

## Cisco IronPort C670 for Large Enterprises and ISPs

As the battle to protect the corporate email perimeter continues, two trends emerge: higher mail volumes and more resource-intensive scanning. The Cisco IronPort® C670 Email Security Appliance is built on the foundation of the Cisco IronPort AsyncOS® operating system to provide power for today's volumes and high-performance scanning for tomorrow's threats. This unparalleled performance delivers dial-tone availability, saving hours of productivity and thousands of dollars during peak traffic times.

Fortune 500 and Global 2000 companies need a secure and easy-to-manage email security solution that protects all facets of their complex email infrastructures. The Cisco IronPort C670 provides Cisco's exclusive preventive filters and signature-based reactive filters, combined with data loss prevention and best-of-breed, on-box encryption technology, to enable the highest level of email security available today - while delivering unprecedented visibility and management tools.

### The Cisco IronPort Difference

Cisco IronPort email and web security products are high-performance, easy-to-use, and technically innovative solutions designed to secure organizations of all sizes. Built for security and deployed at the gateway to protect the world's most important networks, these products enable a powerful perimeter defense.

Using the Cisco® Security Intelligence Operations (SIO) center and global threat correlation makes the Cisco IronPort line of appliances smarter and faster. This advanced technology enables organizations to improve their security and transparently protect users from the latest Internet threats.

### Features

The Cisco IronPort C670 provides the world's most powerful multilayered approach to email security.

#### Spam Protection

Cisco defends against spam by providing two layers of protection - a preventive layer of reputation filters, followed by reactive filters.

**Cisco IronPort Reputation Filters** provide an outer layer of defense using Cisco SenderBase® data to perform a real-time email traffic threat assessment and identify suspicious email senders.

**Cisco IronPort Anti-Spam** uses the industry's most innovative approach to threat detection, based on a unique Context Adaptive Scanning Engine (CASE). Cisco IronPort CASE examines the complete context of a message, including: **what** content the message contains, **how** the message is constructed, **who** is sending the message, and **where** the call to action of the message takes you. By combining these elements, Cisco IronPort Anti-Spam stops the broadest range of threats with industry-leading accuracy.

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**Cisco IronPort Spam Quarantine** is a self-service end-user solution, with an easy-to-use web- or email-based interface. This feature provides end users with their own safe holding area for spam messages and integrates seamlessly with existing directory and mail systems.

### **Virus Protection**

**Cisco IronPort Outbreak Filters** identify and stop viruses hours before traditional virus signatures are available.

**Sophos Anti-Virus** technology provides a fully integrated second layer of virus protection with the highest-performance virus scanning technology in the industry.

**McAfee Anti-Virus** technology provides an additional layer of protection (either in conjunction with, or as an alternative to, Sophos) for maximum virus security.

### **Data Loss Prevention**

**Integrated data loss prevention (DLP)** is provided with RSA Email DLP. Cisco has partnered with RSA, the leader in DLP technology, to enable RSA Email DLP on Cisco IronPort email security appliances. RSA Email DLP offers easy management, comprehensive protection, and unparalleled accuracy to help organizations ensure compliance with industry and government regulations worldwide and prevent confidential data from leaving customer networks.

**Cisco IronPort Email Encryption** gives administrators the ability to secure confidential data and comply with partner, customer, or regulatory requirements. This technology enables simple, secure communication from the gateway to any recipient inbox, while TLS, PGP, and S/MIME technology provide security between partner email gateways.

**Cisco IronPort Compliance Quarantine** provides delegated access to emails that have been flagged by the content scanning engine.

### **Email Authentication**

**DomainKeys Identified Mail (DKIM) and DomainKeys verification and signing** digitally process messages to establish and protect identities with email senders and receivers on the Internet.

**Cisco IronPort Bounce Verification** tags messages with a digital watermark to enable filtering of bounce attacks at the network edge.

**Cisco IronPort Directory Harvest Attack Prevention** tracks spammers who send to invalid recipients and blocks attempts to steal email directory information.

### **Enterprise Management Tools**

**Cisco IronPort Email Security Manager** is a powerful graphical management tool that yields fingertip control to manage all security - including preventive and reactive antispam and antivirus filters, email encryption, and content filtering.

**An intuitive GUI** enables unprecedented visibility and control. The integrated web-based user interface enables real-time and historical reporting along with the ability to configure policies, search, and selectively release quarantined messages.

**Centralized management** eliminates a single point of failure and makes managing multibox installations of Cisco IronPort email security appliances simple. The ability to manage configuration at multiple levels allows organizations to manage globally while complying with local policies.

**Cisco IronPort Email Security Monitor** delivers real-time threat monitoring and reporting. This technology tracks every system connecting to the Cisco IronPort appliance to identify Internet threats (such as spam, viruses, and denial-of-service [DoS] attacks), monitor internal user trends, and highlight compliance violations.

**SNMP Enterprise MIB** facilitates hands-off monitoring and alerting for all system parameters, including hardware, security, performance, and availability.

### Cisco IronPort MTA Platform

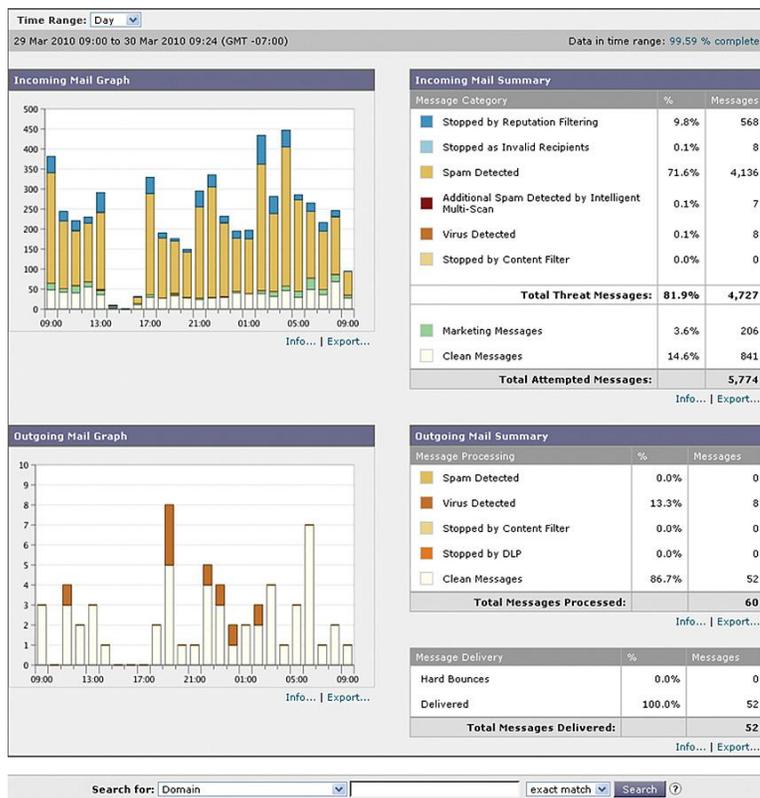
AsyncOS, Cisco's proprietary operating system, was built to address the requirements of modern email gateways and to position customers for the future of SMTP. The Cisco IronPort C670 supports thousands of simultaneous incoming and outgoing connections - ensuring that the email infrastructure is never overwhelmed, even during the largest outbreaks or attacks.

## Benefits

### Reporting Insight Proves ROI

The Cisco IronPort C670 offers sophisticated management, monitoring, and reporting tools designed to satisfy the large global enterprises and ISPs that make up Cisco's customer base. Each appliance has a unique reporting system, providing both a real-time and historical look at mail flowing through an organization's email infrastructure. These tools provide system administrators with the necessary information to make critical security decisions.

**Figure 1.** The Email Security Monitor's Intuitive Graphical User Interface Enables Real-Time and Historical Visibility Into Email Traffic



## Reduced TCO

The Cisco IronPort MTA platform enables a massive reduction in cost by consolidating email operations and security into a single platform. Self-managing security services provide the lowest maintenance solution in the industry, with minimal configuration requirements.

## Increased End-User Productivity

By securing the network at the gateway level, the Cisco IronPort C670 acts as a “shock absorber,” in front of the groupware server(s). This helps ensure that end users are not bogged down by spam, viruses, and other threats. Unlike other solutions, Cisco security services do not rely on end users to “train” the system. Instead, high accuracy is maintained through continuous and automatic rule updates.

## Improved Network Efficiency

The Cisco IronPort Reputation Filtering system was the first in the industry and remains the most sophisticated. In its default settings. The system will block more than 80 percent of incoming mail at the connection level. By eliminating these unwanted messages, companies save bandwidth (the message is never accepted) and system resources. CPU-intensive spam and virus filters are only used when needed, and rate limiting is an effective defense against “hit and run” spam or DoS attacks.

## Minimized Downtime

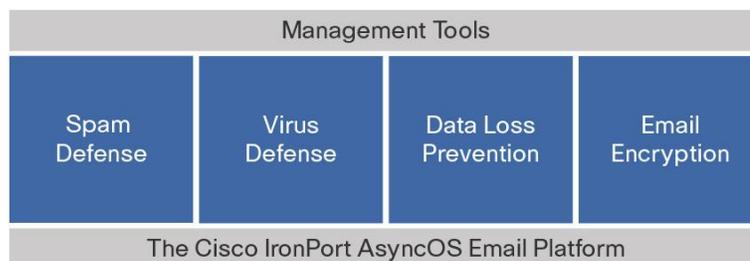
The Cisco IronPort C670 solution helps ensure the availability and security of the email infrastructure. Cisco offers a variety of security applications for spam and virus filtering, content scanning, and policy enforcement. Together these features reduce the risk and potential downtime posed by security threats.

**Figure 2.** The Cisco IronPort C670 Integrates Easily Into Existing Messaging Infrastructures - Delivering In-Depth Security with Carrier-Proven Technology and the Management Capabilities Required by Large Enterprises and ISPs



Today’s email-borne threats consist of virus attacks, spam, false positives, distributed denial of service (DDoS) attacks, directory harvest attacks, phishing (fraud), data loss, and more. The Cisco IronPort C670 Email Security Appliance addresses the issues faced by large enterprises and ISPs, by uniquely combining powerful performance with preventive and reactive security measures that are easy to deploy and manage.

**Figure 3.** Power at the Perimeter: The Cisco IronPort C670 Provides Multilayered Security on a Single Appliance by Combining Revolutionary Cisco IronPort Technology with Additional Market-Leading Solutions



## Specifications

Chassis/Processor	
<b>Form Factor</b>	19-in. rack-mountable, 2 RU height
<b>Dimensions (H x W x D)</b>	3.4 x 17.4 x 26.8 in.
<b>CPU</b>	Two Intel multicore processors
<b>Power Supplies</b>	Hot-plug redundant, 750W, 100/240V
Storage	
<b>RAID</b>	RAID 1+ 0 configuration; dual-channel hardware with battery-backed cache
<b>Drives</b>	Four hot-swappable, 300 GB serial attached SCSI
<b>Capacity</b>	70 GB effective queue capacity
Connectivity	
<b>Ethernet</b>	Four Gigabit Ethernet ports
<b>Serial</b>	One RS-232 (DB-9) serial port
Mail Operations	
<b>Mail Injection Protocols</b>	SMTP, ESMTP, Secure SMTP over TLS
<b>Mail Delivery Protocols</b>	SMTP, ESMTP, Secure SMTP over TLS
<b>DNS</b>	Internal resolver/cache; can resolve using local DNS or Internet root servers
<b>LDAP</b>	Integrates with Active Directory, Notes, Domino, and Open LDAP servers
Interfaces/Configuration	
<b>Web Interface</b>	Accessible by HTTP or HTTPS
<b>Command Line Interface</b>	Accessible via SSH or Telnet; Configuration Wizard or command-based
<b>File Transfer</b>	SCP or FTP
<b>Programmatic Monitoring</b>	XML over HTTP(S)
<b>Configuration Files</b>	XML-based configuration files archived or transferred to cluster
Cryptographic Algorithms	
<b>TLS (Encrypted SMTP)</b>	56-bit DES, 168-bit 3DES, 128-bit RC4, 128-bit AES, and 256-bit-AES
<b>DomainKeys Signing</b>	512-, 768-, 1024-, 1536-, and 2048-bit RSA
<b>SSH for System Management</b>	768- and 1024-bit RSA
<b>HTTPS for System Management</b>	RC4-SHA and RC4-MD5

## Product Line

### Sizing Up Your Email Security Solution

Cisco provides industry-leading email security products for organizations ranging from small businesses to the Global 2000.

<b>Cisco IronPort X1070</b>	For the most demanding networks in the world
<b>Cisco IronPort C670</b>	For large enterprises and service providers
<b>Cisco IronPort C370</b>	For medium-sized and large enterprises
<b>Cisco IronPort C370D</b>	For any company with unique outbound email communication needs
<b>Cisco IronPort C160</b>	An affordable and easy to use all-in-one appliance for small to medium-sized enterprises

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## Summary

### Industrial-Strength Email Security

Cisco IronPort offers the most sophisticated email security available today. In production at 8 of the 10 largest ISPs and at more than 40 percent of the world's largest enterprises, Cisco IronPort email security appliances have a demonstrated record of unparalleled security and reliability.

By reducing the downtime associated with spam, viruses, and a wide variety of other threats, the Cisco IronPort C670 enables the administration of complex corporate mail systems, reduces the burden on technical staff, and quickly pays for itself. Its advanced technology leads to the simplicity of management - and the highest levels of security in the world. Cisco IronPort email security appliances support and protect email systems not only from today's threats, but also from those certain to evolve in the future.

## Contact Us

### How to Get Started with Cisco IronPort

Cisco IronPort sales representatives, channel partners, and support engineers are ready to help you evaluate how Cisco products can make your infrastructure secure, reliable, and easier to manage. If you believe that your organization could benefit from Cisco's industry-leading products, please call 650-989-6530 or visit us online at <http://www.ironport.com/leader>.



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