

Cisco Web Security Appliance



In our highly connected and increasingly mobile world, more complex and sophisticated threats require the right mix of security solutions. Cisco delivers security for all layers of network infrastructure with the strong protection, complete control, and investment value businesses need. We also offer the broadest set of web security deployment options in the industry, along with market-leading global threat intelligence. The Cisco[®] Web Security Appliance (WSA) simplifies security with a high-performance, dedicated appliance and the Cisco Web Security Virtual Appliance (WSAV) lets businesses deploy web security quickly and easily, wherever and whenever it's needed.

Overview

The Cisco WSA is the first secure web gateway to combine leading protections to help organizations address the growing challenges of securing and controlling web traffic. You get advanced malware protection, application visibility and control, acceptable use policy controls, insightful reporting, and secure mobility all on a single platform.

The Cisco WSA enables simpler, faster deployment with fewer maintenance requirements, reduced latency, and lower operating costs. "Set and forget" technology frees up staff once initial automated policy settings go live and automatic security updates are pushed to network devices every three to five minutes. Flexible deployment options and integration with your existing security infrastructure help you meet quickly evolving security requirements.

Virtual Appliance

With the growth of video and other rich media, traffic has become less predictable, resulting in overages and degraded performance. Addressing these and other issues, administrators face long lead times when buying and installing hardware, remote installation challenges, customs duties, and other logistical issues, especially in multinational organizations.

The Cisco WSAV significantly lowers the cost of deploying web security, especially in highly distributed networks, by letting administrators create security instances where and when they are needed. The Cisco WSAV is a software version of the Cisco WSA that runs on top of a VMware ESXi hypervisor and Cisco Unified Computing System™ (UCS®) servers. Customers receive an unlimited license for the Cisco WSAV with the purchase of any Cisco web security software bundle.

With the Cisco WSAV, administrators can respond instantly to traffic spikes and eliminate capacity planning. There is no need to buy and ship appliances; new business opportunities can be supported without adding complexity to a data center or requiring additional staff.

Features and Benefits

Talos Security Intelligence	<p>Receive fast and comprehensive web protection backed by the largest threat detection network in the world, with the broadest visibility and largest footprint, including:</p> <ul style="list-style-type: none"> • 100 TB of security intelligence daily • 1.6 million deployed security devices, including firewall, IPS, web, and email appliances • 150 million endpoints • 13 billion web requests per day • 35% of the world's enterprise email traffic <p>Cisco SIO and Sourcefire VRT are two separate Threat Detection services in the cloud that are merging into Talos, providing a 24x7 view into global traffic activity to analyze anomalies, uncover new threats, and monitor traffic trends. Talos prevents zero-hour attacks by continually generating new rules that feed updates to the WSA every three to five minutes, providing industry-leading threat defense hours and even days ahead of competitors.</p>
Cisco Web Usage Controls	<p>Combine traditional URL filtering with dynamic content analysis to mitigate compliance, liability, and productivity risks. Cisco's continuously updated URL filtering database of over 50 million blocked sites provides exceptional coverage for known websites, and the Dynamic Content Analysis (DCA) engine accurately identifies 90 percent of unknown URLs in real time; it scans text, scores the text for relevancy, calculates model document proximity and returns the closest category match. Administrators can also select specific categories for intelligent HTTPS inspection.</p>
Advanced Malware Protection	<p>Advanced Malware Protection (AMP) is an additionally licensed feature available to all Cisco WSA customers. AMP is a comprehensive malware-defeating solution that enables malware detection and blocking, continuous analysis, and retrospective alerting. It takes advantage of the vast cloud security intelligence networks of both Cisco and Sourcefire (now part of Cisco). AMP augments the malware detection and blocking capabilities already offered in the Cisco WSA with enhanced file reputation capabilities, detailed file-behavior reporting, continuous file analysis, and retrospective verdict alerting. New: Customers now have the ability to sandbox PDF and Microsoft Office files, in addition to EXE files supported in the first AMP release. The Layer 4 Traffic Monitor continuously scans activity, detecting and blocking spyware "phone-home" communications. By tracking all network applications, the Layer 4 Traffic Monitor effectively stops malware that attempts to bypass classic web security solutions. It dynamically adds IP addresses of known malware domains to its list of malicious entities to block.</p>
Application Visibility and Control (AVC)	<p>Easily control the use of hundreds of Web 2.0 applications and 150,000+ micro-applications. Granular policy control allows administrators to permit the use of applications such as Dropbox or Facebook while blocking users from activities such as uploading documents or clicking the "Like" button. The WSA supports visibility of activity across an entire network. New: Customers can deploy customized bandwidth and time quotas per user, per group, and per policy.</p>
Data Loss Prevention (DLP)	<p>Prevent confidential data from leaving the network by creating context-based rules for basic DLP. The Cisco WSA also uses Internet Content Adaptation Protocol (ICAP) to integrate with third-party DLP solutions for deep content inspection and enforcement of DLP policies.</p>
Roaming-User Protection	<p>The Cisco WSA protects roaming users by integrating with the Cisco AnyConnect Secure Mobility Client, which provides web security to remote clients by initiating a VPN tunnel that redirects traffic back to the on-premises solution. Cisco AnyConnect analyzes traffic in real time prior to permitting access. New: Cisco Identity Services Engine (ISE) Integration Preview Release. With this exciting enhancement, customers can now preview Cisco WSA integration with Cisco ISE. Cisco ISE integration allows admins to create policy on the Cisco WSA based on profile or membership info gathered by Cisco ISE.</p>

Centralized Management and Reporting	<p>Receive actionable insights across threats, data, and applications. The Cisco WSA provides an easy-to-use, centralized management tool to control operations, manage policies, and view reports.</p> <p>The Cisco M-Series Content Security Management Appliance provides central management and reporting across multiple appliances and multiple locations, including virtual instances. The Cisco WSA also enables a custom Splunk application with an interface that's similar to on-appliance reporting for scalability and flexibility.</p>
Flexible Deployment	<p>The Cisco WSAV offers all the same features as the Cisco WSA, with the added convenience and cost savings of a virtual deployment model, including instant self-service provisioning. With a Cisco WSAV license, businesses can deploy web security virtual gateways without being connected to the Internet, by applying the license to a new Cisco WSAV virtual image file stored locally. Pristine virtual image files can be cloned, if needed, to deploy several web security gateways immediately.</p> <p>Run hardware and virtual machines in the same deployment. Small branch offices or remote locations can have the same protection the Cisco WSA provides without having to install and support hardware at that location. Custom deployment is easily managed with the Cisco M-Series Content Security Management Appliance.</p>

Product Specifications

Table 1. Cisco WSA Performance Specifications

	Users*	Model	Disk Space	RAID Mirroring	Memory	CPUs
Large Enterprise	6000-12000	S680	4.8 TB (8x600 GB SAS)	Yes (RAID 10)	32 GB	16 (2 Octa Core) 2.70 Ghz
Midsize Office	1500-6000	S380	2.4 TB (4x600 GB SAS)	Yes (RAID 10)	16 GB	6 (1 Hexa Core) 2.00 Ghz
SMB & Branch	< 1500	S170	500 GB (2x250 GB SATA)	Yes (RAID 1)	4 GB	2 (1 Dual Core) 2.80 Ghz

* Please confirm sizing guidance with a Cisco content security specialist to help ensure your solution will meet your current and projected needs.

Table 2. Cisco WSA Hardware Specifications




	Cisco S680	Cisco S380	Cisco S170
Hardware Platform			
Form Factor	2U	2U	1U
Dimensions	3.5 x 19 x 29 in. (8.9 x 48.3 x 73.7 cm.)	3.5 x 19 x 29 in. (8.9 x 48.3 x 73.7 cm.)	1.64 x 19 x 15.25 in. (4.2 x 48.3 x 38.7 cm.)
Redundant P/S	Yes	Yes	No
Remote Power Cycle	Yes	Yes	No
DC Power Option	Yes	Yes	No
Hot-Swappable H/D	Yes	Yes	Yes
Fiber Option	Yes (Accessory)	No	No
Ethernet	4 Gigabit NICs, RJ-45	4 Gigabit NICs, RJ-45	2 Gigabit NICs, RJ-45
Speed (mbps)	10/100/1000, auto-negotiate	10/100/1000, auto-negotiate	10/100/1000, auto-negotiate

Table 3. Cisco WSAV



Web Users				
Web Users	Model	Disk	Memory	Cores
<1000	S000v	250 GB	4 GB	1
1000-2999	S100v	250 GB	6 GB	2
3000-6000	S300v	1024 GB	8 GB	4
Servers				
Cisco UCS		ESXi 4.0 X 5.0 Hypervisor		

Table 4. Cisco M-Series Content Security Management Appliance

Model	Cisco M680	Cisco M380	Cisco M170
Users (Approx.)	10,000+	Up to 10,000	Up to 1,000

Deployment

The Cisco WSA is a forward proxy that can be deployed in either Explicit mode (proxy automatic configuration [PAC] files, Web Proxy Auto-Discovery [WPAD], browser settings) or Transparent mode (Web Cache Communication Protocol [WCCP], policy-based routing [PBR], load balancers). WCCP-compatible devices, such as Cisco Catalyst® 6000 Series Switches, Cisco ASR 1000 Series Aggregation Services Routers, Cisco Integrated Services Routers, and Cisco ASA 5500-X Series Next-Generation Firewalls, reroute web traffic to the Cisco WSA.

The Cisco WSA can proxy HTTP, HTTPs, SOCKS, native FTP, and FTP over HTTP traffic to deliver additional capabilities such as data loss prevention, mobile user security, and advanced visibility and control.

Licensing

A Cisco WSAV license is included in all Cisco web security software bundles (Cisco Web Security Essentials, Cisco Web Security Antimalware, and Cisco Web Security Premium). This license has the same term as the other software services in the bundle and can be used for as many virtual machines as needed.

Term-Based Subscription Licenses

Licenses are term-based subscriptions of one, three, or five years.

Quantity-Based Subscription Licenses

The Cisco web security portfolio uses tiered pricing based on a range of users, not devices. Sales and partner representatives can help to determine the correct sizing for each customer deployment.

Web Security Software Licenses

Four web security software licenses are available: Cisco Web Security Essentials, Cisco Anti-Malware, Cisco Web Security Premium, and McAfee Anti-Malware. The major components of each software offering are provided below:

Cisco Web Security Essentials

- Threat Intelligence via Cisco Talos
- Layer 4 traffic monitoring
- Application Visibility and Control (AVC)
- Policy management

- Actionable reporting
- URL filtering
- Third-party DLP integration via ICAP

Cisco Anti-Malware

- Real-time malware scanning

Cisco Web Security Premium

- Web Security Essentials
- Real-time malware scanning

McAfee Anti-Malware

- McAfee real-time malware scanning available as a single, a la carte license

Software License Agreements

The Cisco End-User License Agreement (EULA) and the Cisco Web Security Supplemental End-User License Agreement (SEULA) are provided with each software license purchase.

Software Subscription Support

All Cisco web security licenses include software subscription support essential to keeping business-critical applications available, secure, and operating at peak performance. This support entitles customers to the services listed below for the full term of the purchased software subscription:

- Software updates and major upgrades to keep applications performing optimally at the most current feature set
- Access to Cisco Technical Assistance Center (TAC) for fast, specialized support
- Online tools to build and expand in-house expertise and boost business agility
- Collaborative learning for additional knowledge and training opportunities

Services

Cisco Branded Services	<p>Cisco Security Planning and Design: Enables deployment of a robust security solution quickly and cost effectively.</p> <p>Cisco Web Security Configuration and Installation: Mitigates web security risks by installing, configuring, and testing appliances to implement:</p> <ul style="list-style-type: none"> • Acceptable-use-policy controls • Reputation and malware filtering • Data security • Application visibility and control <p>Cisco Security Optimization Service: Supports an evolving security system to address security threats, design updates, performance tuning, and system changes.</p>
Collaborative/Partner Services	<p>Network Device Security Assessment: Helps maintain a hardened network environment by identifying gaps in network infrastructure security.</p> <p>Smart Care: Provides actionable intelligence gained from secure visibility into a network's performance.</p> <p>Additional services: Cisco partners provide a wide range of valuable services across the planning, design, implementation, and optimization lifecycle.</p>
Cisco Financing	<p>Cisco Capital® can tailor financing solutions to business needs. Access Cisco technology sooner and see the business benefits sooner.</p>

SMARTnet[®] Support Services

Customers have the option to purchase Cisco SMARTnet for use with Cisco WSAs. Cisco SMARTnet helps customers resolve network problems quickly with direct, anytime access to Cisco experts, self-help support tools, and rapid hardware replacement. For more information, visit <http://www.cisco.com/go/smartnet>.

Ordering Cisco WSAV

1. Go to <http://www.cisco.com/go/wsa>. At right, under “Support,” click on “Software Downloads, Release, and General Information.” Click on “Download Software,” then click on any model to see the downloadable virtual machine images available. You will also see a downloadable XML evaluation license. You will need to download one of the images and the XML evaluation license.
2. Download the following documentation from Cisco.com:
 - a. Cisco Security Virtual Appliance Installation Guide
 - b. Documentation for AsyncOS[®] 7.7.5
3. Follow the instructions in the Cisco Security Virtual Appliance Installation Guide to get started. Please note that content security virtual appliance evaluations are not covered under SMARTnet and are therefore unsupported.

Warranty Information

Find warranty information on Cisco.com at the [Product Warranties](#) page.

For More Information

Find out more at <http://www.cisco.com/go/wsa>. Evaluate how the Cisco WSA will work for you with a Cisco sales representative, channel partner, or systems engineer.



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