



Cisco Catalyst Switch Manager v3.0

A Cisco Element Management System for high-productivity Network Operations

The Cisco Internet OSS Element Management System (EMS) product line provides device-specific fault, configuration, accounting, performance, and security (FCAPS) capability in the Cisco Internet OSS. The Cisco EMS product line comprises a range of element managers based on a highly scalable, tested, and field-validated common infrastructure, which is designed to support carrier-class element managers across Cisco Systems service provider product lines. This flexible, modular model allows service providers to install the mix of element managers they need to support their dynamic businesses. It also enables cost-effective and rapid deployment of new element managers, permitting service providers to more rapidly introduce and manage new services. Cisco EMSs provide common interfaces and element management services to applications in the network and service management levels of the Cisco Internet OSS, as well as existing service provider Operations Support System (OSS) components.

The Cisco Catalyst[®] Switch Manager is a graphical user interface (GUI)-based, carrier-class EMS for managing the Cisco Catalyst 6500 and 6000, 4000 and 4500, 3550, and 2950 switches. This Cisco EMS provides a range of GUI features designed to increase network operations productivity. With real-time inventory discovery capabilities, this EMS ensures quicker deployment of Cisco networking equipment and provides comprehensive element service assurance to more quickly solve network problems.

Cisco Catalyst Switch Manager runs on Sun Microsystems UltraSPARC servers with the Solaris 8 operating environment installed.

Table 1 lists the features and benefits of the Cisco Catalyst Switch Manager.



Table 1 Features and Benefits of Cisco Catalyst Switch Manager

| Feature or function | Benefit or application |
|--|--|
| <p>Fault management</p> <ul style="list-style-type: none"> • Supports fault detection, logging and display, troubleshooting, and repair | <ul style="list-style-type: none"> • Enables fast detection, troubleshooting, and repair, ensuring higher service availability, maximum revenue, and customer satisfaction |
| <p>Inventory management</p> <ul style="list-style-type: none"> • Automatically discovers—and updates in real time—the elements in a network, as well as how each network element is configured in terms of field-replaceable units (for example, interface cards, power supplies, etc.) and installed software release • Maintained inventory also includes logical inventory (for example, ATM connections and IP addresses) • Inventory management function operates in real time and caters to online insertion and removal | <ul style="list-style-type: none"> • Ensures maximum use of the network to help maximize revenue |
| <p>Provisioning and service activation</p> <ul style="list-style-type: none"> • Includes provisioning of the following: QoS, EtherChannel, VLAN, VTP, STP, Routing Protocols (BGP, IS-IS, EIGRP, OSPF), SLB, MPLS, 802.1Q Tunneling (QinQ), Interfaces, POS, SRP • Uses service profiles for a more scalable and reliable service activation • Synchronizes services with the network elements • Offers flow-through provisioning by using the Common Object Request Broker Architecture (CORBA) interface | <ul style="list-style-type: none"> • Provides better service to the customer and maximum revenue to the provider |
| <p>Thresholder</p> <ul style="list-style-type: none"> • Supports proactive checking for network capacity breaches • Collects performance management data per interface as well as per ATM connection | <ul style="list-style-type: none"> • Offers a powerful troubleshooting feature, useful for service-level agreement (SLA) supervision |
| <p>Network element administration</p> <ul style="list-style-type: none"> • Includes Cisco IOS® Software image upgrade, configuration backup and restore, and management of Cisco IOS passwords | <ul style="list-style-type: none"> • Reduces reliance on command-line interface (CLI) • Enables less skilled personnel to manage the network • Reduces operator training costs |
| <p>Security</p> <ul style="list-style-type: none"> • Assigns each user privileges according to which group(s) the user belongs and the roles assigned to the(se) group(s); for example, to restrict lower skilled staff to fault management operations only | <ul style="list-style-type: none"> • Enables the network operations center (NOC) manager to confidently permit less experienced personnel access to the management system, reducing cost of NOC operations • Access security features reduce margin for error and prevent malicious access • Increases reliability of service |
| <p>Multiple users</p> <ul style="list-style-type: none"> • Supports up to 50 simultaneous users | <ul style="list-style-type: none"> • Supports multiuser, multisite NOC operations |



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|--|---|
| <i>Disaster recovery support</i> <ul style="list-style-type: none">• Supports network elements and EMSs, including “online” EMS database backup and restore | <ul style="list-style-type: none">• Reduces network downtime to increase reliability of service• Ensures that your EMS is continually available for provisioning and finding faults, even when backup and restore is in progress |
| <i>OSS integration interfaces</i> <ul style="list-style-type: none">• Based on industry standards, including CORBA, Simple Network Management Protocol (SNMP), and File Transfer Protocol (FTP/ASCII) | <ul style="list-style-type: none">• Enables integration into the service provider’s OSS, and facilitates management using a single application• Reduces training and provides benefits of EMS to an integrated OSS |

For Further Information

For more information about the Cisco Catalyst Switch Manager and the Cisco Catalyst Series of switches, go to:

<http://www.cisco.com/en/US/products/hw/switches/index.html>

For more information about Cisco element managers and the Cisco Internet OSS, go to:

<http://www.cisco.com/go/oss>

A Cisco EMS free-trial version (30 days) is available by ordering part number EMS-CCSM-KIT-3.0-D from Cisco.com.



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