

*One appliance providing multiple features
designed to preemptively stop Internet threats*



IBM Proventia Network Multi-Function Security – MX5008 and MX5110

Network security threats are more than skin deep

Single layered security such as a firewall or antivirus protection is no longer enough. Security threats have become more sophisticated in their approaches to attacking businesses. Organizations must deploy multiple security strategies to combat the network threats that reside both internally and externally. The severity of a security breach can be disastrous, if not fatal, to an organization. Large businesses, as well as remote and branch offices, face the same types of Internet threats that the largest enterprise-level networks face. The IBM Proventia® Network Multi-Function Security (MFS) MX5008 and MX5110 appliances from IBM Internet Security Systems™ (ISS) provide comprehensive multilayered security designed to preemptively stop Internet threats before they penetrate the network and disrupt business operations.

Comprehensive security in a single device

The complexity of the modern security landscape requires businesses to adopt multiple security strategies (a multilayered approach) to their network infrastructure. With Proventia Network MFS, IBM ISS unites these multiple security technologies into a single appliance.

Proventia Network MFS combines:

- *Industry-leading Intrusion Prevention System (IPS)*
- *Stateful firewall*
- *Signature and behavioral antivirus*
- *Virtual Private Network (VPN) capabilities*
- *Content filtering*
- *Anti-spam*

By joining these six security technologies, Proventia Network MFS provides all the security content needed to support enterprise-level networks on a single appliance at a compelling performance price. Proventia Network MFS MX5008 and MX5110 are ideal for larger businesses, branch offices and retail locations. By consolidating six security technologies into a single 2U appliance, organizations benefit from best-of-breed security without requiring a host of in-house security experts to monitor and manage network performance. With an all-in-one security approach and by requiring fewer information technology (IT) resources to manage network security, Proventia Network MFS provides preemptive, industrial-strength protection at a low total cost of ownership.

Flexible and scalable

From the moment organizations attach Proventia Network MFS to the network, the solution provides comprehensive security. For organizations with limited IT expertise, the default settings on Proventia Network MFS provide the coverage needed to help secure the network from attack.

For businesses with IT expertise, Proventia Network MFS MX5008 and MX5110 can be customized to seamlessly integrate into even the most advanced network environments. Organizations can even choose which

Module	Protection Delivered
Intrusion prevention	More than 7,400 vulnerabilities blocked by default using 1,000+ detection algorithms
Antivirus	Sophos provides more than 340,000 virus signatures for known viruses and behavioral detection of unknown viruses
Anti-spam	95 percent+ of spam blocked
Web filtering	More than 9 Billion URLs categorized to the filter list

security modules to utilize, create policies that allow/deny specific Internet traffic, and build groups within the network to establish permissions to access information.

Proventia Network MFS can also help businesses with multiple sites manage their security posture for all locations from a single site. The security architecture can even be standardized with Proventia Network MFS by utilizing custom features such as Locally Resolved Variables.

For organizations that need advanced reporting features and/or to deploy Proventia Network MFS to multiple sites, IBM Proventia Management SiteProtector™ system can provide a complete set of central management features that help save time and reduce complexity. The SiteProtector system allows management of not just the Proventia Network MFS, but also any other IBM Proventia product family offering – from a single central management interface.

Meeting compliance requirements

Business compliance and industry regulations can add a level of complexity to network security, as well as increase cost and drain IT resources in an often times already strained department. Proventia Network MFS MX5008 and MX5110 are designed to protect organizations against security threats, safeguard critical data and help meet security requirements for regulations such as the Sarbanes-Oxley Act (SOX), the Health Insurance Portability and Accountability Act (HIPAA) and the Payment Card Industry (PCI) Data Security Standard (Proventia Network MFS helps to achieve 10 out of the 12 security standards defined by the PCI Data Security Standard) – without increasing the budget or draining IT resources. In fact, Proventia Network MFS can help reduce IT resource requirements, allowing organizations to instead focus on revenue-generating activities.

Features and benefits at a glance

- *Performance-based protection – offers the industry’s leading performance-based service level agreements (SLAs) with a cash-back payment when managed by IBM ISS.*
- *All-in-one protection – helps eliminate the need to acquire, install and manage multiple solutions from different vendors.*
- *Easy to manage – allows organizations to plug-and-play the device or customize the security features to meet their needs.*
- *Easy to update – supplies prompt product updates via IBM X-Press Update to help protect businesses against the newest security threats by updating without manual intervention or system downtime.*
- *Virtual patch protection – helps put organizations in control over ad hoc and emergency patching by shielding vulnerabilities at the network level.*
- *IBM Internet Security Systems X-Force® research and development team security intelligence – provides easily accessible event details, including full descriptions with recommended actions and responses.*
- *Intuitive reporting – transforms raw data into informative and intuitive reports to aid decision making.*
- *Streamlined compliance – helps achieve compliance with security protocols in such industry regulations such as HIPAA, SOX and the PCI Data Security Standard.*

Specifications

	MX5008	MX5110
Hardware specifications		
Form factor	2U	2U
Interfaces (10/100/1000)	Eight 10/100/1000 Mbps	Ten 10/100/1000 Mbps
Weight	18 Kg (40 lb)	18 Kg (40 lb)
Dimensions (W x H x D)	430x88x490 mm 16.9"x3.46"x19.3"	430x8x490 mm 16.9"x3.46"x19.3"
Enclosure	Fits 19-inch rack with Rack Kit	Fits 19-inch rack with Rack Kit
Serial ports	One	One
UPS support	No	No
AC power	500 W (redundant) AC 90–260 V at 47–63 Hz	500 W (redundant) AC 90–260 V at 47–63 Hz
Operating	0° C–40° C (32° F–130° F)	0° C–40° C (32° F–130° F)
Emissions/Product Safety/Certifications	<ul style="list-style-type: none"> • U.S.: FCC CFR47 Part 15 Class A • Europe: CISPR 22 Class A; "CE" Mark of Conformity • Japan: VCCI-A • Korea: Korean Requirement Class A • China: People's Republic of China commodity inspection law • Australia/New Zealand: ACA C-Tick • UL 60950-1 1st Edition Underwriters Laboratory, Safety Information • CAN/CSA 22.2 No. 60950-1 1st Edition • EN60950-1:2001 European Norm • IEC 60950-1 1st Edition, International Electrotechnical Commission, Safety Information • Nordic deviations to IEC 60950-1 1st Edition 	<ul style="list-style-type: none"> • U.S.: FCC CFR47 Part 15 Class A • Europe: CISPR 22 Class A; "CE" Mark of Conformity • Japan: VCCI-A • Korea: Korean Requirement Class A • China: People's Republic of China commodity inspection law • Australia/New Zealand: ACA C-Tick • UL 60950-1 1st Edition Underwriters Laboratory, Safety Information • CAN/CSA 22.2 No. 60950-1 1st Edition • EN60950-1:2001 European Norm • IEC 60950-1 1st Edition, International Electrotechnical Commission, Safety Information • Nordic deviations to IEC 60950-1 1st Edition

	MX5008	MX5110
Redundant power supply	Yes	Yes
Redundant disk array	Yes	Yes
Operating system (OS)	Proprietary	Proprietary
Mean time between failure (MTBF)	48,427 hours (5.5 years)	48,427 hours (5.5 years)
Network features		
Network Address Translation (NAT)	Yes	Yes
Masquerading/port address translation	Yes	Yes
Reverse NAT	Yes	Yes
Traffic-based access control	IP, port, protocol	IP, port, protocol
Dynamic Host Configuration Protocol (DHCP)	Client and server	Client and server
Point-to-Point Protocol over Ethernet (PPPoE)	Yes	Yes
Layer 2 mode	Yes	Yes
Open Shortest Path First (OSPF)	Yes	Yes
Traffic Shaping	Traffic Prioritization, Bandwidth Enforcement, Bandwidth Guarantees	Traffic Prioritization, Bandwidth Enforcement, Bandwidth Guarantees
RIP	Version 1, Version 2	Version 1, Version 2
VPN features**		
Internet Protocol Security (IPSec) with Internet Key Exchange (IKE)	Yes	Yes
Layer Two Tunneling Protocol (L2TP) support	Yes	Yes
Encryption algorithms***	DES, 3DES, AES	DES, 3DES, AES
Authentication algorithms	MD5, SHA-1	MD5, SHA-1
Perfect forward secrecy (Diffie-Hellman)	Groups 1, 2, 5	Groups 1, 2, 5
IPSec NAT traversal	Yes	Yes
Public Key Infrastructure (PKI) support	Yes	Yes
Interoperability with major VPN vendors (IPSec)	Yes	Yes
Microsoft® Windows® XP client wizard	Included	Included
SSL VPN features		
Modes of Access	Web, Web & TCP, Full Install	Web, Web & TCP, Full Install
Authentication Mechanisms	Active Directory, LDAP, RADIUS, X509	Active Directory, LDAP, RADIUS, X509
Client Security Checks	Yes	Yes
User / Group Access Control	Yes	Yes
VPN Tunnels Protected	IPS, Antivirus, SPAM, URL Filtering	IPS, Antivirus, SPAM, URL Filtering
Maximum Concurrent Users	100	125

	MX5008	MX5110
Web filtering		
URL blocking	More than 9 Billion URLs categorized	More than 9 Billion URLs categorized
Rate of URL database updates	More than 120,000 updated URLs daily	More than 120,000 updated URLs daily
Number of URL categories	62	62
Image analysis	Yes	Yes
Text analysis	Yes	Yes
User-configurable include/exclude lists	Yes	Yes
Spyware analysis	Yes	Yes
Anti-spam		
Spam-detection rate	More than 95 percent	More than 95 percent
False-positive rate	0.01 percent (1 in 10,000)	0.01 percent (1 in 10,000)
Subject-line tagging	Yes	Yes
Automatic spam deletion	Yes	Yes
Spam sample database	More than 200,000	More than 200,000
Mail protocols supported: Simple Mail Transfer Protocol (SMTP) and Post Office Protocol 3 (POP3)	Yes	Yes
Signature and behavioral antivirus		
Protocols protected	HTTP, FTP, SMTP, POP3	HTTP, FTP, SMTP, POP3
Inbound/outbound inspection	Yes	Yes
E-mail attachment inspection (including compressed files)	Yes	Yes
Zip	Yes	Yes
MIME/UU	Yes	Yes
LHA/LZH	Yes	Yes
TAR	Yes	Yes
GZIP	Yes	Yes
ARJ	Yes	Yes
CAB	Yes	Yes
PKLite	Yes	Yes
LZEXE	Yes	Yes
Stops zero-day variants such as Zotob, Blackworm and others	Yes	Yes
Spyware analysis	Yes	Yes

	MX5008	MX5110
Intrusion Prevention System (IPS)/Intrusion Detection System (IDS)		
Number of protocols inspected	More than 190	More than 190
Number of attack signatures	More than 2,500	More than 2,500
Blocking	Yes	Yes
Number of blocked threats out-of-box	More than 7,400	More than 7,400
Drop offending packet	Yes	Yes
Reset connection	Yes	Yes
Block connection	Yes	Yes
Block worm	Yes	Yes
Block Trojan	Yes	Yes
Block intruder	Yes	Yes
Neuter attack	Yes	Yes
Block future traffic	Yes	Yes
Performance		
Maximum recommended users****	2,000	3,000
Stateful throughput speed (firewall only)	1,600 Mbps	1,800 Mbps
Full inspection speed – firewall, IPS and Web Filtering	730 Mbps	800 Mbps
Full inspection speed – IPS, Web filtering and antivirus (mail only)	496 Mbps	566 Mbps
Full inspection speed – IPS, Web filtering and antivirus (mail, FTP, Web)	135 Mbps	150 Mbps
Maximum connections per second	9,580	12,500
Maximum concurrent sessions	150,000	150,000
VPN performance		
VPN capacity or maximum recommended tunnels (site-to-site/remote)	250	250
Maximum VPN 3DES encryption speed	74 Mbps	80 Mbps
Maximum VPN AES encryption speed***	230 Mbps	247 Mbps
Maximum VPN 3DES encryption speed with hardware acceleration***	180 Mbps	230 Mbps
Maximum VPN AES encryption speed with hardware acceleration***	298 Mbps	313 Mbps
E-mail (with both antivirus and anti-spam)		
Maximum number of 1KB messages throughput per hour	10,210	11,640
Maximum number of 1KB messages with 500KB attachments throughput per hour	970	1,180

	MX5008	MX5110
Logging/notification		
Event logging	Yes	Yes
E-mail	Yes	Yes
Simple Network Management Protocol (SNMP)	Yes	Yes
High-availability		
Active/passive	Yes	Yes
VPN user authentication		
Internal database	Yes	Yes
RADIUS (external) database	Yes	Yes
LDAP support	Through RADIUS	Through RADIUS
RSA SecureID (external) database	Through RADIUS	Through RADIUS
Xauth over RADIUS for IPSec VPN	Yes	Yes
IP/MAC address binding	Yes	Yes
Management		
Centralized management	Yes (with SiteProtector system)	Yes (with SiteProtector system)
Local management	Web-based	Web-based
Multiple administrators and user levels	Yes (with SiteProtector system)	Yes (with SiteProtector system)
External administrator database	Yes (with SiteProtector system)	Yes (with SiteProtector system)
Multilanguage support	No	No
Secure shell (SSH) access	Yes	Yes
Customer support		
Hours available – standard	24x7x365	24x7x365
Hours available – premium	24x7x365	24x7x365
Number of support incidents	Unlimited	Unlimited
Number of designated callers	From two to five	From two to five
Additional designated callers	Optional	Optional
Additional languages	Optional	Optional
Customer portal	Yes	Yes
Customer knowledgebase	Yes	Yes
Warranty	One year + contract	One year + contract
Advanced hardware replacement	Yes	Yes
Third Party Certifications	Support center practices (SCP) NSS ICSA	Support center practices (SCP) NSS ICSA

** Free VPN client available using Microsoft Windows XP L2T VPN client or by purchasing a separate VPN client.

*** The Proventia Network MFS-W Series only contains only the DES Encryption Algorithm to meet Russian Federation encryption requirements.

Proventia Network MFS MX-L Series of models are limited to a maximum VPN performance of 44 Mbps.

**** Capacity ratings based on nodes represent general guidelines about the size of the network to be placed behind a particular Proventia Network MFS appliance.

About IBM ISS

IBM ISS is the trusted security expert to global enterprises and world governments, providing products and services that protect against Internet threats. An established world leader in security since 1994, IBM ISS delivers proven cost efficiencies and reduces regulatory and business risk across the enterprise. IBM ISS products and services are based on the proactive security intelligence conducted by the X-Force team – a world authority in vulnerability and threat research. For more information about Proventia Network MFS MX5008 and MX5110, please contact your IBM representative or IBM Business Partner. You may also call 1 800 776-2362 or visit ibm.com/services/us/iss.



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08-08
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