



## MX Logic® Advanced Email Defense Technology

**Spam now accounts for more than 85% of all email traffic.**

**MX LOGIC® THREAT CENTER**

**Spam cost organizations with no filtering protection upwards of \$1,000 per mailbox per year.**

**FERRIS RESEARCH**

### KEY BENEFITS

- Patented, multi-layered filtering technology
- 99.99 percent service availability guarantee
- Leading virus and worm scanning technology
- Robust and highly flexible technology platform

Email has transformed how we communicate with others and has become as integral to business communications as the phone and fax. Unfortunately, this revolutionary communications tool is under constant attack, with its delivery routes polluted each day by billions of unsolicited messages ranging from the merely annoying to the truly dangerous. The cost to business worldwide has reached billions of dollars annually for dealing with this malicious phenomenon.

MX Logic brought its powerful email defense solutions to market in response to the escalating risks that jeopardize business email systems and networks. With its industry-leading network-perimeter protection, MX Logic successfully blocks more than 99 percent of all email threats for its customers – including service providers and their customers – using a combination of proven spam filters powered by patented spam detection technology, fraud protection, leading anti-virus engines, content and attachment filtering, and sophisticated email attack protection.

#### SUCCESS USING A COMBINATION OF TECHNIQUES

MX Logic managed email security services are easy to administer and use, cost-effective and policy-based – automatically analyzing and blocking over 99 percent of unwanted email before it can reach an organization's network. This effectiveness is made possible by the integration of unique and advanced technology and processes that include:

- **Powerful perimeter-based protection**
- **In-line message filtering**
- **Scalable and robust architecture**
- **Stacked Classification Framework® spam detection system**
- **Virus and worm engines**
- **A sophisticated spam quarantine**
- **Around-the-clock threat management**

#### POWERFUL PERIMETER-BASED PROTECTION

Our service is built on the philosophy that network perimeter protection is the most effective way to keep destructive messages out of the business email environment – analyzing and filtering all messages before they can reach the business email gateway. This eliminates the need for internal IT staff to spend valuable time and resources designing and administering in-house solutions, and its centralized nature allows MX Logic's experts to make systems updates in near real time in order to provide immediate protection to its customers. And, for organizations that require a greater level of security for inbound and outbound email traffic MX Logic has integrated Transport Layer Security (TLS) protocol into its managed service.



## THE MX LOGIC STACKED CLASSIFICATION FRAMEWORK

<b>IP Reputation Connection Manager</b>	This filter operates at the front of the Stacked Classification Framework and rates the reputation of every incoming message, based on IP reputation data collected on an on-going basis by MX Logic.
<b>Deep Content Analysis<sup>SM</sup></b>	This filter blocks the most prevalent attachment-based spam, PDF spam, but has also been developed with the infrastructure necessary to address any future attachment spam variations.
<b>Premium Anti-Spam Multi-Language</b>	This filter provides MX Logic with a global view of spam traffic, which enables us to defend against real-time spam attacks and rapidly identify zero-hour spam, regardless of language.
<b>Statistical Filtering</b>	MX Logic's probabilistic filtering utilizes a statistical Bayesian algorithm to determine the probability that an email message is spam based on how often elements in that message have appeared in other spam emails.
<b>Sender Policy Framework (SPF)</b>	For inbound messages, MX Logic can check if the message has an associated SPF/Sender ID record necessary to determine if the email sender's domain is from a list of IP addresses authorized to send email from that domain.
<b>Proprietary Heuristics</b>	MX Logic experts write and update thousands of proprietary rules to block spam using real-time data from the MX Logic Threat Center.
<b>Reputation Analysis</b>	Reputation analysis votes on the probability that the message is spam based on comprehensive information about the source of the message.
<b>URL filtering</b>	Compares embedded links found in email messages with URLs associated with identified spam.
<b>Reputation-based RBL filtering</b>	Within the Stacked Classification Framework, MX Logic compares a message's sending IP address against those on key real-time blackhole lists (RBLs), which contain IP addresses that are associated with known spammers and are considered fraudulent.

## INTELLIGENT MESSAGE PROCESSING INCREASES MESSAGE FILTRATION EFFICIENCY

Our intelligent message processing leverages a proxy-based filtering approach that filters email in real time which, unlike the store-and-forward method used by other providers, does not write and store email messages to disk before forwarding them onto the recipient. The proxy-based approach virtually eliminates risk of loss associated with systems outages, message interception or corruption from an infected email base.

## GUARANTEED AROUND-THE-CLOCK AVAILABILITY

With advanced technology and redundant message processing centers, our data center production environment provides immediate disaster recovery and our Network Operations Center (NOC) provides 24x7x365 operational support and automated and remote monitoring of all service components. Our production facilities provide for carrier-grade infrastructure and our architecture design lends itself to a low-cost and highly distributed "pod" environment.

## EMAIL ATTACK PROTECTION

To protect businesses from these email attacks, MX Logic incorporates sophisticated technology into its filtering layers. Using a unique MX record masking technique, specifically designed to reduce the risks of attacks that take advantage of SMTP open-recipient weaknesses, MX Logic provides added protection from denial of service attacks, dictionary harvest attacks, mail bombs, and channel flooding.

## PRECISE FILTERING THROUGH INNOVATIVE, MULTI-LAYERED FILTERING APPROACH

MX Logic Stacked Classification Framework<sup>®</sup> utilizes a patented method of identifying and controlling spam using a voting algorithm based on a sophisticated form of intelligent reasoning to achieve more than 99 percent accuracy. Within the Framework, the different spam filters separately assess and "vote" on the probability that a specific email is spam – a technique that results in highly-accurate threat protection with industry-leading low false positive rates (legitimate email misidentified as spam).

## SOPHISTICATED VIRUS AND WORM SCANNING PREVENTS INFECTION

MX Logic virus and worm scanning provides defense-with-diversity protection to existing corporate on-premise anti-virus products. Through sophisticated content behavior analysis, MX Logic proprietary WormTraQ<sup>SM</sup> detection technology rapidly identifies and intercepts zero-hour mass mailing worms before they enter or leave a corporate network. MX Logic also leverages leading signature-based virus scanning engines from Authentium<sup>®</sup>, McAfee<sup>®</sup> and Sophos<sup>®</sup> to provide up-to-date, complementary protection to customers' on-premise anti-virus products.

## MX LOGIC THREAT CENTER MONITORS GLOBAL STATE OF EMAIL

Powering MX Logic email defense solutions is the MX Logic<sup>®</sup> Threat Center, a sophisticated streaming data environment that constantly monitors the global state of email for spam, viruses, worms and other threats. MX Logic believes the best email defense stays one step ahead of the next attack by continuously writing and updating its filtering rules to protect against the latest threats. Find out more by calling 1.877.MXLOGIC or visiting us at [www.mxlogic.com](http://www.mxlogic.com).



### ABOUT MX LOGIC

MX Logic is a leading provider of managed email and Web security services delivering enterprise-grade performance without enterprise-level complexity and cost. Our easy-to-use, award-winning services reduce risk and liability, lower overall IT costs, and increase productivity. MX Logic services are available through our industry-leading partner network. For more information, visit [www.mxlogic.com](http://www.mxlogic.com).

### More information:

MX Logic Sales Team  
9781 S. Meridian Blvd. Suite 400  
Englewood, CO 80112 USA  
T: +1.877.MXLOGIC  
F: +1.720.895.5757  
E: [sales@mxlogic.com](mailto:sales@mxlogic.com)  
W: [www.mxlogic.com](http://www.mxlogic.com)