



# Release Notes for Cisco Transport Planner, Release 9.2.1

**Revised: December 2010, OL-23796-01**

Release notes contain the new features and enhancements for the Cisco Transport Planner (CTP). For detailed information regarding features, capabilities, hardware, and software introduced with this release, refer to the Release 9.2.1 version of the *Cisco Transport Planner DWDM Operations Guide*.

Cisco also provides Bug Toolkit, a web resource for tracking defects. To access Bug Toolkit, visit the following URL:

<http://tools.cisco.com/Support/BugToolKit/action.do?hdnAction=searchBugs>

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## Software and Hardware Requirements

Before you begin to install *CTP Release 9.2.1*, you must check if your system meets the minimum software and hardware requirements. This section describes the software and hardware requirements for CTP Release 9.2.1.

- [Operating System Requirements](#)
- [Supported Java Runtime Environment](#)
- [Hardware Requirements](#)



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**Americas Headquarters:**  
**Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA**

## Operating System Requirements

CTP Release 9.2.1 runs on systems with the following operating systems:

- Microsoft Windows 2000 Professional
- Microsoft Windows XP Professional
- Microsoft Vista Business
- Microsoft Windows 7 Professional
- Linux



**Note**

Microsoft Windows XP Professional is the preferred operating system for CTP Release 9.2.1.

## Supported Java Runtime Environment

CTP Release 9.2.1 requires that you install Java Runtime Environment Version 1.6.

You can download it from the following URL:

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

## Hardware Requirements

CTP Release 9.2.1 runs on systems with the following hardware configurations:

Hardware	Minimum Requirements	Typical Requirements	Recommended Requirements
CPU	Intel Pentium Processor 800 MHz	Intel Pentium Processor 1.4 GHz	Intel Pentium Processor 1.7 GHz
Memory	512 MB RAM	1 GB RAM	2 GB RAM or more
Video Resolution	1024x768	1280x1024	1280x1024

## Customizing Memory Usage for JVM

CTP Release 9.2.1 allows you to customize the maximum amount of memory to be used by the Java Virtual Machine (JVM). The default value of 512 MB is appropriate for use with the recommended hardware (1 GB of RAM).

For hardware using less physical memory, it is recommended that you reduce the maximum amount of memory to be used by the JVM. This reduction prevents the system from using system virtual memory, which results in poorer system performance.

If you reduce the amount of memory dedicated to JVM, Cisco Transport Planner may generate an Out of Memory error in the case of a complex design, typically when designing an any-to-any traffic design with a large number of nodes. In such cases, it is recommended that you increase the memory size.

Allowing JVM to use too much memory compared to the available RAM can instead result in very low system performances due to the use of virtual memory. The following table lists the recommended settings:

System RAM	Minimum JVM Memory	Maximum JVM Memory	Suggested JVM Memory
512 MB	256 MB	450 MB	350 MB
1 GB	512 MB	900 MB	700 MB
2 GB or more	1024 MB	1800 MB	1450 MB

To change the maximum amount of memory to be used by the JVM, you need to edit the *Startup.properties* file, which is available in the directory where you saved the *ctp.jar* file during installation. Replace the default value (512M) with the appropriate one from the Suggested JVM Memory column of the preceding table. Save the file and restart Cisco Transport Planner for the changes to take effect.

**Note**

The suggested memory values are for a system with fairly less load. If there are many processes running on your system, changing to the suggested memory value may not launch CTP. In such cases, reduce the JVM memory appropriately (you may reduce the memory in granularity of 100 MB) by editing the *Startup.properties* file.

## Using the Bug ToolKit

In CTP Release 9.2.1, use the Bug ToolKit to view the list of outstanding and resolved bugs in a release. This section explains how to use the Bug ToolKit.

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- Step 1** Go to <http://tools.cisco.com/Support/BugToolKit/action.do?hdnAction=searchBugs>.  
You will be prompted to log into Cisco.com. After you login, the Bug Toolkit page opens.
- Step 2** Click **Launch Bug Toolkit**.
- Step 3** To search for a specific bug, enter the bug ID in the **Search for Bug ID** field and click **Go** in the **Search Bugs** tab.  
To search for all the bugs in a specified release, enter the following search criteria in the **Search Bugs** tab:
- Select Product Category—Select **Optical Networking**.
  - Select Products—Select **Cisco DWDM Design Tool** from the list.
  - Software Version—Select **9.21** to view the list of outstanding and resolved bugs in CTP, Release 9.2.1.
  - Search for Keyword(s)—Separate search phrases with boolean expressions (AND, NOT, OR) to search within the bug title and details.
  - Advanced Options—You can either perform a search using the default search criteria or define custom criteria for an advanced search. To customize the advanced search, select **Use custom settings for severity, status, and others** and provide the following information:
    - Severity—Select the severity level.
    - Status—Select **Open**, **Fixed**, or **Terminated**.

Select **Open** to view all the open bugs. To filter the open bugs, uncheck the **Open** check box and select the appropriate sub-options that appear below the Open check box. The sub-options are New, Held, More, Open, Waiting, Assigned, Forwarded, Postponed, Submitted, and Information Required. For example, select **New** if you want to view only new bugs in CTP Release 9.2.1.

Select **Fixed** to view fixed bugs. To filter fixed bugs, uncheck the **Fixed** check box and select the appropriate sub-options that appear below the Fixed check box. The sub-options are Resolved or Verified.

Select **Terminated** to view terminated bugs. To filter terminated bugs, uncheck the **Terminated** check box and select the appropriate sub-options that appear below the Terminated check box. The sub-options are Closed, Junked, and Unreproducible. You can select multiple options as required.

- Advanced—Check the **Show only bugs containing bug details** check box to view only those bugs that contain detailed information, such as symptoms and workarounds.
- Modified Date—Select this option if you want filter bugs based on the date on which the bugs were last modified.
- Results Displayed Per Page—Select the appropriate option from the list to restrict the number of results that appear per page.

**Step 4** Click **Search**. The Bug Toolkit displays the list of bugs based on the specified search criteria.

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## Export to Spreadsheet

The Bug Toolkit provides the following options to export bugs to a spreadsheet:

- Click **Export All to Spreadsheet** link in the Search Results page under the Search Bugs tab. Specify the file name and folder name to save the spreadsheet. All the bugs retrieved by the search will be exported.
- Click **Export All to Spreadsheet** link in the My Notifications tab. Specify the file name and folder name to save the spreadsheet. All the saved bugs in all the groups will be exported.

If you are unable to export the spreadsheet, log into the Technical Support Website at <http://www.cisco.com/cisco/web/support/index.html> for more information, or call Cisco TAC (1-800-553-2447).

# New Features and Functionality

This section highlights new features and functionality supported by CTP Release 9.2.1. For detailed documentation of each of these features, refer to the *Cisco Transport Planner DWDM Operations Guide*.

## Common Hardware

The new hardware supported by CTP Release 9.2.1 are:

- [15216-FLD-4 \(FLD-4\) FlexLayer Unit, page 5](#)
- [15216-FLD-9-ISO \(FLD-9\) Isolators, page 5](#)
- [40G CP-DQPSK MXP and 40G CP-DQPSK ME MXP cards, page 5](#)
- [40G CP-DQPSK TXP and 40G CP-DQPSK ME TXP cards, page 6](#)
- [ONS-XC-10G-EP SFPs, page 6](#)
- [TCC3 Card, page 6](#)

### 15216-FLD-4 (FLD-4) FlexLayer Unit

The 15216-FLD-4 (FLD-4) FlexLayer unit is a bidirectional four-channel FlexLayer OADM unit. It is supported in hybrid 15454 ONS nodes that has Functionality as Add/Drop or Hub and Type as OADM. The FLD-4 units cover the entire 40-channel odd grid (C-band) without any guard channel.

### 15216-FLD-9-ISO (FLD-9) Isolators

An array of the 15216-FLD-9-ISO optical isolators protect Express Add/Drop (EAD) colorless ports of the 80-WXC-C cards configured as demux units.

### 40G CP-DQPSK MXP and 40G CP-DQPSK ME MXP cards

The 40G CP-DQPSK MXP (enhanced mode) and 40G CP-DQPSK ME MXP (metro-edge mode) cards has four client interfaces and one trunk interface. The 40G CP-DQPSK MXP and 40G CP-DQPSK ME MXP cards support aggregation of the following signals:

- With overclock enabled on the trunk port:
  - 10-Gigabit Fibre Channel
  - OTU2e
- With overclock disabled on the trunk port:
  - 8-Gigabit Fibre Channel
  - 10-GigabitEthernet LAN-Phy (GFP framing)
  - 10-GigabitEthernet LAN-Phy (WIS framing)
  - 10-GigabitEthernet LAN-to-WAN
  - 10-GigabitEthernet WAN-Phy
  - OC-192/STM-64
  - OTU2

## 40G CP-DQPSK TXP and 40G CP-DQPSK ME TXP cards

The 40G CP-DQPSK TXP (enhanced mode) and 40G CP-DQPSK ME TXP (metro-edge mode) cards have one client and one trunk interface. These cards can be used as regenerator in B2B configuration.

The 40G CP-DQPSK TXP and 40G CP-DQPSK ME TXP cards support the following signals:

- OC-768/STM-256
- 40GE LAN Phy
- OTU3

## ONS-XC-10G-EP SFPs

CTP supports the ONS-XC-10G-EP30.3= through ONS-XC-10G-EP61.4= SFPs.

## TCC3 Card

The Timing Communications Control Three (TCC3) card is an enhanced version of the TCC2P card with increases memory size and compact flash space. The TCC3 card ensures that the system maintains Stratum 3 (Telcordia GR-253-CORE) timing requirements.

## Software Features

The new features of Cisco Transport Planner, Release 9.2.1 are listed in [Table 1](#).

**Table 1** *New Features of Cisco Transport Planner, Release 9.2.1*

Features	Description
Any-to-Any connectivity	Supports omnidirectional and colorless properties in a ROADM demands.
Attenuator placement	Supports placing attenuators before and after each amplifier, in both preamplifier and booster positions.
Copy & Go back to Design Mode	Supports to copy a network in the Upgrade or Release Upgrade state to Design state.
CTP software updates	Supports checking and installing of available software updates, manually and automatically. (This is a BETA feature.)
External switch optimization	Supports the placement of Multi Shelf External Switch as a default option for all the nodes with more than one shelf.
Fiber properties	<ul style="list-style-type: none"> <li>• Supports specifying PMD values for individual fibers.</li> <li>• Supports specifying FDP<sup>1</sup> connector information where the fiber is connected.</li> <li>• Supports replacing two fiber spans with a single span connecting two adjacent sites during deletion of a site.</li> </ul>
Filler cards	Supports placement of the filler cards in the empty slots of ONS 15454 M2 (M2) and ONS 15454 M6 (M6) chassis.

Features	Description
Node controller selection	Enables to choose node controller for the selected chassis type.
OSC frame type	Supports FE Frame as an OSC frame type.
Pay as you grow (PAYG)	Supports the use of PAYG bundles to reduce the initial setup cost.
Populate shelves from the bottom	Supports the placement of the shelves in the rack from the bottom.
Raman without post amplifier	Supports a Raman amplifier configuration without a post amplifier.
Site type connector loss	Supports specifying the default connector loss values for different type of sites.
Traffic subnet wavelength settings	Supports setting the wavelength associated to a traffic subnet.
Wavelength assignment algorithm	Supports the following wavelength assignment options: <ul style="list-style-type: none"> <li>• Coloring Priority Option</li> <li>• Flat Grid Filling Option</li> <li>• Maximum Separation Option</li> </ul>

1. FDP = Fiber distribution panel

## Related Documentation

*Cisco Transport Planner DWDM Operations Guide, Release 9.2.1*

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS version 2.0.

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