

# Cisco Transport Manager 4.1

*Element Management System for Cisco Optical Networking Products*

**Cisco® announces that Cisco Transport Manager 4.1 is available for order. This product release offers many 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 4.1 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 4.1 highlighted here.

*Discovery Prioritization*—Cisco Transport Manager provides two new network element states that indicate the discovery phase of the network element for which there is a visual indication in both the Network Map and Domain Explorer. These states are *Initialization* (indicates the process of alignment of alarms and inventory) and *Synch Configuration* (indicates the process of alignment of all

configuration information such as thresholds and port state). Cisco Transport Manager allows users to prioritize the discovery process of a network element that is in *Initialization* phase.

*Integrated Topology and VLAN Service provisioning for Cisco ONS 15454 ML-Series cards*—Cisco Transport Manager provides facilities to create Point-to-Point and Resilient Packet Ring (RPR) topologies and the underneath circuits. Cisco Transport Manager provides a graphical interface to help users create VLAN Services. The graphical interface guides the user through different tasks such as assigning Circuit ID and Service ID, provisioning basic services QoS (CIR/PIR) and provisioning service drops.

*Native Provisioning Support for the Cisco ONS 15600*—This feature enables the user to directly perform equipment and facility provisioning of the Cisco ONS 15600 network element from within the Cisco Transport Manager application. This feature eliminates the need to cross-launch the Cisco Transport Controller application from Cisco Transport Manager to perform provisioning. Limited to the Cisco ONS 15600, Cisco Transport Manager supports a graphical interface to bridge and roll circuits.



*Edge Network Elements Enhancement*—Cisco Transport Manager supports integrated performance monitoring and software download for the Cisco ONS 15302 and Cisco ONS 15305. Performance monitoring is extended also through the GateWay/CORBA.

*Not Managed/Other Vendor Equipment Inventory*—Users can enter inventory information of network elements not managed by Cisco Transport Manager, including other vendors' equipment. Topological links can be manually created between managed and non-managed network elements to represent the physical topology on the Network Map view.

*Dashboard and Domain Explorer Enhancement*—Cisco Transport Manager dashboard has been enhanced to introduce the indication of IP Address of the server to which the client is connected and a pin icon that, when selected, prevents the dashboard from popping up to the foreground every time an alarm counter change occurs.

*Network Map Enhancements*—New Network Map features follow: zooming capabilities, automatic node layout, expand and collapse links, and detailed information and alarm status of the selected network map objects. Network Map supports Shape File format (SHP) as map background as well as gif format.

*Circuit Enhancements*—Cisco Transport Manager manages Open Ended UPSR/SNCP and VT concatenation via definition of Virtual Aggregation Point (VAP). Management of Open Ended UPSR/SNCP allows the user to define circuits going through other vendors' equipment. The final concatenation of the end-to-end circuit is left to the external OSS to which all information is provided via GateWay/CORBA. Circuit Tracing has been enhanced to provide detailed information such as: source, destination and transit port for both working and protection path, distinction between working path and protection path, alarm status and operational state for each port, path selectors, loopback information (if any), and link protection and bandwidth for each span.

*Utilization Information*—Cisco Transport Manager provides service utilization for each link and cross-connect. Additionally, Cisco Transport Manager provides a utilization table reporting detailed circuit information for each available link.

*BLSR/MS-SPRing Enhancement*—Cisco Transport Manager provides a graphical interface to create, modify, and delete BLSR/MS-SPRing topology and perform scheduling of the Exercise Ring operation.

*Performance Monitoring Data Collection Enhancement*—Cisco Transport Manager will generate Failure Retrieval alarm and Lost alarms for each performance monitoring bucket retrieval failure or bucket lost during performance monitoring collection. These alarms can be cleared by the user from the Alarm Browser view.

*Security Enhancement*—Users with the proper administration rights can configure the username and password that Cisco Transport Manager server uses to register to each network element on a device-by-device basis. This allows the user with administration rights to define different usernames/passwords for each network element in the domain. The selection of username/password for each network element in the domain can be done also via bulk operations. Cisco Transport Manager provides the ability to restrict circuit creation permission by assigning the circuit size to the user profile.

*Fault Preferences Enhancements*—Continuous audible alarm notification is now available. This feature is user-configurable.



*Administration Enhancement*—Users with the proper administration rights can mark individual Cisco Transport Manager server processes as critical. Cisco Turnabouts Manager server will generate an EMS alarm and automatically shut down when it detects a critical process failure. In a High Availability configuration the back-up server will be started automatically. Users with administration rights can enable or disable the capability to un-acknowledge alarms for all the users.

*Database Administration Enhancement*—Cisco Transport Manager provides the user with the information on the actual database configuration and provides facilities to control the pruning of the archive log dedicated partition. Cisco Transport Manager allows the user to customize the ORACLE SID during installation.

*GateWay/TL1 Enhancement*—Cisco Transport Manager provides the ability to define inactivity time-out for individual GateWay/TL1 OSS client sessions and manage all the active GateWay/TL1 OSS sessions. GateWay/TL1 support has been extended to Cisco ONS 15530 and ONS 15540 network elements.

*GateWay/CORBA Enhancement*—Cisco Transport Manager GateWay/CORBA has been enhanced to support: circuit provisioning using explicit route, manual link provisioning, Layer 2 topologies and VLAN Service provisioning for Cisco ONS 15454 ML-Series cards.

## **Upgrade Paths**

The Cisco Transport Manager 3.2 to 4.1 upgrade package (part number CTM-3.2-4.1-UPG) is available for any customer currently using Cisco Transport Manager 3.2.(x) who wishes to upgrade to Cisco Transport Manager 4.1. The Cisco Transport Manager 4.0 to 4.1 upgrade package (part number CTM-4.0-4.1-UPG) is available for any customer currently using Cisco Transport Manager 4.0.(x) who wishes to upgrade to Cisco Transport Manager 4.1. Note that database migration is supported from Cisco Transport Manager 3.2.(x) to 4.1 and from Cisco Transport Manager 4.0 to 4.1. All existing right-to-use (RTU) licenses remain valid for Cisco Transport Manager 4.1.

## Cisco Transport Manager 4.1 Supported Network Elements

The following is a list of network elements and software versions supported by Cisco Transport Manager 4.1.

- Cisco ONS 15200 1.0(5), 1.1(1), 1.1(2), 1.1(3), 2.0
- Cisco ONS 15216 100 GHz OADM 2.2.2
- Cisco ONS 15216 EDFA2 2.2.1
- Cisco ONS 15216 200 GHz OADM, EDFA1, DWDM Filters, OSC, and DCU
- Cisco ONS 15302 1.0
- Cisco ONS 15305 1.0
- Cisco ONS 15327 3.4.1, 4.0, 4.0.1, 4.1
- Cisco ONS 15454 SONET 3.0.3, 3.2.1, 3.3, 3.4.1, 4.0, 4.0.1, 4.1
- Cisco ONS 15454 SDH 3.4.1, 4.0, 4.0.1, 4.1
- Cisco ONS 15501 DC 3.0, 4.0, 4.1
- Cisco ONS 15501 AC 4.1
- Cisco ONS 15530 12.1(12c)EV3
- Cisco ONS 15540 ESP 12.1(12c)EV3
- Cisco ONS 15540 ESPx 12.1(12c)EV3



- Cisco ONS 15600 1.1
- Cisco ONS 15800 2.0, 2.1
- Cisco ONS 15801 2.0, 2.1
- Cisco ONS 15808 2.0, 2.1

#### Ordering Information

Cisco Transport Manager 4.1 products may be ordered now from your sales representative or online at:

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

Cisco Transport Manager consists of the base media kit, additional optional functional components (CORBA and HA), and RTU licenses.

Table 1 Cisco Transport Manager 4.1 Software Product Kits

Part Number	Product Description
CTM-4.1-SMK	Cisco Transport Manager 4.1 Software Media Kit
CTM-4.1-SE-BDL	Cisco Transport Manager 4.1 LE System Bundle
CTM-4.1-LE-BDL	Cisco Transport Manager 4.1 SE System Bundle
CTM-4.1-SS-BDL	Cisco Transport Manager 4.1 SS System Bundle
CTM-3.2-4.1-UPG	Cisco Transport Manager 4.1 Upgrade Kit for 3.2.[x] to 4.1
CTM-4.0-4.1-UPG	Cisco Transport Manager 4.1 Upgrade Kit for 4.0.[x] to 4.1
CTM-4.1-CORBA	Cisco Transport Manager GateWay/CORBA Northbound Interface 4.1
CTM-4.1-CORBA-UPG	Cisco Transport Manager GateWay/CORBA Northbound Interface 4.1 Upgrade Kit for 3.2.[x] and 4.0.[x] to 4.1
CTM-4.1-HA	Cisco Transport Manager 4.1 High Availability Agent 2.0
CTM-4.1-HA-UPG	Cisco Transport Manager 4.1 High Availability Agent 2.0 Upgrade Kit for 3.2.[x] and 4.0.[x] to 4.1

Table 2 Cisco Transport Manager Client RTU License Bundles

Product Name	Product Description
CTM-LE-SS-UPG	Cisco Transport Manager LE to SS System Bundle License Upgrade
CTM-SS-SMK-UPG	Cisco Transport Manager SS System Bundle to Software Media Kit License Upgrade



Table 3 Cisco Transport Manager RTU License Bundles

Part Number	Product Description
CTML-15200-001	Cisco Transport Manager Cisco ONS 15200 RTU License - 1 RTU
CTML-15200-010	Cisco Transport Manager Cisco ONS 15200 RTU License - 10 RTU Block
CTML-15200-025	Cisco Transport Manager Cisco ONS 15200 RTU License - 25 RTU Block
CTML-15200-050	Cisco Transport Manager Cisco ONS 15200 RTU License - 50 RTU Block
CTML-15216-001	Cisco Transport Manager Cisco ONS 15216 RTU License - 1 RTU
CTML-15216-010	Cisco Transport Manager Cisco ONS 15216 RTU License - 10 RTU Block
CTML-15216-025	Cisco Transport Manager Cisco ONS 15216 RTU License - 25 RTU Block
CTML-15216-050	Cisco Transport Manager Cisco ONS 15216 RTU License - 50 RTU Block
CTML-15302-001	Cisco Transport Manager Cisco ONS 15302 RTU License - 1 RTU
CTML-15302-025	Cisco Transport Manager Cisco ONS 15302 RTU License - 25 RTU Block
CTML-15302-050	Cisco Transport Manager Cisco ONS 15302 RTU License - 50 RTU Block
CTML-15302-100	Cisco Transport Manager Cisco ONS 15302 RTU License - 100 RTU Block
CTML-15305-001	Cisco Transport Manager Cisco ONS 15305 RTU License - 1 RTU
CTML-15305-025	Cisco Transport Manager Cisco ONS 15305 RTU License - 25 RTU Block
CTML-15305-050	Cisco Transport Manager Cisco ONS 15305 RTU License - 50 RTU Block
CTML-15305-100	Cisco Transport Manager Cisco ONS 15305 RTU License - 100 RTU Block
CTML-15530-001	Cisco Transport Manager Cisco ONS 15530 RTU License - 1 RTU
CTML-15530-005	Cisco Transport Manager Cisco ONS 15530 RTU License - 5 RTU Block
CTML-15530-010	Cisco Transport Manager Cisco ONS 15530 RTU License - 10 RTU Block
CTML-15540-001	Cisco Transport Manager Cisco ONS 15540 RTU License - 1 RTU Block
CTML-15540-005	Cisco Transport Manager Cisco ONS 15540 RTU License - 5 RTU Block
CTML-15540-010	Cisco Transport Manager Cisco ONS 15540 RTU License - 10 RTU Block
CTML-15327-001	Cisco Transport Manager Cisco ONS 15327 RTU License - 1 RTU
CTML-15327-025	Cisco Transport Manager Cisco ONS 15327 RTU License - 25 RTU Block
CTML-15327-050	Cisco Transport Manager Cisco ONS 15327 RTU License - 50 RTU Block
CTML-15327-100	Cisco Transport Manager Cisco ONS 15327 RTU License - 100 RTU Block
CTML-15454-001	Cisco Transport Manager Cisco ONS 15454 RTU License - 1 RTU
CTML-15454-025	Cisco Transport Manager Cisco ONS 15454 RTU License - 25 RTU Block
CTML-15454-050	Cisco Transport Manager Cisco ONS 15454 RTU License - 50 RTU Block
CTML-15454-100	Cisco Transport Manager Cisco ONS 15454 RTU License - 100 RTU Block



Table 3 Cisco Transport Manager RTU License Bundles

Part Number	Product Description
CTML-15454-500	Cisco Transport Manager Cisco ONS 15454 RTU License - 500 RTU Block
CTML-15600-001	Cisco Transport Manager Cisco ONS 15600 RTU License - 1 RTU Block
CTML-15600-005	Cisco Transport Manager Cisco ONS 15600 RTU License - 5 RTU Block
CTML-15600-025	Cisco Transport Manager Cisco ONS 15600 RTU License - 25 RTU Block
CTML-1580X-001	Cisco Transport Manager Cisco ONS 1580X RTU License - 1 RTU
CTML-1580X-005	Cisco Transport Manager Cisco ONS 1580X RTU License - 5 Block
CTML-1580X-010	Cisco Transport Manager Cisco ONS 1580X RTU License - 10 Block
CTML-1580X-025	Cisco Transport Manager Cisco ONS 1580X RTU License - 25 Block

Note: Passive Cisco ONS 15216 network elements that are 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, ONS 15216 DCU, and ONS 15216 Unidirectional Filter 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.

Table 4 Cisco Transport Manager Client RTU License Bundles

Part Number	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

### Cisco Transport Manager Annual Maintenance Contracts

A Cisco Software Application Support Plus Upgrades (SASU) 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.

Part Number	Product Description
SP-SAU-CTM-40	SASU maintenance contract associated with CTM-4.1-SMK, CTM-4.1-SE-BDL and CTM-3.2-4.1-UPG and CTM-4.0-4.1-UPG for service provider customers
CON-SAU-CTM-40	SASU maintenance contract associated with CTM-4.1-SMK, CTM-4.1-SE-BDL and CTM-3.2-4.1-UPG and CTM-4.0-4.1-UPG for enterprise customers
SP-SAU-CTMSE-40	SASU maintenance contract associated with CTM-4.1-SE-BDL or CTM-3.2-4.1-UPG and CTM-4.0-4.1-UPG for service provider customers with SE System Bundle



Part Number	Product Description
CON-SAU-CTMSE-40	SASU maintenance contract associated with CTM-4.1-SE-BDL or CTM-3.2-4.1-UPG and CTM-4.0-4.1-UPG for enterprise customers with a SE System Bundle
SP-SAU-CTMLE-40	SASU maintenance contract associated with CTM-4.1-LE- DL or CTM-3.2-4.1-UPG and CTM-4.0-4.1-UPG for service provider customers with a LE System Bundle
CON-SAU-CTMLE-40	SASU maintenance contract associated with CTM-4.1-LE-BDL or CTM-3.2-4.1-UPG and CTM-4.0-4.1-UPG for enterprise customers with a LE System Bundle
SP-SAU-CTMSS-4X	SASU maintenance contract associated with CTM-4.1-SS-BDL or CTM-3.2-4.1-UPG and CTM-4.0-4.1-UPG for service provider customers with a SS System Bundle
CON-SAU-CTMSS-4X	SASU maintenance contract associated with CTM-4.1-SS-BDL or CTM-3.2-4.1-UPG and CTM-4.0-4.1-UPG for enterprise customers with a SS System Bundle
SP-SAU-CTM-CORBA-40	SASU maintenance contract associated with CTM-4.1-CORBA or CTM-4.1-CORBA-UPG for service provider customers
CON-SAU-CTM-CORBA-40	SASU maintenance contract associated with CTM-4.1-CORBA or CTM-4.1-CORBA-UPG for enterprise customers
SP-SAU-CTM-HA-40	SASU maintenance contract associated with CTM-4.1-HA or CTM-4.1-HA-UPG for service provider customers
CON-SAU-CTM-HA-40	SASU maintenance contract associated with CTM-4.1-HA or CTM-4.1-HA-UPG for enterprise customers

#### More Information

For more information about Cisco Transport Manager 4.1, visit:

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



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