



DATA SHEET

CISCO TRANSPORT MANAGER 5.0

PRODUCT OVERVIEW

Cisco® Transport Manager is an intelligent element management system (EMS) that efficiently manages the entire Cisco ONS Family of products along with the Cisco CRS-1 Carrier Routing System. Cisco Transport Manager supports configuration, fault, performance, and security management functional areas and serves as a foundation for integration into a larger, overall operations support system (OSS) environment. Highly available configuration, self-healing processes, and comprehensive management across the Cisco ONS Family give service providers and large enterprises a resilient, adaptable, and integrated carrier-class EMS solution.

IMPORTANT FEATURES AND BENEFITS

GUI-Based Point-and-Click Management System for Unparalleled Productivity

Cisco Transport Manager is a powerful GUI-based management system that makes advanced management capabilities such as A-to-Z circuit provisioning easy to learn and use. Its Explorer-style navigation, the extensive use of wizards, tool tips, legends, and online help allow an operator to perform tasks quickly and efficiently. Many otherwise tedious, time-consuming, and error-prone tasks can be simplified using Cisco Transport Manager's intuitive tools.

High Availability for Carrier-Class Management Capabilities

Cisco Transport Manager is designed for continuous operation. High-availability deployment configurations are available, providing local and geographic redundancy options. Cisco Transport Manager can cope with heavy-load scenarios such as high circuit-transaction rates, performance-monitoring data collection, alarm storms, and numerous simultaneous clients. Cisco Transport Manager plays a crucial role in the high availability of the network itself. Cisco Transport Manager's fault-management and performance-management capabilities help to ensure that network problems are discovered quickly and accurately, allowing them to be addressed often before a customer's service is noticeably affected.

One-Stop Management Solution Using Industry-Standard Platforms for Low Cost of Ownership

Cisco Transport Manager supports optical network technologies, such as SONET/SDH, long haul, and metropolitan dense wavelength-division multiplexing (DWDM). These technologies are deployed for transport and services such as DS-1/E1, DS-3/E3, 10/100 Ethernet, Gigabit Ethernet, and storage networking protocols. In addition, Cisco Transport Manager supports IP/Multiprotocol Label Switching (MPLS) services delivered from the Cisco CRS-1. By covering all the Cisco ONS Family of products along with the Cisco CRS-1, Cisco Transport Manager eliminates the need to deploy multiple technology-specific EMSs, which results in capital and operating expense savings. Cisco Transport Manager has a global reach—simultaneously it can manage both ANSI and ETSI network elements, which is ideal for service providers or large enterprises with an international service area.

Cisco Transport Manager is cost effective, using industry-standard platforms such as Sun Solaris, Oracle, and Microsoft Windows to fit smoothly into the IT environment of most companies. Cisco Transport Manager's easy installation, smooth administration, and simple user interface also help decrease cost of ownership. Using scalable Sun server platforms, it is possible to minimize up-front investment but still grow the network by gradually adding additional processors, memory, and disk space.

Northbound Interfaces for Operations Automation

Industry-standard Transaction Language One (TL1), Simple Network Management Protocol (SNMP), and Common Object Request Broker Architecture (CORBA) protocols make Cisco Transport Manager a flexible building block in traditional as well as next-generation OSS infrastructures. Cisco Transport Manager not only captures and stores all relevant information from the optical transport domain, it also makes that information and its management available to higher-layer OSSs using open communications protocols. For example, the TeleManagement Forum-compliant CORBA northbound interface of Cisco Transport Manager facilitates the implementation of the next generation of inventory management, provisioning, flow-through circuit management, and service assurance.

PRODUCT SPECIFICATIONS

Table 1 shows the product specifications for Cisco Transport Manager 5.0.

Table 1. Product Specifications

Features and Functions	<p>GUI</p> <ul style="list-style-type: none"> • Rich point-and-click, intuitive user interface • Domain Explorer for logical organization of network elements and Subnetwork Explorer for hierarchical organization of network elements • Easy, drill down navigation from network to shelf, cards, port • Network maps for topology display with zooming capabilities • Alarm Browser and Alarm Log • Control panel for managing server properties and default settings • Client inactivity timers for automatic screen lock and automatic logout • Powerful step-by-step provisioning wizards <p>Management Functional Areas</p> <p>Configuration Management</p> <ul style="list-style-type: none"> • Native equipment and facility provisioning • A-to-Z circuit provisioning • Layer 2 provisioning using QoS templates • Network-element explorer for detailed configuration of network elements • Topology and link management • Broadcast software download • Automatic network-element memory backup, on-demand restoration <p>Fault Management</p> <ul style="list-style-type: none"> • Real-time visual and audible alarm (optional continuous alarm) and event management • Current and historical alarms • Alarm-aware displays, Alarm Browser and Alarm Log, network maps, network-element explorers, Domain Explorer, Subnetwork Explorer, and summary dashboard • Enable and disable unacknowledge alarm capability
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Features and Functions**Performance Management**

- Configurable automatic collection of near-end and far-end, 15-minutes to 1-day performance-monitoring data
- Query wizard for performance-monitoring reports
- Robust performance-monitoring collection option to recover performance-monitoring data missed during communication downtime
- Graph performance-monitoring data
- Real-time display with 10-second polling

Security Management

- Centralized management of network-element user accounts
- Upload, storage, and viewing of network-element audit logs
- Comprehensive Cisco Transport Manager audit log tracks all user actions
- Enforced password complexity, password aging
- Custom profiles for access control of different user groups

Northbound Interfaces

- GateWay/CORBA
- GateWay/TL1
- GateWay/SNMP

Network Element Releases Supported

- Cisco ONS 15200 Software releases 1.1(2), 1.1(3)
- Cisco ONS 15216 100-GHz optical add/drop multiplexer (OADM) Release 2.2.2
- 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 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, 2.0
- Cisco ONS 15305 releases 1.1.1, 2.0
- Cisco ONS 15310CL Release 5.0
- Cisco ONS 15327 Software releases 3.4.1, 4.1.3, 4.1.4, 4.1.5, 4.1.6, 4.6.2, 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, 5.0
- Cisco ONS 15454 SDH releases 4.1.3, 4.1.4, 4.6.2, 4.6.3, 4.7, 5.0
- Cisco ONS 15501 DC Release 4.1
- Cisco ONS 15501 AC Release 4.1
- Cisco IOS® Software releases 12.2(25)SV, 12.2(22)S2 for the Cisco ONS 15530 DWDM Multiservice Aggregation Platform
- Cisco IOS Software releases 12.2(25)SV, 12.2(22)S2 for the Cisco ONS 15540 ESP Extended Services Platform
- Cisco IOS Software releases 12.2(25)SV, 12.2(22)S2 for the Cisco ONS 15540 ESPx Extended Services Platform
- Cisco ONS 15600 releases 1.1.2, 1.1.3, 1.3.1, 5.0
- Cisco ONS 15600 SDH Release 1.4
- Cisco ONS 15800 Software releases 2.0, 2.1
- Cisco ONS 15801 Software releases 2.0, 2.1
- Cisco ONS 15808 Software releases 2.1, 2.2
- Cisco CRS-1 releases 2.0, 3.0

Reliability and Availability	High-availability options: <ul style="list-style-type: none">• Local• Geographically diverse
Platform	<ul style="list-style-type: none">• Sun Solaris 8 server• Oracle 9i database• Windows NT 4.0, Windows 2000, Windows XP, and Solaris 8 clients

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FOR MORE INFORMATION

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

**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.
168 Robinson Road
#28-01 Capital Tower
Singapore 068912
www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

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