

Juniper Networks® CTPOS Release 9.1R6-4 Software

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RELEASE

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About This Guide

This release notes accompany Release 9.1R6-4 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

This CTPOS 9.1R6-4 release resolves the issue of incorrect or duplicate bundle descriptors on SNMP traps. Starting in CTPOS 9.1R6-4:

- You get the correct and unique bundle descriptors on SNMP traps.

Upgrade Information

You can upgrade from CTPOS 9.1R6-3 to CTPOS 9.1R6-4 on CTP node via acron archive.

Example:

```
[root@ctp_89:/tmp 31]# 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_89:/tmp 32]#
```

```
[root@ctp_89:/tmp 34]# md5sum acorn_310_9.1R6-4_250210.tgz
```

```
2a5f6e99bbcaf24b43417d1036e44a00 acorn_310_9.1R6-4_250210.tgz
```

```
[root@ctp_89:/tmp 35]#
```

```
[root@ctp_89:/tmp 35]#
```

```
[root@ctp_89:/tmp 35]# 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_9.1R6-4_250210.tgz

Removing old installation residue...
/tmp/acorn_310_9.1R6-4_250210.tgz is the newest archive file...

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

Archive file: /tmp/acorn_310_9.1R6-4_250210.tgz
acorn_install/
acorn_install/AcornSysMon.pl
acorn_install/sp_menu
acorn_install/ssh-key-utils.pl
acorn_install/proc_util.pl
acorn_install/ctp_setmod
acorn_install/cmd_daemon.pl
acorn_install/calib_script.pl
acorn_install/ARM-inc.pl
acorn_install/eth_snake.pl
acorn_install/gui_instr
acorn_install/update_cards.pl
acorn_install/afv.tgz
acorn_install/add_acorn_user
acorn_install/ctp-firstboot
acorn_install/libipt_gre_satop.so
acorn_install/no_lb.pl
acorn_install/libipt_oam_port.so
acorn_install/ip6t_port_mirror.ko
acorn_install/ipt_ACORN_OAM.ko
acorn_install/test_clk_rtm
acorn_install/cmd
acorn_install/l2bridge.ko
acorn_install/Graph.pm
acorn_install/dual_image_upgrade.sh
acorn_install/pm_log
acorn_install/ip6t_ACORN_DATA.ko
acorn_install/shmem_pkg.pl
acorn_install/ipt_ACORN_SER.ko
acorn_install/ctpd
acorn_install/AAS.conf
acorn_install/hairpin_all_ports.tcsh
acorn_install/make_conf_file_edits

acorn_install/clean_flash.pl
acorn_install/sensors_pwr_fan.pl
acorn_install/sys_conf.pl
acorn_install/sccStop
acorn_install/display
acorn_install/ip6t_SAToP.ko
acorn_install/libipt_SAToP.so
acorn_install/load_fpga
acorn_install/pd
acorn_install/ctp.pl
acorn_install/DebugSys.pl
acorn_install/IP-utils.pl
acorn_install/dump_regs.pl
acorn_install/eepr0100-diag
acorn_install/ctpdStop
acorn_install/eth_XMC_snake.pl
acorn_install/AutoSwitchQry.pl
acorn_install/system_info_dump.pl
acorn_install/upgrade_flash.pl
acorn_install/read
acorn_install/remove_unowned_files
acorn_install/trap_clock.pl
acorn_install/measure_pulses.pl
acorn_install/calibration.pl
acorn_install/conv_stats
acorn_install/functions.pl
acorn_install/AcornAutoSwitch.pl
acorn_install/acorn.env
acorn_install/CTP-MIB.txt
acorn_install/check_sp510.tcs
acorn_install/cls_fw.ko
acorn_install/test_reg
acorn_install/upgrade
acorn_install/ctp_functions
acorn_install/SlewFreq.pl
acorn_install/smbutil
acorn_install/test_fxo_fxs_pair
acorn_install/libipt_ctp_port.so
acorn_install/libipt_ACORN_OAM.so
acorn_install/set_security_level
acorn_install/util.pl
acorn_install/ip6t_oam_port.ko
acorn_install/libipt_port_mirror.so

acorn_install/ip6t_oam_mirror.ko
acorn_install/dump_rdnf.pl
acorn_install/scenario.pl
acorn_install/ipt_SAToP.ko
acorn_install/install
acorn_install/sethdlc
acorn_install/libip6t_SAToP.so
acorn_install/libipt_ACORN_SER.so
acorn_install/libip6t_ctp_port.so
acorn_install/nova_new.ko
acorn_install/get_image_ctpos_ver.sh
acorn_install/libip6t_port_mirror.so
acorn_install/test_h110_serpentine.sh
acorn_install/ipt_oam_port.ko
acorn_install/libip6t_ACORN_DATA.so
acorn_install/vcb_cmd
acorn_install/libvbapi.so.1.0.3
acorn_install/pkt_bert
acorn_install/libipt_ACORN_DATA.so
acorn_install/AddAcornUser.pl
acorn_install/full_lb.pl
acorn_install/ipt_port_mirror.ko
acorn_install/libip6t_oam_port.so
acorn_install/ipt_ctp_port.ko
acorn_install/ip6t_ctp_port.ko
acorn_install/sys_log.pl
acorn_install/local
acorn_install/sys_conf
acorn_install/AcornSetUp
acorn_install/hw.pl
acorn_install/syscfg
acorn_install/WATCH_LOG.conf
acorn_install/diag.pl
acorn_install/libip6t_oam_mirror.so
acorn_install/libipt_oam_mirror.so
acorn_install/ipt_oam_mirror.ko
acorn_install/track_regs.pl
acorn_install/AddAcornHost.pl
acorn_install/ipt_gre_satop.ko
acorn_install/ASM.conf
acorn_install/calc_serial_delay.pl
acorn_install/snmpAcorn.pl
acorn_install/dump_refs.pl

```

acorn_install/remove_dev_pkg
acorn_install/test_fxs_plar
acorn_install/ctp_halt
acorn_install/fft
acorn_install/menu
acorn_install/ctp
acorn_install/epcs
acorn_install/fp
acorn_install/AAS_remote_ssh.pl
acorn_install/ipt_ACORN_DATA.ko
acorn_install/hw
acorn_install/halt.local
acorn_install/spectrum_pcm.pl
acorn_install/fifo_monitor_reset.pl
acorn_install/hdlc_cisco.ko
acorn_install/kctp
acorn_install/getBiosVer
acorn_install/dump_chas_setup.sh
acorn_install/sys_bump.pl
acorn_install/DataSet.pm
acorn_install/write
acorn_install/nova_card_add_del

```

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 =====

===== Found flash version 9.1.6-3 =====

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

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

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 scc0

Write val 0x00100000 reg 0x0000200c for scc24

```

Write val 0x00100000 reg 0x0000200c for scc32
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_89:/tmp 36]# cmd -v

CTPOS CLI version: 9.1R6-4 250210
Compile Time: Mon Feb 10 2025 06:24:46 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_89:/tmp 37]#
.
```

Resolved Issues in CTPOS Release 9.1R6-4

The following issue has been resolved in CTPOS Release 9.1R6-4.

- Bundle descriptors on SNMP traps are incorrect or duplicated [PR 1852567]

Known Issue in CTPOS Release 9.1R6-4

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 file is provided for upgrading the CTPOS software from CTPOS 9.1R6-3 to CTPOS 9.1R6-4:

Table 1:

File	Filename	MD5 Checksum
CTPOS acorn package	acorn_310_9.1R6-4_250210.tgz	2a5f6e99bbcaf24b43417d1036e44a00

Known Limitations in CTPOS Release 9.1R6-4

- None.

Revision History

July 2025—Revision 2—CTPOS Release 9.1R6-4.

Added PR 1881491 in Known Issues section

February 2025—Revision 1—CTPOS Release 9.1R6-4.

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