



Cisco Transport Manager 6.0

Product Overview

Cisco Systems® announces Cisco® Transport Manager Release 6.0, an intelligent element management system (EMS) that supports the latest versions of Cisco ONS Family network elements along with the Cisco Carrier Routing System (CRS-1), Cisco XR 12000 Series Router, Cisco MGX® 8880 Media Gateway, and the voice-enabled Cisco MGX 8850 and MGX 8830 multiservice switches.

Cisco Transport Manager intelligently supports configuration, fault, performance, and security management and serves as a foundation for integration into a larger, overall OSS environment. Table 1 lists the new features available in Cisco Transport Manager Release 6.0.

Table 1. New Features in Cisco Transport Manager Release 6.0

Feature	Description
Support for Cisco XR 12000 Series	With the addition of the Cisco XR 12000, Cisco Transport Manager 6.0 is now the single EMS solution for the entire portfolio of Cisco high-end carrier routing products.
Support for Cisco MGX 8880, MGX 8850 and MGX 8830	Cisco Transport Manager 6.0 introduces support for the Cisco MGX 8880 Media Gateway and voice-enabled Cisco MGX 8850 and MGX 8830 multiservice switches, replacing the Cisco Media Gateway Manager (MGM).
Support for Cisco MDS 9000	Cisco Transport Manager 6.0 supports the Cisco MDS (Multilayer Directors and Fabric Switches) 9000 as passive devices with the capability to cross-launch the Fabric Manager.
Citrix Metaframe and Tarantella Enterprise	Cisco Transport Manager 6.0 allows users to run the client application with the Citrix Metaframe and Tarantella Enterprise platforms.
Managing the login attempts to the EMS from unknown users	Cisco Transport Manager now monitors and reports login attempts from unknown users in the following ways: (1) the audit log generates a security violation record for each login attempt from an unknown user; (2) There is an "Unknown User Login Attempts" table in the GUI for tracking the IP address, the number of failed attempts, timestamp for the last failed attempt, and the lock-out state associated with each unknown user; (3) An EMS alarm will be generated if the number of failed login attempts from an IP address exceeds the maximum number of retries allowed.
RADIUS server configuration for the Cisco Transport Controller-based network elements	For the network elements running release 6.0, Cisco Transport Manager adds a "RADIUS Server" tab under the security tab of the Network Element Explorer. This tab allows users to configure the IP address and port information of the RADIUS server for authenticating network element users.
OSI/G.7721 Management for the Cisco Transport Controller-based network elements	To interoperate with older add/drop multiplexers (ADMs) and cross-connects that use OSI stack, the TCP/IP-based Cisco ONS 15000 Series uses tunneling protocols to transfer OSI over IP. Cisco Transport Manager 6.0 adds an OSI tab in the Network Element Explorer for managing OSI over IP tunneling.
Access security for the Cisco Transport Controller-based network elements	Users can now select secure mode for accessing the user or management interfaces of the Cisco Transport Controller-based network elements. Communication between Cisco Transport Manager and the network element relies on HTTPS or SSLIOP if the secure mode for EMS-to-network-element access is enabled.
Broadcast and Multicast configuration for the Cisco ONS 15454 ML-Series cards	Cisco Transport Manager 6.0 supports broadcast and multicast Quality of Service (QoS) configuration over Layer 2 topology for the Cisco ONS 15454 ML-Series cards with Cisco ONS 15454 and ONS 15310 Release 5.0 and later.
Reporting Resilient Packet Ring (RPR) in "wrapped" state	When a packet-over-SONET (POS) port in an RPR is shut down, Cisco Transport Manager reports a "WRAPPED" alarm, and a wrapped state for the Layer 2 topology state.

Feature	Description
Maximization of the manual routing window view	To provide a larger viewing space for manual links, the Circuit Creation Wizard allows users to expand the manual routing view to fill the entire window. A “restore” option can quickly revert the view back to the original.
Bridge and Roll support beyond Cisco ONS 15600	Support for Bridge and Roll is now available beyond Cisco ONS 15600. This feature is extended to Cisco ONS 15454, Cisco ONS 15454E, Cisco ONS 15310, and Cisco 15327.
Real-Time PM support for Cisco CRS-1 and Cisco XR 12000	Cisco Transport Manager 6.0 now supports Real-Time performance monitoring and graphics for Cisco CSR-1 and Cisco XR 12000.
Software Management for Cisco CRS-1 and Cisco XR 12000 Series	This feature allows users to add, activate, deactivate, remove, commit, or roll back a software version on multiple Cisco CRS-1 or XR 12000 network elements simultaneously.
Northbound interface for Cisco CRS-1, XR 12000, MGX 8880, MGX 8850 and MGX 8830	The TMF.814 Northbound Interface now supports fault and inventory management for the Cisco CRS-1, Cisco XR 12000 Series, Cisco MGX 8880 Media Gateway, and voice-enabled Cisco MGX 8850 and MGX 8830 multiservice switches.
Layer 3 Topology using BGP discovery for CRS-1 and XR 12000 Series	Cisco Transport Manager dynamically discovers Layer 3 links for all Border Gateway Protocol (BGP)-speaking Cisco CRS-1 systems and Cisco XR 12000 Series routers. The Network Map now allows Layer 3 link filtering for these network elements.

Cisco Transport Manager Release 6.0 Supported Network Elements

Following is a list of network elements and software versions supported by Cisco Transport Manager Release 6.0.

- Cisco ONS 15216 100-GHz Optical Add/Drop Multiplexer (OADM) releases 2.2.2, 2.2.3
- Cisco ONS 15216 100-GHz DWDM Red/Blue filters
- Cisco ONS 15216 Erbium-Doped Fiber Amplifier 2 (EDFA2) releases 2.2.1, 2.3, 2.4
- Cisco ONS 15216 EDFA3 release 1.1
- Cisco ONS 15216 200-GHz OADM, EDFA1, DWDM filters, Optical Supervisory Channel (OSC), and Dispersion Compensation Unit (DCU)
- Cisco ONS 15216 FlexLayer
- Cisco ONS 15302 Multiservice Customer Access Platform releases 2.0, 2.0.1, 2.0.2
- Cisco ONS 15305 Multiservice Customer Access Platform releases 2.0, 2.0.2, 2.0.2
- Cisco ONS 15310-CL SONET Multiservice Platform releases 5.0, 5.0.2, 5.0.4, 6.0
- Cisco ONS 15327 SONET Multiservice Platform releases 4.1.3, 4.1.4, 4.1.5, 4.1.6, 4.1.8, 4.6.2, 4.6.4, 5.0, 5.0.2, R5.0.4, 6.0
- Cisco ONS 15454 SONET Multiservice Platform releases 4.0.3, 4.1.1, 4.1.3, 4.1.4, 4.1.5, 4.1.6, 4.1.7, 4.1.8, 4.6.2, 4.6.4, 4.6.5, 4.7, 5.0, 5.0.2, 5.0.3, 5.0.4, 6.0
- Cisco ONS 15454 SDH Multiservice Platform releases 4.1.4, 4.6.3, 4.7, 4.1.8, 5.0, 5.0.1, 5.0.2, 5.0.4, 6.0
- Cisco ONS 15501 Direct Current (DC) release 4.1
- Cisco ONS 15501 Alternating Current (AC) release 4.1
- Cisco IOS® Software releases 12.2(25)SV, 12.2(26)SV, 12.2(26)SV1 for the Cisco ONS 15530
- Cisco IOS Software releases 12.2(25)SV, .2(26)SV, 12.2(26)SV1 for the Cisco ONS 15540 Extended Services Platform (EXP)
- Cisco IOS Software releases 12.2(25)SV, .2(26)SV, 12.2(26)SV1 for the Cisco ONS 15540 ESPx
- Cisco ONS 15600 SONET Multiservice Switching Platform (MSSP) releases 1.1.1, 1.3.1, 5.0.2, 5.0.4, 6.0
- Cisco ONS 15600 SDH Multiservice Switching Platform (MSSP) release 1.4

- Cisco ONS 15800 DWDM ANSI Platform release 2.1
- Cisco ONS 15801 DWDM ETSI Platform release 2.1
- Cisco ONS 15808 DWDM Platform release 2.2
- Cisco CRS-1 releases 3.0, 3.2, 3.2.1
- Cisco XR Series Router 12000 releases 3.2, 3.2.1
- Cisco MDS 9000 Series
- Cisco MGX 8880 Voice Gateway releases 5.0.20, 5.2.0
- Voice-enabled Cisco MGX 8850 Multiservice Switch releases 5.0.20, 5.2.0
- Voice-enabled Cisco MGX 8830 Multiservice Switch releases 5.0.20, 5.2.0
- Cisco VISM-PR releases 3.3.00, 3.3.10, 3.3.20 (supporting 3.3.10 features only)
- Cisco VXSM releases 5.0.20, 5.0.70, 5.2.00
- Cisco Catalyst® OS Release 7.1(1) or later for the Catalyst 6509 Switch

Availability

Cisco Transport Manager 6.0 will begin shipping September 13, 2005. Customers can place orders through their normal sales channels beginning September 1, 2005. Existing Cisco Transport Manager customers, with current Cisco Software Application Support plus Upgrades (SASU) contracts, can upgrade to Release 6.0 using the Cisco Product Upgrade Tool at www.cisco.com/upgrade.

Ordering Information

Cisco Transport Manager is made up of the base media kit, additional optional functional components (GateWay/CORBA and high-availability), and client and network element right-to-use (RTU) licenses. Table 2 lists the part numbers and descriptions associated with Cisco Transport Manager 6.0.

Table 2. Part Numbers and Descriptions

Part Number	Description
Cisco Transport Manager Release Software Product Kits	
CTM-6.0-K9	Cisco Transport Manager 6.0
CTM-6.0-SE-BDL-K9	Cisco Transport Manager 6.0 SE System BDL
CTM-6.0-LE-BDL-K9	Cisco Transport Manager 6.0 LE System BDL
CTM-6.0-SS-BDL-K9	Cisco Transport Manager 6.0 SS System BDL
CTM-6.0-CORBA	Cisco Transport Manager GateWay/CORBA Northbound Interface 6.0
CTM-6.0-HA	Cisco Transport Manager 6.0 High-Availability Agent 2.2
Cisco Transport Manager Release Upgrades	
CTM-3.2-6.0-UPG-K9	Cisco Transport Manager 6.0 Upgrade for 3.2[.x] or earlier to 6.0
CTM-4.0-6.0-UPG-K9	Cisco Transport Manager 6.0 Upgrade for 4.0[.x] to 6.0
CTM-6.0-UPG-K9	Cisco Transport Manager 6.0 Upgrade for 4.1[.x] or later to 6.0
CTM-6.0-CORBA-UPG	Cisco Transport Manager GateWay/CORBA Northbound Interface 6.0 Upgrade
CTM-6.0-HA-UPG	Cisco Transport Manager 6.0 High-Availability Agent 2.2 Upgrade

Part Number	Description
Cisco Transport Manager System bundle Upgrades	
CTM-LE-SS-UPG	Cisco Transport Manager LE (or SE) to SS System Bundle License Upgrade
CTM-SS-SMK-UPG	Cisco Transport Manager SS System Bundle to Software Media Kit License Upgrade
Cisco Transport Manager Network Element RTU Licenses	
CTML-15216-001	Cisco Transport Manager RTU License for Cisco ONS 15216 – 1 RTU
CTML-15216-010, 050	Cisco Transport Manager RTU License for Cisco ONS 15216 (10 block, 50 block)
CTML-15302-001	Cisco Transport Manager RTU License for Cisco ONS 15302 – 1 RTU
CTML-15302-025, -100	Cisco Transport Manager RTU License for Cisco ONS 15302 (25 block, 100 block)
CTML-15305-001	Cisco Transport Manager RTU License for Cisco ONS 15305 – 1 RTU
CTML-15305-025, -100	Cisco Transport Manager RTU License for Cisco ONS 15305 (25 block, 100 block)
CTML-15310-001	Cisco Transport Manager RTU License for Cisco ONS 15310CL – 1 RTU
CTML-15310-025, -100	Cisco Transport Manager RTU License for Cisco ONS 15310CL (25 block, 100 block)
CTML-15530-001	Cisco Transport Manager RTU License for Cisco ONS 15530 – 1 RTU
CTML-15530 -010	Cisco Transport Manager RTU License for Cisco ONS 15530 (10 block)
CTML-15540-001	Cisco Transport Manager RTU License for Cisco ONS 15540 – 1 RTU
CTML-15540 -010	Cisco Transport Manager RTU License for Cisco ONS 15540 (10 block)
CTML-15327-001	Cisco Transport Manager RTU License for Cisco ONS 15327 – 1 RTU
CTML-15327-025, -100	Cisco Transport Manager RTU License for Cisco ONS 15327 (25 block, 100 block)
CTML-15454-001	Cisco Transport Manager RTU License for Cisco ONS 15454 – 1 RTU
CTML-15454-025, -050, -100, -500	Cisco Transport Manager RTU License for Cisco ONS 15454 (25 block, 50 block, 100 block, 500 block)
CTML-15600-001	Cisco Transport Manager RTU License for Cisco ONS 15600 – 1 RTU
CTML-15600-005, -025	Cisco Transport Manager RTU License for Cisco ONS 15600 (5 block, 25 block)
CTML-1580X-001	Cisco Transport Manager RTU License for Cisco ONS 1580X – 1 RTU
CTML-CRS1-001	Cisco Transport Manager RTU License for CRS-1 – 1 RTU
CTML-XR12000-001	Cisco Transport Manager RTU license to manage (1) Cisco XR 12000
CTML-XR12000-010	Cisco Transport Manager RTU license to manage (10) Cisco XR 12000
CTML-XR12000LR-001	Cisco Transport Manager RTU license to manage (1) Cisco IOS XR 12000 LR
CTML-8880-001	Cisco Transport Manager RTU license to manage (1) Cisco MGX 8880
CTML-8850-001	Cisco Transport Manager RTU license to manage (1) Cisco MGX 8850
CTML-8830-001	Cisco Transport Manager RTU license to manage (1) Cisco MGX 8830
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 the 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.	
Cisco Transport Manager Client RTU Licenses	
CTM-CLIENT-001, -010, -050	Cisco Transport Manager Client RTU License (1 RTU, 10 RTU block, 50 RTU block)

Part Number	Description
Cisco Transport Manager Annual Maintenance Contracts	
CON-SAU-CTM-6X	Cisco SASU maintenance contract associated with CTM-6.0-K9, CTM-3.2-6.0-UPG-K9, CTM-4.0-6.0-UPG-K9, and CTM-5.X-6.0-UPG-K9
CON-SAU-CTMSE-6X	Cisco SASU maintenance contract associated with CTM-6.0-SE-BDL-K9 for customers with a SE system bundle
CON-SAU-CTMLE-6X	Cisco SASU maintenance contract associated with CTM-LE-BDL-K9 for customers with an LE system bundle
CON-SAU-CTMSS-6X	Cisco SASU maintenance contract associated with CTM-SS-BDL-K9 for customers with an SS system bundle
CON-SAU-CORBA-6X	Cisco SASU maintenance contract associated with CTM-6.0-CORBA or CTM-6.0-CORBA-UPG
CON-SAU-HA-6X	Cisco SASU maintenance contract associated with CTM-6.0-HA or CTM-6.0-HA-UPG
Note: A Cisco Software Application Support plus Upgrades (SASU) contract must be purchased to receive access to technical support through the Cisco Technical Assistance Center (TAC) or Cisco.com (Table 6). Cisco SASU also provides Cisco Transport Manager software upgrades, as they are made available, for the duration of the customer's contract. Cisco SASU does not cover third-party products.	

For More Information

For additional product information, visit: www.cisco.com/go/ctm or contact your local account representative.

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