

Cisco Security Manager 3.2

Cisco Security Manager Overview

Cisco® Security Manager is an enterprise-class management application designed to configure firewall, VPN, and intrusion prevention (IPS) security services on Cisco network and security devices. Cisco Security Manager can be used in networks of all sizes—from small networks to large networks consisting of thousands of devices—by using policy-based management techniques. Cisco Security Manager works in conjunction with the Cisco Security Monitoring, Analysis, and Response System (MARS). Used together, these two products provide a comprehensive security management solution that addresses configuration management, security monitoring, analysis, and mitigation.

Cisco Self Defending Network

The Cisco Self-Defending Network is an architectural solution designed for the evolving security landscape. Security is integrated everywhere and with the help of a lifecycle services approach, enterprises can design, implement, operate, and optimize network platforms that defend critical business processes against attack and disruption, protect privacy, and support policy and regulatory compliance controls. Using the network as the platform keeps people and IT assets safe, makes the organization more resilient and reliable, and enables maximum business impact from IT investment. Cisco Security Manager is a vital piece of the Cisco Self-Defending Network, which enables business initiatives to actively and collaboratively to control known and unknown threats while enforcing closed-loop security policies on all managed Cisco security devices.

Collaborative Threat Identification and Mitigation

In collaboration with Cisco Security MARS, Cisco Security Manager provides network threat mitigation. Together, Cisco Security Manager and Cisco Security MARS provide access to network and security status while maintaining visibility into configured firewall, VPN, and IPS policies.

Single Integrated Security Solution

Cisco Security Manager is an integrated application that manages security across Cisco security appliances, routers, and switches. The broad range of functions can be precisely controlled for specific users through the use of Cisco Security Manager's role-based access control (RBAC) mechanisms. RBAC and Cisco Security Manager's optional workflow feature allow both traditional security operations and network operations teams to use Cisco Security Manager within their respective roles.

Increase Security Efficiency and Flexibility

Cisco Security Manager efficiently manages networks that range from a few devices to thousands of devices. Flexibility is achieved through powerful policy-based management techniques, enabling an efficient “configure-once, deploy-to-many” paradigm. When a setting is changed, Cisco Security Manager automatically applies the change to all affected network devices. The firewall, VPN, and IPS policies are platform-neutral, and can be applied across different device platforms such as Cisco routers, security appliances, or services modules. Cisco Security Manager also provides

flexible device-level overrides, which allows policy reuse and sharing while retaining the ability to customize device-specific settings as necessary.

Superior Control and Visibility

Cisco Security Manager provides superior day-to-day security management control and visibility into firewall rule analysis and optimization, VPN configuration, and IPS signature management. Cisco Security Manager and Cisco Security MARS provide real-time views into the security policy events with immediate insight and control of policy settings. This control encourages tighter collaboration between network operations and security operations groups while enabling immediate event verification of newly update policies. Policy event correlation between Cisco Security Manager and Cisco Security MARS enables greater visibility into incident investigation and ultimately speeds resolution time for threat mitigation.

Figures 1–4 show some of the collaboration mechanisms between Cisco Security Manager and Cisco Security MARS.

Figure 1. Cisco Security Manager IPS Policy to Cisco Security MARS Event Collaboration

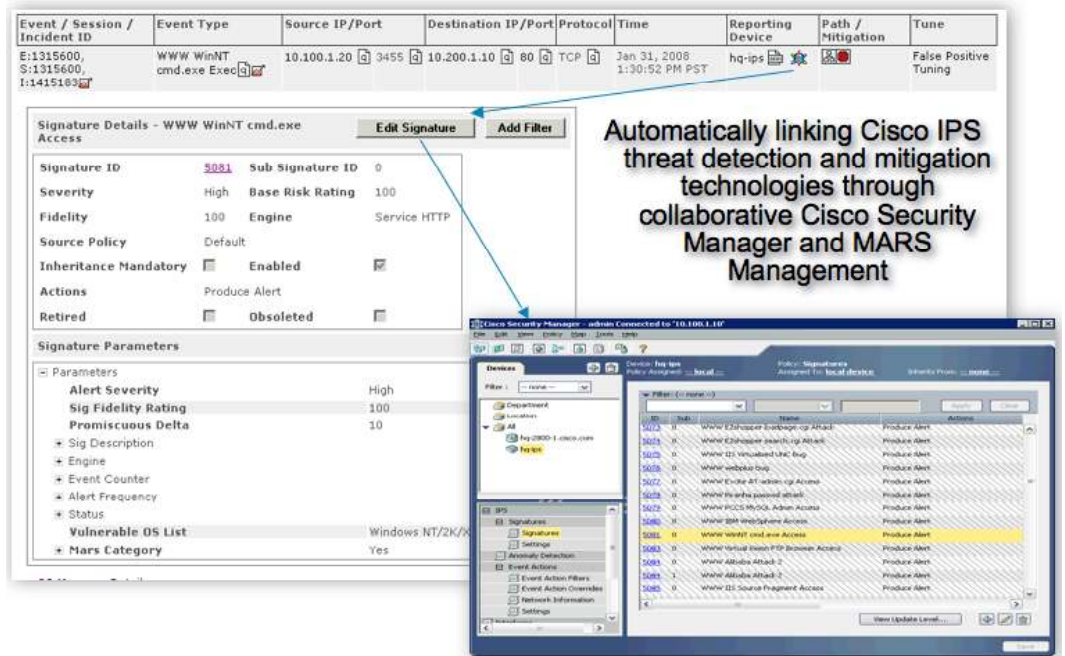


Figure 2. Cisco Security Manager ACL Policy to Cisco Security MARS Log Collaboration

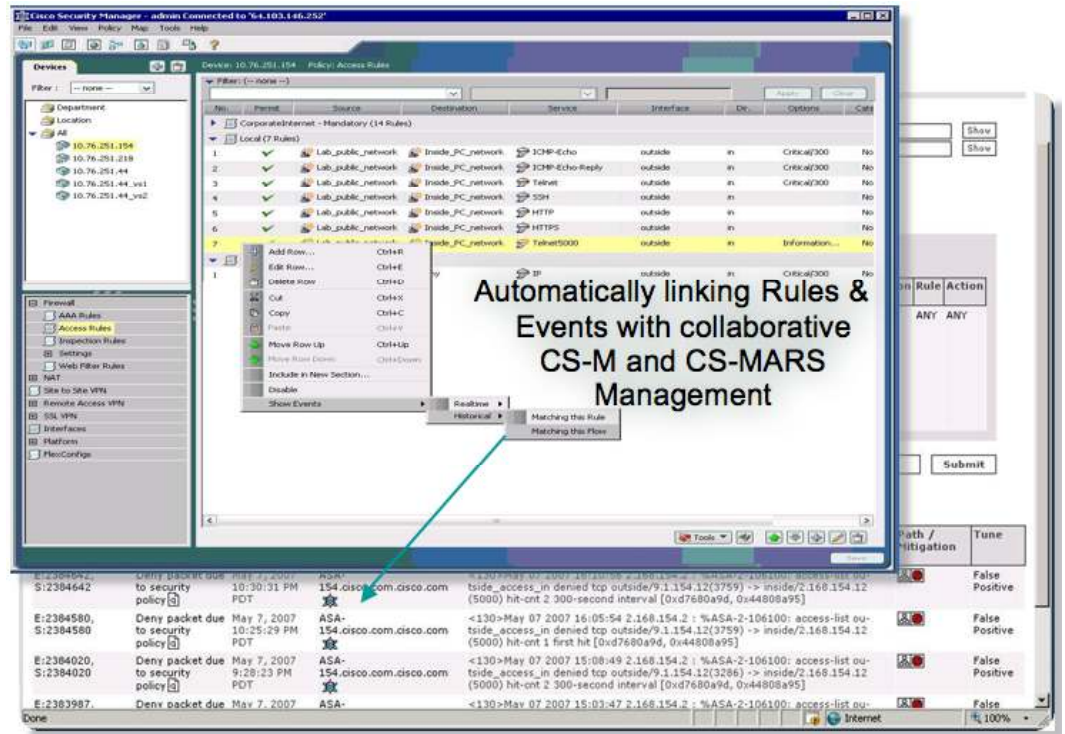


Figure 3. Cisco Security MARS IPS Event to Cisco Security Manager Policy Collaboration

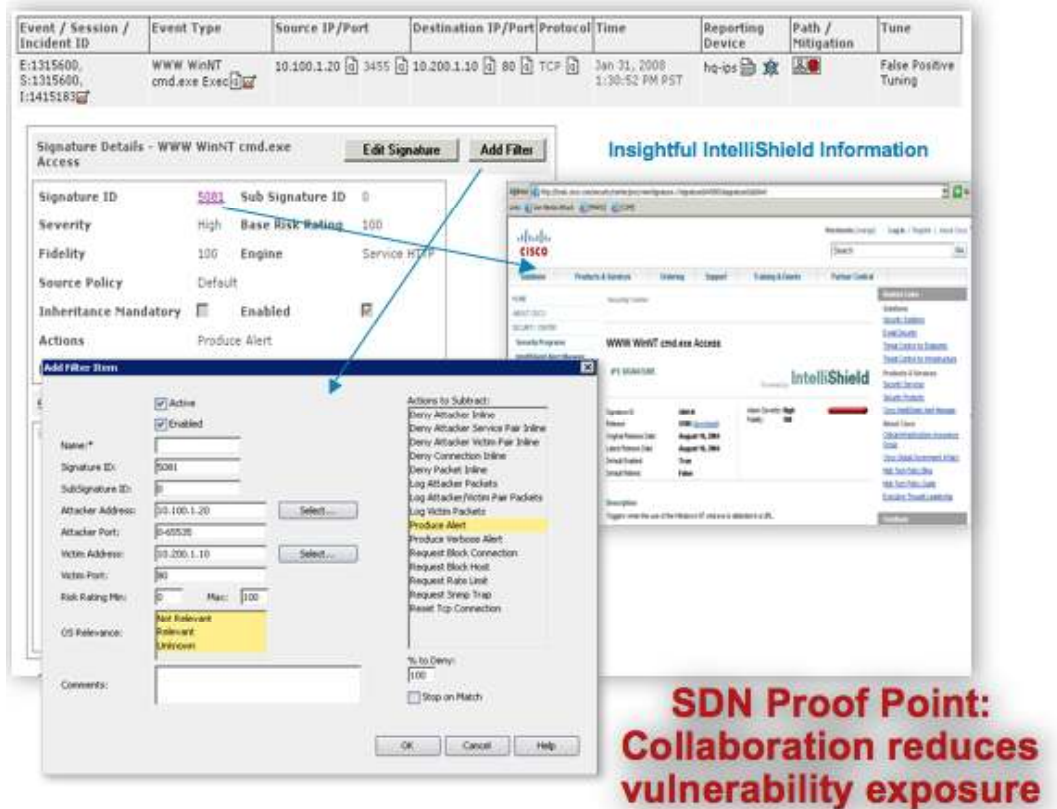


Figure 4. Cisco Security MARS Firewall Log to Cisco Security Manager Policy Collaboration

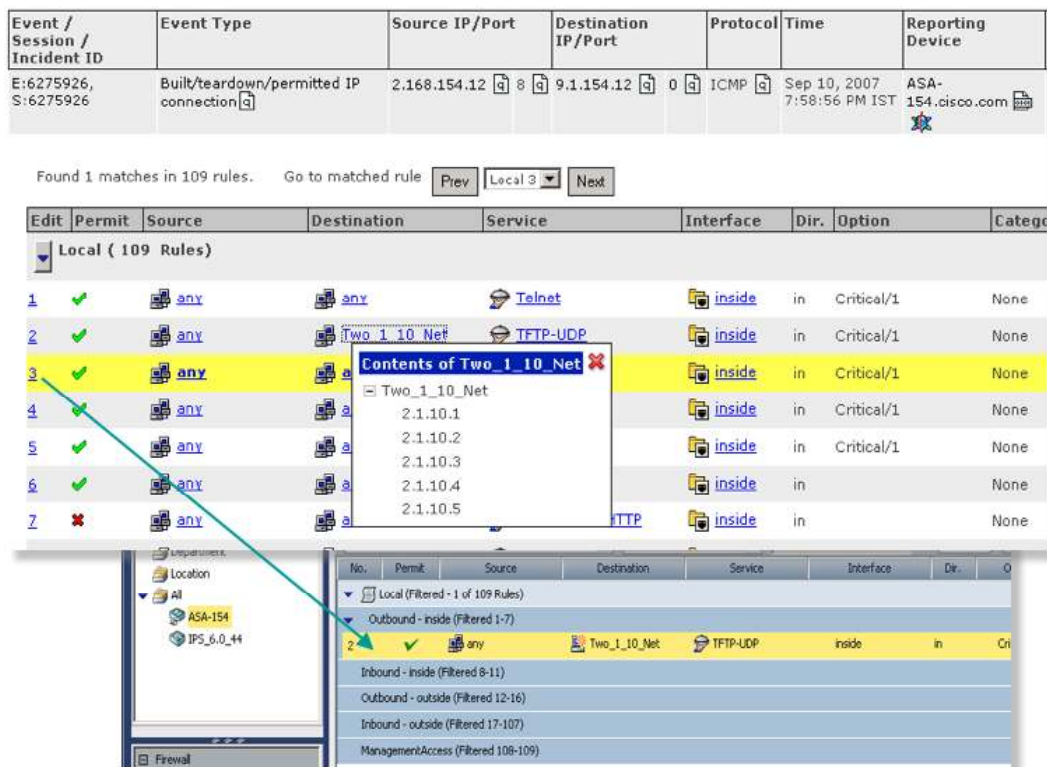


Table 1 provides a list of features and benefits of Cisco Security Manager 3.2.

Table 1. Cisco Security Manager 3.2 Features and Benefits

Feature	Benefit
VPN Configuration	<p>A VPN wizard provides easy configuration of site-to-site, hub-and-spoke, full-mesh, and extranet VPNs.</p> <ul style="list-style-type: none"> • Cisco Security Manager supports Dynamic Multipoint VPN (DMVPN) and generic routing encapsulation (GRE) IP Security (IPsec), both with dynamic IP and hierarchical certificates. • VPN and Easy VPN services can be configured remotely. • The support of secure device provisioning enables zero-touch deployment. • Configurations for automatic failover and load-balancing for headends are supported. • Support for SSL VPN on the ASA 5500 Series
Firewall Configuration	<p>Cisco Security Manager enables administrators to configure policies for Cisco ASA 5500 Series appliances, Cisco PIX appliances, Cisco Catalyst 6500 Series firewall services modules, and Cisco integrated services router platforms running a Cisco IOS Software security image.</p> <ul style="list-style-type: none"> • The software provides a single rule table for all platforms. Customers benefit from being able to manage these devices through one solution. • The rule analysis feature reports firewall rules that overlap or conflict with other rules. • The object grouping feature dramatically compresses the number of access rules required to implement a particular security policy. Object grouping uses an algorithm to group objects of a similar type so that a single access rule can apply to all objects in the group. • The software helps identify and delete rules that have no effect on the network. • The ACL hit count feature checks to ensure traffic is flowing correctly. • The policy query feature displays which rules match a specific source, destination, and service flow, including wildcards. • To ease configuration, device information can be imported from a device repository, imported from a configuration file, or added in the software. Additionally, firewall policies can be discovered from the device itself. • Interface roles allow a user to apply a rule policy on groups of interfaces in a scalable manner.

Feature	Benefit
IPS Configuration	<p>Cisco Security Manager enables administrators to easily and effectively manage IPS solution-based configuration and update policies for Cisco IPS 4200 Series sensors, the Cisco ASA Advanced Inspection and Prevention Security Services Module (AIP-SSM), the Cisco Catalyst 6500 Series Intrusion Detection System Services Module 2 (IDSM-2), the Cisco IDS Network Module, the Cisco IPS AIM, and Cisco IOS IPS.</p> <ul style="list-style-type: none"> • Cisco IPS Sensor Software Versions 5.1, 6.0, and 6.1: The Cisco IPS solution combines an inline, intrusion prevention service with innovative technologies that improve accuracy. Cisco IPS Sensor Software accurately identifies, classifies, and stops malicious traffic, including worms, spyware and adware, network viruses, and application abuse, before they affect business continuity. • Cisco IOS IPS is an inline, deep-packet-inspection-based feature that enables Cisco IOS Software to effectively mitigate a wide range of network attacks. As a core facet of the Self-Defending Network, Cisco IOS IPS enables the network to defend itself with the intelligence to accurately identify, classify, and stop or block malicious or damaging traffic in real time. • Insight into Cisco IPS signature updates allows for incremental provisioning of new and updated signatures, as well as insight into IntelliShield before deploying to your enterprise. This allows for immediate insight into the Cisco IPS Security Research Team's recommended defaults, and allows customers to tune to their environment before distributing the signature update. • The Cisco IPS Update Wizard allows efficient automatic IPS updates, scheduling, and distribution of policies with status and details notification. • Cross-collaboration with Cisco Security MARS enables event/anomaly investigation with immediate insight into policy deployment changes. This collaboration enables policy launching of historic and real-time events, encouraging tighter collaboration between network operations and security operations teams while keeping Cisco Security Manager policies in band. Insight and cross-collaboration decreases event investigation and troubleshooting, thus speeding resolution time. Cisco Security Manager and Cisco Security MARS collaboration enables interactive IPS event action filter creation, thus reducing your network's vulnerability exposure. • IPS signature policies and event action filters can be inheritable and assignable to any device. All other IPS policies can be assignable and shared with other IPS devices. IPS management also includes policy rollback, a configuration archive, and cloning or creation of signatures. Copying policies between devices allows for effective management and reduces TCO by reducing deployment efforts. • IPS update administration and IPS subscription licensing updates streamline the distribution and allow users to manage IPS software, signature updates, and licensing based on local and shared policies.
Integrated Security Services Management	Cisco Security Manager enables the management of integrated security services, including quality of service (QoS) for VPN, routing, Network Admission Control (NAC), and more.
Flexible Device Grouping Options	Users can create and define device groups based on business function or location to accurately represent their organizational structure. All devices in a group can be managed as easily as a single device.
Multiple Application Views	Cisco Security Manager provides multiple views into the application to support different use cases and experience levels. The device-centric view is useful for novice users or those more familiar with using single device managers. The map-centric view helps in visualizing the topologies of VPNs or containment relationships between Cisco Catalyst 6500 Series services modules and security contexts. The policy-centric view enables highly efficient and scalable multidevice management.
Policy Object Manager	Reusable objects can be created (for example, to represent network addresses, services, device settings, time ranges, or VPN parameters). Objects can be defined once and used any number of times to avoid manually entering values.
Deployment Manager with Flexible Deployment Options	Cisco Security Manager supports both on-demand and scheduled deployments to a device or to files.
Rollback	Cisco Security Manager provides the ability to roll back to a previous configuration, if required.
Role-Based Access Control	With Cisco Security Manager, access rights can be defined for multiple administrators, with appropriate controls. Cisco Security Manager is delivered with five user roles; additional roles are available with the optional Cisco Secure Access Control Server (ACS).
Workflow	Cisco Security Manager optionally allows assigning specific tasks to each administrator during the deployment of a policy, with formal change control and tracking. The workflow helps improve staff collaboration (for example, between network and security operations).
Distributed Deployment Methodologies (Auto Update Server, Cisco Network Services Configuration Engine)	Cisco Security Manager simplifies updates to large numbers of remote firewalls, which may have dynamic addresses or Network Address Translation (NAT) addresses. This is a valuable feature for customers that have remote locations with intermittent networks links and minimal technical staff at the remote site.
Operational Management	The included companion application, Resource Manager Essentials (RME), helps with operational functions such as software distribution or device inventory reporting.
Health and Performance Monitoring	The included companion application, Performance Monitor, provides health and performance monitoring data for Cisco VPN network devices and specific security services.

Table 2 lists the server requirements for Cisco Security Manager. Table 3 provides the client requirements.

Table 2. Server Requirements and Technical Specifications

Component	Requirement
System Hardware	<ul style="list-style-type: none"> • Minimum: One CPU \geq 2GHz; Recommended: Two CPUs \geq 2 GHz or One dual-core CPU \geq 2 GHz • Color monitor with at least 1280x1024 resolution and a video card capable of 16-bit colors • DVD-ROM drive • 100BASE-T (100 Mbps) or faster network connection; single interface only • Keyboard • Mouse
File System	NTFS
Memory (RAM)	Minimum: 2 GB; Recommended: 4 GB.
System Software	<p>One of the following:</p> <ul style="list-style-type: none"> • Microsoft Windows 2003 Server editions: <ul style="list-style-type: none"> ◦ Enterprise Edition with SP1 or SP2 ◦ Standard Edition with SP1 or SP2 ◦ R2 Enterprise Edition with SP1 or SP2 ◦ R2 Standard Edition with SP1 or SP2 <p>Note: Cisco Security Manager supports only the U.S. English and Japanese versions of Windows.</p> <p>Microsoft ODBC Driver Manager 3.510 or later is also required, so your server can work with Sybase database files.</p>
Browser	<p>One of the following:</p> <ul style="list-style-type: none"> • Microsoft Internet Explorer 6.0 SP2 • Microsoft Internet Explorer 7.0 • Firefox 2.0
Compression Software	WinZip 9.0 or compatible
Hard Drive Space	20 GB
IP Address	<p>At least one static IP address</p> <p>If the server has more than one IP address, disable all but one address. The Cisco Security Manager installer displays a warning if it detects any dynamic IP addresses on the target server. Dynamic addresses are not supported.</p>
Optional Virtualization Software	VMware ESX Server 3.5

Table 3. Client Requirements and Technical Specifications

Component	Requirement
System Hardware	<ul style="list-style-type: none"> • One CPU \geq 2 GHz. • Color monitor with at least 1280x1024 resolution and a video card capable of 16-bit colors • Keyboard • Mouse
Memory (RAM)	Minimum: 1 GB; Recommended: 2 GB
Virtual Memory/Swap Space	512 MB
Hard Drive Space	10 GB

Component	Requirement
Operating System	<p>One of the following:</p> <ul style="list-style-type: none"> • Microsoft Windows Vista Business Edition or Enterprise Edition with SP1 • Microsoft Windows XP Professional with SP1 or SP2 or SP3 • Microsoft Windows 2003 Server editions: <ul style="list-style-type: none"> ◦ Enterprise Edition with SP1 or SP2 ◦ Standard Edition with SP1 or SP2 ◦ R2 Enterprise Edition with SP1 or SP2 ◦ R2 Standard Edition with SP1 or SP2 <p>Note: The Cisco Security Manager Client supports only the U.S. English and Japanese versions of Windows. It does not support any other language version.</p>
Browser	<p>One of the following:</p> <ul style="list-style-type: none"> • Microsoft Internet Explorer 6.0 SP2 • Microsoft Internet Explorer 7.0 • Firefox 2.0
Java	<p>The Cisco Security Manager Client includes an embedded and completely isolated version of Java. This Java version does not interfere with your browser settings or with other Java-based applications.</p> <p>If you try to open Cisco Security Manager but do not have the required version of Java, your Cisco Security Manager server will display a message that tells you how to download and install the required Java version.</p>

For more information on Cisco Security Manager hardware and software requirements, refer to the Cisco Security Manager Installation Guide at <http://www.cisco.com/go/csmanager>.

Table 4 summarizes the device product families supported by Cisco Security Manager. For a detailed list, including supported device software versions, refer to the document entitled “Supported Devices and OS Versions for Cisco Security Manager 3.2.” This document is available at http://www.cisco.com/en/US/products/ps6498/products_device_support_tables_list.html.

Table 4. Overview of Cisco Devices Supported by Cisco Security Manager

Supported Devices
Cisco PIX Security Appliances
Cisco ASA 5500 Series Adaptive Security Appliances
Cisco Integrated Services Routers
Cisco 7600 Series Routers
Cisco 7500 Series Routers
Cisco 7300 Series Routers
Cisco 7200 Series Routers
Cisco 7100 Series Routers
Cisco 3200 Series Routers
Cisco 2600 Series Routers
Cisco Catalyst 6500 Series Firewall Services Modules (FWSMs)
Cisco Catalyst 6500 Series VPN Services Modules (VPNSMs)
Cisco 7600 Series/Catalyst 6500 Series IPsec VPN Shared Port Adapters (VPNSPAs)
Cisco Catalyst 6500 Series IDSM-2
Cisco IPS 4200 Series Sensors
Cisco AIP-SSM for Cisco ASA 5500 Series Adaptive Security Appliances
Cisco IPS AIM for Integrated Services Routers
Cisco IPS Module for Access Routers (NM-CIDS)
Cisco Catalyst 3550, 3560, 3560E, 3750, 3750 Metro, 4500, 4948, and 4948 10GE Desktop Switches

For a list of devices supported by the optional CiscoWorks RME 4.1.1, view the Supported Devices Tables for LMS 3.0 available at

http://www.cisco.com/en/US/products/sw/cscowork/ps2073/products_device_support_tables_list.html.

Ordering Information

The Cisco Security Manager product bulletin describes the licensing options and ordering details. The bulletin is published at <http://www.cisco.com/go/csmanager>.

Cisco Services

Cisco takes a lifecycle approach to services, and with its partners, provides a broad portfolio of security services so enterprises can design, implement, operate, and optimize network platforms that defend critical business processes against attack and disruption, protect privacy, and support policy and regulatory compliance controls.

Cisco services help you protect your network investment, optimize network operations, and prepare your network for new applications to extend network intelligence and the power of your business. For more information about Cisco services, visit

http://www.cisco.com/en/US/products/svcs/ps2961/ps2952/serv_group_home.html.

- **Cisco Security Optimization Service** helps integrate security into the core network infrastructure. The network infrastructure is the foundation of the agile and adaptive business. The Cisco Security Optimization Service supports the continuously evolving security system to meet ever-changing security threats through a combination of planning and assessments, design, performance tuning, and ongoing support for system changes.
- **The Cisco Security Center** provides a single location for early warning threat intelligence threat and vulnerability analysis, Cisco IPS signatures and mitigation techniques. Visit and bookmark the Cisco Security Center at <http://www.cisco.com/security>.
- **Cisco Security Intellishield Alert Manager Service** provides a customizable, Web-based threat and vulnerability alert service that allows organizations to easily access timely, accurate, and credible information about potential vulnerabilities in their environment.

Cisco Security Manager software is eligible for technical support service coverage under Cisco Software Application Support (SAS). Cisco SAS service agreement features include:

- Unlimited access to the Cisco Technical Assistance Center (TAC) for award-winning support. Technical assistance is provided by Cisco software application experts who are trained in Cisco security software applications. Support is available 24 hours per day, 7 days per week, 365 days per year worldwide.
- Registered access to Cisco.com, a robust repository of application tools and technical documents to assist in diagnosing network security problems, understanding new technologies, and staying current with innovative software enhancements. Utilities, white papers, application design data sheets, configuration documents, and case management tools help expand your in-house technical capabilities.
- Access to application software bug fixes and maintenance and minor software releases.

For More Information

For more information about Cisco Security Manager 3.2, visit <http://www.cisco.com/go/csmanager>, or contact your account manager or a Cisco Authorized Technology Provider. You may also send e-mail to ask-csmanager@cisco.com.

For more information about Cisco Security MARS, visit <http://www.cisco.com/go/mars>.



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