

Cisco Cloud Web Security

Cisco® Cloud Web Security is a different, more comprehensive, cloud-delivered web defense solution. It provides industry-leading, real-time protection and thorough enforcement of web-usage policies.

Product Overview

Hacking has become a recognized industry, supporting sophisticated and well-funded criminal enterprises. Attacks are also evolving continually, becoming more damaging and harder to detect. Traditional web security methods can block known threats but are not able to adapt to the changing threat landscape. And they can't handle advanced malware.

Perimeter defenses don't address how your users access information and resources. Now it isn't just people outside your organization who are of concern; your own users may consume excess bandwidth or access inappropriate content that can put your organization at risk. Their personal devices may introduce malware from inside the firewall.

Built on an industry-leading global threat-visibility network, Cloud Web Security offers highly effective protection against advanced and targeted threats. It continuously monitors both network and file behavior. It identifies threats operating in the environment with Cisco Advanced Malware Protection (AMP) and Cognitive Threat Analytics.

Cloud Web Security controls web usage and blocks sites based on signature, reputation, and content analysis. It also delivers best-in-class malware scanning through outbreak intelligence, a heuristics-based engine that analyzes each webpage component in real time to block threats.

Cisco AMP protects against advanced malware threats, using file retrospection to track a file's disposition over time. Cognitive Threat Analytics continuously scans for symptoms of a breach, reducing the time to discover threats that bypass perimeter defenses.

As a cloud service, Cloud Web Security delivers superior flexibility. You can easily deploy and scale the service with multiple connection options while using the existing infrastructure. A single management interface provides global control, providing enforcement of detailed web-usage policies across an entire organization no matter where users are located or on what device. Through the Cisco AnyConnect® Secure Mobility Client, Cloud Web Security extends its strong protection to roaming laptop users and enforces the same on-premises policies.

Our advanced global threat visibility network continually updates Cloud Web Security against the latest threats, and the most actionable cloud-delivered intelligence reporting helps ensure superior visibility into web usage. Top-tier data center facilities in 23 locations around the globe deliver a service-level agreement (SLA) of 99.999 percent uptime, so that information is always available. Cloud Web Security also comes with Cisco's award-winning 24-hour support.

Features and Benefits by License

Several licenses are available. Cloud Web Security Essentials is the base offering for new and renewing customers. Other bundles and individual options are also available. The major features of each license are described in Tables 1 through 5.

Table 1. Essentials License

Feature	Description
Web filtering	Control web access to more than 50 million known websites by applying filters from a list of over 75 web categories.
Malware scanning	Increase the catch rate with an intelligent multiscanning technology that divides web traffic into functional elements and efficiently analyzes it in real time.
Outbreak intelligence	Identify unknown and unusual behaviors and zero-hour outbreaks through a heuristics-based antimalware engine. Outbreak intelligence runs webpage components in a virtual emulation environment before permitting user access. Using proprietary "scanlet" engines for Java, PDF, executables, and more, outbreak intelligence opens up the individual components of a webpage to determine how each component behaves and blocks any malware.
Web reputation	Restrict website access based on site reputation. Analyze data such as the domain owner, the hosting server, the time created, the type of site requested, and more than 50 other distinct parameters to provide a reputation score for the site requested. ¹
Application visibility and control	Increase employee productivity by controlling access to webpages, individual web parts, or microapplications so that employees can access the sites needed for work without unnecessary distractions. Simultaneously prevent access to inappropriate content.
Dynamic content analysis	Defend against compliance, liability, and productivity risks by combining traditional URL filtering with real-time dynamic content analysis (DCA). The DCA engine automatically categorizes the content of an unknown URL by analyzing the content of the page itself, scoring relevancy to web categories (such as pornography, hate speech, gambling, and illegal downloads) and blocking the page if it conflicts with web security policies.
Centralized management and reporting	Receive actionable insight across threats, data, and applications. A powerful centralized tool controls both security operations (such as management) and network operations (such as analysis of bandwidth consumption). Administrators have access to a variety of predefined reports and can create customized dashboards and set notifications. All reports are generated and stored in the cloud, so they are delivered in seconds as opposed to hours. Reports can be also be saved and scheduled for automated delivery. These capabilities provide flexibility, offering detail down to the user level, and help enable administrators to spotlight potential issues quickly.
Roaming laptop user protection	Protect roaming users with the same in-house policies through Cisco AnyConnect. AnyConnect routes all roaming web traffic through an SSL tunnel directly to the closest Cisco cloud proxy and enforces the same security features that are on premises. By eliminating the need to backhaul web traffic through VPN, Cloud Web Security relieves web congestion at the headquarters, reducing bandwidth use while improving the end-user experience.

¹ See "[Protect Against URL-Based Threats](#)" on the Cisco Web Reputation Technology page.

The Cloud Web Security Premium license, shown in Table 2, includes all the features from the Cloud Web Security Essentials bundle and adds AMP and Cognitive Threat Analytics.

Table 2. Premium License

Feature	Description
Cisco AMP (also available separately)	Protect against the latest and most advanced forms of malware with AMP's detection and blocking, continuous analysis, and retrospective alerting. AMP uses the vast cloud security intelligence networks of both Cisco and Sourcefire (now part of Cisco). AMP augments the antimalware detection and blocking capabilities already offered in Cloud Web Security with enhanced file reputation capabilities, detailed file sandboxing, and file retrospection. The only solution with all of these capabilities, Cisco AMP tracks a file's disposition over time inside the network perimeter. If a file is later found to be malicious, file retrospection identifies where the file entered and where it traveled to help in the remediation process. Learn more.
Cognitive Threat Analytics (also available separately)	Reduce the time to discovery of threats operating inside the network. Cognitive Threat Analytics addresses gaps in perimeter-based defenses by identifying the symptoms of a malware infection or data breach using behavioral analysis and anomaly detection. Unlike traditional monitoring systems, it relies on advanced statistical modeling and machine learning to independently identify new threats, learn from what it sees, and adapt over time. Learn more.

Table 3. Advanced Threat Detection and A la carte Licenses

Feature	Description
Log extraction API	Automatically pull web-usage data quickly for highly secure analysis with an S3-compatible HTTPS API. Log data is compiled in W3C text format that can be correlated with existing data using a variety of reporting and analysis tools such as security information and event management (SIEM). Log information consisting of more than 20 attributes is typically available within 15 minutes of the event. Log extraction can be added to any existing Cloud Web Security license. It is ideal for customers with 4000 seats or more.
AMP	See Table 2.
Cognitive Threat Analytics	See Table 2.
Data retention	Data for blocked web requests (policy or malware blocks) is retained for one year, and allowed data is retained for 45 days. Customers can retain data for longer periods to match the terms of their subscription.

Advanced threat detection is an add-on license that includes Cisco AMP and Cognitive Threat Analytics (see descriptions in the tables above) and is available to customers with a current Cloud Web Security Essentials license.

Table 4. Web Security Bundle

Feature	Description
Web Security bundle	<p>The Web Security bundle comprises the Cisco Web Security Appliance and Cloud Web Security. Customers can consume Cisco Web Security across the cloud or on premises. The bundle includes:</p> <ul style="list-style-type: none">• Web Security Appliance Premium: Combines URL filtering defense with deep content scanning (web-usage controls, web reputation, Sophos Anti-malware, Webroot Anti-malware, and software subscription support); includes license for the Web Security Virtual Appliance. See the Web Security Appliance data sheet for more details.• Cloud Web Security Essentials: See Table 1.• Web reporting application (optional): The Cisco Web Security reporting application provides a single pane of glass for monitoring your web security regardless of deployment. It includes a customized application in one transparent installation. It polls log data collected from multiple Web Security Appliances and Cloud Web Security for predefined reports. Customers can also perform searches using the flash timeline view and web-tracking forms.• Log extraction (optional): See Table 3.• AMP: See Table 2.

These benefits are included with all Cloud Web Security licenses.

Talos Security and Research Group: With a 24-hour view into global traffic activity, Talos analyzes anomalies, uncovers new threats, and monitors traffic trends. Talos generates new rules and updates every 3 to 5 minutes, providing threat defense hours and even days ahead of competitors. Receive fast and comprehensive web protection backed by one of the largest threat-detection networks in the world, with the broadest visibility and largest footprint based on:

- 130 billion web requests served by Cloud Web Security per month
- 3.6 petabytes of bandwidth pumped through Cloud Web Security monthly
- 100 TB of intelligence gathered daily
- 4.9 billion antivirus and web filtering blocks per month
- 1.6 million sensors
- Support on all major operating systems and platforms

World-class support: Resolve issues rapidly with direct, 24-hour access to Cisco experts available in more than 10 JD Power award-winning security support centers. Support for Cloud Web Security software subscription includes:

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

Industry-leading uptime: Help ensure data protection with top-tier data center facilities that deliver an SLA of 99.999 percent uptime. With automatic updates from Talos, Cloud Web Security stays current with the latest threat information. Security is always on and available, freeing your staff to focus on other priorities.

Deployment

Cloud Web Security Traffic Redirection Connection Methods

Cloud Web Security allows for flexible deployment options that include Cisco appliances... or not. There are many ways to redirect traffic to the Cloud Web Security web proxy. Redirection can be accomplished through the Cisco Adaptive Security Appliances (both physical and virtual), Cisco Integrated Services Routers (ISR) G2, Cisco 4000 Series Integrated Services Routers (through generic routing encapsulation over IPsec) and the Web Security Appliances (physical and virtual). These redirect traffic to Cloud Web Security for web security functions.

Next-Generation Firewall (Cisco Adaptive Security Appliances, physical and virtual): Capitalize on your Adaptive Security Appliance investments by offloading content scanning to Cisco's cloud through Cloud Web Security. Apply acceptable-use policy to the company, groups, or individual users.

Web Security Appliance (physical and virtual): Integrate Cloud Web Security and the Web Security Appliance so that identity information can be sent to the cloud. And extend other on-premises enterprise features to Cloud Web Security customers.

Cisco ISR G2: Save bandwidth, money, and resources and improve Internet speed at the branch by intelligently redirecting Internet traffic from branch offices directly to the cloud to enforce security and control policies. Apply acceptable-use policy to all users regardless of location.

Cisco 4000 Series ISR: Get the same benefits of redirecting through the ISR G2. At the same time, you reduce maintenance costs by adopting industry-standard GRE over IPsec technology that is reliable, well understood, and mature. See [Controlled Availability notification](#) for more information

AnyConnect Secure Mobility Client: Authenticate and redirect web traffic off the corporate network whenever the end user is. Cloud Web Security uses cached user credentials and directory information when users are away from the office or connecting through a VPN, helping to ensure that the same web usage policies are applied.

Standalone deployment: Deploy a simple web security solution that does not require additional hardware. Connect to the Cloud Web Security service using existing browser settings and Proxy Auto-Configuration (PAC) or Web Proxy Auto-Discovery (WPAD) files.

Every Cloud Web Security deployment option includes directory authentication methods that enhance end-user identification, enabling administrators to apply precise filter controls at the user or group level and run detailed log reports.

Subscriptions

All Cisco Cloud Web Security subscriptions are term-based subscriptions of 1, 3, or 5 years.

Seat-Based Subscription

The Cisco Web Security portfolio uses tiered pricing based on the number of users, not devices. Sales and partner representatives can help to determine the correct tier for each customer deployment.

Bandwidth-Based Subscription

Customers can consume Cloud Web Security on a bandwidth basis by aggregating the total traffic across various deployment sites that will be directed to Cloud Web Security data centers.

Security Enterprise License Agreements

Cisco Security Enterprise Licensing Agreements (ELAs) offer simplified license management and license costs savings through a single agreement. Customers with ELA v3 can add Cloud Web Security Essentials, and customers with ELA v4 can add Cloud Web Security Premium, all at no additional cost. To learn more about Security Enterprise License Agreements, talk to your Cisco account representative.

Software Subscription Support

Every Cloud Web Security subscription also includes the following support benefits:

- Automatic application of patches, software updates, and maintenance to the Cisco cloud to keep applications and platform software current
- Access to the Cisco Technical Assistance Center (TAC) 24 hours a day, 7 days a week
- Access to an online repository of application tools, technical documents, and training
- Registered access to Cisco.com for online technical information and service request management

Services

Cisco takes a threat-centric approach to security to protect network infrastructures and assets on the network. Our services help you take full advantage of security appliances and systems you've installed.

Cisco Branded Services

We've identified four actions that are essential for successful security deployments: assessment, integration, optimization, and management. You can take advantage of these services to implement those actions.

Cisco Security Planning and Design Service: Helps you develop and implement a robust security solution quickly and cost-effectively with:

- Technology readiness assessment
- Design development
- Implementation engineering
- Knowledge transfer

Cisco Web Security Configuration and Installation Service: Helps mitigate web security risks by installing, configuring, and testing to implement:

- Acceptable-use policy (AUP) controls
- Reputation and malware filtering
- Data security
- Application visibility and control

Cisco Security Optimization Service: Helps you evaluate and strengthen your network's ability to prevent, detect, and mitigate threats. This service combines network security assessment, design, support, and learning activities in one comprehensive subscription package.

Cisco Managed Threat Defense: Provides dynamic real-time detection and remediation against known vulnerabilities as well as advanced persistent threats. Cisco provides the hardware, software, and expertise to deliver threat defense in a subscription-based model through a global network of security operation centers.

Collaborative/Partner Services

A wide range of valuable services from Cisco partners is available across the planning, design, implementation, and optimization lifecycle. They include the following:

Cisco Network Device Security Assessment: Helps you implement and maintain a hardened network device environment by identifying gaps in your Cisco network infrastructure security.

Smart Care Service (provided by a Cisco Certified Partner): Helps you simplify network maintenance through proactive network monitoring, assessments, software repairs, and technical support.

Other Services

Cisco Product Security Incident Response Team (PSIRT): The PSIRT is a dedicated global team that manages the receipt, investigation, and public reporting of security vulnerability information related to Cisco products and networks.

Cisco Secure Development Lifecycle (SDL): This is a repeatable and measurable process designed to increase the resiliency and trustworthiness of our products.

More information on Cisco Services is available at:

<http://www.cisco.com/en/US/products/hw/vpndevc/services.html>.

Warranty Information

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

Cisco Capital

Financing to Help You Achieve Your Objectives

Cisco Capital can help you acquire the technology you need to achieve your objectives and stay competitive. We can help you reduce CapEx. Accelerate your growth. Optimize your investment dollars and ROI. Cisco Capital financing gives you flexibility in acquiring hardware, software, services, and complementary third-party equipment. And there's just one predictable payment. Cisco Capital is available in more than 100 countries. [Learn more.](#)

For More Information

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




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