



CTP Circuit Emulation Software

Release Notes

Release 4.3

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Release 4.3

Release Overview

These *Release Notes* accompany Release 4.3R1 of the CTPOS Circuit Emulation software. They describe the enhancements as well as known issues with the software. CTPOS runs on all Juniper Networks CTP 1000 and 2000 series platforms.

If the information in these *Release Notes* differs from the information found in the published documentation set, follow these *Release Notes*. These *Release Notes* include the following sections:

- Release Overview on page 1
- New Features on page 1
- Enhancements on page 2
- Known Issues on page 3
- Additional SNMP Traps on page 4

You can also find these release notes on the Juniper Networks Technical Publications CTP documentation Web page, which is located at <http://www.juniper.net/techpubs/hardware/ctp/>.

New Features

This section describes features new to Release 4.3R1.

- PWE3 SAToP-compliant circuit emulation—The CTP product family provides for the transport of serial bit streams, including structure-agnostic T1/E1 circuits, using a proprietary transport mechanism. PWE3 SAToP support adds a standards-based (RFC-4553) transport mechanism to CTP products, allowing them to interwork with other vendor's SAToP-compliant hardware.
- IPv6 support—Management and data transport via IPv6 are now supported. The system can be configured for IPv4, IPv6, or IPv4 and IPv6 support. The following features are not IPv6-capable: virtual IPs, AutoSwitch, SAToP circuit emulation, and packet-based serial interfaces.

- VLAN support—802.1Q VLAN tagging is now supported on all CTP platforms. Once configured, VLAN interfaces can support the use of both IPv4 and IPv6 addresses. The following features are not VLAN-capable: direct drive and PWE3 SAToP CE circuits. The number of VLANs, physical interfaces, and virtual IPs should not exceed 64.
- DTE Interface mode—This mode, used in conjunction with the appropriate adapter/cable, provides a true DTE interface for all CTP platforms.



NOTE: DTE mode requires the use of a DTE adapter. Please contact your Juniper Networks Sales Representative for ordering information.

- Hardware monitoring—Hardware monitoring provides access to fan speeds, CPU and system temperature sensors, and system and core voltages for the purpose of detecting hardware problems before they result in system failure and/or damage. Detailed hardware information is available through SNMP, and alert conditions are noted both in the system logs as well as by means of SNMP traps. The following list outlines subsystems monitored by platform:
 - CTP 1002—No monitoring available
 - CTP 1004 rev. 1—Power, fans, temperature
 - CTP 1004 rev. 2—Power, fans
 - CTP 2000 series—Single trap indicating issue with power and/or fans

Enhancements

This section describes product enhancements available in Release 4.3R1.

- ST signal support with Transparent mode—Transparent mode requires the use of custom adapters to meet your specific requirements. If you are interested in testing or using transparent mode, please contact the CTP support team at ctp-test@juniper.net.

- Improved Network Configuration menu—With the addition of VLAN and IPv6 support, a new configuration interface has been provided to allow efficient and centralized configuration of all network related functions. (See menu below.) In addition, all areas where IP addresses were entered one octet at a time have been modified to support the `aaa.bbb.ccc.ddd` format.

```
=====
(nova_54 02/01/07 20:03:49 GMT) | Network Configuration Menu
=====
```

```
Please select a number from the following list:
-----
```

```
0) Back to Previous Menu
1) Supported Protocols:           IPv4 only
2) IPv4 Configuration
3) IPv6 Configuration
4) Virtual IP addresses
5) OAM port (IPv4):              16
6) Data packet protocol:        47
7) OAM port (IPv6):              32
8) VLAN Configuration
9) Current Configuration (active on reboot):
----- Your choice [9]
```

```
Hostname: nova_54
```

```
Protocols supported:           IPV4 ONLY
```

Known Issues

This section identifies known issues in this release.

- CTP 2000 series only—When you upgrade to CTPOS 4.3 by using the CTPView GUI, the FPGA of each interface card will be upgraded from v69 to v6c. The downgrading of software, CTPOS, or FPGA revision is not currently supported. If you need to use the upgraded interface cards in a system running CTPOS 4.2Rx or earlier, please contact Juniper Networks Technical Support for the appropriate files and procedures.
- All CTP products—DCARD (T1/E1 and 4WTO) programming with CTPOS 4.3 is not possible.

Workaround: If you need to program a DCARD, you can do it on a system running 4.2RX and FPGA v69 or earlier. This issue will be addressed with the next release of CTPOS (Release 4.4).

Additional SNMP Traps

Below is a list of the additional SNMP traps generated by CTPOS 4.3 due to the addition of hardware monitoring:

- Power Supply Failure (CTP 1000 series)
- Power Supply and/or Fan Failure (CTP 2000 series)
- CPU Fan Failure (CTP 1000 series)
- Temperature (CTP 1000 series)