

M86 Secure Web Gateway

Real-time, Comprehensive Web Security for the Borderless Enterprise

The award-winning M86 Secure Web Gateway (M86 SWG) is a proactive, appliance-based solution that provides real-time Web security, increases productivity, ensures compliance and controls bandwidth. Using patented real-time malware detection technology, URL filtering and anti-virus scanning, the M86 SWG protects organizations from crimeware, malware and other threats associated with Web 2.0 applications.

At its core is M86's Vital Web Security Suite™, a group of complementary technologies that include Real-time Code Analysis, Vulnerability Anti.dote™, and Dynamic Web Repair™. Together, they provide the most accurate, comprehensive real-time Web security protection available.

KEY BENEFITS

- **Prevents Crimeware and Malware** – Active real-time content inspection technologies, Web filtering and optional anti-virus modules provide unmatched protection.
- **Ensures Productivity and Bandwidth Control** – Web filtering, content caching and applications control technologies prevent users from accessing inappropriate content.
- **Prevents Data Leakage** – Outbound communications are inspected for sensitive/confidential data, even within FTP/HTTP/HTTPS (SSL), protecting valuable information regardless of a user's location.
- **Simplifies Administration** – Flexible central management with global reach (headquarters, branch offices and mobile workers) is provided from a single point.
- **Provides Logging and Reporting** – All Web traffic within an organization is transparent and visible.
- **Allows Flexible Deployment** – On-site and cloud hybrid deployment options are available, depending on an organization's requirements.
- **High Availability** – uses redundant, hot swappable hardware components
- **Reduces Total Cost of Ownership** – Lower solution, administrative and power consumption costs result in corporate savings.
- **Assists with Regulatory Compliance** – helps enforce HIPPA, SOX (COBIT) DS5, PCI DSS 1.1., GLB Act, FISMA, etc.

KEY TECHNOLOGIES

Real-time Code Analysis

Preempts Unknown, Dynamic Threats

M86's Real-time Code Analysis engine detects and blocks obfuscated code and other dynamic cybercrime techniques in real time. It scans and analyzes all incoming and outgoing Web content communicated over HTTP and HTTPS, regardless of origin and without signature matching. As a result, malware is detected and blocked before entering the network—even when hiding in encrypted SSL traffic.

Vulnerability Anti.dote™

Closes the Vulnerability Gap for Known, Zero-hour Attacks

Using behavioral analysis, Vulnerability Anti.dote identifies and blocks malicious content that exploits known and newly-discovered Web vulnerabilities. Its scanners detect these weaknesses at the point of discovery, before malware can be written and before a patch is released, eliminating exposure to the threat. It is the only technology that provides true zero-hour defense, even against unpublished vulnerabilities.

Dynamic Web Repair™

Eliminates Malicious Code from Web Content

In the event a legitimate website is compromised, Dynamic Web Repair removes the malicious code seamlessly, without blocking the website. After eliminating the offending code, Dynamic Web Repair delivers the safe Web content to the user, ensuring continued productivity.

Anti-virus and URL Filtering

Manage Productivity and Scans for Known Viruses

M86 offers a choice of fully-integrated anti-virus and URL filtering engines as well as SSL-inspection engines. Serving as a first line of defense, these technologies monitor user activity and block known viruses prior to the deep content scanning performed by Active Real-time Code Analysis.

A MULTI-LAYERED SECURITY SOLUTION

Many Web security solutions no longer combat today's sophisticated Internet and Web 2.0-based attacks effectively. Why? Because a window of time exists between the moment a threat is detected and the time it's added to a database, leaving users vulnerable to exposure. In addition, dynamically-generated attacks enable cybercriminals to stay one step ahead of many traditional security technologies.

M86 SWG technologies are proven to detect attacks that evade other security solutions. The M86 SWG dynamically identifies and blocks known, unknown, evolving and obfuscated malicious code. It goes beyond simple "block and allow" rules, removing malicious script from compromised legitimate Web pages. It then delivers safe, formatted content to the end user, enabling a safe and productive work environment.

ADDITIONAL FEATURES

Integrated Data Leakage Prevention (DLP)

- Secures inbound and outbound Web 2.0 content traffic to prevent malware and data leakage
- Detection of "Trojans phoning home"
- Inspection of HTTP, HTTPS, FTP and FTP over HTTP
- Deep analysis of various content types, such as dictionaries and powerful logic rules.

Application and Productivity Control

- Enables corporate control over the use of social media (Facebook, YouTube, MySpace, etc) and time wasting websites (gaming, shopping, gambling, etc).
- Application control with flexible setting of rules by application type including instant messaging, Skype and P2P

Policy Control and Management

- Single policy control and report aggregation of all users at headquarters, branch offices or off-site
- Master policy enables policy inherency for easier administration
- Powerful task-based management and granular policy settings
- Multi-level/Delegated administration enables multiple administration groups to manage and monitor the system with different authorities
- Powerful logging and tracking of Web security violations, system events and audit trail. Transaction ID enables quick tracking by the help desk
- Intuitive policy settings wizard for management of security policies with single-click rules refinement.

Data Privacy and Regulatory Compliance

- Ensures confidential data remains within corporate boundaries
- Helps enforce regulatory compliance, such as HIPPA, SOX (COBIT) DS5, PCI DSS 1.1., GLB Act, FISMA, etc.

Reporting

- Evaluate productivity, compliance and security using drill-down reports and dashboards provided by the Vital Security™ Reporter
- Reporting and logging provide clear visibility into the entire organization's Web traffic
- Centralized management and dashboard reporting for simple administration, control and monitoring

Interoperability and Performance

- Integrates into various network topologies and monitoring systems smoothly. Supports Cisco WCCPv2, ICAP, Syslog and SNMP v3 standards
- Secure content caching for accelerated content delivery and enhanced productivity
- Support of transparent proxy mode and of bridge mode
- User authentication/identification is based on Microsoft Active Directory or other LDAP servers, without the need for any additional software
- Secure LDAP ensures that authentication credentials are transferred securely from the directory server to the appliance
- Supports RADIUS authentication for administrators
- SNMP support provides "just-in-time" alerts of relevant operational events using SNMP traps, as well as email alerts

M86 SWG DEPLOYMENT OPTIONS

On-premises

M86 SWG appliances are available onsite for:

- Large organizations -- **M86 SWG 7000**
- Enterprises -- **M86 SWG 5000**
- Midsize organizations -- **M86 SWG 3000**

On-premises and Cloud-based Hybrid

The M86 Secure Web Service Hybrid combines on-site and in-the-cloud security, protecting users at headquarters, in branch offices and in remote locations.

M86 SWG APPLIANCE MODELS

M86 SWG 3000 (previously NG-5000)
for Midsize Organizations



Hardware Performance Specifications SWG 3000	
CPU	1 x Intel Xeon Quad-Core X3430 2.4GHz
Hard Disk	250Gb 3.5" 7200 RPM Simple-Swap
Memory	2GB
Rack space (1U)	430 x 560.1 x 43 mm (WxDxH) 17.3 x 22 x 1.69 inches (WxDxH)
Gigabit Ethernet NIC	4
Caching kit (optional extension to the SWG 3000)	
Hard disk	250GB SATA2

M86 SWG 5000 (previously NG-6000)
for the Enterprise



Hardware Performance Specifications SWG 5000	
CPU	2 x Intel Xeon Quad-Core E5506 2.13GHz
Disk	2 x 146GB SAS (RAID 1)
Memory	4GB DDR3
Rack space (2U)	440 x 711 x 43 mm (WxDxH) 17.3 x 28 x 1.69 inches (WxDxH)
Gigabit Ethernet NIC	4
Caching Kit (optional extension to the SWG 5000)	
Hard disk	2 x 73 GB SAS
RAID controller	1 x IBM ServeRAID MR10i

M86 SWG 7000 (previously NG-8000)
for Large Organizations



Hardware Performance Specifications SWG 7000 (per blade)	
CPU	2 x Intel Xeon Quad-Core E5506 2.13GHz
Hard Disk	Up to 2x146GB SAS
Memory	4GB DDR3
Gigabit Ethernet NIC	Up to 4
Caching Kit (optional extension to the SWG 7000 scanner)	
Hard disk	73GB SAS
IBM eServer® BladeCenter™ Chassis	
Max. number of blades	14 hot swappable blade servers
Rack space (7U)	44.4 x 71.1 x 30.4 cm (WxDxH) 17.5 x 28 x 12 inches (WxDxH)
Redundancy	Hot swappable blowers and power supplies
Number of users per deployment	Up to 30,000 per chassis



M86 SWG appliances are environmental-friendly due to their power consumption savings, and they comply with the EU RoHS Directive.

ABOUT M86 SECURITY

M86 Security is the global expert in real-time threat protection and the industry's leading Secure Web Gateway provider. The company's appliance, software, and Software as a Service (SaaS) solutions for Web and email security protect more than 24,000 customers and over 17 million users worldwide. M86 products use patented real-time code analysis and behavior-based malware detection technologies as well as threat intelligence from M86 Security Labs to protect networks against new and advanced threats, secure confidential information, and ensure regulatory compliance. The company is based in Orange, California with international headquarters in London and development centers in California, Israel, and New Zealand.

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