

Cisco C-Series and X-Series Email Security Appliances

Product Overview

Cisco® C-Series and Cisco X-Series Email Security Appliances combine market-leading antispam, antivirus, encryption, digital rights management, and archiving technologies. Built on the same comprehensive platform that protects email infrastructures for half of the Fortune 1000, these appliances are in production at eight of the 10 largest ISPs and many of the world's largest enterprises.

Cisco Email Security Appliances provide the highest levels of email protection with exclusive preventive and reactive technologies and industry-leading email management tools. Cisco offers a complete portfolio of secure delivery methods, integrated key management, and the power of business-class email, as well as industry-leading encryption capabilities, enabling the comprehensive capabilities necessary to protect even the most complex enterprise environments.

By reducing the downtime associated with spam, viruses, and blended threats, Cisco Email Security Appliances can vastly improve the administration of corporate email systems, reduce the burden on technical staff, and provide constant state-of-the-art network protection. They also provide a multilayer approach to stopping email-based threats.

- For spam protection, email and web reputation filtering technology is combined with Cisco's industry-leading antispam feature.
- Cisco Outbreak Filters are paired with fully integrated traditional antivirus technology and patent-pending protection against targeted attacks to help keep networks safe from even the most sophisticated attacks.
- In 2009, Cisco began integrating RSA data loss prevention technology into its email security solutions. Through this integration, Cisco provides comprehensive global regulatory compliance coverage; best-in-class accuracy for identifying sensitive, data-comprehensive remediation options; and ease of deployment and management.
- Cisco encryption technology fulfills secure messaging, compliance, and regulatory requirements.

Figure 1 shows a typical email security deployment with a Cisco Email Security Appliance.

Figure 1. Cisco Email Security solutions integrate easily into existing messaging infrastructures



Cisco SenderBase Network

Cisco Email Security Appliances harness the power of the SenderBase® Network, a powerful threat tracking database that captures data from more than 100,000 organizations worldwide, providing a large and diverse sample of Internet traffic patterns.

- SenderBase receives over 30 billion queries daily.
- Using SenderBase data increases malware catch rates by more than 20 percent over signature-based scanning alone—an unprecedented increase in efficacy.

Cisco Email Security Differentiators

Cisco AsyncOS® is a unique, high-performance software architecture designed to address concurrency-based communications bottlenecks and the limitations of file-based queuing. The AsyncOS platform is built for security with a no user-accessible UNIX shell that makes it much simpler to administer and inherently more secure, uses stackless threading to support more than 10,000 simultaneous connections, and offers asynchronous message support through its high performance file system and optimized I/O driven scheduler.

Cisco Reputation Filters perform real-time email threat assessments to identify suspicious email senders. Suspicious senders are rate-limited or blocked, preventing malicious traffic from entering the network.

Cisco Anti-Spam combines leading conventional techniques with context-sensitive detection technology to eliminate the broadest range of known and emerging email threats.

Cisco Outbreak Filters detect new virus outbreaks in real-time, then quarantine suspicious messages—offering protection up to 42 hours before traditional antivirus solutions.

Data Loss Prevention Architecture with RSA provides comprehensive data loss prevention (DLP) policies and remediation options, unparalleled accuracy, and easy deployment and management capabilities—helping organizations meet acceptable use policy and compliance requirements readily.

Cisco Registered Envelope Service helps organizations support their secure messaging requirements—including meeting regulatory compliance demands and protecting intellectual property—without having to invest in additional infrastructure. The solution eliminates the complexity of encryption and key management, so users can send and receive secure messages as easily as unencrypted emails.

Cisco Security Intelligence Operations (SIO) provides a 24x7 view into global traffic activity, enabling Cisco to analyze anomalies, uncover new threats, and track traffic trends. It is the largest threat detection network in the world, providing proven, zero-day threat protection to all users wherever they are.

- Over 75 TB of web data per day
- More than 1.6 million deployed devices
- More than 150 million endpoints
- More than 13 billion web requests per day
- Over 35 percent of the world's email traffic

Effective Email Protection

- Cisco provides the industry's highest spam catch rate, greater than 99 percent, with a less than one in 1 million false-positive rate.
- Cisco Reputation Filters eliminate 80 percent of junk email before it enters your network.
- Cisco provides DomainKeys (DKIM) signing, directory harvest attack (DHA) prevention, and complete protection against bounced-message attacks
- Cisco allows you to set different filtering policies for different groups within your organization.
- Real-time reporting allows administrators to be proactive about email security and modify policies if the organization is under network attack.

Figure 2 shows the major elements integrated in a Cisco Email Security Appliance.

Figure 2. Cisco Email Security Appliance Elements



Product Specifications

Cisco C-Series and X-Series Email Security Appliances come ready to plug in and install in the right size for your environment. Regardless of the model you choose, Cisco provides high-availability email protection against the constant, rapidly changing, and sophisticated threats affecting email today.

Cisco X1070: This model delivers high-performance, comprehensive email security at the network gateway for the most demanding service providers and enterprises in the world.

Cisco C670: Designed for midsize organizations, Cisco C670 offers the same email security features and capabilities as the Cisco X1070.





Cisco C370: This model delivers email security to small-to-midsize organizations and branches with 1000 to 10,000 users.

Cisco C370D: A version of the C370, the C370D is designed for outbound delivery, providing optimum email deliverability with identity and reputation protection and delivering up to 800,000 messages per hour for authenticated email, investor updates, and marketing newsletters.

Cisco C170: This model delivers cost-effective email security for small businesses, branch offices, and organizations with fewer than 2000 users.

Table 1 provides product specifications for the Cisco X-Series and C-Series Email Security Appliances.

Table 1. Product Specifications

	Cisco X1070	Cisco C670	Cisco C370*	Cisco C170
Image				
Usage Scenario				
Description	High-performance, comprehensive security at the network gateway for service providers and large-scale enterprise email systems	The same X1070 email security features and functionality for midsize organizations	Email security for small-to-midsize organizations and branches with 1,000 to 10,000 users	Cost-effective email security designed for small businesses, branch offices, and organizations with fewer than 2,000 users
Number of users (mailboxes) per appliance**	Up to 20,000	10,000+	Up to 10,000	Up to 2,000
Clustering	Yes	Yes	Yes	Yes
Chassis				
Form factor	2 RU	2 RU	2 RU	1 RU
Dimensions (H x W x D)	3.5 x 17.5 x 26.8 in. (8.9 x 44.5 x 68.1 cm)	3.5 x 17.5 x 26.8 in. (8.9 x 44.5 x 68.1 cm)	3.5 x 17.5 x 26.8 in. (8.9 x 44.5 x 68.1 cm)	1.67 x 16.9 x 15.5 in. (4.24 x 42.9 x 39.4 cm)
Total weight (lb)	57.5	52.2	49	26.96
Power supply	870W, 100/240V	870W, 100/240V	870W, 100/240V	400W, 100/240V
Redundant power supply	Yes	Yes	Yes	No
Processor, Memory, and Disks				
CPUs	2x4 (2 quad cores)	2x4 (2 quad cores)	1x4 (1 quad core)	1x2 (1 dual core)
Memory	4 GB	4 GB	4 GB	4 GB
Disk space and count	1.8 TB (300* 6)	1.2 TB (300* 4)	600 GB (300* 2)	500 GB (250* 2)
Hot-swappable hard disk	Yes	Yes	Yes	Yes
RAID level and controller	RAID 10, hardware	RAID 10, hardware	RAID 1, hardware	RAID 1, hardware
Interfaces				
Ethernet	4 Gigabit NICs, RJ-45	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	10/100/1000, auto-negotiate
Duplex	Half or full, auto-negotiate	Half or full, auto-negotiate	Half or full, auto-negotiate	Half or full, auto-negotiate
Serial	1xRS-232 (DB-9), serial	1xRS-232 (DB-9), serial	1xRS-232 (DB-9), serial	1xRS-232 (RJ-45)
Fiber	Optional, 2 fiber ports (1000BASE-SX)	Optional, 2 fiber ports (1000BASE-SX)	Optional, 2 fiber ports (1000BASE-SX)	—
USB	0	0	0	2
Configuration, Logging, and Monitoring				
Web interface	GUI-based (HTTP)	GUI-based (HTTP)	GUI-based (HTTP)	GUI-based (HTTP)
Command-line interface	SSH or Telnet (command-based)	SSH or Telnet (command-based)	SSH or Telnet (command-based)	SSH or Telnet (command-based)
Logging	Syslog	Syslog	Syslog	Syslog
Centralized reporting	Supported	Supported	Supported	Supported
File transfer	SCP, FTP	SCP, FTP	SCP, FTP	SCP, FTP
Configuration files	XML-based	XML-based	XML-based	XML-based
Centralized	Supported	Supported	Supported	Supported

	Cisco X1070	Cisco C670	Cisco C370*	Cisco C170
configuration				
Monitoring	SNMPv1-3, email alerts	SNMPv1-3, email alerts	SNMPv1-3, email alerts	SNMPv1-3, email alerts
Environmental Operating Ranges				
Total current (A)	3.7	3	2.7	4.85 (max)
Input voltage (VAC)	100 to 240	100 to 240	100 to 240	100 to 240
Operating power (W)	394.8	325.4	287.6	400 (max)
Total heat dissipation (BTU/Hr)	1,904	1,904	1,801.6	432.6
Leakage current (mA)	3.5	3.5	3.5	3.5
Fan exhaust volume (CFM)	43.1	37.4	37.4	Idle at 24°C: 12.3 Full fan speed: 34.4
Ambience noise (bels)	6.3	6.3	6.1	Idle: 41.3 dBa Stress: 64.2 dBa max
Effective MTB (hours)	94,400	94,400	94,000	107,356
Operating				
Temperature	10°C to 35°C	10°C to 35°C	10°C to 35°C	-5°C to 45°C
Relative humidity	20% to 80% (noncondensing)	20% to 80% (noncondensing)	20% to 80% (noncondensing)	20% to 80% (noncondensing)
Altitude (m)	3,048	3,048	3,048	3,000
Vibration	0.26 Grms at 5 to 350 Hz	0.26 Grms at 5 to 350 Hz	0.26 Grms at 5 to 350 Hz	0.41 Grms at 3 to 500 Hz
Non-Operating				
Temperature	-40°C to 65°C	-40°C to 65°C	-40°C to 65°C	-25°C to 70°C
Relative humidity	5% to 95% (noncondensing)	5% to 95% (noncondensing)	5% to 95% (noncondensing)	5% to 95% (noncondensing)
Altitude (m)	10,600	10,600	-16 to 10,600	4,570
Vibration	1.54 Grms at 10 to 250 Hz	1.54 Grms at 10 to 250 Hz	1.54 Grms at 10 to 250 Hz	1.12 Grms at 3 to 500 Hz
Industry Certifications				
RoHS	Yes	Yes	Yes	Yes
Other certifications	—	—	—	Safety: cULus, CB, CCC, BSMI EMC: CE, FCC, VCCI, C-TICK, KC

* The Cisco C370D is another version of this model that provides optimal email deliverability with identity and reputation protection, delivering up to 800,000 messages per hour for authenticated email, investor updates, and marketing newsletters.

** Please confirm sizing guidance considering peak mail flow rates and average message size with a Cisco content security specialist to help ensure your solution will meet your current and projected needs.

Why Cisco?

Security is more critical to your network than ever before. As threats and risks persist, along with concerns about confidentiality and control, security is necessary for providing business continuity, protecting valuable information, maintaining brand reputation, and adopting new technology. A secure network enables your employees to embrace mobility and securely connect to the right information. It also allows your customers and partners to conduct business with you more easily.

No organization understands network security like Cisco. Our market leadership, unmatched threat protection and prevention, innovative products, and longevity make us the right vendor to serve your security needs.

For More Information

For more information about the Cisco C-Series or X-Series Email Security Appliances, or Cisco Email Security, visit Cisco.com or contact your local account representative.

The best way to understand the benefits of the Cisco C-Series or X-Series Email Security Appliances is to participate in the Try Before You Buy program. To receive a fully functional evaluation appliance to test in your network, free for 30 days, visit <http://www.cisco.com/go/esa>.



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