



Cisco Transport Manager 4.0 Element Management System for Cisco Optical Networking Products

Cisco Systems® announces that Cisco® Transport Manager 4.0 is available for order. This product release offers valuable new features and introduces support for the latest versions of the Cisco ONS Family of network elements.

Cisco Transport Manager is an advanced optical transport domain manager that delivers element and network management layer functionality for the Cisco ONS Family of optical networking products. Cisco Transport Manager supports configuration, fault, performance, and security management functional areas. Cisco Transport Manager also serves as a foundation for integration into a larger, overall operations support system (OSS) environment.

Cisco Transport Manager Release 4.0 Features

Cisco works to continuously improve the operational efficiencies of managing a Cisco optical transport network. This commitment is demonstrated by the new features available in Cisco Transport Manager 4.0 highlighted here.

Configurable user privilege profiles—In addition to the five predefined user privileges that currently exist (Operator, Provisioner, NetworkAdmin, SysAdmin, and SuperUser), the network administrator can now generate custom user-privilege profiles. This allows the administrator to generate a profile with Read Only, Read/Write, or No Access for a list of Cisco Transport Manager operations. Individual users can then be assigned to a given profile so that they can only access the management functions that are relevant to their operational duties. This capability provides more control and flexibility over the access permission of Cisco Transport Manager users.

Bulk network element discovery—A new discovery dialog is included that makes it possible to enter multiple IP addresses for network elements that are to be discovered. This saves time when adding multiple network elements to the Cisco Transport Manager's managed domain, making it unnecessary to initiate the discovery process on individual network elements one by one.

Network element autogrouping—Additional grouping options help with the logical grouping of network elements in the Domain Explorer during the discovery process. This allows discovered network elements to be grouped with the network element that discovered them, in the "Discovered Network Elements" group, or by subnet.

Locate equipment from Alarm Browser—The Network Element (NE) Explorer can be launched from a selected alarm in the Alarm Browser or Alarm Log window. The NE Explorer opens, showing the physical location of the alarmed equipment and quickly identifies the location of an alarmed object to assist with diagnostics.



Circuit table enhancements—The user can enter a Customer ID and a Service ID for each circuit in the Circuit table. These fields can be entered at the time the circuit is created, or through the “modify” capability after it is created. These free-form text fields are available to assist in identifying additional information about the end-user of the service. A notes field is also added to the Circuit table that allows a user to add notes to a specific circuit, if desired. Notes are typically used to inform other users of short-term operational activity taking place on a circuit.

When a port on the Cisco ONS 15454 SONET Multiservice Provisioning Platform (MSPP) has configured to carry Synchronous Digital Hierarchy (SDH) traffic, the virtual circuit (VC) number will be displayed in the Circuit table for easy identification.

Network map layout per user—Individual users can create a personal map view by choosing the position of the network elements, icon type, and map background.

Enhanced virtual LAN (VLAN) information—Cisco Transport Manager 4.0 displays enhanced VLAN information for the Cisco ONS 15454 E-Series Ethernet cards. A new table is introduced, which displays information, including: network element ID, slot, port, and spanning tree state for a selected VLAN. This table provides a convenient way to display all ports participating in a given VLAN.

Element management system (EMS) self monitoring—Cisco Transport Manager introduces a new capability to perform self monitoring. This assists the administrator in analyzing system performance and provides early visibility of any potential performance problems. Monitoring will include: CPU usage, memory usage, disk usage, performance management (PM) data collection time, circuit creation time, configuration resynch time, and prune time. A minor, major, and critical threshold can be configured for each of the measurements. An EMS alarm is raised if these thresholds are crossed.

EMS Alarms—When Cisco Transport Manager attempts to access a network element, it generates an alarm if authentication fails. EMS alarms are also generated if user-settable self-monitor thresholds are crossed.

Enable/disable NE autobackup—The administrator has the ability to enable or disable the NE autobackup feature. When enabled, the backup is displayed in the Job Monitor table.

Show network element active users—Cisco Transport Manager displays all users currently logged on to a network element and allows for a selected user to be disconnected. This feature is supported for the Cisco ONS 15454 R4.0 and Cisco ONS 15327 R4.0 software.

Operations on multiple network elements—Cisco Transport Manager introduces the capability to download the Alarm Profile, NE Defaults, or Security Advisory message to multiple network elements. This capability is supported for the ONS 15454 and ONS 15327 R3.4.1, and above.

Robust alarm synchronization—When Cisco Transport Manager performs a re-synch with a Cisco ONS 15454 or ONS 15327, the administrator can configure the type of alarm re-synch that occurs. The administrator can choose the standard or robust re-synch method. If robust is selected, then the re-synch uses the network element’s history log to re-synch alarms that have been raised and cleared, as well as the active alarms.

GateWay/CORBA enhancements—The IP address of the network element is included in the GateWay/CORBA alarm notification. To indicate that the notification service in Cisco Transport Manager is alive and active, a heartbeat can be set up using a configurable timer in the control panel to provide regular messages to the OSS. For the Cisco ONS 15454 R4.0, it is possible to collect real-time performance management data through the GateWay/CORBA interface.



Upgrade Paths

The Cisco Transport Manager 4.0 upgrade package (part number CTM-4.0-UPG) is available for any customer currently using a previous version of Cisco Transport Manager that wishes to upgrade to Cisco Transport Manager 4.0. Note that database migration is only supported from Cisco Transport Manager 3.2(.x) to 4.0. All existing right-to-use (RTU) licenses remain valid for Cisco Transport Manager 4.0.

Cisco Transport Manager 4.0 Supported Network Elements

The following is a list of network elements and software versions supported by Cisco Transport Manager 4.0:

Cisco ONS 15200 1.0(5), 1.1(1), 1.1(2), 1.1(3), 2.0

Cisco ONS 15216 100 GHz OADM 2.0, 2.1, 2.2

Cisco ONS 15216 EDFA2 2.0, 2.0.1, 2.1, 2.2

Cisco ONS 15216 200 GHz OADM, EDFA1, DWDM Filters, OSC, and DCU

Cisco ONS 15327 3.4.1, 4.0

Cisco ONS 15454 SONET 3.0.3, 3.2.1, 3.3, 3.4.1, 4.0

Cisco ONS 15454 SDH 3.4.1, 4.0

Cisco ONS 15501 3.0, 4.0

Cisco ONS 15530 12.1(10)EV4, 12.1(12c)EV

Cisco ONS 15540 ESP 12.1(12c)EV, 12.1(10)EV3

Cisco ONS 15540 ESPx 12.1(12c)EV, 12.1(10)EV3

Cisco ONS 15600 1.0

Cisco ONS 15800 2.0, 2.1

Cisco ONS 15801 2.0, 2.1

Cisco ONS 15808 2.0, 2.1

Cisco ONS 15302 1.0

Cisco ONS 15305 1.0

Ordering Information

Cisco Transport Manager 4.0 products may be ordered now from your sales representative or online at:

<http://www.cisco.com>.

Cisco Transport Manager comprises the base media kit, additional optional functional components (CORBA and HA), Client RTU licenses and network element RTU licenses. Tables 1 through 3 describe Cisco Transport Manager 4.0 software product kits, Client RTU license bundles, and NE RTU license bundles.



Table 1 Cisco Transport Manager 4.0 Software Product Kits

Part Number	Product Description
CTM-4.0-SMK	Cisco Transport Manager 4.0 Software Media Kit
CTM-4.0-UPG	Cisco Transport Manager 4.0 Upgrade Kit for 3.2[.x] to 4.0
CTM-4.0-CORBA	Cisco Transport Manager GateWay/CORBA Northbound Interface 4.0
CTM-4.0-CORBA-UPG	Cisco Transport Manager GateWay/CORBA Northbound Interface 4.0 Upgrade Kit for 3.2[.x] to 4.0
CTM-4.0-HA	Cisco Transport Manager 4.0 High Availability Agent 2.0
CTM-4.0-HA-UPG	Cisco Transport Manager 4.0 High Availability Agent 2.0 Upgrade Kit for 3.2[.x] to 4.0
CTM-4.0-SE-BDL	Cisco Transport Manager 4.0 SE System Bundle
CTM-4.0-LE-BDL	Cisco Transport Manager 4.0 LE System Bundle

Table 2 Cisco Transport Manager Client RTU License Bundles

Product Name	Product Description
CTM-CLIENT-001	Cisco Transport Manager Client RTU License—1 RTU
CTM-CLIENT-010	Cisco Transport Manager Client RTU License—10 RTU Block
CTM-CLIENT-050	Cisco Transport Manager Client RTU License—50 RTU Block

Table 3 Cisco Transport Manager Network Element RTU License Bundles

Part Number	Product Description
CTML-15302-001	Cisco Transport Manager RTU License for 15302—1 RTU
CTML-15302-025	Cisco Transport Manager RTU License for 15302—25 Block
CTML-15302-050	Cisco Transport Manager RTU License for 15302—50 Block
CTML-15302-100	Cisco Transport Manager RTU License for 15302—100 Block
CTML-15305-001	Cisco Transport Manager RTU License for 15305—1 RTU
CTML-15305-025	Cisco Transport Manager RTU License for 15305—25 Block
CTML-15305-050	Cisco Transport Manager RTU License for 15305—50 Block
CTML-15305-100	Cisco Transport Manager RTU License for 15305—100 Block
CTML-15200-001	Cisco Transport Manager RTU License for 15200—1 RTU
CTML-15200-010	Cisco Transport Manager RTU License for 15200—10 Block
CTML-15200-025	Cisco Transport Manager RTU License for 15200—25 Block



Table 3 Cisco Transport Manager Network Element RTU License Bundles

Part Number	Product Description
CTML-15200-050	Cisco Transport Manager RTU License for 15200—50 Block
CTML-15216-001	Cisco Transport Manager RTU License for 15216—1 RTU
CTML-15216-010	Cisco Transport Manager RTU License for 15216—10 Block
CTML-15216-025	Cisco Transport Manager RTU License for 15216—25 Block
CTML-15216-050	Cisco Transport Manager RTU License for 15216—50 Block
CTML-15530-001	Cisco Transport Manager RTU License for 15530 —1 RTU
CTML-15530-005	Cisco Transport Manager RTU License for 15530—5 Block
CTML-15530-010	Cisco Transport Manager RTU License for 5530—10 Block
CTML-15530-010	Cisco Transport Manager RTU License for 15540—1 RTU
CTML-15540-005	Cisco Transport Manager RTU License for 15540—5 Block
CTML-15600-025	Cisco Transport Manager RTU License for 15600—25 Block
CTML-1580X-001	Cisco Transport Manager RTU License for 1580X—1 RTU
CTML-1580X-005	Cisco Transport Manager RTU License for 1580X—5 Block
CTML-1580X-010	Cisco Transport Manager RTU License for 1580X—10 Block
CTML-1580X-025	Cisco Transport Manager RTU License for 1580X—25 Block

Passive Cisco ONS 15216 network elements not actively managed by Cisco Transport Manager—namely the Cisco ONS 15216 200 GHz Filter, ONS 15216 200 GHz OADM, ONS 15216 EDFA1, ONS 15216 OSC, and ONS 15216 DCU—do not require a Cisco Transport Manager RTU. The active Cisco ONS 15216 network elements, namely the Cisco ONS 15216 100 GHz OADM and ONS 15216 EDFA2, do require a Cisco Transport Manager RTU.

Cisco Transport Manager Annual Maintenance Contracts

A Cisco Software Application Support Plus Upgrades (SASU) service contract must be purchased to receive access to technical support through Cisco Technical Assistance Center (TAC) or Cisco.com. Cisco SASU also provides Cisco Transport Manager software upgrades as they are made available for the duration of the customer's contract. SP-SAU-xxx should be used for service provider customers. CON-SAU-xxx should be used for enterprise customers. Cisco SASU does not cover third-party products. Table 4 describes the annual maintenance contracts.



Table 4 Cisco Transport Manager Annual Maintenance Contracts

Part Number	Product Description
SP-SAU-CTM-40	SASU maintenance contract associated with CTM-4.0-SMK or CTM-4.0-UPG for service provider customers
CON-SAU-CTM-40	SASU maintenance contract associated with CTM-4.0-SMK or CTM-4.0-UPG for enterprise customers
SP-SAU-CORBA-40	SASU maintenance contract associated with CTM-4.0-CORBA or CTM-4.0-CORBA-UPG for service provider customers
CON-SAU-CORBA-40	SASU maintenance contract associated with CTM-4.0-CORBA or CTM-4.0-CORBA-UPG for enterprise customers
SP-SAU-HA-40	SASU maintenance contract associated with CTM-4.0-HA or CTM-4.0-HA-UPG for service provider customers
CON-SAU-HA-40	SASU maintenance contract associated with CTM-4.0-HA or CTM-4.0-HA-UPG for enterprise customers
SP-SAU-CTMSE-40	SASU maintenance contract associated with CTM-4.0-SE-BDL for service provider customers
CON-SAU-CTMSE-40	SASU maintenance contract associated with CTM-4.0-SE-BDL for enterprise provider customers
SP-SAU-CTMLE-40	SASU maintenance contract associated with CTM-4.0-LE-BDL for service provider customers
CON-SAU-CTMLE-40	SASU maintenance contract associated with CTM-4.0-LE-BDL for enterprise provider customers

More Information

For more information about Cisco Transport Manager 4.0, visit:

<http://www.cisco.com/en/US/products/sw/opticsw/ps2204/index.html>

CISCO SYSTEMS



Corporate Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters
Cisco Systems International BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: 31 0 20 357 1000
Fax: 31 0 20 357 1100

Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters
Cisco Systems, Inc.
Capital Tower
168 Robinson Road
#22-01 to #29-01
Singapore 068912
www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on the
Cisco Web site at www.cisco.com/go/offices

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia
Czech Republic • Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland
Israel • Italy • Japan • Korea • Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland
Portugal • Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden
Switzerland • Taiwan • Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

All contents are Copyright © 1992–2003 Cisco Systems, Inc. All rights reserved. Cisco, Cisco Systems, and the Cisco Systems logo are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and certain other countries.

All other trademarks mentioned in this document or Web site are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company.
(0303R) KW/LW4436 0403