



Cisco Transport Manager 7.0

PRODUCT OVERVIEW

Cisco Systems® announces Cisco® Transport Manager Release 7.0, 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 7.0; for further detail on new features refer to your sale representative.

Table 1. New Features in Cisco Transport Manager Release 7.0

Feature	Description
Modular installation and network-size upgrade	<ul style="list-style-type: none"> • Cisco Transport Manager 7.0 modular installation allows you to select only the components required to manage the specific technologies deployed on the network; optical, core router, and Cisco MGX media gateway. This feature reduces the time and server resources required to install the application. • The Cisco Transport Manager 7.0 installer provides an option to upgrade from one network-configuration size to another. Network-size upgrades are as follows: medium to large, medium to high-end, and large to high-end.
Multilanguage support	Node, group, circuit, and link names can be displayed using an alias based on Unicode characters to enhance multilanguage support. Support has been validated for Japanese characters (can be validated for other languages) that can be used also when generating reports and when using the User Notification dialog box.
Communication states enhancements	Cisco Transport Manager 7.0 adds support for two new node communication states. These are <i>Only Reachable</i> (indicates that node is IP reachable but cannot be discovered) and <i>Initialization Failed</i> (indicates that discovery cannot be completed).
Support for Cisco ONS 15310-MA Multiservice Platform Release 7.0	Cisco Transport Manager 7.0 expands its scope to include operations, administration, maintenance, and provisioning (OAM&P) for the Cisco ONS 15310-MA 7.0. Both Layer 1 and Layer 2 provisioning are extended to Cisco ONS 15310-MA 7.0.
Support for Cisco ONS 15305 Multiservice Customer Access Platform Release 3.0	Cisco Transport Manager 7.0 expands its scope to include node/card OAM&P for the Cisco ONS 15305 Release 3.0. Cisco Transport Manager 7.0 extends end-to-end circuit provisioning capabilities over Cisco ONS 15305 Release 3.0 nodes.
Multi-shelf management for Cisco ONS 15454 Multiservice Transport Platform (MSTP) 7.0	Cisco Transport Manager 7.0 expands its scope to include OAM&P of multi-shelf nodes. A multi-shelf node can aggregate up to 8 shelves using a single public IP address or node identifier. This feature is supported on the Cisco ONS 15454 MSTP 7.0.
Server-Trail provisioning	A Server Trail is a path/subnetwork connection in a server network used by the client network as a "black box" for transport purpose. With Cisco Transport Manager 7.0, you can provision Server Trails through the server network to be used for routing purposes. Server Trails are represented in the Network Map as dotted lines. This feature is available only for Cisco Transport Controller-based network elements.
Circuit trace enhancements	The Circuit Trace window in Cisco Transport Manager 7.0 is now context-sensitive. You can launch the NE Explorer or perform port operations by selecting the graphical objects representing nodes and ports.
Circuit creation enhancements	In Cisco Transport Manager 7.0, users selecting manual routing during circuit provisioning can choose between a graphical or text-based interface. When using the manual routing graphical interface, the destination nodes will be automatically selected after the span is selected. You can restrict circuit routing to spans that have a specific timeslot available.

Optical Channel Client Connection (OCHCC) provisioning	With Cisco Transport Manager 7.0, you can provision optical channel client connection (OCHCC) circuits between client and trunk ports of a Cisco ONS 15454 node. OCHCC circuits can be traced using the Circuit Trace window, allowing you to follow a specific wavelength path from source transponder or ITU line card to destination transponder or ITU line card.
Rapid Spanning Tree Protocol (RSTP) and Class Map provisioning for the Cisco ONS 15454 ML-Series cards	With Cisco Transport Manager 7.0, you can enable or disable RSTP on Layer 2 services while creating a Layer 2 service and while creating or modifying Layer 2 service drops. Cisco Transport Manager 7.0 allows you to enable or disable Class Map provisioning during Layer 2 topology creation.
Layer 3 VPN provisioning for Cisco CRS-1 and Cisco XR 12000 Series	Cisco Transport Manager 7.0 supports Layer 3 VPN features in Cisco IOS XR Software Release 3.3. You can manage node-based configuration or Virtual Route Forwarding (VRF), VRF and interface association, and Border Gateway Protocol (BGP) enhancements for 2547bis VPN. You can also provision BGP, Open Shortest Path First (OSPF), and Static Routing as the protocols for the routing between the provider edge and the customer edge routers.
Logging enhancements	Cisco Transport Manager 7.0 offers higher granularity for debugging options, allowing you to troubleshoot problems quicker. You can access the debug options at three different levels: Service, Service Instance, and Network Element level. You can select only the instance that requires troubleshooting.

Cisco Transport Manager Release 7.0 Supported Network Elements

Following is a list of network elements and software versions supported by Cisco Transport Manager Release 7.0.

- 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 2.3, 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 2.0.1, 2.0.2
- Cisco ONS 15305 Multiservice Customer Access Platform Releases 2.0.1, 2.0.2, 3.0
- Cisco ONS 15310-CL SONET Multiservice Platform Releases 5.0.2, 5.0.4, 5.0.6, 5.0.7, 6.0, 6.0.1, 7.0
- Cisco ONS 15310-MA SONET Multiservice Platform Releases 7.0
- Cisco ONS 15327 SONET Multiservice Platform Releases 4.1.3, 4.1.4, 4.1.8, 5.0.2, 5.0.6, 5.0.7, 6.0, 6.0.1, 6.2, 7.0
- Cisco ONS 15454 SONET Multiservice Provisioning Platform Releases 4.0.3, 4.1.3, 4.1.4, 4.1.6, 4.1.8, 4.6.4, 4.6.5, 4.7, 5.0.4, 5.0.6, 5.0.7, 6.0, 6.0.1, 6.2, 7.0
- Cisco ONS 15454 SDH Multiservice Provisioning Platform Releases 4.1.8, 4.6.3, 5.0, 5.0.1, 5.0.4, 5.0.6, 6.0, 6.0.1, 6.2, 7.0
- Cisco ONS 15501 EDFA Optical Amplifier (DC) Release 4.1
- Cisco ONS 15501 EDFA Optical Amplifier (AC) Release 4.1
- Cisco IOS® Software Releases 12.2(26)SV1, 12.2(26)SV2 for the Cisco ONS 15530
- Cisco IOS Software Releases 12.2(26)SV1, 12.2(26)SV2 for the Cisco ONS 15540 Extended Services Platform (EXP)
- Cisco IOS Software Releases 12.2(26)SV1, 12.2(26)SV2 for the Cisco ONS 15540 ESPx
- Cisco ONS 15600 SONET Multiservice Switching Platform (MSSP) Releases 1.3.1, 5.0.2, 5.0.4, 5.0.6, 5.0.7, 6.0, 6.0.1, 6.2, 7.0
- 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, 3.2.2, 3.3
- Cisco XR 12000 Series Router Releases 3.2, 3.2.1, 3.2.2, 3.3
- Cisco MDS 9000 Series
- Cisco MGX 8880 Media Gateway Releases 5.0.20, 5.2.00, 5.3.00
- Voice-enabled Cisco MGX 8850 Multiservice Switch Releases 5.0.20, 5.2.00, 5.3.00
- Voice-enabled Cisco MGX 8830 Multiservice Switch Releases 5.0.20, 5.2.00, 5.3.00
- Cisco VISM-PR Releases 3.3.10, 3.3.20, 3.3.25
- Cisco VXSM Releases 5.0.70, 5.2.00, 5.3.00
- Cisco Catalyst® OS Release 7.1(1) or later for the Catalyst 6509 Switch

AVAILABILITY

Cisco Transport Manager 7.0 will begin shipping March 17, 2006. Customers can place orders through their normal sales channels beginning March 2, 2005. Existing Cisco Transport Manager customers, with current Cisco Software Application Support plus Upgrades (SASU) contracts not yet expired, can upgrade to Release 7.0 using the Cisco Product Upgrade Tool at <http://www.cisco.com/upgrade>.

Starting with Cisco Transport Manager 7.0, only the Cisco Software Application Support (SAS) contract is available.

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 7.0.

Table 2. Part Numbers and Descriptions

Part Number	Description
Cisco Transport Manager Release Software Product Kits	
CTM-7.0-K9	Cisco Transport Manager 7.0
CTM-7.0-NE10-K9	Cisco Transport Manager 7.0 to manage up to 10 nodes and 5 concurrent clients
CTM-7.0-NE50-K9	Cisco Transport Manager 7.0 to manage up to 50 nodes and 10 concurrent clients
CTM-7.0-NE200-K9	Cisco Transport Manager 7.0 to manage up to 200 nodes and 20 concurrent clients
CTM-7.0-CORBA	Cisco Transport Manager GateWay/CORBA Northbound Interface 7.0
CTM-7.0-HA	Cisco Transport Manager 7.0 High Availability Agent 2.2
Cisco Transport Manager Release Upgrades	
CTM-3.2-7.0-UPG-K9	Cisco Transport Manager 7.0 Upgrade for 3.2.x or earlier to 7.0
CTM-4.0-7.0-UPG-K9	Cisco Transport Manager 7.0 Upgrade for 4.0.x to 7.0
CTM-7.0-UPG-K9	Cisco Transport Manager 7.0 Upgrade for 4.1.x or later to 7.0
CTM-7.0-CORBA-UPG	Cisco Transport Manager GateWay/CORBA Northbound Interface 7.0 Upgrade
CTM-7.0-HA-UPG	Cisco Transport Manager 7.0 High Availability Agent 2.2 Enhanced Upgrade
Note: Cisco SAS is available for all the above listed application and related upgrades. The purchase of an annual Cisco SAS maintenance contract entitles you to free upgrades to minor and maintenance application releases, access to the Cisco.com Software Center for patches and bug fixes, and Cisco Technical Assistance Center (TAC) support. Refer to your Cisco sales representative for further information.	

Cisco Transport Manager License Upgrades	
CTM-NE10TO50-UPG	Cisco Transport Manager to manage up to 50 nodes, License Upgrade
CTM-NE50TO200-UPG	Cisco Transport Manager to manage up to 200 nodes, License Upgrade
CTM-NE200UNL-UPG	Cisco Transport Manager to manage up to maximum number of nodes, License Upgrade
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)
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	Cisco Transport Manager RTU License for Cisco ONS 15302 (25 block)
CTML-15305-001	Cisco Transport Manager RTU License for Cisco ONS 15305—1 RTU
CTML-15305-025	Cisco Transport Manager RTU License for Cisco ONS 15305 (25 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-15540-001	Cisco Transport Manager RTU License for Cisco ONS 15540—1 RTU
CTML-15327-001	Cisco Transport Manager RTU License for Cisco ONS 15327—1 RTU
CTML-15327-025	Cisco Transport Manager RTU License for Cisco ONS 15327 (25 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-15454M-001	Cisco Transport Manager RTU License for Cisco ONS 15454 Multishelf—1 RTU
CTML-15454M-005, -025	Cisco Transport Manager RTU License for Cisco ONS 15454 Multishelf (5 block, 25 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-CRS1-8-001	Cisco Transport Manager RTU license to manage (1) Cisco CRS-1 8 Slot Shelf
CTML-CRS1-16-001	Cisco Transport Manager RTU license to manage (1) Cisco CRS-1 16 Slot Shelf
CTML-CRS1LR-001	Cisco Transport Manager RTU license to manage (1) Cisco CRS-1 Logical Router
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.	

FOR MORE INFORMATION

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



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