Release Notes for Cisco Transport Planner Release 9.2

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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 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

Contents

Software and Hardware Requirements

Before you begin to install *CTP Release 9.2*, 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.

- Operating System Requirements
- Supported Java Runtime Environment
- Hardware Requirements

Operating System Requirements

CTP Release 9.2 runs on systems with the following operating systems:

- Microsoft Windows 2000 Professional

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- Microsoft Windows XP Professional/Home Edition
- Linux

Supported Java Runtime Environment

CTP Release 9.2 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 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 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 with available RAM can instead result in very low system performances due to the use of virtual memory. The following table lists the recommended settings:

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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 above. 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, 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.

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 **9.20** to view the list of outstanding and resolved bugs in CTP 9.2.
- 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, clear 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, if you want to view only new bugs in CTP Release 9.2, only select **New**.

    Select **Fixed** to view fixed bugs. To filter fixed bugs, clear 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, clear 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**. Select multiple options as required.

- – Advanced—Select 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.

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 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 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 for CTP Release 9.2. For detailed documentation of each of these features, refer to the *Cisco Transport Planner DWDM Operations Guide*.

Common Hardware

CTP Release 9.2 supports the following new hardware:

- 40G-MXP-C Card, page 5
- 80-WXC-C Card, page 5
- Cisco ONS 15454 M2, page 5
- Cisco ONS 15454 M6, page 5
- Transport Node Controller (TNC) Card, page 5
- Transport Shelf Controller (TSC) Card, page 5

40G-MXP-C Card

The 40G-MXP-C card has four client interface and one trunk WDM interface. The client interface supports multiple 10 Gbps data rates and is based on the XFP pluggable interface.

80-WXC-C Card

The 80-WXC-C card is a double-slot 80-channel Wavelength Cross-Connect C-band card that manages up to 80 ITU-T 100-GHz-spaced channels. Each channel can be selected from any input port to any output port. The card is optically passive, and provides bidirectional capability. The 80-WXC-C card can be used in three modes— multiplexer, demultiplexer and bidirectional modes.

Cisco ONS 15454 M2

The Cisco ONS 15454 M2 shelf assembly has three horizontal card slots numbered 1 to 3. Slots 2 and 3 house line cards and slot 1 houses the timing and control card (TNC/TSC).

Cisco ONS 15454 M6

The Cisco ONS 15454 M6 Shelf assembly is the next generation shelf assembly for the Cisco ONS 15454 Multiservice Transport Platform (MSTP) products. The new ONS 15454 M6 shelf assembly provides improved power and heat management to accommodate enhanced and single-slot 40 Gbps cards and maintains backwards compatibility with existing DWDM cards.

The ONS 15454 M6 shelf assembly has eight horizontal card slots numbered 1 to 8 that provide 10 Gbps to 40 Gbps interconnections. Slots 2 to 7 house line cards and slots 1 and 8 house the timing and control cards (TNC/TSC).

Transport Node Controller (TNC) Card

The TNC cards combine the functionalities of multiple cards such as TCC, OSC, ISC, and AIC cards. The TNC card acts as node controller and shelf controller. The TNC card supports up to 40 Gbps line cards. The TNC card supports only the 15454-M2 and 15454-M6 shelves. TNC card supports two OSC channels through two Small Form-factor Pluggable (SFP) ports: SFP0 and SFP1. The SFP port SFP0 supports OC3, FastEthernet, and GigabitEthernet data rates. The SFP port SFP1 supports FastEthernet and GigabitEthernet data rates.

Transport Shelf Controller (TSC) Card

The TSC cards combine the functionalities of multiple cards such as TCC, ISC, and AIC cards. The TSC card acts as shelf controller. The TSC card supports up to 40 Gbps line cards. The TSC card supports only the 15454-M2 and 15454-M6 shelves. The TSC card does not support optical service channel (OSC) and SFP ports.

New Software Features and Functionality

The following new software features and functionality are added for CTP Release 9.2:

- Supports colorless property—Colorless property for add/drop units allows channel wavelength to be tuned without changing the optical interface of the add/drop port. Colorless property for demands indicates that these demands are terminated on colorless add/drop ports to be tuned in all possible wavelengths.

- Supports omni-directional property—Omni-directional property for a side allows the equipment on the side to route added and dropped traffic in all possible directions. Omni-directional property for demands indicates that these demands are terminated on the common add/drop stage to be routed in all possible directions of a side.

- Supports advanced site edit options—Provides context-based right-click options for sites and sides.

- Supports flexible site types—Allows you to define a different equipment configuration on each side.

- Supports remote spur—A remote spur connects mux/dmx units in a remote site to a network node through a fiber span, delocalizing the add/drop stage.

- Supports copying of ROADM demand properties—CTP allows you to copy the Traffic Type, Routing Strategy, Service Type, and the DWDM Card Interface table properties of a ROADM demand. These properties can be used as a template while creating a new ROADM demand or editing an existing one.

- Supports VCAT circuit on ADM-10G cards.

Related Documentation

Cisco Transport Planner DWDM Operations Guide, Release 9.2

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.

This document is to be used in conjunction with the documents listed in the "Related Documentation" section.