



Cisco Transport Manager Release 4.6

Overview

Cisco[®] Transport Manager is an advanced element management system (EMS) that intelligently manages the entire Cisco ONS Family of products. 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 provides service providers and large enterprises with a resilient, adaptable, and integrated carrier-class EMS solution.

Value Proposition

Cisco Transport Manager provides comprehensive, carrier-class management capabilities, enabling network operators to efficiently manage their Cisco optical networks. Cisco Transport Manager increases network operations productivity and maximizes the revenue-generating capacity of the network. Total cost of ownership (TCO) is lowered by reducing operational and systems costs, potentially resulting in increased profitability.

Carrier-Class

Cisco Transport Manager meets the most stringent carrier-class requirements. Cisco Transport Manager is designed for continuous operation. High-availability deployment configurations are available to achieve an application availability of 99.999 percent. 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. Perhaps more importantly, 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.

Cisco Transport Manager can scale up to 2500 network elements and 100 concurrent clients per Cisco Transport Manager server. As such, Cisco Transport Manager is appropriate for managing large optical networks.

Unparalleled Productivity

Cisco Transport Manager is a powerful tool that increases the productivity of network operations staff. Cisco Transport Manager provides GUI-based point-and-click management of the network. Even though Cisco Transport Manager is easy to learn, it provides advanced management capabilities such as A-to-Z circuit provisioning. Explorer-style navigation, the extensive use of wizards, tool tips, legends, and online help make it easy for an operator to perform tasks quickly and efficiently. Many otherwise tedious, time-consuming, and error-prone tasks can be fully streamlined using Cisco Transport Manager's intuitive tools.



Low Cost of Ownership

Cisco Transport Manager is extremely 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.

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

A Foundation 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, but it also makes that information and its management available to higher-layer OSSs using open communications protocols. For example, the TeleManagement Forum (TMF)-compliant CORBA northbound interface of Cisco Transport Manager enables the implementation of next-generation inventory management, provisioning, flow-through circuit management, and service assurance.

Specifications for Cisco Transport Manager Release 4.6

Platform

- Sun Solaris 8 server
- Oracle 8i database
- Windows NT 4.0, Windows 2000, Windows XP, and Solaris 8 clients
- Up to 2500 network elements, 100 concurrent clients
- High-availability options—local, geographically diverse

GUI

- Domain Explorer for logical organization of network elements and Subnetwork Explorer for hierarchical organization of network elements
- Network Element Explorer for detailed configuration of network elements
- 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 auto screen lock and auto logout
- Comprehensive audit log tracks all user actions
- Enforced password complexity, password aging
- Custom profiles for access control of different user groups

Management Functional Areas

Configuration Management

- Native equipment/facility provisioning
- A-to-Z circuit provisioning
- Layer 2 provisioning
- Topology/link management
- Broadcast software download
- Automatic network element memory backup, on-demand restoration

Fault Management

- Real-time visual and audible alarm (optional continuous alarm) and event handling
- Current and historical alarms
- Alarm-aware displays, alarm browser and log, network maps, network element explorers, domain explorer, subnetwork explorer, and summary dashboard
- Enable and disable un-acknowledge alarm capability

Performance Management

- Configurable automatic collection of near-end/far-end, 15-min/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

Security Management

- Centralized management of network element user accounts
- Upload, storage, and viewing of network element audit logs

Northbound Interfaces

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

Network Element Releases Supported

- Cisco ONS 15200 Releases 1.1(2), 1.1(3)
- Cisco ONS 15216 100-GHz optical add/drop multiplexer (OADM) Release 2.2.2
- Cisco ONS 15216 erbium-doped fiber amplifier 2 (EDFA2) Releases 2.2, 2.3
- Cisco ONS 15216 200-GHz OADM, EDFA1, DWDM filters, optical supervisory channel (OSC), and dispersion compensation unit (DCU)
- Cisco ONS 15302 Release 1.0
- Cisco ONS 15305 Release 1.0
- Cisco ONS 15327 Releases 3.4.1, 3.4.2, 4.0, 4.0.1, 4.1, 4.1.2, 4.6
- Cisco ONS 15454 SONET Releases 3.0.3, 3.2.1, 3.3, 3.4.1, 3.4.2, 4.0, 4.0.1, 4.1, 4.1.1, 4.1.2, 4.6
- Cisco ONS 15454 SDH Releases 3.4.1, 3.4.2, 4.0, 4.0.1, 4.1, 4.1.2, 4.6
- Cisco ONS 15501 DC Releases 3.0, 4.0, 4.1
- Cisco ONS 15501 AC Release 4.1
- Cisco IOS® Software releases 12.1(12c)EV3 and 12.2(18)SV1 for the Cisco ONS 15530
- Cisco IOS® Software releases 12.1(12c)EV3 and 12.2(18)SV1 for the Cisco ONS 15540 ESP
- Cisco IOS® Software releases 12.1(12c)EV3 and 12.2(18)SV1 for the Cisco ONS 15540 ESPx
- Cisco ONS 15600 Releases 1.1, 1.1.1, 1.3
- Cisco ONS 15800 Releases 2.0, 2.1
- Cisco ONS 15801 Releases 2.0, 2.1
- Cisco ONS 15808 Releases 2.0, 2.1, 2.2

For detailed system requirements, refer to the Cisco Transport Manager Release 4.6 Installation Guide at:

http://www.cisco.com/en/US/products/sw/opticsw/ps2204/prod_installation_guides_list.html



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