

McAfee Email Gateway

Comprehensive enterprise email protection

Email is arguably today's most indispensable communication medium and one of the most mission-critical services in any business environment. Its ability to distribute a wide range of information payloads instantly across organizational, geographic, and political boundaries makes it both an essential tool and an extraordinary security challenge that has grown increasingly urgent and complex over time.

Email Security Challenges

Consider the scale and diversity of email security issues:

- Inbound email attacks, like all other IT threats, are increasingly the work of organized criminals seeking information they can exploit for financial gain. Their attacks employ sophisticated social engineering techniques and morph rapidly to evade conventional signature-based defenses.
- External attacks are far from the only threat. Email is a primary vector for confidential and sensitive data loss, whether by well-meaning but careless employees or determined internal malefactors.
- Because of its operational importance and widespread vulnerability, email has come under scrutiny by regulators across political and industry boundaries. Existing mandates include payment card (PCI DSS), financial services (GLBA), healthcare (HIPAA), and all US publicly held companies (SOX).
- Approximately 75 percent to 90 percent of all email is spam,¹ and volumes continue to surge. Between March 2006 and June 2011, global spam transmissions rose from 15 billion to 1.7 trillion messages daily—with spear phishing becoming more targeted and effective than ever.
- McAfee® Labs™ identified approximately 3,500 phishing URLs per day in Q3 2011, up from 3,000 per day in the prior quarter.²

Existing Defenses Are Fragmented and Inadequate

Just like the threat environment itself, today's enterprise email defenses have evolved over time—just not as fast or as far. Most comprise a variety of point solutions—antivirus, antispam, and antispymware—acquired from multiple vendors, separately deployed, and repeatedly rescaled. Many don't meet current best practice performance standards. For instance, while leading antispam solutions achieve 99 percent or greater spam detection accuracy, many existing email defenses only achieve 95 percent or less. While a four percent difference may sound minor, the reality is a 400 percent difference in spam penetration and potential system infections. When spam is measured in the billions of emails, a four percent improvement can have marked impact on business. When even a fraction of unwanted email penetrates defenses, users can become sidetracked by sifting through and deleting spam. The burden placed on infrastructure increases, choking bandwidth and overburdened mail infrastructure. The opportunity for malware infections increases, leading to increased costs, lost productivity, and potential data loss. More significantly, most existing email security is exclusively inbound focused, and offers no protection whatsoever against outbound data loss.

The inevitable result is that most IT organizations spend too much time and money maintaining piecemeal defenses, demonstrating regulatory compliance, and repairing the aftermath of inadequate email security. There is a compelling business case for a comprehensive email security solution that integrates inbound and outbound defenses, simplifies administration, and streamlines compliance. McAfee Email Gateway is that solution.

McAfee Delivers Comprehensive Email Protection

McAfee Email Gateway integrates comprehensive inbound threat protection with outbound data loss prevention, advanced compliance and email encryption, performance, reporting, and simplified administration, all on a single platform for a single price. By combining local network information with global reputation intelligence from McAfee Global Threat Intelligence™ (McAfee GTI™), it provides the most complete protection available against inbound threats, spam, and malware. Its sophisticated content scanning technologies, multiple encryption techniques, and granular, policy-based message handling prevent outbound data loss and simplify compliance. Administrators have the flexibility they need to create policies to fit their business, increasing the solutions performance. Full integration into McAfee® ePolicy Orchestrator® (McAfee ePO™) software provides full management of the solution with enterprise-class logging and reporting capabilities that simplify administration and compliance workloads to significantly reduce costs.

McAfee Email Gateway provides:

- *Comprehensive inbound protection*—It identifies and blocks incoming spam with more than 99 percent accuracy while providing integrated protection against viruses, malware, phishing, directory harvest, denial-of-service attacks, and bounce back attacks. It prevents zero-hour threats and dramatically reduces the impact of spam surges through a potent combination of Dynamic Spam Classifier and Threat Response Updates utilizing both sender and messaging reputation from McAfee GTI.
- *Comprehensive outbound protection*—Available at no extra charge are built-in data loss prevention (DLP) capabilities that utilize the same text-matching dictionaries found in McAfee Data Loss Prevention. These DLP capabilities can be fully managed either from within the email gateway user interface or from within McAfee ePO software. Fingerprinting, lexical analysis, and clustering techniques supplement keyword and pattern matching to provide comprehensive

detection of both structured and unstructured data. The gateway accurately identifies regulated content (HIPAA, SOX, GLBA); personally identifiable information such as credit cards, Social Security numbers; and other customer and employee data. Unstructured data and intellectual property such as source code, patents, financial information, and business plans can also be detected and acted upon. Upon detection, it supports a wide range of policy-based actions, including forced encryption (push, pull, TLS), alerting, re-routing, quarantining, blocking, and other custom actions.

- *Comprehensive administrative empowerment*—McAfee Email Gateway helps administrators deliver the best possible email protection and document it with enterprise-class reporting, exportable report logs, real-time dashboards, and alerts. It combines performance, scalability, and stability with a flexible delivery model to ensure maximum ROI with minimum administrative overhead.

McAfee Email Gateway Product Family

McAfee Email Gateway appliances combine inbound threat protection, outbound data loss prevention, unified management, and granular compliance capabilities in a hardened, tightly integrated platform that's easy to deploy and maintain. Deployment flexibility is a hallmark of McAfee Email Gateway. You can deploy it as a hardware appliance (four different appliance sizes), as a virtual machine, or on a blade server architecture. This deployment flexibility offers affordable protection and scalability for the most demanding business messaging environments. In addition, McAfee Email Gateway is sold as part of McAfee Email Protection, which provides flexible purchase options: on-premises email gateway or Security-as-a-Service (SaaS) email protection for one subscription price.

Key Advantages

- McAfee Email Gateway is the most scalable, flexible, and feature-rich email security offering on the market. Basic features include DLP capabilities, centralized management, clustering, and email encryption at no additional cost.
 - » Multiple deployment form factors including standard appliances, virtual appliances, and blade server options
 - » Highly scalable quarantine manager supporting up to 200,000 end users
 - » IPv6 and CAC support
- Market-leading security
 - » Inbound and outbound email content inspection with McAfee DLP technology
 - » Antispam, anti-malware, and antiphishing protection
 - » McAfee sender, message, and network reputation
- Advanced high-performance architecture
 - » Asynchronous, memory-based scanning
 - » Approximately twice the performance increase over the previous version, with Integrated clustering and load balancing
- Sophisticated usage and policy controls
 - » Sleek, intuitive interface with wizard-based installation and configuration
 - » Inbound and outbound policies
 - » Granular policy enforcement with directory/lightweight directory access protocol (LDAP) integration
 - » Policy-enforced encryption as a basic feature: transport layer security (TLS), push, and pull
 - » Retrieval and viewing of encrypted messages on mobile devices
 - » Brandable web mail client
 - » Real-time reporting: fast, flexible, interactive, and demonstrable
 - » Informative, interactive dashboards and centralized management and reporting from McAfee ePO software
 - » Message search across clusters
 - » Detailed conversation log

McAfee Email Gateway Encryption provides policy-based email encryption using a combination of B2B (TLS, S/MIME, and OpenPGP), and business-to-consumer technologies (push or pull), ensuring that even recipients without encryption capabilities are able to receive and reply to secure email. Applying encryption at the gateway instead of at the desktop eliminates the need for end users to determine encryption requirements and avoids the common problem of end-users forgetting to encrypt sensitive data. McAfee Email Gateway encryption is a standard feature at no additional cost.

McAfee Email Gateway Quarantine Server provides consolidated quarantine services for multiple McAfee Email Gateway appliances, relieving storage and processing workloads with a capacity for up to 1.5 million messages.

Future-Proof: Total Email Protection for Every Enterprise

McAfee Email Gateway is part of the McAfee Email Protection Suite, which provides licenses to McAfee Email Gateway as well as inbound SaaS email antispam and virus scanning from as well as McAfee SaaS Email Protection and Continuity service.

Deploy your solution as all appliances, SaaS, or a hybrid mix of both without relicensing. For example, you can block spam in the cloud to reduce bandwidth but handle encrypted data on an appliance in your data center.

With McAfee you gain enterprise-class features and to meet the largest and most demanding workloads—all with minimal administrative oversight and expense. The unique combination of functionality, performance, reliability, and value has made McAfee Email Gateway the email security solution of choice for more than half of Fortune 500 IT organizations.

Awards

- Gartner, Leaders Quadrant, Email Gateway Security Magic Quadrant in 2011, 2010, and prior
- *SC Magazine* Best Email Security Solution five-star winner in 2011
- Forrester, Leader, Wave for Email Filtering in 2009
- *SC Magazine* Best Email Security Solution in 2009

For more information on McAfee Email Gateway solutions, visit www.mcafee.com/emailsecurity.



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¹ *McAfee Threats Report: Third Quarter 2011*, McAfee Labs

² *Ibid*