



**CTP System**

## **CTPOS Release Notes**

*Release 4.5*

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# CTPOS Release 4.5

## Release Overview

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These *Release Notes* accompany Release 4.5 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-series 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
- Required Files on page 1
- New Features on page 2
- New Hardware on page 2
- Enhancements on page 3
- Known Issues on page 3

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/>.

## Required Files

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The following files are required for this release:

- FLASH Image File (256MB): flash\_4.5R1.img
- FLASH Image File (1GB): flash\_4.5R1\_1G.img
- Kernel Patch Archive File: acorn\_429\_071029\_k256.tgz
- Upgrade Archive File: acorn\_429\_071107.tgz
- CTP2000 FPGA Archive File:  
acorn\_429\_071015\_fpga\_2000\_ser\_v6f\_t1e1\_v10.tgz

## New Features

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This section describes features new to this release.

### CTP1002 Support

Kernel modifications have been made to support the CTP1002 platform. All CTP1000-series platform features are now available on the CTP1002 system.



**NOTE:** The maximum allowable port speed on the CTP1002 system is 2048 K.

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## New Hardware

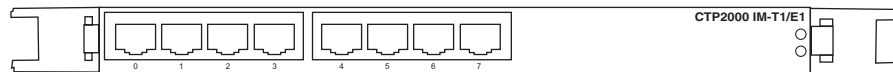
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This section describes hardware new to this release.

### CTP2000-IM-8P-T1E1 Interface Module

An 8-port T1/E1 interface module is available for the CTP2000-series platforms. This card provides eight T1/E1 interfaces per module by means of RJ-48 connectors. This module provides functionality similar to the current IM-8P-T1 interface module, and provides a platform on which to build future functionality.

**Figure 1: CTP2000-IM-8P-T1E1 Interface Module**



**NOTE:** Fractional T1 and E1 are currently not supported on the new T1/E1 interface module. These features, in addition to others, should be available with the next major release of CTPOS.

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Using the CLI, you can configure Build Out for T1 interfaces on the T1/E1 interface module. (See Figure 2.)

**Figure 2: Configuring a T1 Interface and Options—CLI**

```
=====
(intel_52 10/09/06 21:28:43 GMT) | Voice T1E1 Config Menu for Port 0
=====
Please select a number from the following list:
-----
0) Back to Previous Menu
1) Type: T1
2) Option: B8ZS
3) SAToP: No
8) BuildOut: ~133ft

----- Your choice [0]: 8
```

Please select a number from the following list:

- ```
-----
0) ~133 ft
1) ~266 ft
2) ~399 ft
3) ~533 ft
4) ~655 ft
5) -7.5dB CSU
6) -15dB CSU
7) -22.5dBCSU
```

```
----- Your choice [0]:
```

## DC Systems

DC versions of the CTP1004-series and CT 2000-series platforms are now supported.

## Enhancements

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This section describes product enhancements available in this release.

- CRC generation—When using fractional T1 on the CTP2000-IM-8P-T1 interface module, correct CRCs are generated.
- Fill pattern change—The fill pattern used for idle channels when using Fractional T1 is now “7F”.
- Adaptive/Autobaud single tick adjustments—Enhancements have been made to the Adaptive/Autobaud algorithms to provide better support for low-speed circuits.

## Known Issues

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This section identifies known issues in this release.

- IPv6 support—When a system is configured for IPv6 only, the system does not correctly relate IPv6 addresses with physical interfaces.

**Workaround**—Enable IPv4/IPv6 and give each used interface an unused IPv4 address. If you plan to use this feature, please contact Juniper Networks Technical Support for assistance.

