



## CISCO TRANSPORT MANAGER 5.0

**Cisco Systems® announces the Cisco® Transport Manager Release 5.0, providing new features and support for the latest versions of the Cisco ONS family of network elements along with the Cisco CRS-1 Carrier Routing System.**

Cisco Transport Manager is an intelligent element management system (EMS) for the Cisco ONS family of products and Cisco CRS-1. It supports configuration, fault, performance, and security management. Cisco Transport Manager also serves as a foundation for integration into a larger overall operations support system (OSS) environment.

Cisco has improved the operational efficiencies of managing a Cisco optical transport network. The new features available in the Cisco Transport Manager Release 5.0 are shown in Table 1.

**Table 1.** New Features of the Cisco Transport Manager Release 5.0

Feature	Description
<b>Support for Cisco CRS-1</b>	Cisco Transport Manager 5.0 introduces support for the Cisco CRS-1. A single EMS now can be used to manage both optical transport and core routing.
<b>Support for Cisco ONS 15310 SONET Multiservice Platform</b>	Cisco Transport Manager 5.0 expands support for the Cisco ONS 15000 series products to include management for the Cisco ONS 15310-CL.
<b>Support for Oracle9i</b>	Cisco Transport Manager 5.0 now uses Oracle9i as its database.
<b>Real-time Performance Management Data Display</b>	Cisco Transport Manager 5.0 provides support for real-time performance management collection and display for Cisco Transport Controller (CTC)-based network elements (Cisco ONS 15310, 15327, 15454 SONET, 15454 SDH, 15600 SONET, and 15600 SDH). This enables diagnostics and fault finding to be performed quickly due to rapid data updates.
<b>Separate Pruning Intervals for 15-Minute and 1-Day Performance Management Data</b>	Cisco Transport Manager 5.0 allows independent pruning intervals for 15-minute and 1-day performance management data. By saving the 1-day performance management data but deleting the 15-minute data a longer history can be stored without excessive amounts of 15-minute data filling the database.
<b>Automatic Identification of GateWay Network Elements (GNEs)</b>	CTM automatically identifies if a network element is a GNE, an end network element (ENE), or a LAN-connected network element (LNE). This allows the topology of the network automatically to be discovered and dynamically updated if the network changes. A find function displays all ENEs associated with a GNE.

Feature	Description
<b>Improved Debug Logging Control (Ability to Archive Log Files)</b>	When a log file is about to wrap, Cisco Transport Manager saves the regular log file to a separate user selectable, archive file. This provides a mechanism to archive log files and facilitates the long-term collection of logging information.
<b>Ability to Disable Inactive User Accounts Automatically</b>	This feature provides added security for Cisco Transport Manager by automatically disabling accounts after a selected number of non-use days have elapsed.
<b>Control of Simultaneous Active Sessions for the Same User Profile</b>	Allows the number of permitted simultaneous logins assigned to a given user profile to be specified to tightly control access permission to Cisco Transport Manager.
<b>Configurable Password Complexity</b>	The network administrator can configure the password complexity rules including minimum password length, minimum number of special characters, and whether to allow a circular shift.
<b>Early Warning for Password Expiration</b>	This feature allows the network administrator to configure an early warning to inform users of password expiration.
<b>Password History and Prevention of Password Reuse</b>	This feature allows the network administrator to enforce strict control over new passwords and Cisco Transport Manager's password change rules to comply with the corporation's general policy.
<b>End Attempted Login Session After the Threshold is Reached</b>	This feature allows the network to configure the maximum number of login attempts a user is allowed before being denied access.
<b>Dynamic Cisco Transport Manager Menus</b>	Cisco Transport Manager dynamically hides network element-specific menu items that are not required. The submenus under the Configuration and Administration menus are visible only if at least one network element of that type is in the management domain.
<b>Flexible Configuration Resynchronization Scheduling</b>	The network administrator can specify a schedule, including the time and the day of the week, for database resynchronization for each network element model.

Feature	Description
<b>Enhancements to Layer 2 Features</b>	<p>This feature introduces the following Layer 2 enhancements:</p> <ul style="list-style-type: none"> <li>• Ability to create, modify, and delete quality of service (QoS) profiles; a QoS profile is a set of user-defined QoS parameters that can be saved in the Cisco Transport Manager database and used during Layer 2 service provisioning</li> <li>• Ability to create, modify, and delete Cisco IOS® command-line interface (CLI) users on ML cards</li> <li>• Ability to create virtual concatenation (VCAT) circuits for Layer 2 Resilient Packet Ring (RPR) or Layer 2 point-to-point topologies</li> <li>• Ability to view bandwidth utilization reports for Layer 2 topologies based on the number of Layer 2 services with User-Network Interface (UNI), (QinQ, dot1Q, Untagged) drop ports; a warning is reported if bandwidth is not available during Layer 2 service creation</li> </ul>
<b>Enhanced Network Map Link display</b>	Cisco Transport Manager supports display of links between different network element models at compatible layer rates to allow more complete display of network topology.
<b>Least Cost Circuit Routing</b>	Cisco Transport Manager allows for the assignment of a numeric cost associated with the Cisco Transport Controller-based SONET or SDH layer link.
<b>Shared Risk Link Group (SRLG)</b>	It is possible to specify an SRLG for each Cisco Transport Controller-based SONET or SDH layer link. When Diverse SRLG is enabled in the circuit provisioning (only for Fully Protected Path), Cisco Transport Manager chooses a working path and a protected path whose links do not share a common SRLG.
<b>GUI Configuration of Cisco Transport Manager GateWay/Common Object Request Broker Architecture (CORBA) Parameters</b>	Quick and easy set up of GateWay/CORBA by access to the configuration parameter from the Cisco Transport Manager GUI.
<b>Support for Up to 25 Cisco Transport Manager GateWay/CORBA Sessions</b>	Cisco Transport Manager supports configuration of the maximum number of simultaneous Cisco Transport Manager GateWay/CORBA OSS sessions. The default is four sessions; the range is 1 to 25 sessions.

## CISCO TRANSPORT MANAGER RELEASE 5.0 SUPPORTED NETWORK ELEMENTS

Network elements and software versions supported by Cisco Transport Manager Release 5.0 are:

- Cisco ONS 15200 Releases 1.1(2) and 1.1(3)
- Cisco ONS 15216 100 GHz optical add/drop multiplexer (OADM) Release 2.2.2
- Cisco ONS 15216 100 GHz dense wavelength-division multiplexing (DWDM) Red/Blue Filters
- Cisco ONS 15216 erbium-doped fiber amplifier 2 (EDFA2) Releases 2.2.1, 2.3, and 2.4
- Cisco ONS 15216 erbium-doped fiber amplifier 3 (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 Releases 1.0.1 and 2.0
- Cisco ONS 15305 Release 1.1.1 and 2.0
- Cisco ONS 15310CL Release 5.0
- Cisco ONS 15327 Releases 3.4.1, 4.1.3, 4.1.4, 4.1.5, 4.1.6, 4.6.2, and 5.0
- Cisco ONS 15454 SONET Releases 3.2.1, 3.3, 3.4.1, 4.0.1, 4.0.3, 4.1.1, 4.1.3, 4.1.4, 4.1.5, 4.1.6, 4.6.2, 4.7, and 5.0
- Cisco ONS 15454 SDH Releases 4.1.3, 4.1.4, 4.6.2, 4.6.3, 4.7, and 5.0
- 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 and 12.2(22)S2 for the Cisco ONS 15530
- Cisco IOS Software Releases 12.2(25)SV and 12.2(22)S2 for the Cisco ONS 15540 Extended Services Platform (ESP)
- Cisco IOS Software Releases 12.2(25)SV and 12.2(22)S2 for the Cisco ONS 15540 ESPx
- Cisco ONS 15600 Releases 1.1.2, 1.1.3, 1.3.1, and 5.0
- Cisco ONS 15600 SDH Release 1.4
- Cisco ONS 15800 Releases 2.0 and 2.1
- Cisco ONS 15801 Releases 2.0 and 2.1
- Cisco ONS 15808 Releases 2.1 and 2.2
- Cisco CRS-1 Releases 2.0 and 3.0
- Cisco Catalyst® 6509 (used when managing CRS-1) Cat OS 6.3(7), 6.3(8), 6.3(9), 6.3(10), 6.4(1), 6.4(2), 6.4(3), 6.4(4), 6.4(4a), 6.4(5a), 6.4(6), 6.4(6a), 6.4(7), 6.4(8), 7.1(1), 7.1(1a), 7.1(2), 7.2(1), 7.2(2), 7.3(1), 7.3(2), 7.4(2), 7.4(3), 7.5(1), 7.6(1), 7.6(2), 7.6(2a), 7.6(3), 7.6(3a), 7.6(4), 7.6(5), 7.6(6), 8.1(1), 8.1(2), 8.1(3), 8.2(1), and 8.3(2)

## AVAILABILITY

Cisco Transport Manager Release 5.0 will begin shipping January 21, 2005. Customers who want to purchase these products can place orders through their normal sales channels beginning January 7, 2005. Existing Cisco Transport Manager customers with current Cisco Software Application Support plus Upgrades (SASU) contracts can use the Cisco Product Upgrade Tool at [www.cisco.com/upgrade](http://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 Release 5.0.

**Table 2.** Part Numbers and Descriptions

Part Number	Description
<b>Cisco Transport Manager Release Software Product Kits</b>	
CTM-5.0-K9	Cisco Transport Manager 5.0
CTM-5.0-SE-BDL-K9	Cisco Transport Manager 5.0 SE System BDL with 10 ONS 15000 RTU licenses and 2 Client licenses
CTM-5.0-LE-BDL-K9	Cisco Transport Manager 5.0 LE System BDL with 30 ONS 15000 RTU licenses and 5 Client licenses
CTM-5.0-SS-BDL-K9	Cisco Transport Manager 5.0 SS System BDL with 50 ONS 15000 RTU licenses and 10 Client licenses
CTM-5.0-CORBA	Cisco Transport Manager GateWay/CORBA Northbound Interface 5.0

Part Number	Description
CTM-5.0-HA	Cisco Transport Manager 5.0 High Availability Agent 2.2
<b>Cisco Transport Manager Release Upgrades</b>	
CTM-3.2-5.0-UPG-K9	Cisco Transport Manager 5.0 UPG for 3.2[.x] or pre-3.2 to 5.0
CTM-4.0-5.0-UPG-K9	Cisco Transport Manager 5.0 UPG for 4.0[.x] to 5.0
CTM-4.X-5.0-UPG -K9	Cisco Transport Manager 5.0 UPG for 4.1[.x], 4.6[.x] or 4.7[.x] to 5.0
CTM-5.0-CORBA-UPG	Cisco Transport Manager GateWay/CORBA Northbound Interface 5.0 UPG
CTM-5.0-HA-UPG	Cisco Transport Manager 5.0 High Availability Agent 2.2 UPG
<b>Cisco Transport Manager System Bundle Upgrades</b>	
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
<b>Cisco Transport Manager Network Element RTU Licenses</b>	
CTML-15200-001	Cisco Transport Manager RTU License for Cisco ONS 15200—1 RTU
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-15310CL-001	Cisco Transport Manager RTU License for Cisco ONS 15310CL—1 RTU
CTML-15310CL-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

Part Number	Description
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

**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)
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#### Documentation

If a bound copy of the Cisco Transport Manager Release 5.0 User Guide is required, it can be ordered separately. Customer order number DOC-7816348=

#### Cisco Transport Manager Annual Maintenance Contracts

A Cisco SASU contract must be purchased to receive access to technical support through the Cisco Technical Assistance Center (TAC) or [Cisco.com](http://Cisco.com). Cisco SASU also provides Cisco Transport Manager software upgrades for the duration of the customer's contract as they are made available. Cisco SASU does not cover third-party products.

CON-SAU-CTM-5X	Cisco SASU maintenance contract associated with Cisco Transport Manager 5.0, Cisco Transport Manager 3.2-5.0-UPG, Cisco Transport Manager 4.0-5.0-UPG, and Cisco Transport Manager 4.X-5.0-UPG
CON-SAU-CTMSE-5X	Cisco SASU maintenance contract associated with Cisco Transport Manager 5.0-SE-BDL for customers with an SE system bundle
CON-SAU-CTMLE-5X	Cisco SASU maintenance contract associated with CTM-LE-BDL for customers with an LE system bundle
CON-SAU-CTMSS-5X	Cisco SASU maintenance contract associated with CTM-SS-BDL for customers with an SS system bundle
CON-SAU-CORBA-5X	Cisco SASU maintenance contract associated with CTM-5.0-CORBA or CTM-5.0-CORBA-UPG
CON-SAU-HA-5X	Cisco SASU maintenance contract associated with CTM-5.0-HA or CTM-5.0-HA-UPG

#### FOR MORE INFORMATION

For additional product information, visit [www.cisco.com/go/ctm](http://www.cisco.com/go/ctm) or contact your local Cisco account representative.



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