

Juniper Networks® CTPOS Release 9.1R6-5 Software

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RELEASE

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About This Guide

This release notes accompany Release 9.1R6-5 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 9.1R6-5:

- We have addressed the incorrect or duplicated bundle descriptors on SNMP traps
- You will be able to configure the SNMPv3 setup on CTPOS 9.1R6-3 (240820)
- We have addressed FXS and FXO CESoPSN bundles taking immediate errors, while configuring CESoPSN bundles.
- Configuration of 4WEM signaling is not supported

Upgrade Information

You can upgrade from CTPOS 9.1R6-3 to CTPOS 9.1R6-5 on CTP node via acron archive.

Example: [root@ctp_device:/tmp]# cmd -v

CTPOS CLI version: 9.1R6-3 240820

Compile Time: Tue Aug 20 2024 08:08:42 PM

Kernel Version Changed: 3.14.39ltsi-WR7.0.0.27_standard #2 SMP Wed Sep 4 19:55:27 IST 2019

Flash: Dual Image

[root@ctp_device:/tmp]#

[root@ctp_device:/tmp]# md5sum acorn_310_9.1R6-5_250424.tgz

03d844a8f4624f53f7ded0f837d634dc acorn_310_9.1R6-5_250424.tgz

[root@ctp_device:/tmp]#

[root@ctp_device:/tmp]# 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_9.1R6-5_250424.tgz

Removing old installation residue...

/tmp/acorn_310_9.1R6-5_250424.tgz is the newest archive file...

===== Uncompressing and Extracting Archive =====

Archive file: /tmp/acorn_310_9.1R6-5_250424.tgz

acorn_install/

acorn_install/gui_instr

acorn_install/nova_new.ko

acorn_install/l2bridge.ko

acorn_install/hdlc_cisco.ko

acorn_install/ctpd

acorn_install/menu

acorn_install/cmd

acorn_install/sethdlc

acorn_install/ctpdStop

acorn_install/sccStop

acorn_install/conv_stats

acorn_install/load_fpga

acorn_install/epcs

acorn_install/test_reg

acorn_install/eepr0100-diag

acorn_install/read

acorn_install/write

acorn_install/pkt_bert

acorn_install/pm_log

acorn_install/DebugSys.pl

acorn_install/dump_refs.pl

acorn_install/vcb_cmd

acorn_install/getBiosVer

acorn_install/smbutil

acorn_install/nova_card_add_del

acorn_install/hw

acorn_install/fp

acorn_install/pd

acorn_install/spectrum_pcm.pl

acorn_install/fft
acorn_install/ctp
acorn_install/upgrade
acorn_install/kctp
acorn_install/add_acorn_user
acorn_install/install
acorn_install/sys_conf
acorn_install/set_security_level
acorn_install/halt.local
acorn_install/remove_unowned_files
acorn_install/hairpin_all_ports.tcsh
acorn_install/check_sp510.tcsh
acorn_install/local
acorn_install/dual_image_upgrade.sh
acorn_install/ctp-firstboot
acorn_install/ctp_setmod
acorn_install/ctp_halt
acorn_install/ctp_functions
acorn_install/make_conf_file_edits
acorn_install/remove_dev_pkg
acorn_install/get_image_ctpos_ver.sh
acorn_install/test_h110_serpentine.sh
acorn_install/acorn.env
acorn_install/AAS.conf
acorn_install/ASM.conf
acorn_install/WATCH_LOG.conf
acorn_install/CTP-MIB.txt
acorn_install/sys_conf.pl
acorn_install/trap_clock.pl
acorn_install/sys_log.pl
acorn_install/sys_bump.pl
acorn_install/AcornSysMon.pl
acorn_install/AcornAutoSwitch.pl
acorn_install/AAS_remote_ssh.pl
acorn_install/AddAcornHost.pl
acorn_install/AddAcornUser.pl
acorn_install/snmpAcorn.pl
acorn_install/syscfg
acorn_install/sp_menu
acorn_install/SlewFreq.pl
acorn_install/scenario.pl
acorn_install/cmd_daemon.pl
acorn_install/dump_regs.pl

acorn_install/system_info_dump.pl
acorn_install/diag.pl
acorn_install/AutoSwitchQry.pl
acorn_install/track_regs.pl
acorn_install/calc_serial_delay.pl
acorn_install/measure_pulses.pl
acorn_install/dump_rdnt.pl
acorn_install/update_cards.pl
acorn_install/display
acorn_install/hw.pl
acorn_install/sensors_pwr_fan.pl
acorn_install/fifo_monitor_reset.pl
acorn_install/test_clk_rtm
acorn_install/functions.pl
acorn_install/calibration.pl
acorn_install/eth_snake.pl
acorn_install/eth_XMC_snake.pl
acorn_install/full_lb.pl
acorn_install/no_lb.pl
acorn_install/test_fxo_fxs_pair
acorn_install/test_fxs_plar
acorn_install/calib_script.pl
acorn_install/dump_chas_setup.sh
acorn_install/ssh-key-utils.pl
acorn_install/IP-utils.pl
acorn_install/ctp.pl
acorn_install/util.pl
acorn_install/ARM-inc.pl
acorn_install/proc_util.pl
acorn_install/shmem_pkg.pl
acorn_install/Graph.pm
acorn_install/DataSet.pm
acorn_install/upgrade_flash.pl
acorn_install/afv.tgz
acorn_install/AcornSetUp
acorn_install/clean_flash.pl
acorn_install/ipt_ctp_port.ko
acorn_install/ipt_ACORN_OAM.ko
acorn_install/libipt_ACORN_OAM.so
acorn_install/ipt_ACORN_DATA.ko
acorn_install/libipt_ACORN_DATA.so
acorn_install/ipt_SAToP.ko
acorn_install/libipt_SAToP.so

```

acorn_install/ipt_ACORN_SER.ko
acorn_install/ipt_port_mirror.ko
acorn_install/ipt_oam_port.ko
acorn_install/ipt_oam_mirror.ko
acorn_install/ipt_gre_satop.ko
acorn_install/libipt_ctp_port.so
acorn_install/libipt_ACORN_SER.so
acorn_install/libipt_port_mirror.so
acorn_install/libipt_oam_port.so
acorn_install/libipt_oam_mirror.so
acorn_install/libipt_gre_satop.so
acorn_install/ip6t_ACORN_DATA.ko
acorn_install/libip6t_ACORN_DATA.so
acorn_install/ip6t_SAToP.ko
acorn_install/libip6t_SAToP.so
acorn_install/ip6t_ctp_port.ko
acorn_install/libip6t_ctp_port.so
acorn_install/ip6t_port_mirror.ko
acorn_install/libip6t_port_mirror.so
acorn_install/ip6t_oam_mirror.ko
acorn_install/libip6t_oam_mirror.so
acorn_install/ip6t_oam_port.ko
acorn_install/libip6t_oam_port.so
acorn_install/libvbapi.so.1.0.3
acorn_install/cls_fw.ko

```

Running install non-interactively

Backing up /var to nonvolatile storage..

Backing up /home to nonvolatile storage..

Backing up / to nonvolatile storage..

===== Checking for flash based system upgrades =

===== Found flash version 9.1.6 =====

===== Found flash version 9.1.6-2 =====

===== Done upgrading flash. =====

===== Stop ctpd task and remove drivers =====

Stopping channels scc0 [OK]

Stopping channels scc1 [OK]

Stopping channels cbc0 [OK]

Stopping channels cbc40 [OK]

Stopping channels cbc41 [OK]

Stopping channels cbc42 [OK]

```

Stopping CTP daemon [ OK ]
Need additional time for ctpd to stop running...
Need additional time for ctpd to stop running...
Need additional time for ctpd to stop running...
Need additional time for ctpd to stop running...
Write val 0x00100000 reg 0x0000200c for scc24
Removing layer-2 bridge kernel module [ OK ]
Removing HDLC FR kernel driver [ OK ]
Removing HDLC PPP kernel driver [ OK ]
Removing HDLC RAW kernel driver [ OK ]
Removing CTP kernel driver [ OK ]
Removing HDLC CISCO kernel driver [ OK ]
Voice Compression driver not loaded
Removing IPMI drivers [ OK ]
Removing Menu Semaphore: [ OK ]
===== Installing new ethernet drivers =====
===== Installing new CTP drivers =====
===== Installing new HDLC drivers =====
===== Installing new iptables modules =====
===== Installing new ip6tables modules =====
===== Installing new iptables libraries =====
===== Installing files in etc/init.d dir =====
===== Installing files in sbin dir =====
===== Installing new startup links =====
===== Installing sched modules =====
===== Installing new perl scripts =====
===== Installing files in perl/inc dir =====
===== Installing files in bin dir =====
===== Installing files in etc dir =====
===== Installing files in log dir =====
===== Target system, check system setup =====
===== Checking iptables rules =====
===== Checking ip6tables rules =====
===== Backing up changes to flash =====
Backing up /var to nonvolatile storage..
Backing up /home to nonvolatile storage..
Backing up / to nonvolatile storage..
===== Change permissions for ssh =====
===== Starting new CTP driver & software =====
Installing IPMI driver... [ OK ]
IPMI device is present [ OK ]
Installing HDLC kernel driver [ OK ]
Installing CTP kernel driver [ OK ]

```

```

Installing HDLC FR kernel driver [ OK ]
Installing HDLC PPP kernel driver [ OK ]
Installing HDLC RAW kernel driver [ OK ]
Installing HDLC CISCO kernel driver [ OK ]
Installing layer-2 bridge kernel module [ OK ]
Check CTP kernel driver [ OK ]
Checking for required memory [ OK ]
Checking for required bios [ OK ]
Starting CTP daemon: [ OK ]
Checking fpga for all cards . . . . . [ OK ]
===== Backing up changes to flash =====
Backing up /var to nonvolatile storage..
Backing up /home to nonvolatile storage..
Backing up / to nonvolatile storage..
===== Done =====

===== Archive Cleanup =====
Unmounting USB storage device
Done...
[root@ctp_device/tmp]# cmd -v

CTPOS CLI version: 9.1R6-5 250424
Compile Time: Thu Apr 24 2025 04:52:33 PM
Kernel Version Changed: 3.14.39ltsi-WR7.0.0.27_standard #2 SMP Wed Sep 4 19:55:27 IST 2019
Flash: Dual Image

[root@ctp_device:/tmp]#

```

Resolved Issues in CTPOS Release 9.1R6-5

The following issues have been resolved in CTPOS Release 9.1R6-5.

- Bundle descriptors on SNMP traps are incorrect or duplicated [PR 1852567]
- We are unable to configure the SNMPv3 setup on CTPOS 9.1R6-3 (240820) because the server is trying to ping the trap server before sending the SNMP traps. [PR 1856508]
- FXS and FXO CESoPSN bundles take immediate errors [PR 1859831]

Known Issue in CTPOS Release 9.1R6-5

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 from CTPOS 9.1R6-3 to CTPOS 9.1R6-5:

Table 1:

File	Filename	MD5 Checksum
CTPOS acorn package	acorn_310_9.1R6-5_250424.tgz	03d844a8f4624f53f7ded0f837d634dc
CTPOS FPGA acron package	acorn_310_240514_fpga_150_s2c_t24_S04_T05_2000_s1f_t32_S05_T0A.tgz	f24105b3329234c9b2b0a42b44cd785c
CTPOS complete package	ctp_complete_9.1R6-5_250424.tgz	5130a8c9ba1b4a78f70c4cd2ad15c38b

Known Limitations in CTPOS Release 9.1R6-5

- None.

Revision History

July 2025—Revision 2—CTPOS Release 9.1R6-5.

Added PR 1881491 in Known Issues section

April 2025—Revision 1—CTPOS Release 9.1R6-5

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