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Juniper Networks® CTPOS Release 9.2R1 Software

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RELEASE

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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

    a. To upgrade from CTPView procedure, copy `ctp_complete_9.2R1_240809.tgz` in **/ctp** of CTPView 9.2R1.

    b. 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

    a. **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.

 If you transfer your identity files you do not need a
 console connection (but it is always recommended to use
 console access for upgrades). When upgrading from CTPOS
```

```
 7.x release, only the ethernet configs will be transferred
 and all other configs will be lost.
 !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
 !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
 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 supress 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	e91b737628af8f55a878e1b4e3a5bc28
CTPOS acorn package	acorn_412_9.2R1_240809.tgz	4020cca6bc8f7d379d986841c2defcc4
CTPOS FPGA acorn package	acorn_412_240805_fpga_150_s2d_t24_b03_S05_T05_B01_2000_s1f_t32_S05_T0A.tgz	496a9aa2d91cc27e568b534749f7c74a
CTPOS Dual Image upgrade package (9.1Rx to 9.2R1)	acorn_310_dual_image_upgrade_ctp151_240809.tgz	712c882e8b085dcdddb83b4e3eaea339
CTPOS Dual Image upgrade package (10.0Rx to 9.2R1)	acorn_412_dual_image_upgrade_ctp151_240809.tgz	712c882e8b085dcdddb83b4e3eaea339
CTPOS 9.2R1 partitions package	CTPOS_9.2R1_partitions_ctp151_240809.tgz	a8b813d28bfc25840b9b8c726ca04273

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.