolved in CTPOS Release 9.2R1.

- Need to enable SFP ports on CTP151. [PR 1630664]
- Password vulnerability after firstboot config CTP local accounts logging allows with 8 characters of password length need to validate full characters in CTPOS. [PR 1802853]
- CTPOS: Code merge from 9.1x to 10.x on CTP151. [PR 1817129]
- SAToP interop with Cisco (matching source / destination UDP port). [PR 1820995]
- Virtual bridges are not deleted on CTP151(KVM running) after removing it from service. [PR 1826262]
- Disable PBS fields in CTPOS menu to prevent CTP crashes on disable on CTP151 with 9.2R1 [PR 1826274]
- CTPOS code changes from 10.0R2 to 9.2R1. [PR 1828902]
- NPI SE Card undetected after upgrade from 9.1R5 to 9.2R1. [PR 1829237]

Known Issues in CTPOS Release 9.2R1

The following PRs are known issues in CTPOS Release 9.2R1.

- pkt_bert limited to 20pps on CTP151 / 9.1 [PR 1578537]
- Need to suppress autoswitch messages in the log [PR 1811202]
- Not able to configure virtual bridge interfaces as a separate management & circuit plan after enabling eth segregation. [PR 1826245]
- Frequent martian source packets in logs on running a bundle when KVM running on CTP151 [PR 1826257]
- Disable KVM/VM and reboot causes ctpd crash [PR 1826302]
- Workaround: Issue wipe_dbase before you reboot to avoid crash.

Required Upgrade files

Following files are provided for upgrading the CTPOS software:

Table 2:

| File | Filename | MD5 Checksum |
|---|--|------------------------------------|
| CTPOS complete package | ctp_complete_9.2R1_240809.tgz | e91b737628af8f55a878e1b4e3a5 b c28 |
| CTPOS acorn package | acorn_412_9.2R1_240809.tgz | 4020cca6bc8f7d379d986841c2de f cc4 |
| CTPOS FPGA acorn package | acorn_412_240805_fpga_150_s2d_t24_b03_S05_T05_B01_2000_s1f_t32_S05_T0A.tgz | 496a9aa2d91cc27e568b534749f7 c 74a |
| CTPOS Dual Image upgrade packa ge (9.1Rx to 9.2R1) | acorn_310_dual_image_upgrade_ct p151_240809.tgz | 712c882e8b085dcdddb83b4e3eae a339 |
| CTPOS Dual Image upgrade packa ge (10.0Rx to 9.2R1) | acorn_412_dual_image_upgrade_ct p151_240809.tgz | 712c882e8b085dcdddb83b4e3eae a339 |
| CTPOS 9.2R1 partitions package | CTPOS_9.2R1_partitions_ctp151_ 2 40809.tgz | a8b813d28bfc25840b9b8c726ca0 4 273 |

Known Limitations in CTPOS Release 9.2R1

- If you want to downgrade the CTPOS version, ensure to give the correct card FPGA version.
- With Write-protect enabled in CTPOS 9.2R1, NPI SE cards are not backwards compatible with FPGA acorn pkg (released in 9.1R5/9.1R6 with 0x4_1).

Node gets rebooted thrice with NPI SE card leaving SE card version unchanged in 9.1R5/9.1R6.

Revision History

August 2024—Revision 1—CTPOS Release 9.2R1.

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Specifications

- Product Name: CTPOS software
- Version: 9.2R1
- Platform: CTP151

QUICK Product Information

The CTPOS software Release 9.2R1 brings several enhancements and new features to improve the functionality of the CTP Series devices. Some key highlights include:

1. Merging of CTPOS 9.1Rx code changes
2. Ability to run additional virtual machine-based applications simultaneously with standard CTP operations on the CTP151 platform
3. Support for unity input gain version of MS-DCARD for CESoPSN bundles

Upgrade Information

To upgrade to CTPOS 9.2R1 from compatible versions, you can follow these steps:

1. Upgrade using CTPView 9.2R1:

- Copy the upgrade file to the specified directory in CTPView
- Select Node Maintenance > Upgrade CTP Software in CTPView
- **Note:** After upgrading, SSH to CTP Node will not work. You can reboot the node or change IP configuration via CTPOS CLI menu.

2. Manually upgrade on CTPOS:


- Upgrade the dual image on CTPOS without personality transfer via the CTP shell
- Follow the dual image upgrade procedure steps as described in the user manual
- **Note:** Do not transfer system identity files during the upgrade process as it may lead to the need for a console connection for completion.

FAQ

Q: Can I transfer system identity files during the upgrade process?

A: It is recommended not to transfer system identity files during the upgrade process to avoid potential issues that may require console access for completion.

Documents / Resources

| | |
|---|---|
|  | <p>JUNIPER NETWORKS CTP151 Circuit to Packet Platform [pdf] Instructions CTP151 Circuit to Packet Platform, CTP151, Circuit to Packet Platform, Packet Platform, Platform</p> |
|---|---|

References

- [J CTP Series Documentation | Juniper Networks](#)
- [User Manual](#)

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